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# BRITISH MEDICAL IOURNAL. 

BEING THE JOURNAL OF THE BRITISH MEDICAL ASSOCIATIGN. , हो , हll

## A LECTURE

TUMOURS OF THE BLADDER.
Delivered at University College. Hospital, November 21st, $188 \%$.
By Sir HENRY THOMPSON, M.B, F.R.CS.
Corisalting Sargeon and Professor of Clinical' Surgery to the Hospital, etc.

## PART I.

AFTER remarking on the extremely narrow limits. which this subject occupied a few years ago, compared with that which it has at the present day, the lecturer continued :-With regard to the varieties of tumour which affect the bladder, they, are to be classified as in other parts of the body, according to their histological characters, and also to their tendency to invade surrounding structures and reproduce thamselves elsowhera.

Until recently, most vesical tamours were supposed to belong to that class of growths roughly indicated as "cancerous." And besides these, a single spacies, was familiarly recognised under the term "villaus," "although by somo this was also relegated to the preceding class, as "villous cancar," without any warrant, however, for doing *0. It was wall known to be a bleading tumour, which sooner or later produced a fatal rosult by ita siogle irrepressible function of continuous blood-latting. This so-called "villons growth "is, in fact, of all varieties that which moat commonly affects the bladder, and it will form the most prominent in the series now presented, but under snother name-that of papilloms.
First, howaver, I shall briefly mention as the lesat complax form of growth springing from the vasical mucous, membrane, the simplo muoous nolypus, that formation of which the well known nassl poly pus is the typa. It is very rarely found in the bladder, and has at more will be said of it here.
Secondly, we come to the growth just referred to as papilloma; it is 80 called because its distinctive structure is that of an outgrowth from the mucous membrane in the form of papillæ, more or loss covered with a well defined epithelium, sphernidal or more commonly cylindrical, each papilla being provided with a considerabla blood-vessel. The atructure, indeed, is normsl in its elements, and the arrangement of these is normal also, inssmuch as the papilla is simply a very slender fold or axteraion of mucous membrane. A section of the mucons coat from an empty healthy bladder, mado immediately aftor desth, will farbish the same appoarance in overy respect. I show jou here an sdmirable section takau from the monkey in tho con. It is not dis. which, of course, is notilloma." To raturn : when thess papillz are long, slender, and filamentous, floating in the urine, springing together in a group from a circumscribed basg or stalk, they are termad "fimbriated papilloma." If the organ containing such a growth is examined in air inatead of under water, the fimbrim collapse, adhere, and form a soft, rounded, scarlot mass, which is quite charscteristic. Uniting the filaments, especially at the base, there are always some connective tigsuss intergpersed, and mostly soms non-stripad muscular fibres also. Then sometimes the outgrowth epringing from a pedicle expands so as to form a small polypoid mass, much firmer than the nasal variety just slluded to. It may grow to a large size, and whether small or large there may be two or more springing from the same base. 7

Whan there is a larger proportion of the fibrous structures named, associated to form the growth, and it is denser in structure than those first described, I have emplayed the term "fibrous papilloma" to
denote it.
Fibrous papilloma thus undergtopd is, of course, ralated through in-
aensible gradations to the fimbriated variety; although the two are essentially distinct in their nature, since the Gubristed variety may continue increasing in sizo for years while, still-rotaining its simple structure, and it does not necessarily acquirs density with 8 gg . A characteriatic fibrous papilloms is a growth chiefly solid, and as anch
may form a considerable mass, with only a small proportion of fimbristed papillæ on its surface. And hare let matell yon that these fimbriated papillæ may be found attached to the surface of ony vesical tumour, oven to some forms of malignant growth, apparently as accidental adjuncts, the true character of the tamour being unsltered thereby. And this is a matter of importance in relation to diagnosis, and obvionsly indicates the necessity for caution in forecasting the reault of operation, since a spacimen of papilloms in the urine, while it proves the presence of that growth in the bladder, does not absolutely bar the possibility that a more cerious growth may be there also.
wida base, rocciondally wo find a tumour springing generally from a Wide base, rounded in form, firm in consistence, not large, although
one or two such have been wnet term of growth, the chief constituent of whi
ter is a considerable fibre, such as that which constitutes the which is organic masenlar itself. This is termed myoma. It may be more or less intermizad with bands of connective tiasue, and it may have fringes of papilloma on the surlace, but the distioctipe character fonad on examination datermines its classification as a muscular growth.
In carefully axamining the foregoing tumours under the microscope; a few examples sre met with in which may be obsarved a large quantity of small nucleated cells interspersed, or grouped among the constituents of the fibrous stroma forming the denser portions of the tamour ; and sometimes cells of irregular form, not apparently belongiug to. any normal type. And such a structure always arouses suspicion that the growth is not so ionocent in its ten-
dency as papilloma, and may not dency as papilloma, and may not improbably bo renroduced after re-
moral. It suffices for the present to speak of moral. It suflices for the present to speak of these as forming an the next group
This is that important class of growths the stracture ef which is largaly composad of epithelium in varied or modified forms ; and their tondency is to invada and infiltrate by rapid increase, all adjacent stractures. Among them, epithelioma may be first named; as it appears not infrequently to affect the bladder, and its course is probably not more rapid there than it is in other parts of the body. Scirrbas, is somewhat more rare, and progresses more slowly than the preceding. The more rapidly developed and larger growths formerly grouped 89 encephaloid, and now defined 89 round-celled and spiodle: affect the prostate are certaialy rare in the adnlt; they occasionally subject to the other forms of mar. of children who appear not to be sabject to the other forms of malignant diseasa in those nrgana. Lastly. may be named, as the rarsst of all, the dermoid tumour, which has been on tro or three occasions met with in the bladder.
Now the symptoms of vesical tumour present nothing special at the ontset, a littlo undue frequency of micturition is then commonly the
only siga, and 9 xcites no suspiciou as to the the progress of papilloma there is an important sion, cbaracterist. in it throughont its entire course, and common to most other tumians at a late period, nsmely, the appearance of blood in the urine. Asingle hemorrluage occurs after exercise, thus rescmbling that from calculus, hence its presence is often suspected, but with certain differences Which yon may advantageously note. First, the hremorrhage from papilloma is generally much more abundant than that of calculus; ard sacondly it is mostly unaccompanied by pain and irritation of, the bladder. As the case advances, brmorrbage becomes more frequent ; pain, however, is still rarely complaiued of unless obstruction to the outfow of urino is occasioned by clots. Such a history shonld
slwas atouse great suspicion. The synitoms described hape pary commanly, until recent tima, been attributed to "congestion of the kidney," a rare, if not unknown occurrance, without the prosence of other symptoms than those which have been named. And a carefnl inquiry ahould be mado in order to determine the diagnosia. En-
doarour first to learin whether the matieat has evor observed that the act of micturition eomotimes comnences by passing urina natural in appearanco, but becoming stainod ar mized with florid blood towards tho close. If so, the sourco is vesical, possibly prostatio, at all erents not renal, bat is moro probably tho result of tumour. When blood comes from the kidney, it is almost inveriably mixed with the urioe, and anless it is very rocont indcod, it is brownish, not florid in tint. Occaslonally, although vory raroly, florid blood may appear first and close urizo afterwards, bat the reverso is tho almost invariable rule.
Secondly, microsconic examiastion of detris passed in the utine must be delicently made, and before long tho characteristic appear. anco of papillomatous structure will, if present, generally bo dis. covered. "The bladder may be washed ont with plaio water, espocially after an examination by soanding, in order to obtain the oriderice in gueation. For the nature of the structare sought, see Fig. 1; which

shows a typical specimen, such as may be often found, and a glance at Which ensbles you to affirm without hesitation, the presence of a papillomatous growth in the passages, and its site may be safely astumed to bo tho bladder, where the symptoms described are present. ${ }^{1}$

But, yon msy say: Why not sound tho bladder, as we do for a stone, and determino tho question thus? For this reason, that the question is not thus determinable. The soft, filmy tissucs, even when spring. ing from a thick basc, cannot be felt floating in a fluid modium, and field no eviclence to the sound. Nor does rectal cxamiaation afford a gign unless the blalder is distended by the growth, when the organ feels rounded, bat very soft, as if filled with fluid. On the other hand, when there is a canccrons growth involviag the bladder to a notable extont, a well-defiocd mass of irregular outline and of hard, nnyielding consistence, almost invariably presents itsclf to the finger in the bowel. Whenever this is mot with, a condition so diferent from the rounded and yielding mass presented by senilo enlargement of the prostate, thero nood be little doubt as to the very grape fact indicated, asmely, the presonce of scirrhus occupyiog the walls of the bladder itself, and thereforo irremovable by art. If on this point. you are in any doubt, you may with the short beaked sound obtain further evidence by exsminiag the rectum with the finger at the came time When carcinoms in any form may uqually be thus dotected. Having verified its presence, we make no attempt at romoval ; zothing can be gained by dealing thus with any portion of such a tumour.
How wa are to treat the non-malignant grow ths will be discnssed next. (To be concluded.)

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# lettsomian lectures 

## SOME POINTS IN THE SURGERY OF THE URINARY ORGANS

Delivered before the Medical Saciety of London, January, 1898.
Br REGINALD HARRISON, F.R.C.S.
Surgeon to tho Liverpool Royal Infirmary; and Lecturer oo Clinical Surgery in the Yictoria University.

## - A Lecruke't.

Urine Fever and Toxio Urine.-The Formation of Stricture Thiser in Refraenge Speoially to the Treataent
of Uketmbal Strioture.
Mr. President and Fellows,-Let mé, in the first place, thank you for permitting, mo to address your ancient and learnod Soclety in the capacity of Lettsomisn Leoturer for the present aession. At the same time, and with a full consciousness of my inability to approach you as I would desire, let me also ásk your indulgence whilst I attempt to follow in the direction solected by many who, in preceding me in this chair, hare so largely contribated to the practical advancement of medicine and sargery.
"As I have already indicated, I proposo making some observations relative to certain points arising out of the surgary of the urinary argans. It is now some jears since my attention" wa's directed to the circumstances under which fever was occasionally seen in conneotion with various lesions involving the urinary tract. It apparad to mo that the subject had searcely received theattention it deserved, and that a further knowledge of the etiology of what I would speak of as urine fever, as opposed to ordianary wound fever, might be of service to us as practical surgeons.
Let me, for the sake of clearness and comparison, briefly illustrate in a familiar way what I mean, and then I can the moro essily deduce the points upon which I desire to lay stress this evening.
In surgical practice we have long been accustomed to recogaise, after injuries and operations, a form of excitement which is goneraly innown as wound or traunatic fevor. It varies in degree according to circumstances, is generally attended with some elevation of tempera. ture, and it usually declines without proving either serions or fatal. Since the due recagnition of these principles upon whinh Listerism is based, the development of this kind of fever has been considerably restricted, if not entirely abolished.

In etriking cootrast with this we have a distiactivo form of fever, not unlike ague in many importanc respects, which is alono, 800 n in lesions involving the nrinary tract. Let us take, for examplo, tho simple operation of internal urethrotomy. Here an incision, limited to a fow lines in length, is made in the urothra, whiah tho pstient for some two or three hours is probably ursoonscious of. Then he is seized with a rigor, which terminates in fever anil an elevation of tempersturo. As a rulo, these symp coms decline in the courso of a fow hours, possibly to be repeated, More rarely the rigor and fever are follored, by suppression of ur', ae, convulsions, and speedy death posh-morten examination failir g to discover any reasonsble or reoog nisod explanation for these rinenomena. The symptoms, thongh, as a rule, in only slight dogre a, more freqnently follow internal urethro. tomy, accidental wound. A, more arsthra, and the intraductiou, of a cathcter or a bougie. even the last mentioned oporation, simple as it usually is, has prove a fstal in the coursa of a few hours, with little or nothing to show in explanstion. Here then, as I have said befare Wo have a trair of symptous resembling aguo, whioh sre ouly called into oxistouc in connection witli lesions involving the urianry tract. ferred tr at I may be perfootly understood as to the phanomens referred tr
let ina briefly fllustrato tho kind of case alludod to by narra. © .rom my own practice.
omé yoars ago, in s casio of extremely tight strictare, I performed - on internal urethrotomy on young and otherwise healthy male; three hours afterwards he had a rigor, followed by high tomperatare, oonvulsions, and suppression of urine; and in forty-six hours he was dead. Postoniorlem examination falled to prove anything ercept thst the operation hat been properly performed.

In the course of last year I esw a boy, aged 11 years, who, having raptared his urothra lyy a fall, bat retontion of urine for thirty hours
before I visited him in consultation. $\Delta$ catheter was then passed with some dificulty along the lacerated canal and retained, the retention boing in this way relieved. - On the following morning he was visited, and found to have passed a restless night, with a temperature of $102^{\circ}$ F. About four $0^{\prime}$ 'clock the same day his usual medical attendaut, Dr. Davies, was summoned, and found the patient in severe convulsions, and absolutely unconscious: The temperature was then $105^{\circ} \mathrm{F}$. He could not swallom; the fits recurred with much violence, attend $£ \mathrm{~d}$ with opisthotonos, and he became comatose, and died at midnight, that is to say; about tweity-four hours after I first saw him and the eatheter, $\overline{\text { wis }}$ passed.
I could nat: help observing that so long as this pationt had retention he was conparati elly safe ; when, howerer, an opportunity was alforded to the urine of coming and continuing in contact with the laceration in the urcthra by mesns of the rotained catheter, then a pracess of acute pois niog seemed to commence, which speedily termixiated in dcath.
In 1874, a healthy middle-ggod man was nindor my care for a tight urethral strictare, for which, in the courso of treatment preliminary to dilatation, a metal instrument carcfully passed was followed by sorue recy, blight bleeding, Four hours after this he had a rigor; and his temperature went up to $103^{\circ} \mathrm{F}$.; this was followed by a succession of rigors, at intervils of. frome eight to. twelve hours, with occasional
ponitings. For over fifty hours tha ameuat of urine excreted, was ouly four ources. During this period the pulse was quick and thready, the tongue dry and brown; there was a tendency to drowsiness, with ocessional delirium, and desth appeared to the immirent. After remaining in this serious condition tor ten days, le ultimately completely recóvered, though he conplained of muscular pains and much prostration for some time afterwards.
Illustrations such as these, and others that I conld quote, seemed to indicate, that the presence of , urine in a wound, under certain eircumatances, was capable of generatiug an aguish form 'of pyrexiz, which I shall spesk of henceforth as urine, fiver. I am aware that soine authorities are accustomed to speak of all the pheuomena I have just illustrated under the one name of urethral fever. Snch a term, I think, is misleading, inasmuch as it seems to connect tha symptonis produced with the preciso part, rather than with the process, for wherejere throughout the urinary tract urine can be placed ouder certain conditions, there can all the phenomena usuall I associated with the term urethral fever be produced. With the view of endeavouring to 'throw some light on tho causation of this, I determined some years ago to investigate (1) the relationship between urine and a wound Which leads to the development of urioc fever ; and (2) the -probabla of these two inportant practical points I would now desire to direct rour attention.
In the first place, it appeared to me that the development of urine fever might he traceable to the kind of contact that existed between a wound and the urine $I$ thought I would test it in the following सay. Taking a number of cases of subpubic urethral stricture, which सere, unfitted for treatment by, dilatation, I adopted the following procedure i I Internal urethomy having been performed, and all obstruction being removed, so that a full sized grooved staff could be passed into the bladder, the patient was placed in the lithotomy position; and a median cystotomy was performed, quite independent of the previons internal operation, so as to admit a full-sized drainage tuhe, such as I. usually employ for this purpose, to be passed into the bladder. By this combination of internal and external urethrotomy I treated ${ }^{3}$ considerable number of urethral strictures of the worst type with results which time has already shown have been eminently satisfactary, both so far as the inmediate, comfort, of the patient was concerued and the permanency of the relief that, was afforded.
After a number of trials of this kind, I soon found that as was my drainage, so was miy freedom from fever ; utine fever only occurred where the former was imperfect. When urine, even in very small quantitios, was pent up in a recent wound, fevcr resemilling ague iutvariably followcd. When, on the other hand, mine was allowed to escape frely and continuously, as after a latcral lithotomy, no such
symuttonss wero dereloped. But, further than this, in convection with the operative treaument of strictare, it was observed with niuch unifornity that, in cases where it was impossible to obtain perfect urino drainege, the urine might, so to spealk, be sterilised by local or goneral measures. This teuded considerably to prevent the uriue undergoing changes and yielding products whioh were calcnlated by their absorption to produce this sprecial kind of fever. For instance, 1. found that after an, interusl urethrotony certain antiseptio pre-
cautions, directed tomards the wound as Fell as the bladder, for the
purpose of acting apoa the contents of the latter, considerably reduced both the frequency of these attacks as well as their soverity. This was chiefly noticeable in conncction with the uee of selations of corrosive anhlimate for irrigating the wound, as well as for retaining within tho bladder. Further, it was impossible not to recogoise tho importance of certain drags, which by their elimination in some degree through the urine, seemed to render the latter leas capable of exciting a specific fever where it remained in contact with a recent wound. This Was most marked in the case of quinine, which is 80 largely eliminated by the urinary apparatus. In some cases of internal urethrotomy that were observed, the prodnction or not of urine As bearing upon the sterilisation of urive in connection with overa. tive procedures on the urinars apparatus, I will refer to a pasace from a recent writer who, in bearing testimouy to the value of boracic acid as a prophylactic against urethral fever, states that in some forty urethrotomies, he had had hut one case of urethral fever, and that occurred in an instance: where the precaution of sterilising the urine by the andmmistration of boracic acid had been accidentally omitted. The consequeace of this was a violent chill on the third tions, then, taken collectively, seemed to mes clearly to indicate the kind of contact between fresh urine and a recently made wound was in itself sufficient to determine the occnrrence of urine fever at a conseqnence.

I will now pass on to notice, in tbe second place, the probalile natore of the influence or waterial by which the ferer is actually produced. in faring the last seme important investigations have been During the ast fow development of animal alkaloile, both in tho dead and living, by Mpssre. Gautier; Peter, and Bnuchard, in France; and by Drs. Lander Brunton and A. M. Brown; in this country. An addrcss of much interest on this subject, in its relation to practical medicine, has also been recently delivered by Sir William Aitken. To all, these gentlemen we are, indebted for much valuable information. From these investigations I do not think there can be any donbt in coming to the conclusion that the sacretions of living beings propertics, and that nany phenomena connected both woisonons and disease may thus be acconnted for. For, as Gautier "Of all the extractive, composite residua, the slkaloids of animal origin are worthy of the deopest interest. It is only now that they have become familiar to us. They claim our special studs from the ract of their constant presence in normal secretions, and must be
classed with the most active agents in connection $\pi i$ most the surgery of these patits, it seems nrobable that the development of urine fever is really due to the absorption of some anch poisnons componad as an alkalond which is derived either from urine, or tissue, or wound decomposition, or from all combined, and I, would hase this conelnsion not from any chemical discovery that, so far as I know, has bitherte been made bot from the fellowing stated : ated 1. That the presence of urine in relation with a recent round is necessary for the production of what I have spoken of as nrine fever. 2. That mere contact of urine with a weund is not suffient for its production.
3. That the retention of fresh urine within the ares of a recent wound is almost invariably followed by its development in a greater or lesser degree.
4. That where urine is placed under such circumstances as have been last meutioned, the liability to the development of urine fever is greatly diminished when it is sterilised by local or general means. damaged tissue in the That the resh urine, blood, and the debris of at a tenperature of somerwhere about $100^{\circ} \mathrm{F}$., could hardly be possible without chemical chauges taking placa in the constituents referred to.
6 That there is a common origin for urine fever is rendered probable by the uniformity of tho sympitoms attending it, which, though difering in degree, are identiosl, whether following a surgical opera tion or an accilental round.
As some may not be prepared to accept fren me, though fortified With the reasons I have urged, that urine or utethral fever is the projour time for a foison introduced into the system, let mo occupy
${ }^{1}$ Professor Armand Gautier's Instroduction ta, the, Aninual Allaloids, by Dr. A: M. Brown.
is Medicine of the Furure: Address written for the Annua Meeting of the British Medical Association, 1 SS6.
ove of the mont original thinkers the medical world over produced, I rolir to the late Dr. Austin Flint, of New lork.
"Analytical chomistry," he observes, "carries investigation berood the limits of mieroscopical ebservation. The latter, at the present moment, hoth in pathelogy and physiology, seems to promiso inast ; but is it aot a rational anticipation to look for future results fr m rhemical abslysis of the components of the body, in bealth and - tisease, whleh in brilliancy and practical utility may surpass those of the labours in this fiold of investigation duting the past half centrry ? Tho medical semi-centenarian can recall the enthusiasm sroused by the labonrs of Liebig. Histology is now in the uqcendsat, but is it sute to predict that befere the lapse of anether half century there will ha another ors in organic chemistry, snd that light will penetrate dark secesses which histology candet reach ?.....The supreme objects of study in patholegy at the present time are the discevery of nicro. organisms and their natural history. But these agents it is probable are pathegonetic, not directly, but indirectly, by mesos of the texical rroducts of their activity. What are these products, and how do they give rise to the phenomena of disease? We may ask the same Huestion of certain of the poisens introduced frem without the body. IIow is it that fractionsl quantities of morphine, hyoscyamin, strychnide, aconitive, atropine, sad other alksloids, produce their lethal effecta ? It cenveys no adequate information to say that they act upen the nerrous syntem. This is merely the statement of a fact, not an explanation. For the latter wo must look to the organic chemistry of the future."
But ofjection masy be raised against the riews I am adrocatiog relative to the way in which urize or urethral fever is developed, by the fact that it sometimes arises under circumstances where it may be difficult to prove that any actusl breach of surface in the mrinary tract has been inflicted. For instance, as I hare already said in illustration, some degree of urine fever frequently follows the passing of instraments along ithe urethrs, ns in the treatment of urcthral stricturc. It Fould not be difficult to illustrate every degree of this complication, from the most transient rigor with slight febrile excitemone, to the severest form of septic intoxication, rapidly terminating in leath. And this leads me to speak of the influence of the epithelial lining of the urethra making the canal water-tight, or, more correctly speaking, urine-tight. And out of this will necessarily arise some remarks on the pathology of urethral stricture and abscess with ortravastion of urine. Let me take an illustration of what 1 mean by the protecting power of the epithelial lining. A patient with a stricture, I will say, has a catheter or bougie passed, this may be lollowed in the course of a short time with s rigor and some fover, and no further inconvenience is experienced. What has actually taken place is that the epilbelial lining has been scraped off at one or more pints, and thiq has permitted urine leakage and absorption to take place at the poides ipjured. If further proof of this be required, take instances where prolonged attempts to pass catheters in cases of urothral stricture have heen made, and proved futile. Then, in consequence of tho degree of retention, and as an alternative, an aspirator needlo is introduced abore the pobes, and the nrine is drawn off in this way without comiog in contach, or remaining so, with any portion of the urethra which may have been wounded by the attempts made to give relief by catheterism. I hava never known rigors or fever follow the relief of retention by anprapubic aspiration, though the amount to which the prethrs has been lacerated by attempts at catheterism has been considerable as well aq sanguinary. There can ho no other explanation for the absence of characteristic rigors and fover ander these circumstances than the fact that urine has not been allowed to come and romain in contact with a freshly-made wound. And io connection with this point I cannot help remarking that in the protecting power which the epithelial lining of the urinary apparatus exercises we probably have sn explanation of certain phenomcna which have been observed but not accounted for. Some have con. cinded that the bladder is capable of alsorbing somo of its contents, Whilat others, on the contrary, not only lase clenied the possibility of ouch nu inforence being drawn, but havo pointed out how serious might be the consefuences if thero was any liability to such a contingency. It acemsthat both of these conclnsions may be true, and tho explanation 1 would offer is that, by Injury to, or disease of its opithelial coat, the bladder may be rendlered capahie of absorbing what it contains, to the detriment of the individual, as we see in those cases now often reforred to by the name of cathoter fever. In rccog. nising the power of the epithelinm to prevent or permit absorption, I am in agreensent with other observers, smongst whom I may mention De. Londoo, of Carlsbad, who has made some investigatione upon this point. ${ }^{3}$ Farther, it is important to notice that when a urine
fistula is transformed into a permanent arine channel, as after Cocke operation, we find the passage becomes lined like the urethra with epithelium, and thus it acquires the pewor of transmitting arine without leakage. Wo could not bavo more pesitive evidence than this in suppert of the view that the epithelial ceat is a necessary part of any canal which has to perform the fanction of transmitting urino.

Applying, however, these remarks to the pathology of arethral stricture, let us see hom this is brought about, sad bow the protecting inflocnce of the arethral epithelium may thos bo demonstrated.

A stricture of the urethra is generslly considered to be due to more or less prolenged isflammation of the lining membrane of the catal, which ultimately leads to the deposition of orgsaised lymph in the peri-orethral tissues. This ultimately is converted into a dense connective tissue, which subsequently shows a remarkable tendency to become contractile. Thus the escape of urine from the bladder is interfered with by the degree to which these contractile masses prevent the expansion of the canal to snything like its normsl extent. Now all this may be very true on the whole, but it does not enter into de. tsils with which wo should be acquainted for the prevention and treatment of the diserder.
It will bo cenvenicat to take an illustration for the purpose of tracing more graduslly the process of stricture-msking, as a consequence of a specific uretbritis or gonorrbees, which is generally admitted to be the common cause of the former affection. The acute form of the disorder, anless care be taken, is very apt to become merged into the condition commonly known as chronic granular urethritis. By the latter term we are to understand that at one or more spots within the urethra the epithalinm has become 80 damaged, as a consequence of the prolonged inflammation, that it ceases to rendor the canal urine-tight, and a slow process of escape of some of the conetituents of tha urine into the tissoes comprising the urethra and surrounding it, takes place. As a consequence of this, and to prevent urine further soaking into the tissues, inflammatory exudation is excited, and barriers of lymph, which ultimately become organised, are thrown out opposite the places where the leakages take place. Thus splints of plastic tissue are formed, corresponding with the spot or apots whera the epitheliom has been so damsged by persisting inflammation as to cease to discharge its normal function. In this strongth. oning of the urethra we recognise, in the first instance, a conservative action; eventually, however, as in other compensating processes, certain inconvenionces follow which constitute, as it were, sn independent disease. In addition to the careful observations which have been made relative to the pathology of gleet, and the changes that are induced by chronic inflammation in the epithelial lining of the arethra by Dr. Oberlsender ${ }^{4}$ of Dresden, there are other considerations which ssem to indicate that an excessive form of plastic exudation in the tissues around the urethrs is probably cxcited by the interstitial leakage or cxosmosis of zome of the constituents of the arine through the walls of the canal.
Amongst thase I wonld mention sre: (1) That though the mucous mombrane is the tissue chiefly involved in the primary inflammation, it is, as a rule, only secondarily implicated in the stricture-forming process. In many instances it will be found after death that tho dimensions of the mucoas membrane are not permanently altered, and that it is possible to split a stricture without necessarily dsmaging the lining membrane of the canal. (2) That the plastic exudation which makes up a stricture differs from other exudstions provoked in other parts of the body by inflammation in the degree of its density and tendency to contract. There is no tissue I am acquainted with in the human body, except, perhaps, that found after acalds and burns, where the original tissues are entirely destroyed, which is so tenscious and resisting as that constituting the asual form of prethral stricture, nor do I know of any other canal or duct which, either as a consequence of injory or disesse, is liable to be inrolred in such changes as a strictured urethra represents. (3) The character of the cicatrix which is formed iu connection with ruptures and lacerstious of the arothra unmistakably shows the effect prodnced in the hesling process of a recent wound, which is constantly submitted to the action of more or less pent-up urine. Hore we hsve a cicstrix formed which of all strictures is the most resisting ard contractile. At the present time, when we are so much occuried in devising means for the radical cure of hernia, one cannot halp sometimes thinking and wishing that it were possible to transplant the process of tissue thickening and contraction, as observed in connection with the formation of traumstic urethral strictures, to the parts constitutiog the weak points we are desirous of consolidating in the abdominal pariotes. Here it wonld be servico. able instead of being detrimental.

Further, the form in which stricture tissue is deposited, and ultimatels - V'ierteljahr. fur Dermatologie und Syphilis. Wien, 1887,
erercises contractile pressure on the urethral passage, is strongly anggestive that in the firstinstence it served the purpose of strengthening the wsll of the canal, and thus preventing further leakage of some of the constituents of the urine taking place at points where the epithelial cost had been more or less permanently damaged. Most strictures are the result of organised lymph which has been deposited in the submncous tissue in an irregular form. An annular stricture is comparatively rare, except when dne to traumatic causes, such, for instance, as an injury to the whole calibre of the urethra.

It may, however, be orged that the view I am adrocsting is open to objection on the groonds that urine leakage is inrariably followed by acute forms of inflammation, such ss we see when extravasation has taken place. In reply to this, I would say that 80 far as I have been sble to observe the process of urine transition through the mucous membrane of the urethrs, which has been deprived of the protecting inflence of its epithelial lining, is extremely gradial, so far as the process is concerned, and does not necessarily imply that all the constituents of the urine are distributed amongst parts which are not adapted to receive them. Where a pathological process is slow, time is permitted for thst adaptation which the human tissues are proved to be so capable of. But the exudation which a damaged epithelium may permit of does not necessarily imply that all the constituents of the urine are thus brought into contact with the tissues under circum stances where the most setive and destructive forms of inflaminatory mischief must inevitably be aroused. Some years ago, I recorded the following case, which at the time seemed to me of much importance in reference to the suoject now under consideration. It was as follows: The case was one of stricture, with extravasation of urine, occurring in a person suffering from Bright's disease of the kidneys. Though the extravasstion had come on suddenly, and had existed for twenty-four hours nurelieved, there wete no signs of acute inflamma. tory action and commencing gangrene, such as are usually expected. However, the tension being considerable, I incised the parts involved in the extravasstion. As the fluid escaped from the incisions, I noticed that it had not that strong ammoniacal odour which is so perceptible in such cases. Subsequently I treated the stricture, which was exceedingly tight, and kept in abeyance the more threatening urinsry symptoms. I was somewhat puzzled for an explanation, as I felt sure that the case was one of extravasstion, and not acnte scrotal cedema. How was it, then, that extravasation and confined prine failed to excite gangrene? I collected some of the orine as it trickled through the wounds, and compared it with some subsequently drawn off by the catheter. I found them identical, and in both there was an slmost complete absence of urea. This, then, to my mind solved the mystery, and explsined that as there was no urea to decompose, there was no source for the production of the ammonia by which the destruction of tissues in connection with extravasated arine is mainly effected. By the absence of urea the urine was resdered chemically harmess to the tissues with which it came in contact. In the same way, and by a process of leakage, I apprebend may be explained some of those raie cases which have been described as scrotal or perineal urinary cysts, where a urinous fluid, with little or no direct conuection with the urethra is retained within a fairly well-developed envelope.

In illostration of the formation of stricture by urine leakage, due to epithelisl desquamation or abrssion, I would point especially to those cases of multiple stricture caused by spots of iaduration in various parts of the cansl. In a patient who was recently ander my care, almost the whole length of the urethra was strictured by a series of nodular deposits, chiefly in relation with the floor of the canal. These conld only be explained on the supposition that the urethra had almost entirely lost its normal power of conducting urine in the course of a long gleet, and that these numerous centres of induration and contraction marked the spots where leakage of some of the constituents of the urine had been permitted to take place. It will mot be necessary for me to extend thess views lor the parpose of explaining certain facts observed in connection-with peri-urethral abscess and extravasation of nrine, which in practice we are sll familiar with. What applies to the plastic form of exudation spplies equally to the suppurative. In this way, however, is explaived the fact that in these cases, when suppuration occurs, aud the matter is evacnated by incision from the perinonm, the urethra is found passing through the abscoss cavity, completely isolated, and without showing any direct connection with the suppurating focus. lt is under these circumstances that tho nnsupported canal occasionally gives way uuder the expulsive powers of micturition, and the arine is tirst forced into the abscess cavity prepared to receive it, aod subsequently amongst those tissues, where it may be the more easily extravasated.

There are onc or two practical points relative to the treatment of
stricture and injories of the urethra arising ont of what I hare thus ventured to bring under your notice, to which I should like to refer before conclnding. In the first place, the knowledge that certain relstions between a wound and the urine may cause and keep ap urine fever will prove of service to os in practice, ss I will illustrate in the following way. Not long ago I treated a case of urethral stricture by Holt's method of rapid divalsion. Contrary to my ususl experience of the operation, the patient had a serere rigor three hours afterwards, and a tempersture of $105^{\circ} \mathrm{F}$. On the following day this was repeated with, in addition, almost complete suppression of urine. As it appeared to me that the patient would die if he absorbed any more toxic material from the mound, I had him placed in the lithotomy position, and passing a grooved staff, I performed a free median cystotomy, and put a drainage tube into the bladder. I should add that there was nothing to indicate that snppuration had occurred; the time was too short for its development, the symptoms being clearly due to urine poisoning. After this was done there was neither rigor nor fever, and urine was again rapidly excreted. By thas suddenly sltering the relations of the wonnd with the urine, the whole complexion of the case was immediately changed for the better, ard the patient made a good recovery.

In the next place, a due recogrition of the function of the epithelis lining of the urethra shows that there is a right and a wrong way in m. king use of dilatation in the treatment of strictures. I am sure that more good follows the daily introduction of a bongie which pssses quite easily, than where a larger size is less frequently used, bot where, in fact, the principle of the mechsnical wedge is aimed at by the process. In this way rigors and other inconveniences associated with the trestment of stricture by bongies is avoided. I have made a large number of observations bearing upon this subject.

Thirdly, when a stricture has become or is 80 contractile and dense as to render dilatation out of the question, if not impossible, then, I believe, the open method of trestment is the safest and affords the best permanent results. In fact, excepting the earlier forms of stricture, which are satisfactorily trested by dilatation, the open method has furnished the largest proportion of permanent cures that have come under my observation in the collectiog and noting of many hondred cases of stricture taken indiscriminately. And in reference to this point, I must take exception to a statement which is frequently made, to the purport, "once stricture, always stricture." I could furnish many examples following the open treatment which are quite at variance with such a conclusion. In order that I may not be misunderstood in using the word "cure," I mean that a contractile stricture necessitating the constant use of the hougie has been so influenced by what has been done as to render any further ase of this instrument nnnecessary, and that, after a lapse of time of some years duration, the nrethra can be proved both to be structurally and functionally normal. The majority of these cases have occurred where the perineum has baen opened for stricture complicated with abscess and extravasation of urine. Here it by no means unfrequently happens, if the artificial drainage made by the surgeon is free and direct, that a healthy scar, such as we seo atter lithotomy, takes the place of the dense contractile stricture which has slonghed by the scnteness of the inflammation that has been aroused. I should meet with no difficulty in fally illustrating this point. By the open treatment of stricture, of course I mean the perineal section of Sjme, or a modification of it, to meet some special circumstances, such as the doable operation of external and internsl arethrotomy combined, as I have already described. It must, however, be borne in mind that a perineal section is seldom resorted to natil the nrethrs is largely impregnsted, so to speak, with old cicatricial tissue of a contractile nature. Hence, slthough you may put into the nrethra by your operation a longitudinsl splice of good sound tissue, such as fills up the wound made in lithotomy, and so bring np the canal to its normal dimensions, you do not succeed in removing the tissne, which you have merely divided; this still remains behind, to contract and to mar to some exteat results which, under other conditions, would be obtained. Still, in spite of the impossibility of remoriag the cicatricial tissue by a mere sectivu of it, the results of perineal section, so far as I have observed them in cases where dilatation was iusufficient, have proved both safe and satisfactory. The conditions, however, which the operatiou must necessaily fulal ars complete division of the stricturo and thorongh urive drainage. The differeuce between the wound of a lateral lithotomy and a perineal section is only this, that in one case yon operste upon sound textures, whilst in the other they have been rendered permanently and almost hopelessly contractilc. Still, on the other hand, when the conditions I bare mentioned are fultilled, the cicatricial splice of sound tisste which perines! sec-
tion introduces into a bad stricture often proves of the greatest and most permanent advantage in cases suitod for this proceeding.

Fourthly, that in wounds of the urcthra-mado either accidentally or in the coarse of surgical operations, which, by tho astare of circumstances, haro to bo treated without due regard for arine drainage -means shonld be more systematically taken to provent the levelopment of uine fever, as woll as the formation of a dense contractile cicatrix. I found, after repeated trials, in tho case of internal arethrotomies, that mach might bo done by lrrigation, locally and througlt the agency of drugs, which were largely eliminated by tho urine in promoting theso objects.
Lastly, we mnst remember that the prevention of stricturo is within our scope. If, as I have urged, the dense cicatricisl material which constitutes a stricture is the result of urine leakage occurring in the process of a chronic inllammatery affection in the interior of the canal in one instance, whilst in snother it is breaght about by the constant contact of the excretion with an internal wound, as in accidental rupture of the uretbm, then the importance in one case of irrigation as a part of the treatment, sud free urine drainage in the other, is at once evident.

It is, however, in connection with ruptures of the urethra, such as are cansed by blows and falls on the perineum, where the canal is more or less lacersted, that we see exemplified the most disastrous effects of permitting a wonnd to beal subject to the irritation that constant contact with pent-ap arine is capsble of exercising. Fortunately, as a rule in these rases, retention of urino for a time averts -the liability to acute sentic intoxication, such as I have already illustrated in an esrlier part of this lecture. Though the future of these cases relative to tho kind and degree of stricture that follows is in some measuro determined by the character of the injury inflicted upon the orethra-whether, for instance, the canal is entirely torn across, or partially, either obliquely, longitudinally, or transversely-I have not the lesst donbt, from a careful observation of a considerable number of these cases, that those do best which are treated by perineal section and drainage without reference to the question of extravasation. When a catheter can be psssed under these circumstances, and there is uo eridence of urinary extravasation, it is often, I admit, very tempting to be content with this procedure, and to wait until there are further indications ss to the necessity for incision. Such a conrse is almost invariably followed by the formation of a stricturo of the most dense and contractile nature. Where incision is prectised, as in those instances where there is evidence of extravasation and the laceration proves to be oniy of a partial nsture, the wound heals with a scar which shows but little tendency to subsequent contraction. In these cases we have remarkable illustrations of the damsge that the presence of arine ander certain circumstances is capable of exerting whilst the process of repair in a wound is going on. And what applies to the hesling of wounds inflicted accidentally apon the nrethra internally applies equally to others aimilarly inflicted on the canal for surgical purposes. I have elsewhere stated that for many years past I have taken seme psins in collecting and noting cases of urothral strictures, with the view of estimating the permanency or otherwise of the trestrient to which the patient may have been previonsly sobmitted by various aurgeons. The testimony that I havo thas gathered from the examination of many bundred cases is certainly not farourable either to the perms. nency or tho cbaracter of the relief that internal urethrotomy usually affords. Amongst the worst cases of atricture that I have thas met with have been theso which have been treated by mn internal section. If there is any force in the observations I hare broaght before the Society this evening, I do not think thero should be any difficulty in explaining how this bappens, and of recognising the importance of applying to the treatment of wounds of all kinds involving the urethra those principles which are tho basis of Listerism, namely, drainage and cleanliness. There is no part of the human body to which disregard of these conditions is more likely to be attended with disastrous consequences, whether wo have regard to the present or to the future. In conclusion, eentlemen. Most speakers commenco their discourse with a text, I prefer conclading with one. Urine c3n spoil tissue as well as blood.

Seamen's Hospital Socifty.-Lord Charles Beregord has consented to take the chsir at the annnal court of gevernors of this corporation on a day to be fixell in February next. Oring to the increasing area over which tho shipping of the port of Lonilon now extends, this charity has established dispensaries for seamen at the Docks and at Gravesend. The maintenance of the 253 beds at Greenwich, as well as the dispersaries, necessitate an expenditare of $£ 12,000$ per sonam.

## HARVEIAN LECTURES

## ON LUPUS.

Deliverad before the Harveian Society, Decemier, 1887.
By JONATHAN HUTCHINSON, F.R.C.S., F.R.S., LL.D., Emeritas Pofessor of Surgery at the London Hospital.

Lecture I.-Common Lutes-the Head of a Family, and sot a Solitart Disease.
Characteristics of the Lupus Process. - Its Poucr of Infcction by Conslimuity, by Contiguity, and through Vascular Channeis to distant parts. - Importance of the Subjeet in reference to Gencral Pathology. -Stedlites anel their Mecening.-Different forms of Lupus on different parts of the Body.-Differences in relation to Age and State of Ifealth.-Relations of Lupus to Tuberculosis, to Scrofula, to Chilblains, and to Cancer. - Justification of the term Serofula as distinct from Thberculosis. - Morbid Anatomy of Liepus.-The Bacillus.Description of the different Varisties of Common Intpus, and Definitions of the Terins proposed to be Used.
Everyone knows lupus. In student-life, we all early learnt to recognise lupus; for its frequency, its conspicuousness, and its very definite features, rendered its diagnosis both easy and attractive. Nor, for many of us, have the questions as to its nature and aflnities failed in interestes wo have advanced in life. Lupus 上as been well and ably studied by many competent observers, and no atlas of portraits has been published which has failed to portray it in at least two or three of its principsl forms. Our clinical knowledge respecting it is now well adranced, and I parpose in the present lecture to endeavour to place before jon a summary of it, not withont the hope of bsing ablo to gain therefrom some little further insight as regards the disease itself, and the valuable illustrations which it affords of the general laws of pathogenesis.
We shall find, I believo, as we proceed with the examination of the facts as to common lupus, that not only does it presont some impertant varieties, but thst there are a number of other maladies, some of them alresdy named and others as yet undescribed, which stand in close relationship rith it, and partake, indeed, of its nature. Before proceeding in this direction, it is needful, however, that we should -recapitulate the chief clinical facts as to the tyye form of the malady. This type form we find in "common lupus."

All observeraareagreed thst lupus is a disease which usaslly begins in early life, and which, although it may affect mucous membranes, Blmost always has its first development in the skin. It prefera exposed parts, and attacks tho face ont of all proportion to other regions. It is insidions in commencement sud very slow in progress. Its characteristic fescure is the formation in the corium of a peculiar effusion, or cell growth, which is visible to the naked eye throngh the transparent cuticle. This growth is of a brownish-yellow tint, and semi-translucent, being aptly compared to apple-jelly. It is present in greater or less abundance in all cases of common lupus, but may ossily be obsenred by the preducts of inflammstion. The recognition of this applejelly growth, in however small a quantity, denotes tho disease conclnaively as lupns, for nothing exactly like it is ever seen in any other disease. It often happens thist we succeed in finding it at only one part of a large lupus patch, or in only one patch, where there are several which do not show it ; but I may repeat that, whenever it is thus sparingly present, it is yot sufficient to jnstify the disgnosis as regards tho whole of the diseased processes which it attends. Whether this growth is present in the very earliest stage of the disesse, or whether that bo not rather simply one of inflammation, is not yet known, but it is certainly the coudition which first jastifies the application of the name "lupas," and it is often recognised while the disease is as yet on an exceedingly small scale. Many facts as to the calles of lupus-such, for instance, as its freqnently beginning after slight injuriea to the part-would suggest the belief that a stage of congestion and coll effusion, undistinguished from common intammation, usually precedes for a short period the characteristic growth. There sre, further, no facts whatever which would support a belief that lupus ever takes its origin from contagion. Whother or not it begins by inflammation, there is ro doubt that it is very apt in all its stages to be complicated by it. Although s few eases are seen in which the growth, throngh a long conrse ol years, pursues its quiet course of gradual extension, without
culceration, and almost without inflammatory redness or swelling, they are exceptional, and in a larga majority, at oue or other period, the -tissues break lown and ulcora form, attonded usually by the formation of 'papillary granulation masses, covered by crists of pus and apidermic scales. Most of the distinctive terms amployed in referance to lupus by the older surgeons have reference simply to the prezence or absence of inflammation. We may disuse with advantage the old terms exededens and non-exedons, exulcerans, hypertrophiens, serpiginosus, exfoliativns, and the Tike, and speak simply of intlamed lupue and non-inflamed lupue, for all the epithots alloded to generally rofer to peculiarities produced by more or less active inflammation. ©The same case may vary in respect to them in different parts at the aame timeè, and :at different times in the aame part. They have, too, been used, by diffieront authorities with very varying meanings. ${ }^{1}$ I much fear' that, before I have done, yon will accuse me of introdacing new names whilst I disuse the old ; but I hope to be able to convince you that those which I ehall propose are based npon real and permanent clinical distinetions. If a man has a large family, he minst, for convenience sake, give to each child a distinctive. name. It is so. writh lapus. - The disoases to be grouped under that name are related -closely related, but they are yet different-and it is necessary thast we shonld distinguish them.
It will be convenient that I should here introduce to your notice a schedule of the various forms of lapus which we meet with in practice, I shall not now discuss its details, but it may. be well to state that where I have joined two substantives together as a name for a sub-species of the malady, it is with the intention of asserting that the diesase so' namod partakes of the characters cof both. Thus acnielupus is not a lupus resembling acne, nor an acne looking like lupus, but is acne and lupus in combination. It occurs at the age at which acne is common, and in the subjects of common acne, differing from it only in that some of the pustules bocome the site of lupnsprpocesses. So with eczems.lupus : the dieease begins as eczema, and throughout looke like it, but it has the se peculiarities, that it is well nigh incurable, slowly advances at its'edges, and heals in the centre, leaving a sear. It is an oczema which produces the results of lopus, and therefore clearly partakes of its nature. I cannot but think that this plan of ioining substantives, each ous having alraady a well known meaning, conveys what it is intended to imply with far less trouble to others than ean possibly be attained by coining uncouth adjectives, which are at the best morg or less inappropriate.

## The Lupus Family.

General Defintition.-Serpiginons, infective, scar-leaving inflammations of skin and mucons membrave.


Bycosic and the Rhino-scleroma of Hebra are probably dilicd diseases.

[^1] Kaposii's disease is probably a " fanility form" of lap"s ergthematosus
In dividing lupus into two great groups, as vulgaris and erythema. tosus; I yet wish it to be clearly understood that they are closely allicd. There are numerous connecting links, and cases often occur which it is impossible to assign exclusively to cither.
Amongst the qualifyiog adjectives which have been used for lupas, we can well spare that of "'sorpiginosus" It is of the rery essence of all
lupus'to be serpiginous, and if any form of new erom th orinfal lupus'to bé serpiginous, and if any form of new growth or inflammatory action were shown to be not so, it mould certainly de facto lose all clages of its derelopment family. In all its varieties, and in all its edges. It is recessary to consider this tendency to creep on into all adjacent parts in a little detail, for it is a most important on into It proves that lupus action is attended by the production, in the part affected, of elements which are infective to those with which they are in contact. In this power of infection by continuity of tissue, we have one of its most characteristic festures, and we have also an important guide to its treatment. Not only, however, do we wituess the gradual extension of lupus patcbos by growth into icontinnous parts, bat wo observe almost invariably another phenomenon of a slightly different order. This is the production of nther foci of diseased action not con tinuous with the original patch. To these when they are, as is nsual, very near to the first, we may suitably give the name satellites, and may imply by it that we bolieve that they originste, as the monn from the aarth, from materies directly detached frum tholarger mass near to which they are seen. Wo have in them an example of infection by contiguity, and the infective material has no doubt spread either in the perivascular spaces, or along the lymphatic chanrels. The phenomenon is exactly parallol to what we witness in the case of cancer of the skin, in which the production of satellite nodules of smaller sizo near to the parent one is very common. Their nearness proves their relationship. It is not a matter of chance where they are formed, nor are they arranged with anything like symmetry in the two halves of the body. No, they come as a rule near to the patch of which ther are the product. In many instances the satellites and their parent, by gradual extension at their borders, tend to coalescc. The term disseminate lupus has been employed for cases in which the crop of satellites is very abundant, but as they are presaut to some axtent in almost all cases, it is scarcely pacessary. Although, as first asserted. it is the rinle for secondary lupus growths to occur near to the horder of the original patch, jet this position is not invariable, and we sometimes observa them at considerable distances from it. Thus a patient may have primary lupus on the nose, and may havo secondary patches on the arm or leg. Most we, whon that occurs, seek some other explanation of their production, and assume that they are dcreloped independently of the original patch? Sach a step is not necessary, for we encounter precisely the same occurrance in the case of cancer. No ono doubts that when a growth develops itself in the fomur after scirrhus of the bresst, that such growth is dne to tho transference of germinative material from the mammary gland to the bonc. Nor is there any reason to doabt that such distant transference is possible also in the case of lupns. Both in cancer and lupus proximity of infection is the rule, but distant infection is possible, and not very rare, and the mark to bs explaiued in the same way. Let me here in passing remark that neither in common lupus nor in cancer does the distant pattern in the tro halves of to arrauge its products in a symmetrical pissues show little or no pref the body. In other mords, the distint germ elements which are afloat It is almost a matter of chanee germ elements which are afloat. It is almost s matter of chance

Whore those may develop. I slall have to ask attention in another lecture to the fact that this rule is to somo extent reversed in the case of lupus ery thomatosus.

Permit the to pause here to remark that, although I bavo been obliged to mention cancer as the most iustructive parallel to lupus in respect to infection by continnity, the production of satellites, and of seattored socoudary growths at a great distance, yet these features are by do means the exclusive property of new grewths. They do not prove, although to eome extent they may seem to imply, an asseciation between lupus and malignant neoplasms. Infection of the individual, in all of the thrce methods inentioned, is probably a possibility nall types of inflemmstery action, though it is scon with much greater energy in some than in others. Near to a boil other boils occur ; one patch of eczema, if neglected, tends to produce others; indeod, the fsets as to multiplicity of lesions following local ones which are constantly uader our obsorvation in so many diseases are probsbly all of theru to be cxplained iu the same way. Those which wo witness in the rare cases in which cicstricisl koloid becemes multiple are of eapecial interest, becsuse amonnting almost to a demonatration of the law. Wo mitness in them excellent illustrations of blood infection by a morbid growth not usually supposed to be malignant, and at the samo time tho preferential selection by certain predisposed sitos. If a paticnt who has old and perfectly bealthy scars becomes the subjoct of 3 now wound the scars of which take on keloid growth, his old scars may become infected and grom on a like pattern. This I have myself ob. sorved more than once, and an instanco of it is recorded by Mr. Clatton. It is not easy to suggest any other explanation of the phonomenon than that the keloid growth sheds into the blood certain elements which fiud their proper nidus for development only in scartissue. I suspect that this is the only way by which keloid becomes maltipie ; but, in citing it as I have now done as evidence in support of my theory, I am bound to admit that it is not the ordinary rule for old scars to become thus infected. Even when it does happen we usually ohserve many of the old scars to escape. The case which I first lublishod as illnstrating tho fact was, however, a very definite oue. 1 man who had been frequently cupped, and whose cupping scars wore perfectly soft and healthy, was long afterwards very soverely scalded orer his shoulder, and the scald becamo the site of an enormons keloid growth. At this stage many of bis cupping scars dereloped little buttone of keloid.

We have, then, described common lapus as a slow process of cell growth in the true skin with infection by continuity, by contignity, and in somo instances to distant parts through the vascular chanmels. We have asid that it is to be recognised by these qualities as rogards its mode of advance, and above all by the visible prosence of a new material, like apple-jelly, which is casily appreciated by the unassisted oyo, and which is absolutely pathngnomonic. I wish to make the distiuct clains fer all affections of the skin, which show these festures that they belong to the lupus family, and in so doing, I by no means insist upon the last named. There are a great many cases of common lupus in which the apple-jelly cannot be seen and many more cognate aflections in which it is never visibly present. In order, however, that we may incrense the means at our disposal for deciding as to what ahould and what should not be admitted to be either true lupas or nearly cognate with it, it may be well to mention a few othcr common features of lupus disease. None of thom approach in importance those already stated, but some are still of considerable value.

The lupus process, althought very slow, yet always tends to como to an enl sifer a time, and it always, when it doos thas end, leavos tho structures disorganised and in a stato of scar. The kind of scar is often poculiar. It is thick and firm and is soamod with white, so as to havo suggeste.l a comparison to rall. Theso peculiarities aro probathly due to the fact that the scarring has taken place without com. plete removal of the lupoid coll-material. By degrees this romozal will become complete, and then the scar will become supple and thin. In many instances it is supple and thin from the firat. It is by no meaus necessary to the productiou of scar after lupus that thero shall lare been ulceration. The scar may he wholly subenticular, and is so ia many iust meces, the disease having disorganised the corium, but loft the cuticlo almost uninjored. A teudency to the production of acars is iurariable ia lupus, but thero are many slight eases in which the recoguition of scar is difficult. An absence of tendency to iufect lynupatic glands must be noted io sll forms of lupus, and with it an abseace of tendeury to travel deeply or to involvo parts other than the skin. It is essectially a discase of skin and mncons membrave, and does not, with tho rarest exceptious, attack orher tissues. When ulccration los nccurred there is usually a remarkable proclivity to tho formation of groulations which assume papillary forms aud over which scar-tissuo revdily derelops. The removal of lupus.crusts is almost almays at-
tended by bloeding, for these papillary outgrewths are united to the partly organisod crust, and aro very easily torn.
Lupus-disesse in all excepting its most quiet and absolutely noninflammatory ferme is very liablo to be attackod by orysipelss. Some patients have many (auch attacks, and although net infrequently they aro excited by the use of caustics, yet they are often spontaneons. As a rule, but by no means invariably, the orysipelas is mild. It may, I think, be added to the minor characteristics of lupus that its processes, although olowly retrograde in the etructures first attacked, alwaya epresd so much in the adjacent ones that nothing of the nature of a complete spontaneous cure ever results. This statement may possibly have a few exceptiens, bnt they are very few.

Having thus endeavonred to trace the chsracteristic festures of the lupus process in genersl, it may next be convenient to enumerate some of the modifications which it assumes in different regions of the body, and parts of the surface. As will be conjectured frem what I bave already advanced, these differences have chiefly reference to different degrees of inflammatery action. In some parts lapus almest invariably inflames and ulcerates. It is rare indeed to find a patch of non-ulcerated lupus on the nose ; and, should such be encountered, we may feel quite sure that the condition is only temporary. The ssme remark applies to the extromities. On the hands and feet lupus is always inflamed more or less, the degree varying with the sesson and weather. Often, indeed, it is difficult to diagnose lupna on the feet, so groat is the excess of inflammatory material by which it is concealed. I have not in many instances, indeed, recognised the apple.jelly stage, and when it is shown it is never present long, being soon superseded by a mass of fungating granulations. It is, in fact, a clinical fact that lupusulcers on the feat very often escape diagnosis, so wide is their difference in sppearance from the typical form of the disease. Often, however, the diagnosis is set at rest by the discovery, on otber parts of the body, of patches which show the characteristic conditions.

The part in which it is most common to see lupus without any inflammation and absolutely quiet is, I think, the cheek. Here we sometimes see what I have called single-patch-lupus, slowly progressive at its edge, but without satellites, and without any trace of crust or even of congestion. The subjects of such conditions are almost always near middle life and in tolarably good health. If the pationt be young, or the strength fecble, lupus is almost certain sooner or later to inflame and ulcerate.

There are certain regions of the body which are almost exempt from the attacks of lupus. It is in the main a disease of exposed parts, particularly of parts exposed to cold and wind. The face and the extremities araits most frequent sites. Excepting when it has passed by extension from the limbs or neck, it is very seldom seen on the trunk, and it gcarcely ever originates there. The more protected the part as regards warmeth, the less is it likely to be the seat of lupus. The genitsls in both sexes, the cleft of the nates, and the armpits are almost wholly exempt. This is by no means true of the syphilitic imitstions of lupas, which not infrequontly display themselvas in these regions.

When lopus attacks the lips, and extends to the prolabium, it is almost always attended by much swelling and nlcerative destruction of parts. The explanation of this is, no doubt, that the disease affects the skin surfuce on the one side, and the mucous on the other, and hence much loss of tissue. The same is observed when the alæ nasi are affected, destruction of the parts being then almost certain. It will casily be realised that the conditions are very different from those which ohtain on a flat surface, as the cheek.
Thus, I think; it may be with justice held that many and very impertant differences which are observed in the lupus process are due not to essential difference in the nature of the disease, hut simply to the peculiaritios of the part attacked. Anyone who will inspect a considerable aeries of cases side by sido, or examine a collection of portraits, will easily satisfy himself of this, and will observe thst the disease may in one and the same patient earn for itself different names, according to the part affected. It is almost alwaye "exedens" when it attacks the nose, often "hypertrophic" on the lower part of the face, and slwaya "serpiginous" on the neck.

I do not wish, however, for one moment to attompt to explain all the varying features of lupus by reference to tbe part affected. Many of them havercference rather to the peculiarities of theindividual, to his ago, and to the atate of bis gcaeral health. Without venturing in much detuil upon this topic, I may repeat'a statement already made, that the youngor the patient the greater is the probability that lapus will inflame and ulcerate, and the greater hy rery for the risk that its infective material will become diffused, and its manifestations multiple and distant. It is rare in those of middla age to see lupns show itself in more than one place, and the disease at this period of lifo is
almost always very slow in its advance. As old age approaches, we sometimes witness $a$ sort of return to the lisbilities of yonth, and lupus originating then may prove very troablesome. It is so, however, only in that it may rather rapidly spresd and resist treatment, not, I think, in the way of general infection.
Before quite leaving this part of my subject, I will venture to ask your sttention to some statistics as to the parts most naually affected. They confirm in a very definite manner the statements which 1 have made as to local exposure constituting an extremely important predisposing canse.
From the analysis of 56 cases in which I find the parts affected specified in my notes, it is shown to have occurred on the face in 41, and on the extremities in 15. In 5 of those in which the face suffered, there were one or more patches on the limbs also. In 15 the disease was on the nose only, and in 9 on the cheek only. My notes do not state with sufficient precision on what part the disease cornmenced, bnt only the parts affected when the patient came under my observation. We may probahly assume that in all cases in which the nose is mentioned it hegan there, for it is almost unknown for the nose to suffor secondarily, whereas it often causes the infection of other parts. In the tsble which I have displayed I have given more detailed statement.


As a good example of the influence of local conditions in modifying the disease, I may mention that lupus assumes somewhat peculiar features when it occurs on the buttock. Its canse in this position is frequently the irritation of riding. 1 well remember, when a atudent at St. Bartholomerw's, the case of a young man (I think a groom) who had a patch the size of the palm of a hand on one buttock. Mr. Stanley amused himaelf by making his friends write their diagnosis of this sore on a paper which hnng st the head of the man's bed, and I think there were at least half a dozen different opinions there recorded. For some it was simply a "saddle sore," others regardod it as syphilis, others as impetigo, and, lastly, some, who I have no donbt were quite correct, called it lupns. I have seen several such sores since then, and they are all of the same characters. Their peculiarities are-extremely slow advance at the margin, and a very thick, almost brawny, cicatrix in the centre. These peculiarities are no donbt due to peculiar conditions as regards presaure and friction to which these sores are exposed.
An exsmple of this form of lupus has been sdmirably studied by Dr . Ssngster, who has recorded his results in the twenty-ninth volume of the Pathological Transactions. His patient was an engine fitter, aged 24, but sa the disesse had begun when he was 10 years old, it had, in its origin at least, nothing to do with his occupstion. The pationt was in excellent health, hat a paternal aunt was said to have in progress conumtion. Althongh the disease had heen fourteen years across. It was hard and cicatricisl in the centre, like "bscon rind." but had a somewhat inflamed and crusted edge. Its complete e cision as 8 measure of treatment gave Dr. Sangater an opportunity for $a$ microscopic examination of it in its various parts, and of this he availed himself with zeal. The paper is illustrated by some excellent drawings. I will quote the summary of the microscopic appearances in Dr. Sangster's own words.
" 1. Changes (cell-germination proliferation) are observable in the epidermal structures before tho lupus cell-growth csn be made out in the corium.
" 2 . The lupus cell-growth in the corium appcars firstin clustersound the blood-vessels.
" 3 . When the clusters occur in the neighbourhood of epidermal cells they are accompanied by what appears to be an irritative germination of the lstter.
"4. Where tho cell infiltration is great it replaces all superficial structures below the rete Malpighii ; the hair follicles, swest glands, etc., disappearing as a reault of degenerstive change.
"5. The rete Malpighii covering extensive cell infiltration is in a stato of extreme activity, simulating appearances ssen in erithelioma.
"6. In the cicatricial stage there are aren only lupus " nests" ljirg in meshes of fibrous tisane, covered by an irregular Malpighian lajer, with flattened cells reprosenting a stratum cornenm.

Some differences are to be observed as regarda the parts afected at different ages. Thus 1 think that the macons surfaces are never attacked in very oarly life. ${ }^{2}$
A discussion as to the relations of differences in lupus to different states of health brings ns at once to the all-important question as to its relationships to tuherculosis. All who have observed the disease have becn struck by its frequent association with feeble health and with what, until lately, we have known as scrofula. On the other hand all hare acknowledged that there are startling exceptions, in which the disease shows itself in those who appear to enjor great vigour of constitution. The names given by authors, however, sufficiently attest the general assertion that almost all obserrers have regarded lupus as frequently of a scrofulous type. I am desirous for the moment to avoid reference to histological questions, and to discuss the sabject solely on its clinical evidence. It is certainly not common for lupus patients to have definite evidences of tuberculosis of
the viscera the viscra. I have in the course of many years' experience known two or three who were the subjects of lupus become affected by aggressive
phthisis, paid, but with more numerons exceptions, as to the occurence of gland
sate disease or other forms of struma. The lupus patient does not, as a rale, snffer from any other form of disesse. More than thirty years ago 1 collected and tabulated with considershle care a long series of cases of lupus, with the hope of showing by statistics its relation to struma as well in the pationt's family as himself. Nearly all my patients were
st that time at that time of the hospital class. My statistics did not prove much,
and I have not felt neconraged to sud have not felt encouraged to continue their collation during
later years. Nothing to any given disease occurring thon by statistics to show, in reference
thglish poor, either the frequent history of tuharculosis or the rererse. All depends apon the patience and perseverance of the investigator. Most $\mathrm{y}_{3}$ stients begin by denying that any relatives have died of consumption, and most will, if time be allowed, succeed in remembering that such has been the case. More definite facts may be obtained if we restrict ourselves to the causes of death in the patient's parents and amongst his brothers and sisters; but here atill are numberless fallacies, and, after all, wo know Well that snch tendencies often overpass a generation. Briefly, I may
say that my ste say that my atatistics did not prove the history of scrofuls nearly so
frequently sa the foe expect. Out of impressions formed by memory world hare led me evidences of scrofuls in the patient is only 28 per cent., and the history of such disease in any near relative in only 35 per cent. No fewer than 50 per cent. appeared, so far as I conld ascertain, to be themselves in good health, and to come of families against which nothing could be established. It is to be remembered also that the impressions formed by casual observations
2 The following statistics are compiled from a aeries of hospital cases, which I
2 The following statistics are compiled from a aeries of hospitare recent experitounlated more than thirty sears ago, and do not incluc 141 cases, 59 were males ence. They are sufficient for the present parpose. and 83 femsles. Of 67 cases in which the sge at 5 in 2 , at 6 in 2, at 7 in 2 , at 8 In one case at the age of 1 , at 2 in 3 , at 3 in at a in 3 , at 9 in 1, at 10 in 4. Thus in the first decace we 2a, 20, $1: 23,8 ; 24,2: 20,2$ : At 11,$2 ; 12,5 ; 13,3 ; 15,1 ; 16,3 ; 17,1 ; 15,1 ; 19,1 ; 2,1 ; 2,5,11 ; 56,1$; 30,$1 ; 32,1 ; 33,1 ; 35,1 ; 40,3 ; 42,1 ; 44,1 ; 4,1$, thus after the tirst hetween 10 and $20,1 \mathrm{~S}$; between
decade we have a total of 37 .
In reference to the proportion of lupis cases to may quote the following statententrom the wealthier classes-
cases of skin diseases occurring antong tulgaris)
Lupus erythematosus
 The misieadicg chanal lupus erythemstosus rather more frequent tban lupus that Sir Erasmus found lupus erythemstosus and the smbjoined statement will show how the facts on this point stand in lienos:
Kaposi, in 6 yeara' hospital expericuce-

> Lupus ery thematosus, $22\{1$ males
> Lupus fulgaris, $\because 9\left\{\begin{array}{l}132 \text { males, } \\ 147 \text { females. }\end{array}\right.$

The starting difference in the proportionate frequency of the two diseases in Wilson's experience aud in that of Kaposi is, I believe, to be cxplained by the Wiscumstances that one drew his canclasions from private practice and the other circumstagces that. I upus erythematosus being an almost incturable disease, it that of a hospi faly to be sent to private consultants, whilst cases of lumus follows that it is likeiy to vulgaris more usually remain uader bae care been very similar to that of bir perience during recent scars has, Erasmus, and nould show inpos erythematosus appareuty as common as luple valgaris.
are liable to somo error, inssmuch as lupus produces deformities of the visage, nml sears in the neck which are prectsoly of the kind to suggevt the offhand suspicion of scrofula. This may uasily happen in cases in which, exweptiog the lupar itself, thero may bo an entiro sbscace of all criductaco of such taint. ${ }^{3}$
In spite of my orm statistics, howover, I cannot avoid tho beliof that lapus is, in very many instancos, a scrofulous discase; but at the same timolam iacliacd to tha beliof that, in most instances, tho tendeacy to disuase of this typo haring begun in the skin; restricts itselt to it, and shows little or no tondency to attack internal organs. I well remembur a funily of thre sisters, whom I know intimately in yonth, and whose history many illustrate my meaning. Tho cldest of these had har nock dreadfully scarred by strumous abscesses in childhood, but sha subsequontly eujojed excellent healch through a long and vigorona life. Tho second, almays delicate, died of phthisis at shi; and the third, who had cever ailed anything olae, lost her nose from lupus at 3bout 45. There was a history of tuberculosis in the mather's family.
The zore ilefidite tho oxomption from tuberculous antecedents or soucomitants, the noro likely it is, I think, that any indiridual caso of lupus will prove non-inlliammatory; but there are exceptions on all hauds, and 1 daro not assert anything in this matter with confidence. If the nucuis membranes solfer, there is, I think, almost invariably ${ }^{3}$ thubercolous family hisfory. On the other hand, 1 mpst adnit that the evideucens to family history of phthisis is as atrong, or even stronger in tho case of lupas erythernatosus, as it is in zommon lupus:
There is another peculisrity of persoual health, which is of much importaucz, in predisposing to certain forms of lupus. I refer to the poclivity to chilllains. The tendency on the part of tho tisaues to 1afluue and become irritable, under the intermittent influence of cold and lazup, which constitates the chilblain. proclivity, is so marked in many cases of lupus, that this disease might alonost, be regarded as be iug a modified chilblain. This statoment concerns the erythenatous form more frequently than it does the common lupus, but it is not withont its importance as regards the latter.

In what I have heen saying I have been speaking of scrofuls and tuberculosis as if thoy wero interchangeablo terms, or, if urot so, as it scrofula atill enjoyod an oxistence, and had not been wholly metged by modern discoveries. It is desirable to explain a little on thispoint. Those who hold with the greatest firmness the modern doctrine that a bacilus is the one and tho ouly cause of truo tuberculosis yet adinit that peculiarities in the state of health of the racipient are of very great inportance in favouring the development of tha parasite. For them tuberculosis is a disease of infection from without, and cap naver be self-produced; but still ouly those of certaiu idiosyncrasy or diathosis are capable of readily receiving the contagion. We have then two things-contagion and proclivity. It follows, $I$, think, that it is quite possible that the state of aystem which constitutes proelivity may in itself and without tuberculous infection originate some iurms of disease. Nothing is more probable than that persons vulnershlo in tho direction of easily affording a nidus for the tubercle bacillus may also be liable to poculiar forms of common inflammation. That snch is the case I would snbmit we know well by experienco. In such jatients wonnds, brnises, and chilled parts rcpair badly and are very apt to inflame. If exposed to cold, chrouic catarrhs or states of local iuflammation sasy readily follow. Thos ophthalmie aurgoons recog. gise a scrofuloas ophthaliais which they do not regard as tuberculoua, I lut which occurs in patients who have tuberculous susceptibilities. I would venture to suggest that the terms struma and sorofuls are very suitahla for the designation of all auch speclalised types' of common inflamination as we cacounter in those tho would easily become Entcreulous if exposed to contagion, but who have not as yet had the

[^2]bacillus implanted. Whatever results from tho implantation of the bacillus wo may mamo tuberculosis, whatever, results from the con. stitutional state aloue wo may denominato acrofula.
It would be of grent valuo if we could obtain any trustrorthy ori-, dence as to the frequency of tho association of hiphs with cancarous teudencies. da yet, howover, nono such aro fortheoming. . Mlady observers have noticed that thero is in porsons of middll age, who have sullered from, lupus, a defuite tendeney for the scars to become attackod by cancor. I have myself witaessed this repeatedly. I have also, in several cases, aecn cancer aud lupus existing in ilifferoath regioas and iodependently in the aame patianto. The rumbor of such facts is, however, not as yot sufticient to justify us in feoling, confident that thoy are more than coincilences, howevar strong may, aevertheloss, be our suspicions. Tho observation of histologists (Sangster and others) that, in lupua; scars, thero is oftou a definite tendency to downgrowth of processes from the Malpighian layor, much after the pattern of epithelioma, is not without its intorest in this connoction.

## A METIIOD OF GRAPHICALLY RECORDING THE EXACT TIME-RELATIONS OF CÁRDIAC SOUNDS AND MURMURS. ${ }^{2}$

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Introductory Statement ay Dr. Byrom Bramwell.
In common with the great majority of physicians, I have been in the habit of thinking that the so-called pressstolic.mitral murmur is produced by e, blood current flowing from the auricle to the sentricle through the stenosed mitral orifice; and I have repeatedly-both by (1) simple palpation with the flat hand'; (2) combin'ed auscultation and palpation ; (3) combined binaural anscultation and inspection: of the apex. beat and moroments of the cup of the stathoscopë; and (4) combined binaural anscultation and inspection of the movement of the lever of a Galabin's cardiograph-investigated the relationship of the murmur to the cerdiac impulse, with the result that, io the great majority of cases of presystolic murmur, whioh I have cinceully and critically examined, I have satisfióa myself (or, at all everts, I have thought that I had satisfied myself) that the murmur does precede the first sond of tho hoart and the maximum impulse of the apex beat.
The publication of Dr. Dickinson's paper, in which he stated that, according to his observations, the murmur and, impulse of the apex beat are sjnchronous, and in which he gave theoretical reasong ${ }^{2}$ for believing that the murmur is ventricular systolic, snd not aurioular:syatolic, seemed to show the hopelessness of getting sill observers, to agree even as to frets-to say nothing of the theoretical conclusions to bo based oy them-by means of our present methods of in restiga: tion, and to call for some new method by which the matter cen be graphically demonstrated and finally and conclusiroly settled.
Some jears ago, when tho phonograph was first invented, the pose sibility of recordiag, on the game revolving drum, a tracing of the cardiac impulse (by meana of a cardiograph) and a tracing of the cardiac sounds and murnurs (by meas of a poodificd phonograph) had occurred to me.
The publication in the daily journals (just about the time when Dr. Dickinson's paper appeared) of tho extraordinary results which Mr. Edison has obtained by means of his new modification, of the phonograph, redirected my attention to the subject; sad, with the object of briaging the matter to a practical conclusion, I explained exactly What I thought was wanted to my friend Dr. Milue MIuriay., Dr. Murray did not think that the plonograph or microphone, so far as thoir meechaniam is at present knorra, could be nade to record a trac. ing in the manacr I desired; but he stated that he did not know the capabilitiea of Mr. Edisou's new instrument, and he advisel mo to write to Mr. Edison himself.

[^3]This I have accordingly done. I have pointed out to Mr, Edison the immense practical advantages which would result if cardiacsounds and murmurs (and, indeed, all other sterhoscopic phenoniena) could be permanently recorded and phonographically stored up; and hare begged him to direct his attention to the subject. I have told him that we physicians and clinical teachers desire two modifications of his instrument, namely:-

1. A phonograph (or phonographio stethoscope, as it might be termed) capable of receiving, recording, and reproducing cardiac sounds and murmurs. I trust that if Mr. Edison will direct his genius to the matter, he may be able to give us such an iustrument. If the receiving portion could be adjusted to a limited area of the chest, and if the discharging portion co uld be made to reproduce its sound into the cup of a binaural stethoscope, the instrument would be exactly what is required. Its introduction would mark a new era in clinical medicine and in clinical teaching. By means of such an instrument, phonograms of all important and interesting cases could be stored np in our case books, and murmurs and other sound phenomena could be kept for any length of time, and reproduced whenever they rere required. The teaching of auscultation would be materially simplified. And by means of a modification of the instrument it might perbaps be possible to magnify the sounds produced by such a phonograph, so as to make them audible to a large clinical class. In fact, 2. A possibilities of such an ideal instrument are immense.
2. A phonograph capable of receiving cardiac soands and murmnrs, and of discharging its vibrations, not in the form of sounds, but in the form of movements, capable of baing recorded on a revolving cylinder of smoked paper. Such an instrument would enable us ab$t$ a e marmur of mitral stenosis, and many other important questions connectel with the physiology and pathology of the heart; for, by re cording on the same drum a tracing of the apex impulse (by means of a cardiograph) and, immediately below it, a tracing of the sound phe-
nomena (by means of such a modification of the nomena (by means of such a modification of the phonograph), the the cardiac cycle, could be settled with certainty; in fact, with absolute mathematical precision.

Althongh much disappointed with Dr. Murray's opinion as to the possibility of graphically recording cardiac sounds and mormurs by means of the phonograph, I could not get rid of the idea; for some sach instrument seemed so exactly what is required for determining the exact rhythm of tho presystolic murmur on which my thoughts were at that time intent.

On further consideration the following modification of my origival plan suggested itself to me: (1) To record on a revolving drum the cardiographic trace by means of a Marey's cardiograph. (2) To listen (the eyes being closed), by means of a flexible binaural stethoscope, to the cardiac sound or murmur the time of which it was desired to mark and ascertain. 3. To strike with the forefinger of the right hand the button of a second Marey's tamhour (chest piece) at the moment when the mormar or sound was beard, and so to record it (by means of a below the tracing of the impulse of the heart. In this way the impulse of the forefinger-in other words, the exact time occurrence of the murmur, less the "psychical loss" occupied by the passage, so to speak, of the murmur from the ear to the tip of the forefinger of the auscaltator-could be exactly markad in relationship to the different parts of the beart's cycle, as traced on the drum by the cardiograph. If the levers of the two cardiographs (one worked by the apex beat, the other by the forefinger of the anscultator) were so adapted as to move in exactly the same vertical plane, the exact time relationship of the sound or murmur to the ventricular systole (or other phase of the car-
diographic trace) could be determined, provided that the " diographic trace) could be determined, provided that the "psychical
loss," previonsly alluded to, were accurately measured and deducted (4) In order that the "psychical loss" might be accurately measured and deducted, time markings would have to be made on the revolving drum immediately below the tracings produced by the cardiographic lerers; and (5) the exact time which elapses. betreen a sound being made and its being signalled and inscribed on the revolving cylinder by the auscultator, would have to be accurately measured.

Dr. Milne Murray at once saw the feasibility of this modification, and very kirdly promised not only to fit up the necessary apparatus, and to place the resources of bis laboratory at nuy disposal, but, what was even more important, to share in the research and to aid me with his knowledge and advice. It is nunecessary to say that I eagerly avsiled myself of Dr. Murray's offec. Mry crude idea has in this manner been transformed into an aitual working mechanisin; and then of this description, has few, if any, equals, the reliability of any
results whick are obtained is guaranteed, so far as it is possible to guarantes them.
Dr. Nurray suggested that instead of the auscultator signalling the time of the marmur by touching the button of a eecond Marey's ceardiograph, he ehould do so by means of a Morse's key and electric circuit. To estimate the psychion cose suggested a most ingenious contrivance, which is in every way suited for its purpose. A lever is made to nove and record ite morement on a revolving drum, and a sound is produced in a telephone at one and the same moment by "making" or "breaking" the same electric circuit; in other words, by touching a Morse's key a sound in the telephone can be produced at mill, and the exact time occurrence of that sonnd is at the same time automatically and, as it were, clectrically recorded on a revolving cylinder.

By means of this contrivance the estimation of the exact " psychical. loss" is a matter of the greatest simplicity. The individual whose. "psychical lose:" it is required to measure (the auscultator in the previous experiment), places the telephone to his left ear, and as dividual, who is taking the observation, signals to the revolving drum by means of a Morse's key and electric circuit ; in this way the auscultator inscribes, as it were, on the revolving cylinder of smoked paper the exact time when he hears the sound; and since the period at which the telephonic sound was actually produced has been already inscribed on the drum by the automatic arrangement previonsly described, the distance at which the auscultator's signal follows the telephonic signal of course equals the "psychical loss"-that is, the delay which occurs in the sound vibrations passing, as it *ere, through his psychomotor apparatus to the signal key.
By recording time markings on the drum below the tracings prodnced by the two signals, the exact duration of the "psychical loss" correction in the position of the signal representing the necessary of the cardiac sound as measured in its relationship to occurrence graphic tracing and cardiac cycle (for, in the previous observation the same time markings were, it will be remembered, taken) can of course be at once made.

The more accurate account of the apparatos is given below by Dr. Milne Murray himself.

Description by Dr. Milne Mtrray of Appatates tied is
Graphically Recording the Time of Cardiac

## Sounds and Murmits.

1. Arrangement for Recording the Cardiac AVovements and the Occurrence of the Murmur. - The binaural stethoscope S., Fig. 1, is retained in position over the region of most andible sound, in the manner deback to the observer and the recording apparatus. The cardiog his C., is held in position over the apex beat, either by the patient an assistant. The movements of the cardiograph are convered to the recording tambour T., through the tube V., and are recorded br the uppermost pen (1). The right hand K., of the auscultator, is placed so as to close at will a properly adjusted Morse key, K., placed convenientls on a table by his side. This key completes the circuit of the battery, I., shown beside it, and actuates the signal magnet, M. the occurrence of the murmur listere therefore indicate the movement of of the suscultator. The margnet marked B . (tracing the third line) is in direct connection with a clock beating seconds, and that marked A. is in connection with a timing-sprieg beating fractions of seconds (in this case 1-15th).
2.-Arrangement for Detcrmining the Time Intertening betwcen the Reception of an Auditory Impression and the Transmission of a Signal by the Auscultator, that is, the "Psychical Loss" in the Obserius. tions.-The pendulum F., makes contact with the platinum points
at each swing, and closes the circuit of the cell E . This cic cludes the primary coil of the induction apparatus G.- aind the marnet C., acting on the pen 2 . At each swing of the pendulum a current will pass through the coil $G_{\text {., }}$ and the moment of its passage will be recorded on the drum by the pen 2. This curreut will, moreover, induce a current in the secondary coil of $\mathrm{G}_{\text {. }}$, with which the telepbone H. is connected. This telephone is held to the ear, O., of the suscultator, who will thus listen to the clicks of the telephone produced by of the auscultator, is conveniently placed on the key K., and with this he signals the moment wheu he hears the clicks in the telephone. These siguals are marked on the drum by the magnet $D$. and the
pen 1, which are in tho same circuit as the key. The losa of time between the receptiva of the anditury improssion from the telephone and the transmission of a signal (in other words, the length of time required for the sonsory impression at $O$., to be transformed, so to speak, into a noscclar contraction at $\mathcal{N}$.) 'will be moasured by the dis. tance between the up-stroko of 1 and 2. The pens 3 and 4 mark seconds aud fractions of seconds in the same way as in tho previous
arrangement.

Statement ay Drs. Byrom Bramwell and Milne Murray of the Results Obtatifed in their Finst Series of Experments.
Our first observatious were made on November 14th, in a case of typical presystolic murmur. lu this and the sabsequent experiments in this series Dr. Bramwell listened to the murmur and signalled it, while Dr. Marray superintended and worked the recording apparatus. For the parposes of lescription, and to avoid the needless repetition of names, We will term the former the anscultator and the latter the observer. The roceiving tambour of the Marey'a cardiograph Fas
eolf. The adrantage of haring the end of the stethoscope beld in position by an assistant or by the pationt is that the auscultator is then altogether disconnected with the patient, excent through the flcxible tubs of the binaural stethoscope, and there is, consequently, no possibility of his receiving any information with regard to the rhythm, aystolic or otherwise, of the murmur by means of the tactile sense. The auscultator then closes his oyes, and concentrates hia Whole attention on the cardisc sound or murmur the time of which be deaires to record, and proceeds to mark the time of the murmur by deprcssing with tho forefinger the Morse's key, conveuiently placed at his right hand.

After the auscultator has for some time signalled the mormar in this way (in other words, as soon as he proceeda to discharge and signal tho time of the murmur in a regular and rhythmical manner, and when the levers connected with the cardiograph and the anscal. tator are both working to the observer's satistaction, the drum is started, allowed to make its circuit, and stopped. The observation is then completed. By this means four tracings aro recorded on the smoked paper ; the first or uppermost is tho cardiographic trace; the


Fig. 1. - The apparatus used ly Drs. Byrem Bramwell and Milne 3rarray, for graphically recording tho exact time relations of cardiae sounde and murmurs. (For detailed description of the igure, see text.)
held in poaition over the apex bea: by an assistant. The method of working was as follows :-
Tho patient was conveniently placed (aeated or lying) at a distance of sbout four foet from, and facing, the recording drum. The cardiograph was then adiusted, ao that a sufficiently satisfactory movement of the lever connected with the recording tambour was obtained. The assistant then took chargo of the cardiograph, and kept it in accurate contact with the apex beat. The anscultator then seated himself in front of the patiout, with his back to the recording drum, and by means of a binaural stethoscope determined the part of the chest whore the marmar could be most distinctly heard.
In the case of presyatolic murmura, the area of which is often very limited, it is not nsually possible to place the cup of the atethoscope
over the exact point of maximum intenaity of the murmor, for the receiving tambour of the cardiograph covers this spot; bat in the two cases we have so far investigated, a positiou was easily obtained whera the murmur was distinctly heard.
During the observation, the cap of the atethoscopo may bo beld in position cither by the patient, an assistant, or the aascultator him.
second shows the signals of the auscultator; the third the cime iz.: seconds, and the fourth or lowest tracc, the time in fractions of scconds.

It must be understood that as yet we have mado no attempt to time the duration of the eounds or murmurs which we have recorded. Whether this can be at all accurately done wo do not at present know, but hope to determine in the course of our investigation. The duration, then, of the auscultator'a signal may, so far as our prescnt results go, be left entirely ont of sccount. The commencement of the signal (the point at which the letter c is placed in Fig. 5) is the point to which importance is to be attached.
In this, our first experinient, several obscrrations were made. Thes preliminary tracings were more or leas imperfect, for the nccessary adjustments, and the rate of revolution of the drum best fitted for all tho requirements of the exporiment, had to to ascertained by practico ; but wo finally obtained a satisfactory tracing, in which the auscultator's signal boro a defnite and constant position to the ventricular systole, as traced by the cardiogranh in successive cardiac.
cyclcs.

The "peychicsl loss" was then estimsted in the following manner. The appsrstns having been re-adjusted, the auscultator held the telephone to his left esr, and by means of his right forefinger (the eyes being closed) siguslled to the recording sppsratus the time when the telephonic sound was hesrd. The telephonic sounds were produced by the observer "making" or "breaking," by means of a Morse's key, sn electric circuit at irregular intervals the exact time at which the telephonic sound occurred being, as previously mentioned, automaticslly inscribed on the revolving cylinder.
In this way, four trscings were sgain obtained on the smoked paper. The first or uppermost represented the suscultstor's signal; the second the exsct time of production of the telephone aound; the third, the time in seconds; and the fourth, the time in frsctions of seconds. The psychical loss, estimsted in this manner, was found on this occasion to be, ronghly, abont s fifth of s second. The auscultator was conscious of the very long psychical delay which occurred in signalling the intermittent telephonio sounds, produced at irregular intervals in this manner. The conditions were obviously quite different from the rhythmically snd quickly recurring sounds produced in the human heart' It wss, therefore, decided thst, in future observations, the telephonic sounds should be produced in a rhyth. mical and regular manner.

The next observations were msde on November 25th. On this occession, two cases were ex amined. The first wss another absolutely typical case of mitral stenosis (presystolic murmur). Seversl tracings were obtained, in which the murmur (as signalled by the suscultstor) occupied a definite position in successive cardiac cycles (as traced by the cardiogrsph) ; and the position of the murmur corresponded exact. ly to the position of the murmur in the previons csse of mitral stenosis.

In the present communicstion, we do not propose to make any further statement with regard to the position of the murmur in these two cases of mitral stenosis. The exact time relations of the nurmur being in dispute, we intend to hold our judgment in suspense, until we have satisfied ourselves by repested observations of numerous cases, that we have sufficient gronnds for coming to a reliable conclusion on the point.

In the second case which was examined on this occasion (November 25th), there could be no possibledoubt as to the nsture of the clinical phenomena; snd the trscings obtained, both of the sortic second sound, and of the telephonic sound which was artificially produced, in estimating the peychicsl loss, were so definite, so unex pected, snd yet so mutually corroborstive the one of the other ; and the final result, ss to the position of the second sound in the cardisc cycle was so absolntely in sccord with all that is known of the physiology and psthology of the hesrt, that the relisbility of the method, as a prasticsl means of demonstrating the time relations of cardisc sounds snd murmurs to the different parts of the cardiogrsphic tracings is, we think, to a large extent established by this single series of observations alone.
The eecond case which we obseryed on November 25th, and to which

We now wish to refer in detsil, was that of an intelligent man (W. K.) aged 41, a gentleman's servant, formerly a soldier, Who consulted Dr. Byrom Bramwell at the out-pstient department of the Edinburgh Royal Infrmary on November 5th, 1887.

The clinical details of the case sre as follows. Four days previously, when playing at dominoes with his brother, he was suddenly seized with s localised epileptiform convulsion (attack of Jacksonian epilepsy), in which the hesd and eyes were twisted to the right side, and then sffected with clonic spasms. Consciousness was retained during the attack, which lasted about a minute snd a half. He was unable to see daring the attack, in consequence, he thinks, of the ojes being turned so far upwards and to the right. The arm and leg were not affected.
On inquiry, it was ascertained that the pstient had, previous to this attack, enjoyed excellent health ; in fact, he stated that, with the oxception of being occasionally laid up with the effects of drink, he had never known what it was to be ill. Some yesrs sgo, he used to drink and smoke very heavily; but, for the past eight or nine years, he has been perfectly stesdy in both respects. In particular, the patient stated that he never had syphilis, and that he had not suffered from headsche or vomiting. Daring the three weeks preceding the convulsive seiz ure, he had occasionally felt giddy. Four months ago, he "ssw double" on three or four different ocea sions, hat this donble visiononly lasted for a fow minutes at a time. He had also, two or three times, scen bright flashes of light before both eyes. He stated that he had never had rheumatism; thst he was not short of bresth and thst he had neither pain nor uneasiness in the region of the heart ; in short, be had no sus. picion whstever that there was anything wrong with that organ.

On examins. tion the optic discs were found to benormsl, and there wers sbof the figure, see text.) solutely no physical sigas of contral nerve disesse. On exsmining the heart, the spex beat was found to be ill-defined, in the erect positiou, beating behind the sixth rib, in the line of the nipple, or perhsps a little to tha left of it. When the patient ras lying on his bsck, the cardiac pulsstion was abnormally forcible and hearing. The srea of precordial dulness was distinctly increased, snd there seemed to be a decided increase of the deep dulness over the ascending thorscic sorta. A well-msrked double aortio marmur was audible up and down the sternum. At the second right interspace, the commencement of this murmur was accurstely marked by a sharp, short, but loud sud ringing, second aound, from which it, (the mur mor) tailed off. The heart's sction was perfectly regular, and its fre. quency 72 per minute. The diastolic murmur was prolonged far into the disstole, which did not seam to be materislly shortened, ss it is in free aortic regurgitation. The radisl pulse was moderately jerking, visible, snd tortuous, but was not snggestire of free sortic regargits-tion-an observation which was confirmed by the character of the sphygmographic trscing taken a ferr days subsequently. (See Fig. 3.) The cardiographic tracing ghown in Fig. 4 mas taken by Galabin's
instrument on the sameoccasion as the sphygmogram, the liestry action at the time of the bberrvation being sociowhat acculersted aud excited.

The diagoosis was dilatation (perlap1s aneurysmal) of the asconding thoracic aorta, with some, though not free, aortis regurgitation. The cause of the attack of Jacksonisn epilepsy ceed not be diechssed here ; but it was probably due to a small embrilism, though the possibility of a commencing localisef "coarss" cortical lesion cannot he ahoolntely excluded.)

Now this casa seemed singularls well fitted for testing the capmbili. tie of the method of timing carliac someds and nurmurs which we are now describing, the apex beat heing sufficiently woll defined to give a decided aystolio np-atioke corresponding to the ventricular gys. tole, and tho wact commencement of the diastolic mormur baing most accurately and sharply detined ly the short accoutuatod aortic sound, which oceury, as everyone silmits, elther imentiatoly, or vary ahortly, after the tormination of the vantricular systole-that is, when the lever of the cardiograph, whieh has baen raised during the ventricular syatole, lo leginniag to fall.


Fig. S. - Sluyginogram (taken with Mahomed'a modification of Marey'a instrit nent) in the case of W. K. The tidal and dicrotic waves are well-marked, and the pulae frequency is not inereased.
The rennlts of our observations in the case of W. K. (accentuated aortic secoul\} sonnd and aortic diastolic murmur) were as follow. The carlingraphic trucigg which was obtained by Marey's tanbour apparatus, though amply sufficient for our present purfose (since it clearly shows the systolic and diastolie portions of the cardiac cycla anl we point where syatole commeuces and ends), is by no meaus equal to that which is ubtaiued by Galabia's cardiograph. ('Ithe ditforence iu the result is probably due to several circnustancos, namely, (1) tho iulament qualities of the two instruments; (2) the fact that the ugex impulse was less distinct, the heart's action being much lens forcible, wheu the laboratory obervatiou was made; and (3) to the circumstance that the anscultator is accustomed to work with Galabin's cardiograph, and is well acquainted with its capabilities, but is not in the habit of working with Maroy's instrument.)


Fig. 4. - Cardlogrm (taken with Galabin's cardlograph) tn the case of W. K. When the bfaclog was taken the lefarti action was momewlint cxcltell and eccelerated. The tracinf shows powerful and well antained ventricular contractiod, aonie nopcdisuene to the pasazge of the btood, from the Fubtricle into the aurta, agd nomarked rlse of blood-pressure on the ventriele during its diartole.
A sufficiantly aatinfactory movement of tho lover conuected with the ardiograph heving been obtained, the mnrmur was timad, signalled, and recorded with all the procautions previousiy dezcribsd, the auscul. tator's attection being concontrated on tho sharp accentuated gecond sonnd which maked the commencement of the mmrnor. The aignal of tha atiseultator therelore represeuts the commencement of the aortic diastolic marmur, or tho occurreace of tha second (aortic) sonad of the heart.

The timing iu this caso was very \&isy and very aatisfactory, owing
to the sharjness and lowinese of the round to be obsarvenf and the slowness (72 per minnte) and regufarity of the cardiac action.

The duration of the obeervatiou semod to the ansculator inerdinataly fong, and he was conscious towards its tormination of a feeling of strain, bud of cercbral surprisa at tha'duration of tho experiment, and of anxiaty as to its result. Tha loag daration of the expariment was due to the fact that the ohserver, bsing so plased with the result, lisul not contented himself, as in former observations, with takiog ono. tracing, but had threo times raised and readjusted the drum, anf had takea four'successive tracinge hefore giving the auscaltater the aignal to cesso ths anscultation by nudging him in tha back. Exact repro.? ductions of portions of these toar tracings aro shown in Tig. 5. Tha full length of each tracing was 19 inches; mora: thau half (11 $\frac{1}{\text { f }}$ inches) liss consequeutly bean cut off, so as to adapt the tho woodcot to the size of tha Journat ( 8 t inches).
The total anmber of pulsations (cardiac cyclas) rocordod in the fonr tracings was twonty-eight, representing a period of nearly twenty-thren seconds. The length of the obsarvation was, however, vary much lobger than this, for tha repeatad raadjustment of the drum occupiad a mach longer period than the taking of the tracings; and the angcultator continued to sigaal the murnur for some time both bafore the commencement of the first, anel after the termination of the final,' cardiac pulsation markad on the drum.

This experiment was obviously a severe test of the capabilities of the method and of the mechanism, for the long duration of the ox-: perimant, and the feeling of fatigue, cerobral surprisa, and anxiaty for the resuit, and expectancy for the termination of the observation, which the auscultator experianced towards the end of tie experiment, might reasonably have bean expocted to interfere with the accuracy 1 of his timing in the later stagea of tha observation; and to a very slight axtent this doos sesm to have heen the case. In the last three cycias traced, which are not shown in Fig. 5, the timing is not quitel so accurato as in the other parts of the tracings.

It will be sean by raference to the tracing (Fig. 5) that the result in this case is vary definite. The up strokes indicatiog the occurrence, of the secoul sound, as sigualled by the auscultator, anil to which the lattars C. point in the tigure, practically occupy exactly the same place in each cardiac cycle thronghout the four traciugg. (The causu of the slight differences in position aean in successive cardiac beats or cycles will be explained preseotly.)

We observed with much surprise that the second sound, as sigaallad, exactly corrosponds to the point of the cardiograplic tacing which represents the termination of tha systole; in other: words, exactly corresponds to that part of the cycle in which we know that the second sound does actually take lilace. This result was difficult to naderstand, for no aliowance or correction had been ioada for "psychical loss." In our previous observations we had roughly es. timated the "paychical loss," which ocenrs in sigaalling intermittant and irregularly recurring sounda, at a fifth of a second ; and if any such deduction had to be mada in the present instance, the result of the observstion would be an obvious absurdity, for it would cause as to place the occurrence of the second sound bsek, quita ius the early part of the ventricular systole.

We proceeded, therafore, with much iuterest anll anxisty to repl estimate the "psychical loss." With this object, Dr. Alurray placed into "circuit," with the telephone and recolding apparatus, a clock, a constructad that a "make" and "break" of the electris current ware effected ovary two gaconds, the rhythm, lowever, being inter-rupted overy tenth beat. In this way a "make" s soul "Uraak" sound, separated by a short interval, wers producel in tha telephona, evary two seconds, but intarmitting every tenth beat, so to sneak, and the exact period of occurence of theso "ruake" and" break" sounds Was automatically recordari on the irum, as in previous experiments. The auscultator found that the signalliag of the sonody produced in this way did not materially differ from the signalling of the intermittant and irragular eounds produced on the previous oceasion; the aounds did not occur suffeciently rapidly to onable hin to time them rhythmically, more especially. sines the interruption every tonth beat ontiroly disorganised the rhythm. In timing the sounds produced in this way, he haul, he tound, to watch for every separate sound, and to time it asparately and individually; as if it had bean produced in an altogethor irregular and arhytimical manuer. As a matter nf fact the "psychical Ioss," estimatod in this way, was found to be axactly 3.15 tha of a second.

We then determined to make the conditiona, so far as possible, identical with those in the case of diastolic sortic murmur mreviously. examined; in other worde, to time a wall defined sound, that is proeg Unced regularly, at the intorval of a second. To etfect this the clock, which in previous experiments liad been used to mark the time in



g Secanils $\quad G$
15th Serand
a!tipuos sq7 प!
represeat into circuit with the telephene and its recording laver:
ad the two acconds clock that every tcath beat) was nsed as a time marker, though, with the telephode signal alrealy marking seconds, this was not, if conrse, necossery.
 ibrations appeared almost to ran one into the other ; the result produced very clojely


After carefinl adjustment of the telephonic lever and the sigaal lover of tho auscultator, a tracing was taken with all the precautions previonsly describel (the eycs of the suscultator being closed). The result (neo fig. 5) was again a surprise, and an intoresting physiological observation-which, so far as we know, has nut been previously made-for it showed that, uuler tho conditions of the oxporiment, there is absolutely no "psyohical loss.""s The absence of any "psy"-chical-loss " under such conditious is a most important practical fact for the parposes of our preseut roseurch; for it shows that in recording, by meaus of the apparatus which wo have described, the sounds of a rhythouically contracting and slomly actiug heart, the personal equatiod (as rugards "psychical loss," but not, of course, as regards the auscultator's capability of percoiring cardiac sounds or murnurs) may be left out of account. Within what limits, as regards frequeucy of action (iu other words, frequeucy of sound), this statenent applies we do uot at present know ; but wo hope in the course of a short time to be able to determine.

There aro also several other interesting questions connected with this result (not, hawever, besring directly upon our present research) which;suggest themselves for solution, and which ${ }_{5}$ if time permits, we lope to investigate:-

The fact that there is no "psychizal loss," under the conditions we hare mentionod, confirms in the most striking snd absolnte anapoer the reliability of the previous experiment, which had located the occurrence of the second sound just at the end of the ventricular systole. In fact, the two experiments are mutually confirmatory the one of the other; for the fact that the second sound does occur immediately, or almost immediately, after the ventricular contraction ceases, is, of coursc;one of the absolutely certain and fixed ovents in cardiac physiologr.
These oxperiments seem to show that the method is a practical and satisfactory method, and well fitted to serve the purposes for which it is intended.

The explanation of the absence of any "psychical loss" in this experiment is not far to scek. It is obrious that the discharge of the motor centre concerned in the movement of the forofiager, Which depresses the signal key, becomes rhythmical; and this rhythmical discharge of the "signal centre," as it may be termed, takes place syochronously with, or oven rather tends, as some of our observations show (unless the attention of the auscultator be Fery closely conccatrated on the somnd) to anticipate the recurring sensory sensation (telephonic sound), with which it corresponds in time. It is quite obvions, therefore, that anj given sensory impression or telephonic sound cannot regulate the motor disclarge, with which it corrosponds in time (and on the drum); bnt that the precediag sensory irapression or telephonic sound gnides the succeeding motor discharge ; or, at all evonts, that the rhythnical recurrence of the motor discharges is regulated and anided by the rhythmically recurriog sensory impressions whish precedo them.
Such a view explaing the fact that the signal marking the occurrence of the sccond-aortic sound, in the case of W. K. (the points at which the letter 0 . is placed) is not absolutely the samo in each succeeding cardiac cycle. It will be seen that in some cycles it slightly precedes, whilo in others it slightly follows, the termination of the vontricular systole, as indicated by the cardiogräphic lever. The reason is, that (in consequedce, no doubt, of the intluence of respiration), the heart does not best with the regularity of clockwork that in a pormal and appareutls perfectly regolarly beating heart, some cardiac cyclés are longer, while somo are shortor than others. We may, therefore, expect that if a short cardiac cycle, or a short ventricular systole, follows a long cycle, that the signal renresentiog the sceond sound, since its time is regulated not by the second sound, with which it corresponds in time and on the drum, hut by the preceding, or several preceding, second sounds (regulating the rhy thmical contraction of what we may term the "gignal centro"), will slightly onccoed; while, in a loog cardiac cycle, it will slightly precede the point in the cardlographic tracing at which it ought actuslly to bo placed. Whether this is so or not me havo not jet determined by actual exact measurement.
It will nevertheless be noted, that although successiro cardiac cycles vary considerably in their duration, the relative position of the seconil sound, as sigalled by the anscultator, to the termination of the ventrianlar systolo, as recorded by the cardiagranh, is practically naintainod throughont the whole four tracings ; in other words, the
${ }^{2}$ This fact was demumstrated by the anthors of the paper to tha membera of the EAlnburgh Pathological Cluh, on November sotho Althnugh the demonstration Was madnat lzp.s., when thr anacultat or was exhalisted ly a hard day's work. and at the end of ameuting of four homrs' duration, in which a gond deal of tobscco was gning the whele time, the result was perfectly astistactory, tho "pyychles loss," under the samo conditiony, belag, ajaia ni
slight crror in ono cyclo is not magnified in tho noxt cycle, and that the relative position of these two points (socond sound as signalled, and tormination of systole as traced) is practically the same, both in the first and iu tho last cyclos of the series ; an argoment, we think, in favour of the view that tho procediog sonsory impression (sound) regulates tho occurrence of tho succoerliug motor dischargo (signal).

The practical outcome of thie, we lear, somewhat long explan ation is, that the exact position-point of commencement-of a cardiac sound or murmur, even grantlug that it is aignalled with absolute precision, cannot by this method bo sbsolutely and accurstely determined from tho obscrvation of any singlo cardiac cycle alone; but that, by taking tho average, so to speak, of a aufticiently long serics of cycles, such location can be determiaed with very great exactitude, alwaye, of course, granting that the suscultator signals correctly the exact commencement of the aound or murmur. Further, the error which, undor such circumstances accurs in any individusl cycle, in consequence of the diminished or increased length of that cycle ss compsred with the previous cycle, is so alight, that for practical purposes, for dotormining, whether a murmur is systolic, diastolic, or presystolic, it may bo left out of sccount.

It must be remembered that those statoments ouly apply, so far as our present observations enable us to judge, to a regatar and rhythmically acting heart. To spesk with absolute accuracy, we have only prored that they hold good in timing a soand produced with exact regularity every second; but no one, we presume, will for a single moment bo inclined to doubt that this limit, sixty times a minute, may be considerably extended in each direction. By fature observa. tion we hope to determine this point.

Further, we hope that by this method we may be able to demonstrate the exact raythm of the murmur of mitral ste⿻osis, presys. tolic murmur ; and perhaps, after we have perfected our cardiographic apparatus and succeeded in recording on the drum a more smple and satisfactory tracing of the impulse of the heart, that we may bo able to indicate the exact points, in the up and domn strokes of the tracings, which mark the occurrence of the first and second sonnds of the hesrt.

The appsratus seems also fitted to record other clinical phenomens, 8s, for cxample, the exact duration of tho delayed sensation which occurs in some cases of nerve disease.

In conclasion, it is perhaps hardly necessary to state that this method of graphically recording the exact time relations of cardiac sounds and murmars is not intended, nor indeed fitted, for ordinary every day clinical nse. The appurstus is far too complicated and delicate for that. But, indeed, the ordinary method of auscultation, aided, if necessary. by the administration of digitalis or strophanthus, with the object of slowing, steadying, and strengthening the cardiac coutractions, and so, of naking the inteasity and rhythm of the wurmur more distinct, is, for practical purposes, all that the experienced observer requires. We hope, howover, that the mothod which we have described may enable us to decide some of the ques. tions which are at present in dispute.

Note.-Since this paper was written, Mr. Edison has kindly promised to direct his sttention to this subject.

## AN ADDRESS

## THE THERAPEUTICS OF THE URIC ACID DIATHESIS

Delivered at the Opening of a Discussion on the Subject in the Section of Pharmacology and Therapeutics at the Annual. Mecting of the British Medical Association, held in Dublin, August, 1857.

## BY I. BURNEY JEO, M.D., F.R.C.P.

Professor of Cuinlcal Therapentics in King's Cellege, London; and Pbysician to Kiog's Cullege Hospital.
I HAVE, in the first place, Mr. President, to thank you for the compliunent you have paid me in inviting me to open this discussion.

The therapentics of the uric acid disthesis is a very ride subject, and one surrounded by conflicting theorics and divergent opinions; but it is mithin our power to limit this discussion to the consideration of certain definite questions of practical interest, in the cxamination of which we may hons to elicit, from the ripe experience and traiaed ohservation of tho msny distinguished physicians who are present here torday, facts and suggestions of much value.

And, in tha first place, I would respectfully suggest that we shonld confine ourselves strictly and closely to the practical aspects of the subject before us.' Our constant aim and effort shonld be to establish our therapeutic processes on sonnd and rational physiological principles; but, on the other hand, we should also bear in mind that therapeutic investigations are a kind of experimenta! pathology, and that when pursned in a scientific snd diacriminating spirit they often illuminate, with a reflected light it may be, many difficult and obscure pathological questions: so that while rational therapentics must rest on sound pathology, on the other hand, sound pathology must be consistent with established therapeutic facts.
In this discnssion we approach the subject of the "uric acid diathesis ", from the point of view of practical observation of the hnman subject, and from that point of view, if this discussion is to be profitable, we, I venture to suggest, must not wander.
The subject of our discnssion is the most appropriate treatment of that constitutional state, and the various maladies associated there. with, which depend on tha tendency to the accumulation of uric acid, in excess, in tha human organism.
It is necessary that I should, in the first place, summarise, and I shall do so with the greatest possible brevity, the chiof views which prevail as t) the mode of origin of this 'excess of uric acid in the blood.
First, there is the hypothesis advanced by Mnrchison, and supported by Charcot and many other observers, that the livar is tha organ chiefly at fault in this excessive production of aric acid. It is maintained that, owing to disturbances in tha function of this gland, an excessive quantity of uric acid is formed in it, which passes into the blood with the reabsorbed hile.
Dr. Latham also, if I nnderstand him aright, refers the formation of axcess of uric acid primarily and chiefly to some fanlt in the gland cells of the liver.' There ocenrs, he says, in the liver a disturbed or in terrupted metabolism of glycocin, which is brought to that organ by the portal vein as one of the results of intestinal digestion. This disturbed hepatic metabolism leads to tha formation of bydantoin in the blood, and this in the kidney is converted into ammonium urate; a por tion of this fails to ba excreted, and "everflows" into the general circulation, where, meeting with tha soda in the blood, it is converted inte sodium urate. The fornation of uric acid, according to Dr. Latham, "is the resalt primarily of the non-transformation or metaholism of glycocin into urea, whether that glycocin be deriped from the hile poured out into the diodenum or found elsewhera in the hody."
This view is perhaps not altogether inconsistent with the one which Garrod appears to regard with a certain amonnt of farour, although kidney is the cal not to adopt it too a bsolutely-namaly, "that the kidney is the actual producer of oric acid, and its presence in the
hlood and tissues is explained hy resorption from the renal cells-s process which is scarcely appreciable in health, bnt becomes more and process warked in proportion to the difficulty which the uric acid lias in
more finding its way to the uriniferons tubes." In this view the fault appears to be on the side of the renal cells, rather than in the liver.
Ehstein maintains that, in persons who suffer from uratic arthritis, uric acid is formed in the muscles and in the marrow of the bones; and that its formation in the muscles is due to pathological causes; that it is a disturbance of nutritive evolution. He also asserts that it exists in the fluids of the hody in the form of neutral compounds; but when it is deposited in the crystalline form it is as acid compounds, and chiefly as the acid urate of soda. In order that this may hanpen, a free acid is necessary; and this crystallina deposition is exclusively dependent on local conditions. It occnrs in those localities where a free acid is encountered. Thig free acid is ouf necrosis, and necrosed parts. The formation of a free acid is an effect of necrosis, and it is only in these necrosed parts that a deposition of crystalinine urates occurs. The necrosis is. cansed by the irritant àction of acid nrates in solution. He further maintains, in opposition to
Garrod, that it is by no means niecessary that uric acid shona posited in the tissues in the form of crystallin uric acid should be deposited in the tissues in the form of crystalline urates in order to set are constantly excited, without any crrstallina dan be excited, and presence of uric excited, mithout any crvstalina deposits, and by the presence of uric acid compounds in solution ; and with this latter vieir I entirely concur.
Tha view maintained by Frefichs and Wohler that the formation of aric acid is an intermodista step in the tranafornation of alhuminoid oustances, into urea, sind that its accumnlation in the hlood is an sudication of arrested oxidation in the progress of urea formations, hass been hotly contested.

Beneike, Vait and Lecorché assert, on the contrary, that the formation of urea and uric acid occurs in the organism quite independerdently of one another.

Bartels supports the theory of incompleto cxidation as explaining the rigin of uric acid, and conside es it to be formed in connective tissne and cartilage, becausa in them the nutritiva processes are slow and languid.
I must not omit to allade to the opinion of Proiessor Bouchard, of Paris. He contends, and I think not without some reason, that "it has hy no means been demonstrated that in gout uric acid is the only or even the chief matter contaminatiog the fluids." He says very pertinently that "we talk much of uric acid in gout, because we can see it withont looking for it," but that "we do not talk of what we do not sea, and abova all of what we do not look for." He admits, of course, that some of the incidents and manifestations of the malady depende on uratic deposits, but that it is not itself a "uricretnia. He maintains that in gout there is " an exaggersted formation dyscrasis, one of the consequences of which mav be the deposition of acid uratcs in certain tissues. Ho distinctly rejects as unconvincing the riew which throws all the fault on a "torpid liver.
I am glad it is not my business to day to follow these variors observers through the intricate mazes of their pathological chemistry, or to dispute with you the various conflicting doctrines they adrance, all proved to their own satisfaction by careful experimental observations and the clearest possible chemical equations

I think, however, we may conclude as a hasis for our therapeutic discussion, that there is an agreement to this extent amongst all observers-riz., that ths "uric acid diathesis" is associated with imperfect putritire matabolism and imperfect excretion of the results of retrograde metsmorphosis, especially of albuminous substances, aut
I am disposed to claim as a have given elsewhere-viz., that it is morking definition of gout one metamorphosis."

An appeal to practical therapentic resnlts may, after all, be the best test of the probability of any theory Iut forward iv explanativa of the formation and pathological significance of uric acid.
The uric acid diathesis is admittedly the parent of a great number of morbid phenomsan for the relief of which numerous remedies hare been proposed.

Pbinolpal Morbid Conditions dependest pá or associated with tha Uric Acid Dathesis.
Arthritic: Affectiqus :
Acata, uratic arthritis (acute gout).
Chrouic , , $l_{1}$, ,,.$\quad\left\{\begin{array}{l}\text { Anchyloses } \\ \text { Deformities } \\ \text { Uratic deposits (toj,ki), }\end{array}\right.$
Gastro Intestinal Affections:
Dysphagia from cesophageal spasm,
Cardialgis, or.
Dyspepsias
$\begin{aligned} & 14 \\ & 40\end{aligned},\{$ Gastrodynia (heartburn) Pyrosis Enterodrnia. ${ }_{1}$
Circulatory Affections::
Palpitation of the heart and large ressels
Irregular cardiac action
Angina
Chrouic arteritis (aneurysm)
Phlebitis (ambolism).
Bespiratory Lifections:
Laryngo-pharyngaal catarrh
Bronchitis
Asthma
Plenritis (dry).
Renal and Urinary Affections:
Chronic interstitial nephritis
"Primary renal gout" (uratic deposits in kidneys, sud absenca of arthritis)
Uratic gravel and calculi (renalyand vetical), oxslate of lime
Cystitis and irritable bladder
Prostatitis.
Neres Affections: ar 9
Neuralgias
Headaches (hemictania)
Cramps of miscles
Hysteria
Hypochondrissus
(Epilepsy)?

Of rarious nerves
Lumbago $^{+}{ }^{1}$, $11 \cdot 11$
Sciatics

## Mryans of Sense:

Ophyhalmia
Conjunctivitis (" hot aye ")
Iritis, etc.
Otitis (deafuoss).
Culancous Affections:
Eczema
Pooriasia
Prurige (ausl and vulvar)
Acne.
Prisetral pronosfd Remedifs for Affections confectru with the URIC d(ld Diathesis.
Diet and Reginen:
Drugs.
Colchicum
Salicylates
Benzostes

## Guaizcum

Iodide of potassiuna.
Arsenic

## Sulphur.

Alknlies and Alhaline Farths:
Salts of potassium, sodium, lithinm, smmonium, calcium, and magnesium
Farious Local Applicalions to Afiected Joints:
(a. Alkaline (bicarb, of soda), for example, Fichy
b. Alkaline and aperient (carb, and sul.
phate of soda), Carlsbad

## Mineral Haters and Baths

c. Chloride of sodium, Wieshaden, IIomburg
d. Lime (earthy) watera, Contrexéville, Bath
e. Indiffereat (thermal), Buxton, Gastein (f. Sulphur, Harrogste, Aix.

## Water hot (and cold)

The treatment of the diathesis, rather than of its several morbid manifestations, must, in this discussion, chiefly occupy eur attention.
In this, as in all other therapeutic questioas, I wonld point eut that we should alrays bear in mind that we have to deal with three elementa or factors: -1 , the pathogenic slement; 2 , the constitutional element ; and, 3 , the remedial element; sod I would beg you to notice that the third is the only poasible constant element.
The pathagenic factor may be present in all degrees of varying intensity; the coustitutional element is, I need not say, extremely variable. The reactions of these two on one another may also vary greatly, leading frequently to the development of morbid conditions a different from one snother as, for example, primary uratic nsphritis sid primsty uratic arthritis.
The reactions of the third element, on the other twe mnst aleo, of neceasity, rary enormonsly.
Now, these conaiderations, althougle elementary, are frequantly overlooked. Since these are the conditions of nearly every therapeutic problem, why abould we look for constant nniformity in reaults 1 and why should We be discontented, or aceptical with regard to ramedies becaune they do not always produce the asme desired elfect ?

It is absolately impossible, from the necassary conditions of the therapeutic problem, thst they should do so. For example, in certain constitutions, a peculiar quality of the tissues may canse the uric acin deposit to cling to them with peculiar tenacity, while in others, for a like reason, they may part with it with unnsual' readineas. This obvious considerstion must tend necessarily to disturb all experimental iaquiries into the action of the varions remedies proposed as elimina. tors of uric acid.
And now, without further preface, I will pass to the consideration of our remedies.

Diel and Regimen.-It is universally admitted that the trestment of the uric acid diathesis must take largely into account questions of diet and mode of life. Apart from the infnence of heredity, which is the chisf atiological factor in this disthesis, no other cause is so influential in its production as habitual excesses or errors in eating sod drinking; and evsn when the hereditary tendency to this diathesis is atrongly pronounced, very much may be accompliahed by carefnl attention to dietetic roles, so as to keep in aboyance its mors errious manifestations. It would, however, be a grave error to conclude that
all the rictims of this diathesis merit tho reprosch of intempersuce, or that they should all be submitted to the roatine of a rigrd abstinence. One of the greatest differences of opinion at present existing with regard to the most appropiato foou for the gouty is that which has aliseu in conuection with Kibstein's views ou thia subject. He maintains thst one of the most compromising conditions that can affect a persou jredisposed to geut is obesity. He saya: "The gouty who have grown old in spite of their discase are aluost alwaya those Who have beeu sble to keep obesity at arm's length ;" and he considers the treatment of obesity an essential element in the treatment of gout. His method consists in alloring sufficiont albuminous food for the physiological wants of the body=from seven to nine ounces of rosst or boiled neat per diem. But, instead of avoiding fat, he eacourages his gouty patients to take it, for he contends that the addition of a suitable amount of fat to the food is the best means of combating obesity. So far, he says, from increasing their fat, under thia regimen they become thin, while their phyaical and intellectual faculties are improved. He explains this ty the rapid manner in which fata allay the appetite or craving for food, and so prevents its excessive conanmption. It slao diminishes thirst and lessens the tendency to drink large quan. ties of tluid (which in German, means, beer !). Geod fresh butter he considers the best form of fat. He allows from two to three and a half ounces a day. He forbids starchy matters, or limita their consumption to two and a half to three and a half ounces a day. He forbids augar, farinaceons foods, and potatoes. He allows a moderate quantity of fruit and vegetables-peas, lentils, and beans in the form of purées (passed through a sieve), spinach, cauliflower, red cabbage, but forbids tarnips.

It has been clearly established that in the uric acid diathesis no good results from abstention from a moderate amount of animal food, and harm bas no doubt occasionally been done by too severe a limitstion in this respest, in the case of fesble persons. In opposition to this view, many object to a diet in which there is much fat or gaccharine and starchy aubstances, on the grounds that, by affording the systam material for combustion, thess substances tend to check the metabolism of nitrogenous compounds and prevent their complete elimination. Senator says there should be a minimum of fat. He objects also particularly to yolk of egg, on account of the amount of fat and lecithin (an abundant source of phosphoric acid) it contains. Tea and coffee lie forbids.

In these matters it has seemed to me that each patient requires a saparate study, cspecially with regard to digestive peculisritiss; and that our object should be, in accordance with and in aubordination to certain generally admitted truths, to construct a diet which shall be readily digested, and which does not tend to excite acidity and undue fermentation in the alimentary tract; and that diet will differ with differeut persons. Whataver may have been the case with onr predecessors who originated the gouty constitution, I am quite astisfied that iu the present day, especially in the neurotic natuifestations of this diathesis, we ofteu encounter them in persons who are delicate faeders with small appetites, and who consume a minimum rather than a maximum amount of food.
A most important question in connection with the management of the gouty diachesis is the use of alcoholic drinks; in some persons, and especially in women, I am satisfied it is best to avoid thern altogether; in others I have not found their moderate and discrimioating uso injurious. Of all alcoholic beverages, malt liquors are, I consider, most prejudicial in this diatheais, and bad quality wines. With regard to wines, I have had occasion to form a very decided opinion that it is not the name but the quality of the wine which is important. And no greater errer has ever crept into medical practice than that exceedingly common one of advising everybody to drink light claret. A more injurious beverage than bal claret, or imperfectly matured clsret -snd speaking generally, all but the more expelisive or most carefully aelected clarets ars bad-was never drunk. Cheap clarets consist of admixtures of the worst and most valualess winea that are grown on the surface of the globe. I repest, it is the quality, not the name or even the quantity, of the wine taken, which is of chicf importance to the aubjects of this diathesis. IIalf a glass of bad sherry or claret or other wine will prodace a decided disturbance of health, when considerable quantities of fine quality wines will pass throngh the system without injury.
I bave made an observation, of the value of which I am more and more convinced: it is that the wines which act freely as diuretics are the wines which agree best with all persons. In some this will be champagne, in others claret, in others hock, and so on; but they are always, or nearly alrasy, wines of good and often very fine quality. A very eminent phyaiciac of New York told me only a few weeks ago that he found champagne and port-carefully selected, I need not say
-the best remedies for his gout.
I have certsinly known many gouty persons who find champsgne the wine that suits them best. For those who find a certain'amount of wine a necessity, it is sdrissble thst they should sdd to the wine they drink a small qusntity of $3 n$ slkaline water.
Some years ago I 'took to recommending still Moselle mixed with Apollinaris wster for thirsty persons who required a "big drink." I find from the German wine merchants that these still wines. of the Mosella hsve been so lsrgely recommended of late yesrs to gouty persons that their price has adranced more than 25 per cent.
A great deal has been ssid shout the importance of exercise for gouty persons, and no doubt a sufficiency of exerciso is important to all persons. But gout is a disesse which prevsils amongst a class of persons who take a vast amouut of physical exercise. Lord Beaconsfield's definition of the aristocracy as "People who live much in the open air and don't read," i , so far ss the first point is concerned, a true one, and the comparatively slight incidence of gont in women as compared with men, who lesd much more active Ilves, pointe in the same direction-viz, that wsnt of exercise is not such, an important feature in the etiology of gout ss has been imsgined.
As to climste, 1 am convinced that a climate that is marm, dry, and equable is most sdrantageons to the subjects of this diathesis, and that climatic conditions which interfere with the free action of the skin are most prejodicisl. It is a mstter of common observstion with patients themselves that if the action of the skin gete disturbed by the onset of 8 cold east wind they soon begin to feel "gouty.

Water.-1 am also convinced that no remedy is more valusble and important in the trestment of this diathesis than the regular consamption of a considersble qusntity of pure water, and preferably bot water.
As a diluent and solvent of renal excrementitions substances, it is most important, while in its rapid psssage, through the system, it must tend to dissolve and csrry away waste matters from the blood and tissues. When druuk at a higher temperature than thst of the blood the effect of this hot water flowing through the hepatic portal circulstion must be to stinulate the functions of the liver celle and promote biliary excretion.
(To be continucd.)

## CLINICAL MEMORANDA.

HORN ON THE HEAD OF A WOMAN.
There is (or was) a born, similar to thst doscribed by Dr.'V. Bejan as occurring on the head of a Roumanian woman, in the Pathological Museum of St. George's Hospital, which I removed from the face of au old woman in Yorkshire some years ago. I forget its dimensions, but I think it was somewhat smsiler thas the one referred to in your note, and its shape was tristed in the form of an antelope's horn. It appeared to be developed from a mole, sad there were tro or three rudimentary horns ou other parts of the face of similar origin. The wound healed well, and the patient lived several years ofter the operation, but I do not know whether the smaller growths lacreased in size.
Curzon Street, W.

## NATAL SORE

I Gave rocently seen cases of "Natal sore" from Maritzburg, and I have no hegitation in statiog thst their sppesrances aud histories cor"espond with the disease known in India ss "Delhi hoil." The "Natsl sore" has been long sgo mentioned by African travellers, including Livingstone, ss very common amongst the native tribes; snd, quite recently, the merlical officer of one of the Castle mail packets, trading between Mauritius, Natal, and the Cape, informed me that he is often called on to treat passeugers suffering from this troublesome skin disease.
The late Dr. Tilhury Fox proposed thst the nsme "Orientsl snre" should be applied to this disease, as it was then thought to be confined to the East: but it is now known to have a very wido distribution. I ssw, many rears ago, a case from Jamsica.
J. Fleming, M.D., F.K.C.S.E., Surgeon-Major M S.

Manritiцs.
UNUSUAL CAUSE OF URETHRAL H FMORRHAGE. A., aged 34, sent for me complaining of somewhat severe hæmorrhsge from the urethrs. On exsmination the entire left half of the scrotum and penis, and the whole of the perineum to within two incbes of the anus were seen to present one msss of varicose veing. There was an enormously dilsted venous pouch where the vein passed out of sight
near the snus. The condition was congenital, snd had remained spparently uechanged ever since he conld remember. There was no other ressel lesion to be msde out. The hremorrhage was arrested by passing a catheter into the bladder, snd bandaging the penis on to it, the hemorrhsge coming spparently from a ruptured vein sbont three iuches up the penile prethra.
F. R. Hemphreys', M.R C.S E., L.R C.P.Lond., etc.

79, Queen's C Crescent, Harerstock Hill, N.W.

## THERAPEUTIC MEMORANDA.

OLEATE OF ZINC AND IODOEORM IN GYNECOLOGY. 1 ghoult be glad to record my experience of the value of iodoform sud oleate of zinc when mixed together, either in equsl portions or with two psrts of iodoform to one of the oleate, sccording to the effect desired.

The dry trestment io gynæcology having attained anch snecess, I psrticularly wish to notity the beueficial effect.of this powder on ulcersted surfaces of the uterus, or to aid granulation sfier the application of strong caustics. It masy be spplied by insufflation, or on the tsmpon; according to the nature of the case. It is especially useful in cancerous ulcerstion, in which the psin and dischsrge may be greatly reduced by its nse, the feror corrected, snd a clesn granulsting surface often left. It diminishes byneræmis and exudation, and may be used with advantage to the inflamed endometrium as a dnoting powder; it will hesl up most nlcerations with grest rapidity.

The oleate of zinc seems to $m \theta$ to be prefersble to bismuth alum of the oxide of zinc, and when used in combination with indoform, it will be found to be socthing, astringent, antiseptic, and healing.

## 19, Mecklenburg Square.

A PLEASANT ANESTHETIC MIXTURE.
Much discnssion has lstely appeared in the Jocrival ou the subject of anesthetics. The A.C.E. mixtare appesrs to hoId great favour with msny practitioners, and undoubtedly very justly so, it being apparently a much safer anæsthetic than either chloroform or ether. I should like to placo before your readsre snother misture, which
I think will be found to give even greater satisfaction, especially for all minor operations-namely, a mixture of equsl parts of alcohol all minor operations-namely, Its anesthetic effects do not come on quite so and chloroform. Its ansestheleasant to the patient, and I believe rapidly, but it is mach ess mixture of A.C.E. I have, administered it even safer than the usual in minor surgical operstions and in dental (using a Skinner's iuhaler) in minor surgicsi operstiover, except in on $\theta$ case in which there was slight excitcment, which very soon passed off. $\Delta$ more pleasant mixturo can he made with equal parts of the best eau de Cologne and chloroform, and in addition the inhaler should first be sprinkled with a ferw drops of pure eau de Cologne, so as to render the first two or three inhalations still more pleassnt and comfortiog to the patient. In dental operations I hare found this plan most satisfactory for nervous ladies, who are prejudiced against any form of anæsthetic other than gas. Whliam J. Stephens.

## OPHTHALMOLOGICAL MEMORANDA.

SPASMODIC ENTROFION TREATED BY STRETCHING THE ORBICULARTS
Mrs. W., aged 69, consulted me at the linlton Eye Hospital, on November 9th, last. She had been ill uesrly three months; there was mucopurulent conjunctivitis of both eyes, nleeration of both cornea, rery extensive in one eye, douhle iritis with inmerows pasterior synechix, and spasmodic entropion of the lower lits. Here I an concerned uerely with the eation (maiutained for about a minute orbicularis by an extreme separation (maineld retrector. This winf
of the eyelids, usiug for this parpase the eyelid of the eyelids, usiag lar thed its ol.ject. When the lids were shal accompla manipulation accomplished its olject. When the lids were, hefrere
its performance, placed in their normal, they iumediatels resumil its performace, poition, notwithstanding the utmost efferts of in pationt. She reports that at no time since the stretching (new six weeks ago) have the lids been turned iu excent momentarily at the time of making local spplicstions.
The trestment by suture, to which 1 called attention in the Journal of May 28 ih last, and of the efficacy of which I hare since had additional evideuce was contra.iodicated, by the discharge. Msnchester.

## REPORTS

HUSPITAI AND SURGICAI IRACTICE IN THE HOSPITAIS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

HOSIDTAL FOR WOMEN, SOHO SQUARE.
FEVCLEATION RY ELFCTROLISIS OF A LARGE UTERTNE FIBROLD. (tnder the caro of E. Hot.tand, M. D., M.R.C.P., F.R.C.S.) Mrs. C. aged 38 , having seven children, was adnitted on July 4 th, aeverely hlanchod and llooding. The uterue whe involvei in a hard, maltiform, fibroid enlargement, whose measurements were as follows: lipper limit lovel with the middle of nmbilicus; rightlaterallimit, 5 inches to right of middle line ; left limit, $3 \frac{1}{2}$ inches from middle line; transit of sound, of to 7 inches. The hemorrhage resisted sll ordinary rosonrecs; sud, so there was no cervix arsilable for a stump, electrolysis Tas considered a legitimate procedure, and was accordingly begun on Joly 22od, as follows. The negative elcetrode, insulated to $4 \frac{5}{2}$ inches from its extremity, wss placed in the uterine cavity; whilst the positive electrodo was connected with the zioc and potter's clay distrihator of Apostoli, and appliad externally over the tumour. A current of 50 milliamper res was gradually induced and sllowed to play for ten minates. On the 25 th the application was intensified to 80 milliamperes; on the 29 th, to 150 milliamperes. After this there was pain for an hour and the tumour was perceptibly diminishod in area. On Aogust 2ad there Was again free hæmorrhage, and clots passed for sereral days. On August 9th, the hæmorrhage still continuing, positive galvano-canterisstion to 250 milliamperes was maintained for twolve minutes, with the result that, the hæemorrhage was arrested and wever recorred. Angust 12th. Electrolysis to 250 milliamperes, the negativo electrode heing in the ateris.

On this and suhsequent occacions the patient appeared less tolerant. August 15 th, to 250 milliamperes. Augast 18 th, to 300 milliamper res. August 22 nd, to 235 milliamperes. Aftcr the application on the 22nil, the pationt suffered from chilly feclings, thought she had taken cold, and had raised temperature, and vaginal discharge which bocomo more add more fretid. August 27 th , much pelric pain was noted. August 29 th, fcetoriacreasing ; cavity of uterns well donched, after which the temperature shot up to $103^{\circ}$. Between the last dste and Soptember 4th, \& largo sloughing mass was bloodlessly enucleated and extraded into the vagins. Saptember 5th. Mass removed by two applications of the icrascur, sad other small enucleations by fingers and scissors, from a bose which was found to be the left lateral wall of the nterus inverted. After the operstion the inverted left lateral wall tras manually replaced. Betweea the date of this operation snd the Sib, a recond bloodless enuclestion and extrusion was accomplished, and of a much larger mass, which tightly disfended the vagina, and was romoved by threa applicationn of the ecrasecur, and one or two twinting Iroccesses. On the second ovening after this operation the temperathte roso to $101^{\circ}$, but this waq quickly subdued by quinine, juticiotsly a lministcred by the watchfal and sccomplisherl house. physician, Dr. Burford. The douches were most thoroughly used erery thrde or four hoors, chlorioe water being the usuat one, whilst quinina wis freely given at each rise of temperature.

On September 15 th the patient was quito conralesget, the disrbarges scanty and without frotnr, the sound passing $2 \%$ inches, and no tamour beug percentible. From the commeaccoent of the olectrolysis to the date of convalesceaca there werc exactly 55 days. It is also well to observe that thos tetanoid condition into which the uterns was throwa by the electrical excitement on each occasion led 11s to anticipste necrosis and enucleation as possible and probable conthegencies, and, in rloing so, in draw attention to the extreme importancu of the galvanic current as a diagnostic agent in all solil tumours of uteriae constitution.

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## REPORTS OF SOCIETIES,

## PATHOLOGICAL SOCIETY OF LONDON.

Anneal General Merting.
Tuesiay, January 3rd, 1888.
Sir James Pagrt, Bart., F.R.S., F.R.O.S., President, in the Ohair. Elcction of Offects and Conncil.-Tho following gentlemen ware elected to form the Council and to act as officers of the Society during 188S:-President: Sir James Paget, Bart., D.C.L., LLD.D, F.R.S. Vice-Presidents! Thomas Henry Green, MI.D.; "J. Hughlings Jackson, M.D.i F.R.S.: Joscph Frank Payue, M.D.: Richard Douglas Powell, M.D. i Willism Morrant Baker; *Marcus Beck, MS. i SIr Joseph Lister, Bart., D.C.L., LL.D., F.R.S.; "Henty Morris, M. B. Treasuerer: Willism Cayley, M.D. Honorary Sectictaries: Sidneł Coupland, M.D.; Rickman John Godlee, M.S. Councit: "Charles Edward Beeror, ir.D.; Henry Radeliffe Crocker, M.D. ; David White Finlay, M.D.; James Kingston Fowler, M.D.; James Frederic Goodhast, M.D.; Walter Baugh Hadden, M.D.; *Edward Emanucl Klein, M.D., F.R.S.; *Stephen Msekenzie, M. D.; Joseph Arderne Ormerod, M.D.; *William Hale White, M.D.; *William Anderson; Anthony Alfred Bowlby; Heary Trenthato Butlin; * Victor Horsley, B.S., F.R.S. ; John Hammond Morgan ; *Beraard Pitts, M. B. ; *A. Quarry Silcock, M.D.; John Bland Sotton; Charters James Symonde, M. S.; Frederick Treves. (The gentlemen whose names are marked with sin asterisk (") were not on the Council or did not hold the same office during the precedion year.)

Angiomata of the Mouth and Tonguci-Mr. F. Treves made some remarks on three cascs; two affectiog the tongue were arterial angioma, an extremely rare condition. The first pationt was a strong, temperate man, aged 57 , who belonged to a'family of bleeders; he was liable to epistaxis about ten times a yesr until four years before he came puder observation, when the tonguo began to bleed; it bled fifty times in the four years. The tonguo presented several small, elerated, red growths, two as large as the half of a pea, others mere specks. The largest tumonr was quite clearly an arterial angioma. The growths disarpeared under the local application of chromic acid; the liability to epistaxis was then again noticed; Baumgarten bad noted smati, red elevations on the macous membrane of the nose in cases of rocurrent epistaxis. In the second and third cases the blecding from the mouth relieved an intolersble headache: : The second case was a married woman, aged 31 ; the tumour was first noticed in about the fifth month of pregnancy. Near the edge of the tongue, opposite the molar teeth, was a red, artorial sagioma; on aeveral occasions sha had bled freely from this tumour. and it was thought adrisable to romove it. Hæmorrbage in the wound was arrested by the actual cautery. The third patient was also a woman. The angioms lay behind the two right incisor teeth, snd was the size of a charry; it had appearel in the fourth month of pregnancy; it pulasted freoly: Hromorrhage, at first only on eatiog, had become considerable. The tumour was easily removed along with the right lateral incisor, the tumour being attachad to the dental periosteum. Such cases were not very uncommon.

Congenital Fatty Tumour.-Mr. Eve showed a specimen of congenital fatty tumour in a young child, aged 13. It lay between the layera of the sbdoninal musclos in the left hypochondrium ; it probably sprang from the fascia transversalis. Few cases of tminours between musenlar plaues had been recorded.-Mr. Rrokman Gonize was surprised to hear it aaid that lipomsta between maseular planes were very uncommon. He gave particulars of tro, one beneath the gluteus maximus, snd the other henesth the deltoid.
Subperitoncal Lipoma.-Mr. J. Hutchinson, jun., showel's spocimen of donble fatty hernia in the linea alba. One tumour was the size of a sorall apple, and lay in the subcutaneous fat, from which it was perfectly distinct, hoth in origin and appearance ; the apertare in the a ponenrosis throngh which it had passed was quite'small. Tho other tumonr was seated st the umbilicus ; both had sprung from the subperitoncal fat, sud in passing formards bad stretched the peritoneum, and in each caso had drawn a process of the latter membrane with them. $13 y$ a scries of specimens shown at the Pathological Society three years ago, Mr. Hutchinson had domonstrated the same tondency of fatty hernia in the fomoral and ioguinal canals to draw down peritoacal tuber, and bence to lead to the formstion of true hernia. Commonly these fatty hernise (derived from the subporitones] fat, ausl having no true sac) were mistakon for omontal hornix ; as a rule they were irreducible, and they wero curiously accompanied in some cases by abdominal pain, nausea, eto. Inetances in which the operative remoral of the fatty ontgrowths had been followed by complets
relief of the aymptoms had been recorded by König and Luicke. It was probable that traction on and nipping of small nerres in the periteneum produced theso symptoms.
Bone and Joint Discase.-Mr. Buasn Sutton exhibited some speci. mens of bene and joint disease. The first was the tibia and fibula of a herse which, three months before its death, was kicked by a herse on the inner side of the leg over the tibia. There mas a skin-wound as the result of the kick, which healed quickly and with trilling sup. puration. As soon as the round was healed the tibia began to enlarge, and continued to do so for three months. The herse suffered considerable pain, and, as tho csse seemed hepeless, it wss killed. The tibia was threa times larger thsn natural, and its exterior was roughened by small bony outgrowths. On section the outline of the original shaft could be defined, and outside this a large mass of new bone had been deposited, and surrounded the slender fibuls, though the new formation of bone was strictly limited to the tibis. The second specimen was a greatly enlsrged and softened femur of a monkey. In the centre of a longitudinal section, which was easily made with a knife, Tras the true shaft of the femur, spparently necrased, but embedded and closely adherent to new bone which surrounded it evenly on all sides. The adrentitious bone exceeded the shaft in size three times. The yew bone was ronghly limited above and below by the epiphysial line; bence, though the shaft was so thick, the condyles and head of the bone preserved their proper proportions. Both femora were affected, and one humerus; the remainder of the skeleton scemed normal. The tibis of the horse and the femur of the monkey were shown, because it seemed possible that they represented early stages of a rare condition, described in man as necrosis without suppuration-quiet necrosis. The third specimen was the elbow-joint of a lion tivelre years old, affected with osteo-arthritis. The cartilage bad in a great measara disappeared from the articular surfaces of the bone, , whilst at the edgee of the joint the cartilage was distinctly "lipped." The synovial membrane presented villous fringes of great length, and lodged in the recesses of the joint were those curious cartilaginous bedies so common in this affection in man. All the jeints of the fore limbs of thls lien were similarly sffected. The fourth specimen was a typical example of the condition to which the apt and expressive term "lipoma arborescens" was applied. The specimen cams from the shoulder-joint of an old man affected with osteo-arthritis, and all stages, from simple villous processes of the synorial membrane to pedunculated masses of fat, could be clearly recognised.-Dr. Norman Moore said that the separste lemon-seed masses and fringes were the only morbid changes present iu rheumatism, but abseut in joints containing uric acid.-Mr. Riceman Godlee asked if the epiphysial line in the monkey's bone was healthy. - Mr. W. Adams had never seen the fringes in trine gout, but he had seen them in the mixed form of rheumatic gout. -Mr. R. W. Parker had observed a similar condition of the tibia to that shown by Mr. Sutton in children; in all the cases there was central necrosis ; the condition was a general chronic osteitis of very long duration.-The President mentioned a case of osteitis folloming eight years after a severe blow on the tibia; the limb resembled the condition produced by osteitis deformans, but no other bones were affected. The bone bent, indicating thst there $r$ as a general osteitis. The condition was not uncommon in many animals. - Mr. Evs thought that in animals it Was generally due to periostitis, or was associated with arthritis. Mr. Sutton's case mas, he considered; an example of dry caries.-Mr. Sutton said that the epiphysial line was certainly enlarged, but there was no ricketty change in any other bone of the body. The epiphysisl line at the bead of the bone was not enlarged.
Carcinoma of the Obliterated Hypogastric Arteries and Umbilical Vein.-Dr. Hale White showed specimens from a patient who mas in Guy's Hospital for wasting, abdominal pain, vomiting, and constipation, and in whom some nodules cuuld daring life be felt in the rectus musclc. The patient gradually sank and died. The necropsy showed primary carcinoma of the pancreas, with nnmbers of sacondary hard masses just under the peritonem, some of which were the nodules which had been felt during life. But the point of chief interest was that the twe obliterated hypogastric arteries and the obliterated hspogastric vein were both converted into cords of hard secondary growth. This was uot due to spreading from veighbouring nedules. Dr. Hale White considered that this was a very interesting and rare examplo of secondary growths particularly affecting degene. rate stractures.

Tuberculosis of Shealh of Tendon.-Mr. Charters Symonds related the case of a young girl who came under treatment with a small growth of the sheath of the flexor tenden of the index fiager resem. bling a ganclion. The tumour was incised, and the girl completely
recovered. Similar growths occarred in the palms. He mentioned
two other cascs. He showed a microscopical specimen of the growth in the first case which presented a typical tubercular atructure.-Mr. F. Treves referred to the lit ratnre of the subject, and said that it would seem that fert cases terminated so faroursbly as Mr Symonds's.

Syringo.Myelia.-Mr. Quarri Silcock showed a specimen of syringo-myclia, and expressed the opinion that the formation of a tube-like cavity occupying the Fosterior colamns of the cord, and extending through a considerable length, might arise by the formation of a cavity in newly-formed connective tissue, which had developed in that region as a consequence of traumatism. The specimen csme from a guardsman aged 23, who had broken his neck by diriog into the Thames. The body of the fifth cervical vertebra had been crushed and somewhat displaced backwards, giring riss to a projection in the spinal canal, where the cord was much flattened. Sections of the cord at the level of the second cervical vertebra showed, even to the naked eje, an elongated slit-shaped cavity, lying immediately inside and parallel to the right posterior root. There was a general sclerosis of the cord; the disorgsnisation was most marked in the right posterior column, that is to say, in the neighbourhood of the cavity. The walls of the cavity were formed of finely reticalate connective tissue with abundant nucleation; there mas no lining membrane, and the inner surface mas ragged. The central canal had no connection with the cavity; from the connective tissue sround the latter, fibrous strsnds stretched into the posterior root of the central grey matter, and the neighbouring portion of the posterior column. At the level of the sixth vertebra the cavity was considerably smaller in size, but the structure of its walls was essentially the same. The carity ended helow in a msss of felted sclerotic tissue. Mr. Silcock said that a cavity of the nature and in the situation of this had been ascribed to the persistence of a portion of the cavity which in the embrso extended as a fissure between the posterior colnmns to the periphery of the cord. Hs thought, however, that this specimen illustrated a different class of cases in which a carity was formed in sclerotic tissue as a secondary phenomenon.
Pneumothorax in a Child.-Dr. Ormerod related a case of phthisical cavity leading to pneumothorax in a child six months old. The patient was admitted into St. Bartholomew's Hospital on account of ite marasmic condition. Dysparea came on suddenly, and the child died. The pneumothorax was connected with a cavity in the middle lobe of the right lube, the size of a marble. The lung was solidified by gray tubercle ; the brenchial glands rere enlarged, and contained tubercle bscilli. Dr. Douglas Powell had recorded a case of csvity in
the lngg in a child whether there was a very well defined.-Dr. Docglas Powell asked his case; the patient in that casa died of hæmoptysis. This csse mas reported to the Society (vol. xxve). -Dr. Norman Moore said that mas had reported a case ot phthisical cavity in a child, aged 11 m at Dr. Angel Moner had seen a cavity iu the left apex, the size of walnut, in a child aged three months; the child died of hæmoptysis. This was the only case in five hnndred necropsies of childrea under 10 years. - Dr. Onmerod said that the mather was said to be phthisical but there was no other phthisical history.
Living Spccimens.-Tir. Penrose (for Mr. Edmund Owey) : Lam. bar Hernia in the Track of a Lumbar Abscoss due to Spinal Caries. -Mr. W. K. Siblef : Symmetrical Lipomata.
Card Specimens.-Dr. Hale White: (1) Tubercular Ulceration of Tongue; (2) (for Dr. Beatan Rakp, of Trinidad): Intestine and Parasite from a Paticut Affected with Ankylostomum Duodenale.

## ROYAL ACADEMY OF MEDICINE IN IRELAND. Obstetrical Section.

Joun Rutherford Kirkratrice, F.K.Q.C.P., President, in the Chair.
Supurating Ovarian Cyst--Dr. Atthill showed a specimen of a suppurating ovariau cyst taken from a lady, aged 35, who enjoyed had a sealth till about tromont hs previonsly, when she got cold, and had a sharp attack of peritonitis. During this her medical attendant detected a tumonr in her abdomen. The tumour was found $t$, bo was pressed ; and on the largest of the cjsts being tapped, the tumous abdomens. He was thent difficulty through a small opraing in the
able uterus by a rather then surprised to fiodicle. A secondary to the one exhibited -was then discovered, which, ou being tapped, way found to contain pus. One interesting peint about this coptw, was shape, which was quite different from auything that he had seen. A second remarkable circumstance about the csse was that, notwithstand
ing this suppurating cyst, tho lady had apparcutly nothing whatever wrong with her, having perfectly recosercil from the puritonitis.
Phacental Cyst.-Dr. A. J. Honse exhibited a placental cyst from a paticat, aged $n S$, who was in the uinth month of her fourth pregannes. She complaned of intense pain in tho abdomen. On ceternal examinstiou ho was struck with the irregular appearanco of the ablomen, particularly at the left hypochondriso region, whero thero was a dis. tinct bulging of the uterus. On palpation it was impossiblo to dis. cover the suall parts of the foetus, the uterus felt so tenso and firm. On making a raginal examination ho fouud that ho could ouly reach the presentiug hearl by laying the paticnt on her back. The membranes wore tightly stretched over the head, and thero was no appearance of liquor amnii. Thinking that there was internal hæmorrhage, he was very cantions about rapturing membrencs; and as tho serosauguineons discharge was very slight, though it caused ber some auxiety, he stopped it by a small antiseptic plug in the vagina. She bad no labour pains until the next morning at eleven o'clock; when they canco on, and sho was delivered of a atill-born child. Immedistely after the expulsion of the phacenta, huge clots the size of the placenta wero expellel. She remained in a rery suxious state for a couple of hours in consequence of extreme loss of blood, although previous to her labour the loss of blood had boeu rery slight. On exa. nining tho placenta he found in the centre of it, close to the insertion of the cord, tho hugo cyst now exhibited, the weight of which, acting downwards like a suction pump, might, he thought, have becn the cause of the hamorrhage.-Dr. Miscan and Dr. Attumle took part in tho discussicn.
Uterine Ilvmorrhage of Fine F'ears' Standing, caused by an enlarged and Cystic Ovary: Removal of Ovary: Recovcry.-Dr. M'Slordir exhibited the following case of an enlarged and eystic orary. L. S., aged twenty-six, single, was admitted to the Samsritau Hospital 1or Women, Belfast, on July 27 th, 1887. A caretul examination of the uterns revealed nothing to account for the constant oozing of blood from tho os uteri. The right orary felt enlarged, aud there wiss tenderness upon pressure. Removal of one or both ovaries mas recommended as the auly means of effecting a cure. The nature of the operation haring been fully explained to the girl and her mother, they gave their consent. On August 2nd the right orary was removed. The bæmorrbage ccased in about ten dajs after tho operation, and the patient was now in the enjoyment of perfect boalth. -Dr. Macan baid the present case made him more willing to remove such ovaries than he wonld otherwise hare been. The difficulty was to connect pains or hæmorrhago absolutely with an enlarged ovary.Dr. Atthill said that, according to his experience, enlarged ovaries and orarian ejats were pot the cause of profuse menstruation, but rather the reverse. Why an ovary in such a condition as that now shown should have given rise to such profuse hremorrbage wss to him a mystery.-Dr. W. J. Surily said that, in the majority of cases ovarian tumoars did not lead to bemorrhage. The occurrence of hamorrlage depended partly on the nature of tho tumour and partly on its site. If it doveloped between the layers of the broad liganent it would give rise to hamorrhage from congestion. Tho present turrour was, he thought, an example of dropsy of the Graafian follicles. -Tbe Preadesnt teinarked that if the ovaries in their normal stato excited menstruation he did not seo why, when diseased and enlarged, they ahould not set up menorthagia. The removal of a diseased ovary would divert tho menstruation to the healthy ovary, and cause it to become normal.-Dr. M'Morvie replied.

P'udendal Hemalocilc.-Dr. Howse read a paper by Dr. Purefoy (who was unavidably absent) on pudendal henistocele, which was rarci by the afplication of coll. -The Presinest, Dr. Jasos, Dr. Macas, Dr. Lasie, add Dr. Atcuile, touk part in the discussion.

## Surgical Section.

A. II. Corlex, M.D., Ireaident, in the Chair.

The Presidoni's Adiress. - The Presidrat delivered an insugaral a duress onduing the history of surgery for the past fifty ycars.
Trephining in Brain Discuse- - Mr. J. Dallas Pratt read a paper on a case of mastoid disease with discharge of pus from the midull tar, in which ho had succeusfully trephined. The patient mado a fod rocovery. Tho discharge from the ear ceased, and the membrana hosled np ; tho desfness also disappeared. Mr. l'ratt drem altention t) the statistics, 13 cases having been operated on in this manner with only two leaths, or 84 per cent. of recoverica; whereas the uperation of googing, drilling, or otberwise openiag the mastoid cells produced a mortality of about 27 per cent. Of eight cases of which he know, in which no operation was done, not one had recovered. He advocated the perfurmance of this operation in cases of
prolonged otorrhee, whore mildor measures had failed, eveu when no bone diseaso was present.

Scrivus Brain Symplons folloneing Pycmia,-Mr. Mayse, of Longford, read a paper on serious brain symptonis following preeuia. A lady, aged 27 , had bcen dressing a wound ; 3 fuw daja a ftor her finger got sore, tho glands in the axilla becamo indlamed. Thesesymptoms prassed off, but after some days the throat got sore and an abscess formed in the tonsil, which was opened, when a quantity of pus escaped. Soon after this the parotid giand iallamed, suppurated, and burst into the external ear, through which pus freely escaped. After sitting at an open window in a draught, paralysis of the left side of the face set in, which was cured by counter-irritatiou and galvanism. She complaincd, after some days, of severe paiu in the right side of bead, and was very irritable. The vision of the right eye became inpaired; the pupil was contracted. She had a severe rigor, and paralysis of the right side of the face came on ; there was tingling of the left srm, sud sho dragged the left leg; the right pupil was dilated; she misap. plied words. For some days the symptoms became more marked. Mr. Fitzgibbon trephined the loft mastoid, but on removal of bone there was no sign of pus. For several days all the had symptoms appeared sggravated; the paralysis was well marked; the aphincters were paralysed. After some days the paralysis passed away, but was succeeded by noisy delirium, which continued for soperal weeks. Erentually health was restored. He ras unfarourable to the trephining of the mastoid, although the patient had had in early life otorrheea after scarlatina, but the discharge had not been present for years, and as during that time ahe had not been troubled with any brain symptoms, he saw no grounds for beliering that trephining the left mastoid woold benefit the case. All tho symptoms pointed to brain trouble on the right side, probably about the fissure of Rolando. -Mr. Henry Fitzgibbon regretted the want of notice of Mr. Mayne'a paper, or he would hare consulted bis notes of the case, as it wes the subject of a paper which be himself read before the Academy last session; but speaking from memory as to the condition of the patient at the time of the operation, he was satisfied the disease had originated from inflammatory action extending from the left mastoid region. It seemed to him that the lady had had otorrbcea more recently than Mir. Mayne mentioned. At any rate, her state appeared to Mr. Wheeler and himself to be nerfectly hopeless, except, as the only chanco of recovery, by giving relief to some pent-up intracranial matter. Althongh immediately after the operation her con. dition became worse, yet within fuur days he saw natter melliog up between the bone and the dura mater. Consequent on the discharge from the wound having ceased, and the patieut becoming Forse, he went down again, and having scraped away granulationo, a fresh gush of matter came from between the dura mater and the bone, with the result thst the pationt got relief and ultimately recovered. - Mr. BenNETT submitted that diagnosis should be carried forward to a greater degrco of certainty than was at present attained beforo adopting Mr. Pratt's rule, that the trephine should be applited in almost all cases of otorrhces where the discharge was maintained a considerable time, and did not yield to other mesns. The cascs that could be relieved were those of intracranial suppuration, but these occurred much more rarely than the implication of tho sinuses. Ho had investigated tro or three cases in which the path of fual intlammation proved to be along the auditery nerve to the base of the brain. -Mr. Myles produecd a skull upou which he had marked the points Mr. Wheoler, had laid down for trephining the mastoil, with the result that the trephine must hit the anterior edge of tha lateral sinus, and if the pus were located, not in the mastoid cells, but in the inucr ear, it was begond the bounds of anatomicsl possibility that the trepbine coold reach it.-Mr. Arthur Benson observel that, as regards Mr. I'satt's treatment by injections, all aural specialists had given up the uso of injections or washes in chronic oturrher 1 , and the dry method was almost entircly adopted-namely, insuflition or the use of dry powders. - Mr. Thomson said Mr. Mrayn's case raisch some interesting points. The lady scemed to be sufforing from left hemiplegia, and the trephining took place on tho loft mastoid process, or in that region. Mo wished to know from Mr. Whecler, who cousénted to tho operation, why, having regard to tho localisation of functions, that particular position was selected; and whether he considered that the removal of a piece of bone from the left mastoid region was calculated to inprope hemiplegia occurriug on the same side? It appeared from Mr. Henry Fitzgibbon's statement that no pus appearod until the fourth day, whon it was manifest There was nothing remarkable in that. If a piece of lone was removed and tho csse allowed to go on for four doys, unless the wound was strictly a ceptic, it was not an unlikely condition that there should bo pus. The symptoms produced by pressure were explained by the pus pent up in the wound
for a certain time. - Mr. Wireler remembered having examinod the patient's left ear, and there wss 30 aperture in tho upper part of her membraua tympani. Within a short time there had been a discharge from this ear which suddenly ceased, and aftor this serious symptoma supervenod. The lady bad facial paraly sis on the right side, which he attributed to the irritation of the centres of the seventh nerve, carried from the left side, as the centre of both nerves lay close togother. He agreed that trephining should not be nsed indiscriminately for the care of otorrhcea. There were cases which could be satisfactorily treated by other mesns. But in cases of prolonged discharge pressing through an opening in the membrane, the operation was indicated; as also in cases associsted with bone disesse, and where cerebral symptoms supervened from continued or snppressed discharge. In reply to Mr. Myles's criticism he had a skull containing the brsin, which he prodnced, illustratiag the operation of trephining on each aide. On one side he had pierced the sphenoidal lobe with a probe. On both sides the tympanum and mastoid cells were open. He had made a vertical section through the skull and brain, remoring on one side the cerebellum, showing the lateral sinus intact. - Mr. Franks said trephining in otorrhees, unless there were well marked intracranial symptoms, was unsurgical. He had'a skull himeelf which would show that, operating in the ssme place, the trephine would go into the middle of the lateral sinus.- Mr. Pratt, in reply, said he would undertake to trephine by Mr. Wheeler's method the skulls referred to by Mr. Myles and Mr. Franks withont going into the lateral sinus st all. It should he rememhered that the lateral sinus was not opened in any of the cases in which that method was adopted. -Mr. Maxne also replied.

## SOCIETY OF MEDTCAL OFFICERS OF HEALTH. Friday, December 16te, 1887.

Alfred Hill, M.D., President, in the Chair.
Contagion of Cancer. - Mr. Wynter Berth read a paper, in which he stated that he had beld the belief of the possihility of cancer contagion for many years. The experiments of Langenbeck and Sollin on dogs were detailed, and some remarkable instances of infection of the hnman subject by accidental inoculation. The author argued that the infection of hestithy parts by disease was a proof of contagion, so far, st lesst, as conceirued the grafting of disesse from part to part on the same body. The cancerons infection, often started from wounds. In a number of cases the close contact of healthy and cancerons persons had apparently spread the malady. $\Delta$ house, the history of which he was well acquainted with, had three canceroue tenants in succession. A stranger visiting frequently the last tenant contracted cancer, and the niece of this person also developed cancer. The cases of family infection were too numerous to be mere coincidences, whence the necessity of flying to some mysterious and remote influence descending through the generations, remaining lstent through the best years of life, transforming the cellular elements into corro: ive cankers, when the doctrioe of contagioo give a simple and intelligill le explanation.- In the discussion which followed, the President, Surgeon-Major Brack, Mr. Mackey, Drs. Saunders, Smee, ColLins, and Sykes took part, and the further discussion of the paper was adjourned to the next meeting.
Bucteriplogical. IVater Test.-Mir. Grstav Brischor read a paper on extension of time of culture in Dr. R. Koch's bacteriologicsl water test by partial sterilisstion, with specisl reference to the metropolitan water supply. The following conclusious were drawn: 1. No bacteriologioal water test can satisfy the demands of hygiene unless it is qualitative, distioguishing between harmless and pathogenic microphytes. No such test is at present known. 2. Merely numerical results without such distinction are entirely, unintelligible, unless the time and other conditions of culture of each test be specified. 3. A small portion oaly of the colonies capable of growing in gelatine peptone is indicated by three days culture. 4. The ratio of colonies thus indicated ly three days' culture to that of the total present appears to differ so widely in different samples that the numbers of colonies obtained from them cannot be compred with each other. 5. Instead of any such comparison, the changes taking place from time to time shonld be followed ap in each sample separately. 6. Extension of culture beyond three days increases the relis bility of the results. How far this holds good, and how far culture should bs ex. tended, we have at present not sufficient evidence to show. 7. The usefulness of reeults is probably still further increased by combination of extension of culture with storage in sterilised Hlasks for a certain time. S. As regards the control of the working of ssud filtratiou at waterworks, any bacteriological test to bo of practical atility shonld be repeated at intervals certainly not exceeding a fortnight. 9 . It is
desiratle for the parpose of such control to test the water entering and learing each filter. - The discussion was opened by the Paesideat, who was followed by Dr. Peroy Fraxkland, and will be coatinned at the next meeting.

## SUNDERLAND AND NORTH DURHAM MEDICAL SOCIETY

 Friday, December 16ti, 1887.
## G. B. Morgan, L. R.C.S.I., President, in the Chair.

New Hember. - Dr. J. Norie, Sunderland, was manimonsly elected.

Amputation of Thigh.-Dr. Squavce showed this case as interesting from the fact that he had not used the spray at the operation, contenting himself with thoroughly syringing the stump with solution of corrosive eublimate after the completion of the operation. The stump was completely healed on the nineteenth day, having only been dressed twice.

Tracheotomy.-Dr. Drinewater exhihited an old woman on whom he bad performed this operation nine years ago for obstruction in the larynx. Oa laryngoscopic examination no obstraction was seen in the glottis, but the moment the woman tried to in.pire through the natural air-passages, the glottis closed. She had wora a tube ever since the operation. There was a history of syphilis. - Messrs. Whitehotse and Robinson, Dr. Brany, and the Presidest, made some remarks on this case.
Carcinoma Uteri.-Dr. Welford showed a specimen of this disease, in which the morbid process had commeaced in the body of the uterus.
Sarcoma of Kidney : Nephrectomy. -The President read notes or this case, and exbibited the specimen. A man, aged 46, was admitted into Sunderland Infirmary on December 6th, 1887. He stated that he had suffered from great psin in the epigastric region for nine weeks, and that eighteeo months ago he had, on one occasion, noticed blood in the urine. $\Delta$ large tumour, of the size of a cocoa-nut, could be felt in the right lumbar region, globular, morable, of semi- solid feel, and painful on pressure. The urine was alkaline, and faintly albuminous, specific gravity 1008. Microscopical examiaation showed blood discs, a few pus corpuscles, and two or three multi-nucleated round cells, with renal epithelium. The tomonr was removed by median abdominal section. The patient never rallied from the operation. A section of the growth examined under the micrascope showed it to be a lympho-sarcoma. A small nodule of similar structure was found in the left kidney aftor death.

The Recent Additions to the Materia Medica.-Dr. Deiniwater. rearl a paper in which he described the action and uses of those drugs introduced within the last five or six years.-A discussion followed, in which the President, Messrs. Hopciood and Whirerocse, and Drs. Brady, Low, and Squaice took part.

Eye Diseases. - Dr. Low read a paper on the importance of diagnesis in relation to treatment of certain eye diseases, namely, keratitis, iritis, and glaucoma.

## birmingham and midland counties branch. <br> pathological and Clintcal Section.

Friday, November 2ढ̆te, 1887.
A. S. Underhill, M.D., in the Cbair.

Tubcrenlar Nodules on Iris.-Dr. Yousg shawed, for Mr. Eales, a lad, sged 14 years, in whom, on the iris of each eye, there werc several round, yellowish, vascular nodules projecting from the anterior surface, some on the body of the iris and others at the sngle of the anterior chamber. They had existed for eight or nine weeks, wero unaccompanied by psin, and attended with little or no inflummation, and did not yield to trestment. Mr. Eales considered them to be tabercular in nature.
Cchhalic Bruit.-Dr. Smon showed a girl aged 10 years, who presented a typical example of the cephalic bruit. This was best heard over the mastoid aud occipitsl protuberances, but was audible over the whole cranium. She was io excellent health, neither anremic nor evidencing cbronic hydrocephalus. The bruit was of sereral years's standing, was systolic in rhythm, snd only slightly modified by pressure oa the carotid artery.
Embolism of Rectinal Artery.-Dr. Suckusa showed a case of embolism of the central artery of the retina, occuring in a man suffering from mitral stenosis. The sight of the right eye was completely lost, and the usual ophthalmoscopic appearaces were present.

Lateral Curvature.-Mr. Dlorsison showed a girl, aged 13 years, with extreme rotary lateral curvature. The case illustrate 3 a fact well known to hospital surgeons in that district, that lateral curvature
*as not nacnmman ia the lower grades of society. Mr. M. I. FRERR revarkm en the [requencs with whleh ho mot lateral curvaturo
 quelcy of this cendition among the poor. - Mr. May aud Mr. Clay slan male some remarks.
suture of Fivelhe. Mr. Mastam showed a man, sged 30 , whose [istella ho hal suttrel for a couspound [racture last Christmas. The psidevi was atle to recuua lis occupation ss a porter carly in July, since which time he liad dono from twelvo to fourteen hours work overy day.

Tubrevter Tumour of Freast. - Dr. Honnes exbibited micro. scopiral sections of a tnmonr remored from the bresst of a miduleaged Fomsn. Instructare it was fonnd to be distinctly tubercalar. The paticut othermiso enjoged good health. The case mas admitted as scirrhae, sari cousidered as such at the time of operstion.

Pregarations of Sxtra-ulorine Pregnancies - Mr. Lawson Tait ex. bibitel s series of epecimens of extra-uterine pregoncy in all stages of its development froin the earliest known case of tubsl ruptore, which appareatly had occurred hetween the third and fourth week, up to a sestion of a cadarer at full term. The interest of these cases lay chiefly in the fact that they completely established the riew as to tho fathology of extra-ateriae pregnancy which Mr. Tait had first pub. liahol in 1873 : that all extra-uterive pregnancies were due to the impreguation of the fertilised ovum on the demuded wall of the Fallopian tube ; that tho tube was distended up to its bursting point, which generally was [rom the tenth to the thirteenth week. The condition of the subsequent pregnancy depended entirely upon the point st which that ropturu took p'ace. If the rupture was in to the peritoneal cavity then death took place from hemorrhage, and twelve of the specimens shown wero illu: trations of this. If, on the contrary, the hemorrhage took place into the carity of the hroad ligament, the beemorrhage was slight, sad tho premancy might go on to full term. Msur of these cases, howerer, dil not go to the full term ; the fortus died, and was thrown off by sumparation through the bladder, rectum, or into the vagina, or eadel in tho formation of a lithopedion. A fow well recognised ezamples of these were found in almost any maseum. The miaority of cases weat on with the child living to fall term, and could bo operated pron. Mr. Tait had operated seven times under sach circumstances. That the danger of ruptare into the peritonenm Was great was shown by the case of early rupture alluded to, where the patient was Fell at two o'clock in the afternoon, and was dead from h.emorrhage from a small point of rupture in the tube at nine oclock at night. In occasionsl instances, if rupture took place into the abdominal cavity, tho p!acenta was separated from the tabe and obtained new attachments. As one example he showed a prepara. tion from a patient in Nottiogham-to which town Mr. Tait was sadelealy summoned to ferform sbdominsl section on account of the condition of raptured tubal pregnancy provionsly recognised by Dis. IInater, Mazkie, and Brookhouse. He opened the abdomen, remored the fortus, the placenta, and stump of the tube, and tied the latier. As sonn as this was done the brisk hemorrhage ceased, and a part of tho placenta which had become implanted on intestine at the back of the uterns was removed, and the sites of it smeared over with aolid perchloride of iroa. The patient had made a perfect recovery.

## SHEFFIEI.D MEDICO-CHIRURGICAL SOCIETY. Taursday, December: 8th, 1887.

## 11. 12. Dz Bartoloset, M. D., President, in the Chair.

Spreading Cancer of the Ereast. - Mr. Coombe ohowed a specimen of extranterino fibroil, and read notes of the case. The patient, a woman, aged 43 , was admitted, under the care of Mr. Jackson, to tho infirmary on U,toher 11th, saffering from difused caocer of both breasts, together with the chest wall anil part of tha back. The total duraron of tho caso was about eleven Feeks, aod death took place from exhanstion and embarrasser breathing, due to the liardened and hypertrophied condition of the chest walls., Tho post. mortein showoll no implication of any of the internal organs; but a large nedanculated tnoion was fonad sttached to the fundos of the Bterus, which, had caused no eymptoms during life, and was not disgnosed.

Listocations of the Jleat of the Femur on to the Pubes.-Mr. Pye.SMITH relatad this case. The patient was a man, aged 56. Redoction was effucted, twenty-two houre after tho secident, by traction in the axis of tha limb in a alightly orer-eatended position, combined with rotation inwards.

TuURspay, Decesmer 22sb, 1887.
Thoracic Ancurysm,-Dr. Dysos showed a railway opring makr.
aged 33 , with thoracic aneurysm. Tho troatment whs absoluto rest in bod, and indide of potasium in increasing doses; he was now taking fiftecn grains threo times a day. The diet was the ordinary liberal diet of the iufimary, with mo special restrictions; great improvement in the size of the thmour had taked place.

I'leralysis of the Musculo-Spiral Nerve from Pressure during Sleip. -Dr. Sidsex Robei:ts introduced this patient, a garifeger, siged 30 . Ife went to bed on December 5 th in his usual health, but awoke the next morning with paralysis of tho extensors of the wrist, the long extensors of the fingers anl thumb, and the supinators, and a feeling of "pins and needles" in his left hand; the extansors of the eltow were not paralysed. The paralysis and mumbnesa had continaed, and tho thickest part of the left forcarm was now half an inch less in circumfercnce than the right. Dr. Roberts ststed that it was evicont lead poisoning was not the cause, and referred to the sbscace of symptoms of such a condition. There was no bistory or sign of any tranmatic lesion or violent contraction. Thero was some doubt as to its being rheumatic.

Miners' Nystagmus.-Dr. S. Roberts also introduced a patient, aged 25, who had worked in a coal- 1 it for seventeen yeara, but only for the last cighteen mouths had done "holeing," Forking on his sido. He complained of his eyes first ahout a month ago, but continued to work pp to a fortaight ago, when be wss compelled to desist. The oscillations were particularly marked in the left eye, and were vertical in direction; in the right the globe rotated round its sntero-posterior sxis. The fundus of both eyes appesred bealthy, except for the presance of a myopic crescent in the left efe, which was also amblyopic. - Remsrks were made by Mr. SNell, Mr. Jones, and Dr. Johnson.

Pneumonia occurring in Children.-Dr. Gwynne read this psper, in which he said thet paeumonia at the apex was by no means so common as some writers had asserted. He drew attention to tho prominence of head symptoms in these cases, sometimes at an esrly stage, puzzling the medical man as to whether he had to deal with a case of meningitis or not ; cough being hy no means a prominent symptom, and often being quite absent for dsys. He referred to the danger of collapse of lohules dae to whooping-congh and messles, and related the history of one of these cases of chronic paeumonia, the result of an attack of whooping-cough a year bofore. - The following joined in the discussion: Mr. Jeffreys, Dr. Dison, Mr. Jackson, Mr. Reckless, Dr. Martin, Mr. Panhair, Dr. S. Roberts, and the President.

## PLYMOUTH AND DEVONPORT MEDICAL SOCIETY. Mondar, December 12th, 1887.

 William Henry Pearse, M.D., in the Chair.Radical Cure of IIernia.-Mr. C. Bulteel read a report on seven successful casea of Spanton's operation for the radical cure of hernia, performed at the lioyal Albert llospital. He compared the operation favourably with Wood's, buth as to simplicity and results.

Diagnosis of Ťabes Mfesenterica from Starvation.-Dr. E. Merres road a paper on case of medico-legal interest, involving the differential diagnosis between tabes meseaterica and starvation from peglect.

Abdominal Section in Tubercular Peritonilis.-Mr. W. J. SQuArr. referred to a case of tuberenlar peritonitis that had been benefited by abdomiasl section, porformed through error in diagnosis.-Dr. BAMr. Ton re!ated a similar case with equally happy resalt.

Herpes.-Mr. W.J. Souane read a paper on herpes, belicring the eraption to occur frequently in persons of the goaty diathesis. - The President had noticed in India that herpes and ague altornated, the sgae disappearing ss the herpetic eroption developed.-Mr. C. But. TEEL instanced a case of abortive herpee on the forearm, followed by paia, cedems of krist, and symptoms of peripheral aeuritis.

Postponement of J'aper.- A paper on slcoholic and rhenmatic neuritis, by Dr. Bamptos, was postponed for lack of time.

Pseudo-glioma.-Mr. J. E. Square showed a case of pseudo. glioma.

Resorcin in Cancer, - Resorcin bas heen uced with excellentresults in the trestment of cancerous growths on the face, in the ferm of an ointment containing equal quantities of resorcin and vaseline. This mixture is applied firat ; an ointment containing 20 grammes of resorcin and 30 grammes of vaseline is then applied. The ointment forme eschars on the surface of tho growth. These eachars fall olf when pare or iodoform vaseline is applied ; fleshy granulations subsequently spear, and healthy cicatrisation rapidly follows.

## REVIEWS AND NOTICES

A System of Gynecology by American Authors. Edited by Matteew D. Mann, A.M., M.D., Professor of Obstetrics and Gynacelogy in the Medical Department of the University of Buffalo, New York. Volume 1. Illustrated with 3 Coleured Plates and 201 Engravings on Wood. Edinbargh : Young J. Pentland.

## (Second Notice.)

A generat review of the first volume of the System will be found in the Journal of December 3rd, page 1219, together with rome notice of the anatomical and teratological articles which it contains. A brief criticism will now be given of the remaining papers in the volume.

Dr. Egbert Grandin writes on "Gynrecological Diagnosis," in an article of value to the specislist, but of little service to general surgeons or practitioners, and usaless to the student. The copious illustrations of instruments are a commeadsble feature in this article, for what is mentioned in the text ought to be represented by art, even at the risk of causing a book to assume the appearance of a dealer's catalogue. The advisability of describing a multitude of specula and renacula is quite another question. Dr. E. C. Dudley, of Chicago, contributes "General Considerations of Gyoæcological Surgery." His advocacy at pages 328 to 332 of "not æsthetic, hut surgical cleanliness," is praiseworthy; we fear that ferw specislists live up to his idea. The observations on the clesnliness of lnbricating substances used in the consulting room and operating theatre may profitably be read by avery hospital physician and general practitioner. In the paragraph on materials for sutures, no mention is made of silkworm gut, now so largely employed. Dr. Alexander Skene's "Geacral Therspeutics" will prove useful to the practitioner. We should have liked to have found more abont ergot, especially some discussion of its action in combination with iron, as distinguisbed from its effects when taken alone: That some iron salts may destroy or neutralise ergotio in solutions, there can bs little, if any, doubt.
"Electricity in Gynæcology" is the name of a paper by Dr. Rockwell, who is known as the anthor, conjointly with Dr. Beard, of a work on Medical and Surgical Elcetricity. He writes temperstely on his subject. His summary of the experience of Arostoli and Englemann is honestly expressed; these specislists, Dr. Rockwell states, "have treated a large number of cases, and clain most excellent results. Although the tumour is not made to disappaar, in every case growth has been arrested, and, in many instances, the size of the tnmour markedly diminished." Dr. Gill Wylie writes on "Menstruation and its Disorders." The paragraphs on amsuorrhœs are satisfactory; we are glad to see that no operation for its cure is mentioned. The important subject of vicarious menstruation is insufficiently discussed, without any notice of the sources of fallacy in diagnosis indicated by Dr. Matthews Duncan and others. Dr. Wylie, in speaking of dysmenorrhœe, gives a clear demonstration of his own treatment by dilatation with Sims's instrument, and the application of pure carbolic acid and iodoforin to the uterias cavity, the cervix bsing guarded by a special "protector." Dr. Reeves Jackson's "Sterility" is an excellant article, highly valusble fer reference at least; but we deplore his open defence of artificial impregnation, and his quotation of Dr. Eustaches bophisms, expressed in language recalling the worst type of ethical pedantry in vogue ninety jears ago. The "morality and religion" which, according to Dr. Eustache, do not condama the practice in question are the homologues of the religion which advocated inquisitions, and the morality which considered the judicisl murder of political enemies as consistent with abstract declarations of liberty.

The editer, Dr. MIANN, contributes a sound and readable treatise on "Diseases of the Vulva." Under "lupus," Dr. Matthews Duncan's and Mr. Hutchinsen's opinions are duly considered. The term "kraurosis vulve," now frequent in gynæcological literature, should have been noted and explained. Dr. Mann carefully distinguishes between abscess of Cowper's duct and abscess of Cowpar's gland, and speaks of the gonococcus. He might have further mentioned the researches of Dr. Bumm and others, which scem to show that, when the gonoceccus alone invades Cowper's gland, its epithelium is destroyed, and the gland undergoes cystic degeneration; whilst, when a septic germ follows the specific germ, suppuration repidly occurs. Dr. Thaddeas Reamy writcs on "Suhinvolation of the Uterus and Vagina." He summarises tho opinions of authorities rery clearly. The subinvolution of the vagina is, in reality, the same condition described by Hart and Barbour where the increased mobility of the anterior polvic
viecera, natural during pregnancy, is said to continue after childbirth through well-known reasoas, and favoars every form of prolapse.
In preparing tha three monographs on Inflammation in and around the Uterus and on Pelvic Hæmatocele, the suthors havo had to con. tend with great difficulties. Dr. Chauncey Palmer writes on "The Inflammatory Affections of the Uterus." We are glad to find that at page 543, in describing acute endometritis, he does not speak of the cervix being tender. There are very few conditions in which that part of the uterus is highly sensitive to touch. Endometritis remains far too much a literary rather thar a clinical or pathological disease. The headaches and hysteria, given by Dr. Palmer as aymptoms of chronir general andometritis, would be attribated, by other writers, to tubal disease, and by others to perimetritis. When Dr. Pala;er discusses more targible questions, he writes well, as in his paragraphs on erosion of the cervix.

Dr. Richard Maury, in writing on "Peri-uterine Inflammation," has had to deal with questions a little less vague than thoss included in Dr. Chauncey Palmer's task. Dr. Maury begins woll with general pathological and anatomical observations. Further on, however, we do not find good and distinct summaries of the important doctrinea of Courty, Beruutz, Gaillard Thomas, Matthews Duncan, and Gućria.
The intricate details of their several doctrines are mired the intricate details of their several doctrines are mixed up in the adéno-phlegmon juxta-pubien is frequently mentioned in Guérin's literature, yet it is only indiractly indicated, and not named, as page 709 -an oversight in a book of reference. Dr. Maury takes care to note the impertant differences of opinion as to the spreading of parenchymatous inflammation to the peritoneum, and the reverse condition. The concluding paper, "Pelvic Hæmatocels and IIæmatoms," by Dr. Van de Warker, is written well up to date, especially the paseages on surgical interference.
The index is
The index is so complete that the ralue of the System is thereby greatly iocreasad; and, on the other hand, the critic is eaabled to find out omissions in the text.

## REPORTS AND ANALYSES <br> DESCRIPTIONS OF <br> OF NEW INVENT <br> IN MEDICINE, SURGERY; DIETETICS, AND THE <br> ALLIED SCIESTES. <br> LANOLIN ANHYDRICUM (LTEBREICH): LANOLIN <br> PURISSIDIUM (LIEBREICH).

Wr have received from Messrs. Burroughs, Wellcome and Co., Snow Hill Buildings, two specimens oi Ligbreich's lanolin, anhydrons, and pure lanolin, which are such an improvement of this basis as first brought out that they are well worthy of report. The lanolin anhydricum (Ligbreich) is, we believe, now preferred by der-
matologists in the treatment of cutaneous affection moist surfaces, and is perfectly adapted for the application of media ments to mucous surfaces, such as those of the nares, month medicaragina, or anus. It has also special and unequalled advantages for the purposs of employing liquids in the form ot ointments. The anhydrous aud pure lanolins of Liebreich now forwarded to as are of a light creamy tint, odourless, and very slightly adhesire, so that certaiu objections which belonged to the earlier forms of this new and In the making of ointments, lanolin should be used with a dilnent, and the graat miscibility of this keratine fat with all medicaments and liquids gives it a unique place as an unguent base. Its peculiar-features are its purity, antiseptic quallty, and the fact that it does not become rancil or harbenr germs. In this new form lanolin comes very near to perfection in those qualities of an unguent basis that are claimed for it.
TITE INVALID BED ATTACHMENT (GOODWIN'S PATENT).
Tue invalid bed attachment invented by Mr. Goodwin is a contrivance for contributing to the comfort and facilitatiug the nursing of cases of sevaro or chronic illiness. The pationt rests ujpon a canvas sheat attached to an oblong iron frame, the length and breadth of an ordinary singls bedstead. When it is desired to move the patient,
this iron frame is attached to ropes depending from a zontal beam which projects across the bed; the beam is attached to a strong vertical support, which rests ou a hcavy foot placed ander the bed at one side. By turning one of four crauks the patient may be placed in any desired position, his head or feet can be raised or
lowered, he can be turned on one side, he esn be liftod off the bed in tha canvas sheot, which thon cas be adapted to serve either as a "lonoging chair" or a hammock; sll these movementa the nurso can etfect with iho grestest ense to herself and without putting the patient to any excrtion ; all the movements also may be performed so slomly and gradually as to be slmost impercoptible. When the pastient has beer raisod from the bed, the apparatns can be rotated so that he can bo ewng off the bed while it is being made snd aired, and can be brought to a window if ong bo near at hand. When not in nse the beaun can be removed, and the upright unstopped so that only the foot remains, and as it is mostly under the bed, it does not obtrnde upon the ero either of the patient or bis sttendants. The contrivance is simple in use, and can be worked withont difficulty after a few minutes practice; it is stated that tho mechsnism is not liable to get out of order. The spparatus, which is sold at a modersto price, may be secn aud tested at 66, Ludgato Hill, E.C. ${ }^{2}$
mules's "Artificial vitreous inserter."
Tris iutruneat is uselt in conjanction with Dr. Males's oviscerstion scoop, for the operstion of introlucing sn artificisl vitreous; it is designed to facilitate the operation of introducing glass globes into the carity of the evisce. rated sclerotic. Hitherto the insertion of theso glabes has been a troublesome festure in the operation, necessitating the use of four psirs of forceps by three people, to hold open the flaccid sclera snd introduce the globe. One hand of the operator now sutfices, ss the end of the instrument psssed into the cavity is opened by the domnward push of the piston acting on the glass globe, the rightsagled points catch and hold the edges, whilst the globe itself dilates the opening ad maximum, and drops in ; should the aperture be insufficient to sdmit the globe, it should be cnlarged under pressure by nicking its edge. The appearsnce of the instrument so obviously speaks for itself, that further explanation is unnecessary, except that to introduce the sphere within the cage, the pusher is pressed dorn until the curved ends of the springs are sufficiently wide apart; they are then placed over tho globe, and with a littla
pross ire the : phere jumpr into tho cago. The instrument is msde by A matrong Brotheis, Fesnsgate, Manchuster.

PINUL (IUURROUGHS).
"1'inol" is the name sdopted by Mesers. Burroaghs, Wellcoma, and Co., of Sacw IIill Buildings, for the pure essence or volatile oil obtained by distillation of the necdles of Pinus Pumilio. The medicinal properties of this oil have been shown to depead in large measare u uron the altitude at which the trecs containing it grow. The oil derived from trees abore the lino of perpetusl snow in tho Alps is rucb snp rior to that darived from trees growing st lower altitudes. Messrs. Burrough and Wellcome certify that their pinol is derived solely Crom trees growing above the snow line.
Pinol has not as yet been extensively emplosed in England, but the value of "pino troatmcan" (that is, the treat ment hy the products of
tbe Pinua Punilio in some form or other) has long been tocognised tbe Pinua Pumilio in some form or other) has long heen rocognised

[^5]on the Continout. It is there emploged, and with considersble snccess, in a varioty of diseases of the respiratory orgsns, ss woll as in rheumatism and gout.
The Ext. Piuus Pumilio (Burroughs) consists of the filtered residunm left in tho still sfter the distillation of pinol. This is for external spplication ouly. $\Lambda$ warm bath contsiuing this extract is stated to bo very beve ficial in thoronghly cleansing the skin, sud greatly to facilitste the sbsorptiou of pinel subsequently spplied. It may also be masde into ointunent, liniment, or plaster, directions for msking which Mcssrs. Burroughs and Wellcome send with each package.

## GALE'S OBSTETRIC CONES.

SINCE the local anasthetic propertics of cucaine have been discovered, smoug the msny purposes for which it has been applied is that of rolieving the earlier labour pains by painting with it the os nteri in primipare, or when the os is rigid; but in order to do this adequately the use of a speculum is necesssry. The obstetric cones made by Gale and Co., 15, Boavcrie Street, do away with this difficulty. They are hollow, made to fit the index finger, and can thus be very readily spplied to the part desircd. They are made with one, two, or three grains of cucaine, the excipient being oil of theobroma, snd they also contsin throe grains of boric scid. The excipient itself scts as a lubricator to the parts. Therapeutically they fulfil their purpose very well, snd from a pharmaccutical point of view they scem to be in. capable of further improvement.

## "THE LEICESTER" ADHESIVE PLASTER.

Turs is made by A. de St. Dalmas, of Leicester, ond is a strspping of a very servicesble kind. The plaster is spread upon stout hollsnd in rolls of six yssds in length, and of the very convenient bresdth of about nine inches. If kept in a fairly cool place the lagers of the roll do not adhere together. It has great suhesive power, but in spite of this it can be easily removed when required. It contsins no resin, and altogether it fulfils all the requirements needed in "strapping" either for hospital or general use.

## SACCEARIN.

Dr. Leslie Parlifpg writes': A sample of this supplied me by a firm of chemists has a strong smell of chlorine, while an alkaline solution of the asme sample has a distinct odour of essential oil of almonds, the artilicial variets of which flavouring aubstance is, like saccharin, n conl tar product. A patient for when 1 ordcred an elixir of saccharin with sooium bicarhonate to aweeten tea invariably vomited after takint tea so sweetened, sud she stated that it was the after taste, of an iron-like nature, which seewed to excite the nausea and vomiting.
*** A sample of sacchario now hefore us has certainly no odonr of chlorinc. It hes in odour suggestive of essentlal oil of bitter almonds, which prsctically disappears on the addition of an alkaline solution (for exnmple, of bicarbonate of sodium). A solution of it leaves a persiatent after-taste, but this does not resomble iron. We may point out thst M. Maunene, in the Chemical Reporter, Janaary 23 rd , 1887, pointed out that a asmple oxamined by him was not homogeneous. Recent chemical experimenta with varions specimesa bave led to somewhat diacordant results, and seem to pulat to variation in the composition of the specimens of sacchario examined. It seems very probsble that saccharin $2 s$ now ia the market may vary considerably; but it ia to be hoped that thita variation may speedily cease, as it should in the case of a subatance atated to be of a definita chemical nature.

## FECAL LODGMENTS.

Dr. Ward Cousisg (Senior Sorgeou to the Royal Portsmouth Hospital) writea: In the Jounnal of December 2tih, Dr. Alexander Duka deacribes a novel contrivance which he has dosigned for the treatment of impacted faces in the lower howel. Dy the sid of this ingeoious instrument the operator can boldly penetrate the hardened mass, atul then inject into the rectum above it a continuous 8 tream of find, so thst, after a soaking aud softeoing froceas, the accummulstion can be readily broken up and finally wished away.
always prove a very unplensant surgical necesity operation of this kind must always prove a very unplensant surgical Decessity, but I caonot see bow any method of tunnelling the fiecal plug can asve the patient a "vast amount of pain, or $r$ nder the removal of the lodgment less, disagrecable to the surgeon. linang case of fecal accummulation-nfter the failure of the usnal oil injectiuns and large enemata-it is my practice to atminister an onresthetic to the patient, and, with the ingers well protected with soat p , to dilate the ansl orifice justas in ordinary rectal operations. The manlpulation soon athmulatea coniraction, and learis to the expalainn of the inpucted mass. Sometimes the recapo of tho lodguiont may he hastence by the ose of a apoon. In thla way I removed not long alnce a thrce-ounce glass hot tle from the lower bowel.

NEW VAGINAL SPECULU3t.
Mfasks. Evans and Wonmulf, with reference in Messrs. Amold's statement In the Journal of December 24th, deny that the apeculunt described by Dr. Floyer in the Jouanal of November j9th in any way resemblea Messra, Arnold's. Dr. Floyer deslgned his ajeculun with a view to fta belng easily and quickly taken apart, so that it can be thoroughly cleaned ; and his ides is well earried ont, D mowal which the wonsists of two blades uniked by a side berew, no the removal of which the whole falls apart; while the cne referred to is regulated by it acrew at the bottom, and is ao coustructed that only a mechaniciso can take it apart or pot it together agsin.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscriprions to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Aasociation not belonging to Branches "are requested to forward their remittances to the General Secretary, 429, Strand, London. Post-office orders ahould be made payable at the West Central District Ofice, High Helborn.

## (The Britísi) Alerical jourmal.

SATURDAY, JANUARY 7th, I888.

## TREATMENT OF PSORIASIS BY LODIDE OF POTASSIUM.

The Norwegian physicians, Dr. Greve and Dr. C. Boeck, have recommended large doses of iodide of potassium for the cure of psoriasis. Dr. Hsslund has given this treatment an exhaustive trial in the Commune Hospital in Copenhagen, and in an article in the Viertelj. $f$. Derm. u. Syphilis, 1887, 3 Heft, confirms the statements of these physiciaas. A very remarkable fact astablished by Dr. Hasiund's experiments is that iodide of potassium can be tolerated in much larger doses than had been previonsly imagined. He gave the drug in many cases in doses that must be considered enormons. In the case of one man he went so far as to give 50 grammes in a day, and in a number of cases he gave 30 and even 40 grammes a day.
It would appess from a tabulated statement in the paper that in forty cases a complete cure of the psoriasis was attained, whilst in four others there was considerable improvement. In aix casea no benefit followed. No reason could be detected for failure in these six cases. Of the forty casea which were cured, twentyfour were men, three women, and thirtesc children under 15. Most of the cases were chronic, but five of them were acute and recent. The duration of treatment varied from seventenn days to eleven weeks. In the cases of the men the average time was five weoks; in the case日 of the three women six, ten, and eleven weeks respectively. In the cases of the children the time was from five weeks to fifteen, the average being nine to ten weeks. Taking no acconnt of six cases in which the average of treatment waa only aevanteen to twenty-five days, the average of all the other cured cases was slightly over seven weeks. In sll the aix cases in which a cure was вo quickly attained, the eruption was chronic and almoat universal.
The disease began to subsido in some patients when the daily dose had resched from 7 to $8 . \mathrm{g}^{2} \mathrm{gmmes}$, in some 10 grammes, but in most of them in larger doses ; in others, only when 20 or 30 grammes daily were given, and in one patient a cure did not begin to show itself until the daily dose was 35 grammes. The total quantity required for a cure varied in men from 160 to 1,390 grammes, in women from 520 to 1,328 grammes ; and in tho children from 277 to 1,520 grammes. In most of the cases, after the disease once began to disappear, only a short time elapsed until the akin became quite smooth.

Dr. Haslund brgins treatmont with comparatively moderate doses, but rapidly increases them. It is remarkable that in all the cases slight signs of iodiam were observed only in ten, but in none of these was it necessary to suspend the care, although the doses were in consequence increased more slowly. With the larger doses there was, in seren cases, disturbance of the digestion, which cessed on the dose
heing diminished to one-half for a few daya, it heing wery aeldom necessary to auspend the iodide altogether. In two cases patients snfferea from headache and giddiness ; in one patient the pulae was for one day irregular ; in two cases there was alight albuminuria, which continned eight days in one, and in the other only for a single day, bat it was not found necessary to suspend the iodide.
In one case the symptoms of iodism were severe, indications of: paralysis of the hesrt having become threatening without heing' actually dangerous. In most of the cases there was not a trace of iodiam observed, in spite of the extraordinary doses which were given. Extraordinary indeed the dose must he considered when a girl of 14 years of age took 40 grammes a day, and a girl of 9 years of age had 35 grammes. In two cases it was impossible to continue the iodide on account of idiosyncrasy. A woman, 30 yesrs of age, after one doas presented an appearance resembling that of erysipelas of the whole face, snd in her case toleration could not be established. One man, even with very small doses, was so violently affected with headache, sickness, salivation, lachrymation, angina, sinking, and diarrhee, that the treatment had to be given up.
In three cases the blood was examined during the treatment, and it was found that the number, size, and form of the blood corpuscles were not altered.
Dr. Haalund considers himself justified, after these experiments, in considering that we possess in iodide of potassium, given in large ${ }^{\text {? }}$ doses, a remedy which can with considerable certainty be relied on to cere an attack of psoriasis, and further that at the present time $r$ re know of no remedy which, taken inwardly, can cure it in so short a time. He doss not believe that it will prevent relapses, bat recommends that iodide should be given for some time after a cure has been obtained.
The most atriking apparent effect of the large doses was the quickening of the pulse, which, after ten to fonrteen days of treatment, usually reached 100 , and then went slowly up to 130 per minute.

The urine was systematically examined in the cases of four persons in order to determine whether the iodide of potassium increased or diminished the quantity of urez. From these exsminations it appears that iodide of potassium, even when given in very large doses, has no effect on the excretion of urea. The amount of urine quickly increased or diminished in proportion as the dose wrs raised or lessened.
The alleged porver of iodide of potassium to diminish fat and lead to ahrinking of the glandular tissues was not confirmed. In those persons who suffered, not only from paoriasis, but from chronic swellings of the glands, the glandular swellings remained at the end of the cure unchanged. With reference to the supposed atrophic effect which the drug is thonght to have on the testes, ovaries, and mamme, Dr. Haslund states that in the female patients to whom large doses were given no diminution in the size of the mamme was observed; on the contrary, in those of them whe increased in weight during the cure the mammæ became larger. In regard to the ovaries, no examination was made, but he assured himself that in the male patients the testea underwent no change.

Cases of catarrh of the respiratory organs and of the conjunctive were ferw, and in these so slight that no regard was paid to then ; when they were present it was usually at the heginning of the cure. Bronchitia was never produced. The perspiration was either not increased, or so little that the incresse was not observed. In only a

Sew pationts was the saliva iccreased, aud that only temporarily. In one, however, there was decidod alivation.
Those manbers of the profession whose atudies an I dutiea lead then to be specially interested in the action of drags, wiil do well to givo careful altoation to Dr. Ilesluad's paper. Perhaps it is not cut of place to remind those who might bo lod to repent Dr. Hasluad'a ex. periments that his patients wero under closo observation in hospital daring the whole period of treatment, and that it is only where constant watchfolness and care can be secured that it can be desirable in the meanwhile ta imitate Dr. Ilasland's treatmeut by these heroic iloses.

## CREMATION.

Sir Heviry Thompson may bo justly regarded as the pioneer of the movement in this country in favoar of cremation as a mesns of disposing of the dead without subsequent injury to the living. The famons paper in which ho discussed the subject in 1874 in the Cinlemporary Reriew awoks actire discussion, and created a considerable force of pablic opinion in farour of arn-burial. This ancient procedure, old enough to bo a novelty in our civilisation, has had to eacounter many prejadicea, and all that opposition which arose from centuries of habitual use of inhumation. The controversy which arose ont of Sir Henry Thompson's paper did not, howerer, end in mere words. Simultaneously with the practical efforts to bring cromation to experimental test in other conntries, a small Society was established hore, of which Sir Henry Thompson, Sir T. Spencer Wells, and Mr. Ernest Hart, were the modical members of Council. This Society, known as the Cremation Society of England, took the necessary oteps for erecting a crematoriom at Woking, under tho direc. tion of Mr. Eassis, C.E. It has its offices at 11, Argyll Strect, W. It has ever since quietly pursued its way without attempting to force the growth of public opinion, and contents itself with offering to those who desire it the means of cremation, condacted under strict precautions and in an effective and innoxious manner. Writing in the Ninetecnth Century, which is now editod by the gentleman who originally condacted the Contcmporary Revicu, Sir Henry Thompson reviews the progresa made, and combats some of the oljections which have been arged to cremation, while arging anow the argaments in ts favour. He explains the etate of the law, which, as laid down by Sir Fitzjamee Stephen, permits cremation, and contrasts it with the earlier dicta of Sir Richard Cross when Secretary of State, who formally announced to the Cremation Society that he woold oppose their proceodings. Sir Heary Thompson points out that the existing atate of the low in regpect to cremation doea not aufficiently provide for the pablic safety, and he descrites the carcful provisions by which his Society feaces round tho performance of urn-burial with a view to obriate tho medico-logal objections which havo more than once bcen urged against cremation as a possible means of concesling crime.

Sir Spencer Wella and Mr. Frederic Harrison have so recently preceded Sir Henry Thompson in their reiteration of the arguments in favour of cremstion from the point of view of pablic health and social convenience, that we need not here recapitulate Sir Henry Thompson's logical, vigorons, and effective pleading under these beads. Ilis paper shonld be read from beginning to cad ly everyone who wishes to know all that can be said in farour of cremation and how the objectione sometimes nrged agaiest it can be aderuately met.

The crematorimen a: Wicking is io effuctive operation, and daring the past gear sixleen cremations havo taken placo there, Cremation
is effected at a small cost, and under rigorons restrictions as to certif. catea and post-mortem examinationo, far more effectire than those which are at present applied to ordinary interment. It would be premature to attempt to predict what the future of this mole of disposal of the deal may bo in this country; but it is certain that the theological and juridical objections which have been urged againat it haro to a large extent melted oway in face of the practical an! carofully measured proceedingg of the Cremation Socicty.
It has, within a short space of time, established itaelf as a reaeonable, practical, and bealthy method of disposal of the dead which is compatible with the deepest religious sentiment, and which is capable of being bronght within all the requirements of public safety. It is a great thing to have effected so much in so brief a space of time in favour of a prosedure which at the outset was met by a riolent storm of oppostion, and which was alleged to outrage pullic sentiment. Bishops and archbishops, statesmen, philosophers, and sonitarians representative of most influential bodies, have prononaced in favour of it. The energy and publio spirit of a small number of persons have placed at the disposal of the public the means of giring effect to any opinion which exists in favonr of cremation, and thero can be no doubt that the preaent essay by Sir Henry Thompson will do much to forward tho further growth of a movement which has alroady mado great progresa.

## THE REGISTRATION OF PLUMBERS.

Tre Plumbers' Company has done and continues to do most excellent. aervice to the public, to the cause of pablic health aud sanitary acience, as well as to tho trade which they represent, by the jusicions and well. conceived liherality of epirit in which they hare made provision for the education, examination, and registration of qualifed plumbera. The schemo which they hare adopted las been thought out at the instance of a great conference with the leading members of the plumbing trade, beld at the International Health Exhibition, South Kensington, orez which Mr. Shaw, the then Master of the Plumbers' Company, ably presided. This scheme in its main features is based on the wellknown precedenta by which medical men, pharmaceutical chemists, dentists, and reterinary surgeons havo organised their respective bodies ; so as, on the onc hand, to exclude incompetence and false protence; and, on the other, to provido for a reasomablo system of examination and registration, with scientific assistance, guided and controlled by a full representation of all interests. The scheme of the Plumbers' Comprany, after being thoroughly discuased in the trade. itself, and in a number of great towns, and after boing submitted to the leading medical and sanitary authorities, has met with what may be fairly described as unanimous approval ; and, in the interesta of public health, we are pleased to see that, in the large towns where it has been awhmitted to criticism, it has been heartily accepted.

One of its great merits is that it allows of a remarkable freedom of local development. Its system of local boards and local examinations, actiog in unison with tho central body, permits locsl activity, while it provides aa adeguato uniform method. It excludes those clements of confusion, deception, a ad jobbery, to which any merely local effort may easily leat; the standing of the company, ita representative character, and the sanction given by the presence of men of tho highest scientific standing aad integrity, furnish the cloment of security and confidence which the public, the medical profession, snd the trale aliko, know to be essential to succesa

We see, with some regret, that a distinct society has heen starfed in Edinbargh which, while adopting many forms and regula. tions of the Plumbers' Company, appears altogether to have missed the spirit in which these regulations are devised, and to have been framed under conditions which not only do not afford the necessary guarantees of success to the trade, bat which contain many elementa having a very undesirable suggestion. It is obvious that any self. appointed council limiting its nominces by its own will, unconnected with the central hody, which has the sanction of great public authorities, and of important scientific co-operation, may easily hecome the means of ahuse, and cannot expect to deserve or to retain the conf. dence either of the plambers or of the medical profession or to succeed with the public.
The object is not and should not be to afford to any small number of gentlemen, creating themselves as a Council, a monopoly by which outsiders could be exclnded and a select ferw favoured. What is needed is to provide adequate means of examination and registration, and then to leave to the nedical profession, to architects, and to the public the right to select their own plumbers from among those who have shown that they are capable of satisfying the necessary tests of efficiency. Any narrow creation of independent local councils, which shall frame their own lists, and select their own members, would totally fail in the object in view. What is wanted is unity throughout the whole kingdom, jnst representation, the creation of a register for the three kingdoms, and the formation of a class of registered plumbers who shall have fnlfilled the necessary minimum tests, of which the trade and the medical professiou approve. This is amply provided for in the scheme of the Plambers' Company, while on the other hand, the scheme proposed by the local association to which we refer appears to us at once inadequate and invidions.
We carnestly hope that the faronrable indications of unanimons and conjoint action of the plumbing trade in support of the excellent movement of the Plumbers' Company will continue to meet with uninterrupted success, and that no local attempts to create imperfect local monopolies will meet with countenance.

A meeting of Convocation of the University of London will be held on Tuesday, Jannary 17 th.

The programme of the annoal meetiug of the British Medical Association, to be held at Glasgow on August 7th, 8th, 9th, and 10th, is now complete, and will be found at page 38.

Dr. C. J. Cellingworth, Professor of Obstetrics and Gybrocology in Owens College, and Physician to St. Mary's Hospital, Manchoster, has heen appointed Obstetric Physician to St. Thomas's Hospital.

The Countess of Dufforin's Jubilee Fund, for the supply of Female Medical Aid to the Women of India, has received from the Duke of Westminstor a donation of $£ 200$.

Sone energetic members of the Medical Staff Corps conueeted with St. Thomas's Hospital are exerting themselves to raise funds to procure saitable new headquarters for their staf.
$\triangle$ proposal has been brought before the Municipal Council of St. Petersburg to impose a poll tax of one rouble, in order to provide additional funds for hospital administration. The tax is estimated to produce about one million roubles ( $£ 120,000$ ); but the suggestion has not met with a favourable reception, and its adoption is doubtful.

AT the last meeting of the Academy of Medicine and Sargery of Naples, Dr. Di Vestra read a report of the inquiries institated by himself and Professor Cantani into the resalts of antirabis inoculations. A resolution was unanimonsly passed, calling npon the Government to sabsidise the Italian Antirabic Institution, which is threstened with closure for want of proper pecuniary support.

HER MAJESTY THE QUEEN.
WE understand that Mr. Boehm has consented to undertake the commission for the erection of a statue to Her Majesty the Queen, in commemoration of the Jubilee, in the Hall of the University of Londor. The funds collected amount at present to $£ 700$.

## THE BRITISH MEDICAL JOURNAL.

The volume of the British Medical Jouranal just pablished (July to December, 1857 ) contains 1,460 pages. This is the largest semiannual volume of any medical periodical ever published. The volnme for the corresponding half-year 1886 contained 1,316 pages. The demands on onr space, however, hare far more than kept pace with this extension. The pressure on every department is so considerahle and so continuons that the plea for brevity, which is now a standing notice in this Journal, is one of ever-increasing urgency. We would earnestly request onr contribntors, whether of original articles, letters, or other communications, to bear in mind this ever-present difficulty.

## SIR TINDAL ROBERTSON, M.D., M.P.

Her Majesty has been pleased to signify her intention of conferring the honour of knighthood upon Dr. Tindal Robertson, M.P. for Brighton. Dr. Robertson is the eldest son of the late Mr. F. F. Robertson, of Bath, by his marriage with Anne, daughter of Mr. J. Tindal. He was born in the year 1825, aud was edncated at liniversity College, London, and at the University of Edinburgh. He hecame a member of the Rogal College of Surgeons in 1950. He was for some years physician to the General Hospital at Nottingham. Of late jears, since he became blind, he has resided at Brighton, where he acts as local magistrate, and as chairman of the Brighton Consersative Association. He has been one of the members for Brighton since Norember, 1886, when he was chosen on a chance racancy cansed by the death of Mr. David Smith. Dr. Tindal Robertson married Elizzbeth Anne, daughter of Mir. J. Leavers.

## SMALL-POX IN THE NORTH.

The reports as to the amount of small-pox at Rotherham, imported in the first instance from Sheffield, appear to have been much exaggerated. Mr. J. Hardwicke, medical officer of bealth of that borough, states that, "owing to the active measures at ouce taken by the corporation and officials upon its appearance, it is now abont stamped out, there being now only five cases in the borough : threo in the fever hospital, and two outside, all convalescent." At a meeting of the Leeds Sanitary Committee on Wednesday, applications were received from several places near Leeds for hospital accommodation for smallpox patients. The committee, however, agreed to receive only patients from Morles, which has no small-pox hospital. Another death from small-pox was reported iu Leeds on Wednesdsy.

## THE LADY STRANGFORD HOSPITAL.

Adairal Inglefield, reporting on the Lady Strangford Hospital, which has now been in working order for some months, and has been of great servico to many sufferers landed from steamers passing through the Suez Canal, points out that, judging from the number already received, more than 200 patients may be expected in a year; and of these, mauy are likely to be serious cases, chielly sailors. Last month, 60.8 per cent. of the heds were filled. There have been seven deaths, and fifty-three patients hsve been discharged cured. Not only from the ordimary steamers, but also from Her Majesty's Indian troopships and other rcssels of the Royal Navy, have sick been sent to the
hospital. The committeo have atill to make up a deficiency of $£ 1,700$, and $£ 500$ nooro will be nooled to build a separato ward for isolated casos. So many persons are interested, directly or indirectly, in those Who pass through tho Canal, or many have friends in Indis, China, or Australia and Now Zenlani, and not a few aro conceracd in ligypt, the Canal, or in ships that pass throngh, that the committee do not hesitato to make this apposl, iu hopes that the $£ 2,200$ still required for tho building fand will be sopplied speedily and williagly.

ROYAL MEDICAL BENEVOLENT COLLEGE.
Ir gives us much ploasure to direct the attention of our readers to the annooncement that at tho request of an influential depatation from the Council of the lioyal Medical Bencrolent Collego at Epsom, the Lord Mayor has consented to take the chair at the biennisl dinner on April $1 \%$ th. This will be the first ocession on which the head of the Corporation has presided since 1856, when Sir David Solomons took the chair. Several members of the Honse of Lords and the present leader of the IIonse of Commons have also presided. It is a matter of coagratulation that the claims of the profession upon the public shoold be so cordially recognised, and we hope that practitioners of all classes will do their best to make this fostival a financial and a socinl auccess. The work carried on by the Council of Epsom College is grod and desorviug of all support. There is perhaps another claim on the Association to co-operate. Dr. Holman, the Treasurer of the Britigh Medical Association, is also the Treasurer of Epsom College. This conjunction of offices and labours will give perbaps to many an additional impulse to sill him in bis efforts to proride for the aged, helpless pansioners, and to clothe, educate, and feed the Foundation scholars of the College free of all charge to relatives and friends.

> "A WARM SITE."

As interesting point, resulting from an examination of the Meteorolo. grical Journals of the late Mr. J. H. Belville and those of the Royal Observatory, Greenwich, was contained in a communication made by Mr. H. S. Eaton to tho Meteorelogical Society at its last meeting. On the eminence on which the Royal Observatory stands the average temperature at night, or rather in the early morning, was in all cases higher than over the low gronnds; ss this is deduced from the examination of registers which extend over forty-four years, it probably expressses a general truth applicable to similar sites in river valless and on allnvial soils, and shows perhaps one of the grounds of the growing preference for elerated sites for houses in preference to the low and sheltered situations which nsed formerly to be so much preforred. Mr. Eaton's statistics do not afford any evidence in support of the suggestion that the climate of the country has changed in the last contury; the registers he examined extead, as has been said, over forty-four years ( 1812.55 ), but no appreciable change in the mean annual temperatne of the air could be detected.

## A MODEL ACT.

Tra Margarine Act, for preventing the sale of batterine or any compond of batter under any other namo than that of "margarine," comes into force this week, and active steps aro being taken by the local suthorities to carry out its provisions. The provisions of this Act, on which we bave already reported, are very severe, and might in many respects be taken as a model for the improvement of the Adnlteration Aets gencrally. The many loopholes which the Adolteration Acts offer to offenders are carefully stopred in this Act ; thas the onus of proof that he mas in any way decoived as to the nature of the article which he is selling is thrown apon the vendor. The inspector is not compelled to make a parchase of the article snd to divide samples; and it is not sufficient that the article shall be colourably what it pretevds to be, or that ignorance of its source or origin shall be pleaded. The whole responsibility is put on the vendor instead of, as heretofore, largely on the parchaser,
and the old role of law, carcat cmptor, is efficiently abolished. If the Adulteration Acts genersilly wore ameuded on a similar model, the material well-being of our population, especislly of the poorer classes, would be improved. Milk ought certainly to be protected in the same way and to the same fextent as butter. It is, however, notorious that skimming and sdnlteration are still habitaally practised with irapunity to the extent of at least 15 or 20 per cent., and such is the weakness of the Adulteration Acts that analysts and sanitary inspoctore are powerless to stop it. So also as to the numerous mixtures sold as coffee. By the use of varions additional titles, and the many other little devices which the Adulteration Acts favour, it is well known that a large part of the ceffeo and tea sold is fraudulently adulterated to an enormons extent; and, indeed, very fer articles of food escape deterioration by fraudalent admizture in some form or other. Were the penal clauses of the Adulteration Acts generally brought into accord with those of the Margarino Act, all this would very soon be put an end to.

## BRISTOL EYE INFIRMARY.

AFter occupying its old home for threequarters of a centary, the Bristol Eye Infirmary has had to respond to the inplerative demand for increased accommodation. In the summer of 1886 it was determined to purchase two adjoining houses and a yard, and take prompt steps for the enlargement, and these havo now been turned into a capital block of premises, with free interual communication on the varions floors, and fitted with applisnces for the more convenient and snccessfal carrying on of hospital work. When the furnishing is completed the out-patient department will be adequate for the daily attendance of 150 persons, and accommoiation for 18 in -patients. The total expense has been between $£ 3,000$ and $£\{, 000$, the funds for which are forthcoming.

## THE HOUR OF DELIVERY.

An industrious statistician has recently contributel to a medical journal at Lille, the results of an analysis of one thousand labours, with the precise hour at which delivery took place. He reports that 45 per cent. of the labours terminated between 8 A.M. and 8 r.S., and 56 per cent. between 8 f.s. and $S$ A.s1. Pushing the inquiry a step further, he found that 23 per cent. terminated between 8 A.35, and midday; 22 per cent. between midday and 6 p.ar. ; 27 per cent. between 6 f.an. and midnight, and 54.1 per cent. during the nightthat is to say, between midnight and 6 A. 3r. These figures only apply to normal labours, in which nething interfered with the physiological course, so that they go far to confirm the popular notion which admits the greatest frequency of delivery at night, "conception generally taking place at about that time."

## REGISTRATION OF COLONIAL DEGREES.

An Order in Council has been published extending the provisions of the eecond part of the Medical Act, 1886, to Ceylon. That Act provided that the Medical Register shall contain a separate list of the names aud addresses of the colonial practitioncrs, snd also a separate list of the names and aldresses of the foreign practitioners regiatered under the Act. No snch lists are yet in existence, but the Order is the first step to the formation of a colonial list. The matter will now have to come before the General Medical Council, which is required to determine whether the diplomas granted in a colony mentioned in such an Order furnish a sufficiont guarantee of the possession of tho requisite knowledge and skill for the efficient practice of medicine, sorgery, aud mid wifery. In this particular matter of the registration of colorial and foreign degrees, the Act certainly contains somo anomalies. At the present time colonisl degrees cannot be registered under any circumstances. Clause 16, owing, it is said, to an oversight, only applies to foreign degrees, and dot to colonial degrees. It is under this clanse that the degrees from the Brussels and other foreign nniversities have been recently pnt on the Register by registered practitioners who bad obtained such degrees beforo the passing
of the Act. The registration of practitioners bolding colonial diplomas and degrees will be governed by Clause 11; it will be necesgary to show that the diploma, which must have been recognised by the Ceuncil, was not granted while be was domiciled in the United Kiagdom, or was granted in course of a period of not less than five years dariog which he was resident ont of the kingdom, or that he was practisiog in the United Kingdens on the prescribed day, and had been practising there or elsewhere for not less than ten years immediattly preceding. As with Ceglon an Order in Council mast he in evory case issned, and this cen only be done if the colony itself affords such privileges of prsctising ss may soam just. Put shortly, the provisicns of the Act may be said to be on this hesd that the Privy Conncil is charged with the dnty of ascertaining that the colony grants reciprocal privileges ; the General Medical Conncil examines into the professional value of the diploma, while the Registrar must satisfy himself of the personal respectability of the candidate.

## CULTIVATED IPECACUANHA.

Ir is satisfactory to learn that a sample of the cultivated ipecscusnha, recently referred to in this Journas as probably imported from Sings. pore, has, in the hands of Mrr. Here, F.R.C.S.E., yielded results indicating its therapentic equslity with the Srazilian drug. He reports that on comparing a powder of the Indian drug with the ordinsry powdered root of the Pharmacopacia, be found that in equal doses the action was atsolutely identical. In the cise of a child, aged seven months, suffering from severs capillary bronchitis, the usual dose of ten grsins produced satisfactory emesis and gave relief. When minute doses were subsequently administered, the cnstomsry expectorant action was marifested; and, npon alternating the use of the ordinary root with that of the lndian drug, day by day; in expectorant doses, and slso, when occasion demanded, in nsuseant doses, it was found impossible to distinguish between the twe as regards their therapeatic effects.
the illness of the crown pringe.
Ir is with profound satisfaction that we learn, on the bighest authority, that the symptoms which caused se much alarm at the beginning of November hare almost entirely dissppeared. The growth in the subglettic region, which was then looked upon with such suspicion, hes now shrank to a fourth of its former size; the ulcer on its surface has completely healed, and the submaxillary glands, which were enlarged and hardened, are now in a perfect'y normal state. The little growth which recently showed itself on the left ventricular band (false rocal cord) sloughed away very soon after its formation, and the uleerated surface left behind was nearly cicatrised when Sir Morell Mackenzie left San Remo. The Prince is now quite free from the sligbt but constadt feeling of discomfort about the larynx, from which he had suffered since the beginning of last year, and his face has lost the somewhst waxen pallor, which struck so many observers when His Imperisl Highness wss in Englsnd. We sre able to state that in the opinion of Sir Morell Mackenzie the appearances in the Crown Prince's throat are now quite compatible with the more severe form of chronic laryngitis. In illustration of this, it may be interesting to quote some remarks from his work on Diseases of the Throat, Vol. i, p. 288, where it is stated that "in addition to congestive swelling of the mucosa and sub-mucosa, there occurs in bome rare cases an organic thickening or hypertrophy of the soft structures." It is also said there that "nodular excrescences the result of chronic inflammation are often met with," presumably in the rare cascs just alluded to. These words were written eight yesrs ago, and the case of the Crown Prince would seem to be a perfect example of the morbid condition which they describe. In addition to the chrenic inflammatory process, thero is no doubt that perichondritis is also present. In speaking of this affection, Sir Morell Mackenzie (op. cit. p. 391) has callid sttention to the frequency of "impsired
action of one or both of the vecsl cerds;" and it may be remembered that in the case of the Crown Prince the action of the left cord has been defective for many months past. Whilst, however, there is now good ground for hoping thst the disease may be of the comparatively favourable character here indicated, it would be foolish to allow ourselves to take too optimistic a viem of the situation. The possibility of the affection beiog after all malignant, in epite of present appearances to the contrary, must not be too hastily dismissed ; and, on the other hand, it should not be forgotten that cven the milder complaint, towards which the symptoms seem now mors or less definitely to point, is a serious one both in itself and in its possible consequences.

LORD GRIMTHORPE AND THE MEDICAL PROFESSION. Lord Grimphorpr's facts and arguments appear to be alike inflinenced in this matter by passion and imagination rather than by sober or sccurate inquiring reason. He sets out the number of bomceopathic prsctitioners in Great Britain at 10,000 . Is he sure that it is as mnch as, ssy, 300 ? That is the last record which we bave at hand, and the list for the last ten gears does not appear to be a growing one. Lerd Grimthorpe, like Shelley, declares himself in very rigorons language the avowed enemy of intolerance. Shelley's eath was " May infinity and eternity blast me if ever I forgive intolerance." When the froth is blown off the somerhat paradozical and foaming declarations of Lord Grimethorpe, it will be seen that they are themselves a form of very aggressive intolerance. If Lord Grimthorpe could add a little psychological study to that of the logic of Whately, of which he so comically considers himself to be a monopolist, be would have to admit that the compulsory tolerance for which ho clamonrs conceals only a thirst for a new form of petty despotism. What he really asks for in the name of tolerance is a despotic power over the intelligence and the conscience of the medical profession. He weuld compel them, if he could, to enter into allisuce with those whose dogms and practice they consider a nullity or a frand. He may be left to onjoy his opinion "that not a man in this country is foo enough to heliere " that medical men generslly are actusted by any other than knavish or cowardly motires in declining to act as allies or accomplices in homeopathic experiments either in or ont of hos. pitals. There is little room for argument with a gentleman who seriously puts forward such a proposition. It is evident, however, that if bomceopathic practitioners' shops and patients swarm as numerously as he wildly slleges, his complaint of the lack of opportunity for carrying ont their experiments is, at lesst, exaggerated. The one or two anecdotes which he relates as to the toleration by the Bar, in eminent persons under exceptional circumstances, of practices which are universally reprobated within the Bar, will deceive no one into the belief that ostracism as it used to be called, or boscotting as be prefers to call it, is not a time-honoured means in the Bar, as in other professions, of self-defence against complicity in objectionable proceedings. We do not need to argue with Lord Grimthorpe whether hemeopathy be or be not either a nullity or a frand. Our case is, that such is the conclusion at which the medical profession generally, including without exception all its most eminent men, and all its recognised leaders, have long since arrived. They have had ample opportunities, during the last forty years, of revising that opinion, and of altering it if they had seen any reason to do so, but the simple fact is that they hare not. That being se, it will require quite other methods than those which Lord Grimthorpe pursues to persuade them or any other reasonable beings that it is their daty so long as they continue to bold those opinions, either to meet in consultation or to act in concert with those who profess opinions and practise methods of treatment for which they entertain either contempt or disgust, and which they beliere, on grounds which are orerwhelmingly conclosire, to be either ralueless or deceptire. Any attempt to foree them into such an alliance is obriously foredoomed to failare. The mere proposal is an effort to establish a silly form of tyranny which repeses on no solid basis either of morslity or of social duty.

## THE CURE OF HYDATIDS.

As instrustive discussion took placs at the Clinical Socioty recently on three papers dealing with the treatment for the curo or remoral of hylatid cysts of the liver and other parts. Opiniona differed very much as to the ultimate value of aspirating these cysts, bat the explanation of this extraordinary divergence of opinion is probably to be fonnd in Dr. Broadbont's suggestion that the prognosis depended largely upon the nature of the fluid. When this is clear and does not contain, as is often the case, numerons daghter cysts, Dr. Rroadbent's experienco leads him to anticinate that recurrence will not take place. When, howeror, the contents consist largely of minor cysts and debris, sappuration or recurrence is probablo. In any case aspiration ought probably always to be performed, for a certain proportion of cases recover after this simple operstion alone, and it mast obriously be to the interest of the paticut to avoil tha riska incidental to a more radical operation. In sume cases sspiration fails to afford more than a temporary relief, and surgeons are agread that in that case the only thing to be done is to cut down apon and extirpate the sec and its contents. The expericnce of most European surgeons goas to prove that this is most safely dong by allowing adhesions to set np, uniting the asc to the alsrgius of the abdominal wound, before proceeding to empty the cyat. Siatistics leave no rourn for doubt on this point. Even a few hours will often be sufficient to prevent any danger of the fluid finding ita way into the abdominal earity, by glueing the sac to the wound. The latter can then be tapped and its removal effected. The most troublesome part of the whole proceeding rould appear to be an early and relisble diagrosis. The best way of maeting this difficulty is an exploratory laparotomy, and this few present day surgeons would hesitate to perform in the face of obscure and menacing aymptoms.

## FOREIGN OPINIONS OF ANTIPYRIN.

M. Germain Sée was the first to call attention to tho very marked in. flence of antipyrin over pain, whether administered by the mouth or bypodermically. Since ha published his saries of cases the drug has been employed tentatively in most civilised countries, and the reports are now coming in. With rery few exceptions the experiments have been successful. Friankel, of Lerlin, in order to test its anodyne properties, subotituted antipyrin for morphine injections in all tho eases nader his care. In not a single casa did be fail to give relief. Ha cmploged it in five.grain doses, repeating tho injection in an adjacent spot if necessary. He proved that the local action of five grains of antipyrin was about tha equivalent of a thirtiath of a grain of morphine. I'he inflence of the drug was manifested in about fifteen seconds, and lasted from six to eight houra. He expresses the conviction that antipyrin may bo used with advantage in many cases in which morphine is at present omployed. It produces no disagreeable after-results anart from the alight pain of the injection itself. Hirsch, of IIanover, is not less affirmative after a trial of the drug in seven cases of severe rheamatic and nearalgis pain. In the United States, Dr. Waugh, of Philadelphia, has employod it successfully in a aeries of cases of neuralgia, inugcular rheunstism, sciatica, etc. In the treatment of sciatica the relicf was more prompt and at least as marked as could lave been obtained from the use of morphine. He used it in doses of from two to five grains. Dr. Arca, Professor of Medicine at Buenos Ayres, himself a sufurer from chronic rhenma. tism, was treated by M. Sée by means of a hypodermic injection of fifteen grains of antipyrin, together with from thirty to sixty grains by the mouth, daily. The regult was marked relief, though the pain returned directly he discontinued the trestment. There scems no reasou to doubt that in antipyrin we possess a powerful anodyne for pain of nerrous or rheumstic origin. Dispensel in the form of tablets, it is casily dosed, and may bo administered either hypodermically or by the month. Beyond the smarting which fol. lows the injection, no after-elfects of moment aro produced, and it has rarely been known to gire rise to inconvenient, mach less toxic, symptoms.

AMBULANCE MOVEMENT AT HAWARDEN.
$\Delta \mathrm{N}$ interesting meeting was held last week at 11 awarden in connection with the ambulance teaching and nursing class carrice on there, Dr. Waters presiding. The results were stated by the Rev. H. Drow, and they appear to be excellent. Dr. Waters, in a speech marked by oloquence, pathos, and humour, referred to the recent history of medical education and of the Medical Act of 1886, which rendored it obligatory that medical men should bo qualified in all branches of their profession. He was proud to be able, there in Hawarden, ta recall that that Act was passecl when Mr. Gladstone was Prime Minister. As a proof of the necessity of good and reliablo nursing, he referred to his own experience. When ho was resilent in Edinburgh Infirmary it was his lot to tako fever. In his room he had three physicians attending him. As far as numbers weut he was tolerably safo; but it so happened that every night his purse wrapped herself up in blankets, put a jillow under her head, and fell asleep before the fire. In the morning the doctors came and asked him what sort of a night he had had, and bo said he had not slept; but, turning to the nurse, said that she had slent. And so it went on for nine dajs. He told the doctors what was happening, but all his efforts to convince them that the nurse slept and he was arake were in rain, and he began to reconcilo himself to the position. The doctors came in and asked him what sort of a night he had had, and he replied that she had had a beautiful night. Then the uurse, before his very eyes, significantly tapped her forehead to let them know that he was wandering. Tha doctors passed out of the room, and the very first quastion was, "Has he been raving mnch to-day?" He himself shouted, "I am not raving, but she is." The nurse was a very distinguished woman, but she wanted her rest. At last ono of his doctors came in lster at night than usual, and, coming to see him, fonnd his nurse asleep and himself wide awake. His friend was extremely penitent, and he shall never forget the luxury of that one night. The narse was changed, and in the hands of tho new one, who ministared to all his wants, he made a very swift recovary. Nurses of the Mrs. Gamp class were now passing arsy, orring to the extension of nurses' training institutions. He had tricd to establish a nurses' institution in connoction with tho Chester Infirmary, but the attempt fell througb. In these days of over-crowding and crushing mechanical force the spread of the knowledge of nursing and ambulance work must prove of the greatest bencfitin diminishing suffering. A demonstration of medical aid in accidents was given by the members of the Sazdycroft Corps.

## PREGNANCY AFTER REMOVAL OF CANCER OF THE VAGINA.

Dr. Rüref, of Hambarg, describes the following case of this raro disease in the Centralblatl für Gynükologic, No. 3S, 1837. The pationt was aged 36 , marricd twelve years, and had borne threo children ; menstruation was regular, and there was no evidence of syphilis. Dofrecation had been painfnl for months, and had been attended during the few weeks before ahe was first seen, on July 1st, 1884, by hemorrhage from the ragina. The patient was bony and muscular, and not ancmic in spita of the frequent bleeding. On rectal exmmination a hard substance con?d be felt in the posterior vaginal wall, over which the mucous mombrane of the bowel was not adberent. The finger introduced into tho vagina encountered at a distance of a littlo over one inch from the rulvar orifice a hard clevation, which formed the border of the substance detectad by rectal exploration, an ares of infiltration, tough, with an uneven surface two inches by onc-and-a-fifth in dismeter. This area occupied the posterior vagiasl w. 11 , and reached to within a few millimetres of the reflection of the vagina on to the cervix. Thecervix and uterus wero entirely free from discase, nor whs there any evidence of extension of the new growth into other parts. Touching the brittle tissues of tho surface of the growth set up hemorrhage. There mas no fector. The microscone confirmed the diagnosis of elithelioma of the rulva.

On Jaly 23rd, 1881, the growth was ramoved. The mucons membrane was first sct free above and around the upper part of the margin of the growth, so that the ragina was separatcd postoriori'g from its uterine attachment. The bluish, transparent peritonenm was thas exposed; it was accidentally cut through, in fact Douglas's pouch was laid open, and a fow drachms of clear, greenish, watery fluid escaped. The apertare mas guarded by a retractor. Lower domn the growth was detached from the muscular coat of the rectum, which appeared healthy. The entire growth was in this msuner quickly dotached, scissors being emploged ; there was but little hæmorrhage. The rent in the peritoneum was closed with catgut sutares. Then the cerrix mas dramn down and made to cover the hole in the pos. terior vagioal wall ; the raw sarface on the cervix wheuce the vagina had boen dissected away was united by deep and superficial silk sutures to the edge of the wonad in the vagina. The os externm thus lay almost as low as the vulvar aperture. Sublimate and iodoform were the antiseptics eroployod in this case. By August 7 th the mound had thoroughly united by first intention. On May 15th, 1885, Dr. Riiter eaw the pationtagaia. The catamenis had been sappressed since the operation till elevea weeks before this consultation ; the right thigh had repeatedly become arollen; the veins did not appear to have nndergone disteasion. The os nteri still lay close to the ralya, and there was no ponch between the ccrvix and the remains of the posterior vagiual wall, nor any trace of recarrencs of the nem growth. After May, 1885, the period remained regular till the patient became pregaant at the end of that ycar. On September 5th, 1886, she gave birth to a child at term, and was able to suckle it. When last examined, on Angast 1st, 1887, there was no siga of recarrence. The posterior vaginal wall had become lengthened throngh changes daring and sfter gestation, measaring two inches and a half. Dr. Ruiter believes that the swelling of the thigh and the amenorrhes were dae to the dragging down and temporary obstruction of large pelvic vessels cansed by the displacement and fixation of the cerrix. The influences of pregnancy overcame all traces of obstraction, so that the nutrition of the parts once more became normal.

## NATIVE FEMALE EDUCATION in CALCUTTA.

We all know, and are glad to know, that an effort is being made in India to extend medical aid to native women in India who are cut off by the iron barriers of caste and custom from receiring it at the hands of malo practitioners, native or foreign. An attempt is now beiug made to educate a class of native "women doctors" to meet this want. We have before ns a copy of the scheme as promnlgated in the Government Gazette of Calcutta, published in the Overland Englishman of November 29th, 1S87. The details of the scheme sabmitted by the Director of Pablic Instruction are simply astounding. It is difficult to believe that anyone in the present day can have such an inadequate conception of modern medicine as to lay down such rules as are here authoritatively published by a gentleman holding the responsible position of Director of Pahlic Instraction. According to this enlightened instrnctor of the public on medieal odncation, all the preliminary knormledge required beforo entering oo the study of medicine is the fullowing :-'Reading and explasiaing a Bengali book of the standard of difficulty of Raj Krisna Mookirjra's History of Eengal ; writing from dictation an easy Bengali hook, and arithmetic to easy fractions and simple rale of three." With this amount of mental furniture, Bengali girls, aged 16, are deemed, in the opinion of this public instructor, to be capable of entering on the study of modern medicine, and after three years of stady to be turned loose, so far as we can see from the scheme before us, without examination to exercise their skill on their unfortnoate fellow-creatures. IIere is Sir Alfred Croft's opinion on this extraordinary scheme:-"I am fully a mare that it is oy no means certsin to succeed, owing to the want of education among women in Bengal and to the obstacles which social conditions impose. Material benefite would follow if, happily, it shzuld be success-
ful. If it fails, little or no cost is incarred and no harm done." No harm done ! The echeme is cheap, "little or no cost is iacarred !" That in the opinion of this educational authority isenough. The Lientenant Governor of Bengal, not without some misgiviog3, has given his sanction to this dangerous experiment, not being perhaps better "instructed" than its author. Bat what are we to say of the medical officers, Dr. Mackenzie, Surgeon-Major Chnadru, and Surgeon-Major Coates, "who are in favour of trying the system." The least we can ssy is that in giving even a qualified assent to this scheme, they are as much misled as its author and the high official who has sanctioned it. They may plead Dr. Johnson's frank excuse when he foll into error on some literary matter, "Ignorance, Sir, sheer ignorance," but if they are ashamed to offer such a poor plea, as well they may be, then any other excuse they can offer for their weakness in giving assent to such a scheme mast be inadequate. Weare gldd to see that other members of the profession, althongh their names are not given, had sense and courage enough to withhold their consent from the rain attempt to graft on the education of a echool board monitor of a child's class even the simplest elements of the healing art.

## SO-CALLED TINCTURA IODI DECOLORATA.

The alcoholic solution of iodine and ammonia, frat introdaced by Sir J. Y. Simpson sbont twenty-fivo years ago, has, notwithstanding several modifications, remained in geveral use, and, under the name of "tinctura iodi decolorata," is represented in the Unofficial Formalary recently adopted by the British Pharmaceatical Couference. Various ststements have been made at different times as to the actaal composition of this preparation, and in a paper recently read before the Pharmacentical Societs at an oveniag meeting in Edinburgh, Mr. J. Rutherford Hill stated that sn examination of four preparations, made according to different formnle, showed that the iodine in each case existed as iodide of ammoniam, together with free ammonis and a slight trace of iodoform. Owing to the solution usally containing aboat the same percentage of combined iodine as the official tiucture doas of free iodine, it is frequently spoken of as being of the same strength, and an impression bas no doubt thus obtained with some medical practitioners who prescribe the preparation, that in doing so they are ordering a solution which will prodace the specific counterirritant action of free iodine. This impression is probably confirmed by sach a misaomer as "tinctura iodi decolorata." Mr. Hill, therefore, saggested that a "liquor ammonii iodidi ammoniata" might be prepared, which would be of the same therapentic ralae as the so-called decolorised tincture of iodine, and preveat the cccarrence of mistakes. It is further wortbr of note that an attempt has been made to attain the object sought by some who order the decolorised tincture, without altogether losing the specific effect of free iodine. It was stated that a certain medical man preseribes tincture of iodine and aromatic spirit of ammsuia in separate bottles, and instructs his patient to paint on the iodine at night and to sponge it off mith the aromatic spirit of ammonia before going out nest day.

VEGETARIAN DINNERS FOR SCHOOL CHILDREN.
Cold weather and Christmas cheer are iavigorating to most of us at this tima of year, hat it is a sad time for uuderfed children. The committee for supplying vegetarian dinners to school children in London hare been actively prosecating their gool work this winter. We are glad to hear that their dinners have proved palatable and acceptable to the children. Their experimeat is a fair one ; but we should like to know whether the veget srian dinaers aided growth in the children as mach as the mised diets supplicd, at equally low rates, to the school children in Birmingham. It does not appear that regetarian dinners are more economical as to prime cost; it may also ve doubted whether they are more economical physiolagically. No doubt the ingredients necessary for the nutrition of the body are to be fonnd in vegetarian food; but eridence is not forthooming that the digestive
organs aro ablo to extract and assimilato aitrogenons matters as well from a jurely vegetable diet as from a mixed one. Plants get their supplies of nitrogen from compounds in the aoil, not from the atmo. sphere. The feeding of childrea is at least as nocessary to their development as teaching, sud the cost is trilling in comparison to some of the results obtained: 10,673 dianers were supplied st fUS 12s., or a littlo over three farthings per head. We may safoly say that this admirable movement will do good, and that it is cconomi. calls worked; still, in any plan for distributiag food to the poor, there remains the pecessity of avoiding pauperisation. The independeace of the poor is best respected by ensbling them to help themselves ; and we are glad to see tho suggestion made that senior girls in the school should bo employed in cooking and serviag the food. Teachers in poor schools are worked hard enongh, and must not be expected to do much beyond their paid duties. It is to be hoped that well cooked snd com. fortably gerved dinners aro served in the midule of the day for the teachers in the schools.

## SCOTLAND.

## - DEATH OF PROFESSOR DICKSON.

Dr. Dickson, Professor of Botany in the University of Edinburgh, and Regins Kecper of the Botanical Gardens, died suddenly on Dc. cember 30 th.

## EPIDEMIC OF FEVER AT PAISLEY.

Durbace the psst fartnight there has been a serions outbreak of fover, mostly enteric, in Pdisley ; it is hoped, however, that the worst is now over. Last week there were fifteen deaths from the disease, and thero were sixty-four patients suffering from it in the hospital.

## MEASLES AND WHOOPING-COUGH AT ALYTH.

 At Alyth, in lerthshire, messles and whooping-cough prevailed to such an extent that the propriety of closing the schools has been considered. As far as the infant department is conceraed, the diseases have nearly dono that themselves, as, out of 127 on the register, no fewer than 100 were absent.
## CHILDREN'S BAZAAR.

Forr. young ladies in Elinburgh, all ander 12 years of age, being grestly interested in the Sick Childron's Hospital, organised a private bazaar on its behalf, and realised a sum of $£ 1710 \mathrm{~s}$. 9 d ., which was paid over to the institution and gratefully acknowledged by the msnagers.

IMPORTANT MOVEMENT AS TO INFECTIOUS DISEASE. At a meeting of Edinburgh Tomn Council Public Incalth Committee, a resolution of an almost revolutionsry nature was agreed to. The Dean of Guild Court made a representation to the Committee on the subject of the occurrence of infections diseases in relation to the houses to which they occurted. The Committee agreed to the folloring motion: "That in cases of infectious disease, snch as typhas, diphtheria, and scarlatins, the Medical Officer shall supply to the Burgh Enginecr a note of the adluess of the same, oo that he may make a complete examiation of the sanitary condition of the honse in which the outbresk takes place.'

## GLASGOW OBSTETRICAL AND GYNAECOLOGICAL SOCIETY.

The third meetiog of the curreat session was hold in the F'sculty Hall on December 28th ; Dr. Wallace, President, in the Chsir. Mr. A. R. Gunn, M B., C.M. Mr. Campbell Syme, L.R C.I.E., Kilmalcolm ; and Mr. Willism Cullen, M. B., C.M., were dnly admitted Fellowa. Dr. Robert Park exhibited aterine cast of dysmenorrbceal origin almost catire. The cast nas handed to the pathologist, on the
bringing up of whoso report an accouot of the case will be givan. Dr. J. Stuart Nairno then read a paper on two successful case; of cholecystotomy, in ono of which obstraction had been due to gallstones, and in another to catarrhal products.

## ROYAL ASYLUM, MORNINGSIDE.

The epread of the southern anburbs of Edinburgh, in the Morningaide district, has so interfered with the comfort and amenity of the East House Royal Ediuburgh Asylum, that the managers have resolved, at s cost of, it is supposed, of a bout 160,000 , to erecta new asylum bailding in the grounds of Craig Ilouse, which are slready in their possession. The East House has for many years been used exclusively for pstients who were able to pay a good rate of board; sud, some jears ago, Craig Houso was added for their accommodation also. Dr. Clouston's riews are to be consulted on every point, and Mr. Sydney Mitchell is the srchitect, but the plans are not yet prepsred.

## IRELAND.

The Locsl Government Board have sanctioned the sppointment of Dr. Kerman, ss medical officer of the Oranmore dispensary district.

The Local Governmeat Board for Ireland have refused their saaction to the election of Dr. Magner as medicsl officer to Timoleague dispensary.

THE MEASLES EPIDEMIC AT CAPE CLEAR.
A special meeting of the Skibbereen Board of Guardians was held last week in reference to the epidemic of measles in Cape Clesr, Hare Island, and the district. A report was received from Dr. John Jennings from Cape Clear, to the effect that, although the contagion continued ta spresd, yet there was only one desth there for the week. One hundred persons are aflected. Dr. W. Jemaiags reported that the epidemic had broken out in the tomnland of Conlanuller, near Skibbareen, with one death, that of a boy, aged 15 ; and that it has crossed the water to the msinland in Aughada, where a number of persons are now attacked, sul some deaths have already taken place in adults and children. In the whole of Hare Islsnd, where abont forty families live, only three have eecsped the disease. Quite a panic exists on the maioland, where the contagion has apread, and it was rumoured that a case lizd oczurred in Skibbereen workhouse, which, however, has turned out to have been chicken-pox.

## GLASGOW UNIVERSITY COUNCIL ASSOCIATION.

A meeting of this Association was held on December 13th, in Glasgow, onder the presideacy of Mr. Cochran-Patrick, LL.D.
In introducing the business, the Charman made some remarks on the Universities Bill of last yesr. He poiated out the recognition it contained of the need of extra-academical representation in the University Court in the person of an essessor from the Torra Council. He was also glad to see that last year's Bill contained a epecial grant to Glasgow Universits of $£ 00$ a jear for maintenance of buildings. He objected to the aystem of cumulative rating proposed in the Bill, and ho thoaght the Court ghould consist of thirteen rather than twelve members. The number in the Bill was thirteen, but for vating parpose日 it was really only twelvo, as the Rector's assessor could vote only the sbsence of the Rector. Ho thought also the General Council should have five assessors, one of whom should retire annually, instead of four all retiriag together. IIe cmphasised the views of the Association that the finsncial administration of the University shonld be removed from the Seasto, and that powers of affiliation should be given to the University Courto. He suggested that siace the Government had sccopted the proposa] to have extra-scademical representstives in the Court, the Associstion should not epecify in detail who these repreaentatires shonld be, hat leare that to the Commissioners, the rarious public bodies being entitled to arge their respective claims.

Professor Enward Caird moved:
That, in prespect of another Universities Bill, the executive be instructed to press upon Her Majesty's Government the reforms held essential by the Association, and the vital objectiona taken to the Bill of last aession and in speaking to the motion, acknowledged the conciliatory speech of the Chairman. He had no objection to the financial administration being transferred to the Court, provided the Senate were properly represented in it, nor did he object to powers of affliation, so leng as it was only the general principle that in the meantime was being considered.
Mr. Gratam, of Auldhouse, moved the second resoletion, namely:
That a Universities Bill, in order to command the aupport of the Association must (1) give the General Conncil and the Senatua an equal number of representatives in the University Court, and the extra.academieal public not fewer representstives than either; (2) vest in the University Court the whole finsncial administration of the University; (3) provi le for the affiliation of ncw callpges; (4) empower the Commissionera to remove, as they may see fit, any other preaent restrictions on university teaching.
Both resolations were duly secondeá and carried nuanimously.

## DR. GÄRTNER ON THE THERAPEUTIC UTILISATION OF MUSCULAR WORK, AND A NEW APPARATUS FOR ITS DOSAGE.

For the following particulars we are indebted to our Vienna Correspondent :-
It is adratted by all physicians that the want of bodily exercise causes various diseases, and obesity is probably in all cases the result of the muscles not being properly exercised. Men and animals work with the expenditure of fat and hydrocarbons, and a certain amount of consumption of fat mast, therefore, correspand te a certain smount of work. It is evident from these facts that the value of a certain form of movement as a therapeutic agent mast depend on the quantity of work (expressed in kilogranme-mètres) which it involves. The physician is often at a loss when he has to prescribe the necessary work for the patient, as in many cases none of the common forms of exercise are suitable. Dr. Gärtner has tried to meet this want, and has devised an apparatus, which he cslls "ergostat" ( $\epsilon \rho \gamma o \nu$ and $i \sigma \tau \eta \mu)$ ). The ergostat is a small machine, scarcely larger than a sewing machine, and consista of on iron plate, around which there is a band. The latter is supplied

with wooden blocks, and is fixed at its enos to a lever, and can be bent to a greater or less extent by means of a weight which can be moved to and fro on the lever. A scale on the lever indicates how many kilogramme metres are equivalent to one revolution of the iron plate. At the axis of the iron plate there is an arrangement by which the number of revolutions of the plate can be controlled, : and 10,000 revolutions can thus be registered. The plate is turned by the patient by means of a winch provided with a suitable haudle. The winch is made of such a length that the patient has to stoop at each turning. Dr. Gärtner chose the winch-work because it was known as the result of experiment that this was the most rational form of werk. 1 man may with the wiach perform great quantitics of work much more easily than in any other way withont excessive fatiguc.
All machines which are moved by haman hands and which require much force are supplied with winches; by this arrangement almost all
the mapcles of the body, and especially those of the vertebral colomn and of the hip are exerted. Another advantage of this form of movement, as compared with scversl others, consists in the fact that the conditions of respiration are very favourably influenced. At each turning the chest is expanded and narrowed, hence a sort of artificial respiration is produced. The wark of the respiratory muscles themselves is much facilitated, and they do not become easily fatigued. It is difficulty of breathing which, in most cases, renders the continnation of heary work impossible, and it was proved by experiments with tha ergostat that persons who had not previoully been able to perform any work whatever, could, when working with it, raise considerable quantities of kilogramme-metres without any dyspoces supervening. The work with the winch has, furthernore, the advantage that the abdomen becomes compressed at eash turning, and a kind of massage of its wells is thus produced, which must obviously hare a good effect on the peristalsis of the intestine and on the secretion of bile. In addition to all this, the ergostat presents the following advantages:-1. It is at the disposal of the patient at any time of the day; every spare minute can thus be ased in bealthy exercise. 2. The amount of work is regulated by kilo-gramme-metrts, in propertion to the patient's strength, jast in the same way as the dose of drugs is adapted to the individuality of the patient. 3. It does not require any skill or practice. 4. The physician can judge for himself as to the patient's diligence by the position of the dial which registers the revolutions. 5. The use of the apparatus need make no noise or disturbacce in the bouse.

Dr. Gärtner has employed the apparatus in a case of excessive obesity. The patient, who had become almost breathless on the slightest movement, was able to do a considerable amount of work with the ergostat on the very first day without being attscked with dyspucea. She has now been working with the machine for nineteen days, and performs 2,000 revolutions, each of which is equal to twelve kilogrsmme-mètres, in about a handred minutes. She has not changed her diet or ber mode of living in any way, and yet she has lost, siace the beginning of the treatment, abont fonr kilogrammes in weight. Similar good results have been obtained in another case of obesity.

The ergostat cau also be employed in some forms of nerve-disease, and in disorders of the portal circulation, in chronic constipation, in biliary calculus, gent, and opaluria.

In using the ergostat, the following roles should bo observed :I. The revolutions must be executed vers slowly, not more than from twenty to twenty-five in the minute. 2. Speaking is not allowed during work. 3. The work is performed during winter in an onheated room, and the windows must always be opened. 4. The patient's dress must be easy and convenient. 5. No mork should be dene immedistely sfter a meal.

## THE CASE OF DR. CROSS.

The friends of Dr. Cross are working to obtain a respite of the death sentence, and the following is a copy of a requisition to the LordLientenat $t$ :-
To His Excellency the Most Nohle Charles, Marquis of Londonderry, LordLientenant of Ireland.
The memorial of the undersigned hombly showeth,
That Philip H. E. Cross, a retired surgeon-major in Her Majestr's service, was on the 17th day of December 1887 found gnilty of the numeder of his wife, Mary Lanra Cross, and sentenced to be banged on the loth day of January, 18ss.

1. That grave doubts are entertained of the justice of the conviction, arising from the fact that the analyst had not previously examined the body of a person sapposed to bave died from arsenical poisoning.
2. Tbere is no direct evidence to connect the scensad with the alleged crime.
3. That the evidence was entijely circumstantial.
4. That a most important niece of evidence bss turned ap since the trial, as cmodied in then inst, by Mr. Johr Chsrles Westronp Butterfield, of the clty of Cork, dentak sorinst., by Mr. Johit Charies Westropi Butwerfela, geon, to the effect that the late Mary Laura Cross had nn two occasions aluded to poison in his study, asked him if he could procure if for her, and inquired if be had heard that arsenic was good for the complexion, and any one of which ocessions was as recont as the 6 th day of Aprll last
5. That the said P. H. E. Cross was rery unpopular with the masses of the people of Cork and its neighbourhood, had been boycotted, and subjected to many signs of pomular indignation.
b. That he is a man of advanced geara
6. That he has aerved Her Majesty for many Jears in Enrope, Asia, Africs, and Homerica ancer in the Indian Mntins, at the Crimes, the America, amongst others was eagaged in the in
China campaign, etc., and received three medals.
China campaign, etc., and received three medals.
lour petitionerg therefore hombly implore jour Excellency to milligate the
Iour petitioners therefore hambly implore snor Excellency to miligate the
capital sentence passed on the said Philip $H$. E. Cross, and your getitioners will, as in duty bound, crer pray.
[Here follow the columns for signature.]
The petition has been forwarded to Mr. Justice Mrurphy (who delirered the sentence) for his comments, bat the prevalent opinion is that His Excellency will not interfere with the carrying on! of the sentence.

MEDICAL LI:CISIATION IN BOMPAI
TuERe does not cxist in In lia guerally tho means of distingnishing betwoon qualifiod and unyualified igmorant practitioners of modiciuo, anch as was provided by the Medical Act of 1858 fur the public in Great Britain and Ireland, and, subsequently, in several of the colocies. It appears from a memorisl recently presonted to tho Gorermment ard Council of lombay by the IBmbay Modical Uniou that in the year 1881 the Medical Socicty of the Grant Medical College brought under the notice of the Governor and Council of Bontbay tho wecessity of passing an Act in Council in many rospecta similar to tho Medieal Act of 1858 of this conntey. Tho proposals submitter? to the Government wero as follors :-

1. That medical men be pulaicly registered in the city after a sumpiont scrating of their diplous or degrees, rendering it tllesal for anyone to assmme a title which is net so registerell.
2. That none bat persons so rechistered bo entilled to demand and recover clarges in any court of law for professional aid, advice and visits, and the cost of any medicincs, or other medtical or surgical appliances, readered or supplied by bina in his matients.
3. That rum hot persons so registered be eligille for emplayment as a phymieian or surgeon ill emigmne or other vessels, or in any hosyital, infirmary, Alisumaty, or lying-in lospital (not supported entirely by voluntary contributons), orin any lanatic asslum, ganl, penitentlary, houss of correction, honse of Industry, or other public establishmeut, bovly, or institutina, or as a medical omper of health.

That no certiticate required by any Act now in furce, or that may hercafter in passed, from any physician, surgeon, licentiate of medicine or surgery, or other trellical practitinarr, be considered valid unless the person signing the same le registered under the proposed Act.

Arguments in farour of these propossls for legislation rere at the time (1881) submitted to the Government of Bombsy with such good effect, tlist a Medical Registration Act, founded od these principles, swas strongly recommended by that Government to the Government of India But the Government of Bombay went beyond this. Thoy proceeded farther than the expressed mishes of the Medical Socioty of Grant College, and saggested that such a measare, if introdaced, should not be confined in its operstion to the town and island of Bombay slonc, or eren to ono presidency, bat shonld hare application to the whole of India. This recommendation of a widespread registration. Ict was fatal to the proposal emanating from Bombay. It was felt to be impossible to spply a measure of this charscter to the whole of such s country as India, and the recommendation of the Bombsy Government was not accepted.
Tho Bombay Medical Union, st a meeting beld on November 12 th , 188\%, have unanimously agreed to recommend the Governor aud Comacil of Bombay to return to the original recummendation of tho Medical Society of Grant College, which had received the decided spproval of the Governmert of Bombay of that date, and which is to tho effect that a Medicsl Registratiou Act should be now framed, fonnded ou the principles approved by the Government in iss1, and should apply to the city and island of Bombay, with yower on the part of the Govornment to extend the operation of the Act to tho minor cities of the presideney.

Without entering into the question how far such an Act could be adopted throughout India generally, wo hare no hesitation in saying that it is an absoluto necessity that such an Act should be mado available for the principal cities of India. Take, for example, the city of Bombay, the population of which is 800,000 . Tho members of the Medical Uniou having taken aome psins sud undergone some expense to ascertain the facts, find that the total number of unqualified persons practising in the city of J3ombay is abont 640, out of which eighty nass themselves ofl under the title of "Doctor." Surely without roferance to ony special interests or privileges of medical men, it is tho imperstive duty of a fovernment which regards the welfare of the communities committed to its charge, to take means to protect then and their most vital interests from being imposed apon by ignorsnt and frandalent practitioners. Wo bave every confidence that the Goremor of Fomhay, Lord Reay, who is alike distinguished for his high scientific attainments and his wisoly-temperd liberal feelinge, will sdopt a courso on this sabject which will be condacire to the welfare and the interests of the people committed to his charge ; and that ha and his alvisera will not bo relactant to adopt the principles so highly approved by bis predecessor in 1881.

Iforpital Teleifone. - The authorities of the Hospital for Con4nmptires, at Veatnor, have decidel to eatablish telephonic communication between the different wards of the hospital, tha resident medical officer, and the porter's lodge. The installation is being carricd ant by the Equitable Telephons Associstion Limited, on their "Sminton" system.

## ROYAL COLLEGE OF SURGEONS OF ENGLAND.

As cxtraordinary meeting of the Conncil was beld, at the College, on Tharslay afternoon, Jannary tho 5 th. Tho minutes of the ordinary Council, held on December 8 th last, Trere read and confirmed. The Council then proceeded to the special business for which it had been convened, uamely, to read and consider the report of the Iresident and Vice-l'residents on a lettor from tha Lords of tho Council, forwarding a copy of the statement relating to the supplementary charter prepared by the Association of Fellows, and requesting to be favourcil with any remarks thereon which the Coluncil may bave to offer. A further letter from the Privy Conncil, forwarding for the information of the College a printed document, purporting to be a roport of the statement made by Mr. Ernest Hart as spokesman of the deputation of the Association of the Members of the College to the Lord President on the subject of the applicstion for a supplementary charter, wss not read, but mas deferred till the next meeting of the Council.
The Council, after a considerable deal of discnssion, agreed to a statement to be sent to the Lords of the Council in reply to the objections raised by Fellows and Members to the application which has been lodged for a supplementary charter, subject, of course, to confirmation by the Council at its quarterly meeting on Thorsday next.

Vaccination Grant.-Dr. White, Belmont, Wadhurst, public vaccinator of the Wadhurst District of the Ticeharst Union, has again received the grint from the Local Government Board for gucceesful vaccination in the district.
Carbonatr of Soda and Milk.-At a recent meeting of the Conseil d'Hygiène M. Pronst presented a report on the system of preserving milk with carbonate of sods. He considers that this method should be prohibited. Carbonate of sods prevents the milk from turning sour, bat produces a solium lactate, which is a purgative, and causes diarrhœs in infants.
The friends and pupils of M. Péan a fert days ago celebrated his nomination ss Mernber of the Academy of Medicino by a bsnquet given at the Hotel Continental. Moro then two hundred persons rere present. Toasts were proposed and speeches wore delivered by M. Peyrou, director of the Assistance Publique, M. Guibout, M. de Pietra, Santa, and others.

Permanganate of Potassicm in Amenorrhea. - The treatment of amenorrbea, according to the method suggested by Professor Sylney Ringer and Dr. Mfurrell, has fonad a new supporter in Dr. J. D. Korotkevitch, of Türingk, in West Siberia (Russkaia Meditzina, No. 15, 1897, p. 262). In five successive cases of obstinate amenerrhcer of obscure origin, ho admiuistered permanganate of potassinm in the following form: R Potass. permsugan. one drachm; argill. pur. q. s. M. f. pil. No. 50 , Consperg. argill. pur. D. S. Two pills at dinner and supper time. The results were quite satisfactory in all the cases. After treatment lasting for a month or six weeks, the catamenia became regalar, sud remained so.

Permanganate of Potassium in Toothache.-In the Russiaia Mectitina, No. 19, 1887, p. 330, Dr. Prokopy Popotf, of Jinüsinsk, in "Siberian Snitzerland," writes that he has most snccessfnlly treated uprarde of three hundred cascs of toothache from dental caries by admiuistering ono-twentieth per cont. solution of permangsnate of potassium in the form of a month-wssh. The following is the formula: R. Potass. permang., 3 grains; aq. destil. or fontanæ, 1 (Russ.) 1i. pound, Misc. One tablespoonful to ba taken in the month, every half-hour, and to bo held therein on the affected sido for several minutes. Tho most agonising pain is ssid gradually to disappear in a few hours. The mash scts, besides, $8 s$ an excellent deodoriser.
Dinitrokrfssol. - M. Th. Weyl bas ascertained the following facts concerning dioitrokressol, a colouring matter which is sold as a subatitute for saffron for colouring batter, maccaroni, etc. He states that this eubstance causes death in rabbits in dosos of 0.25 gramme to a kilogramme of the weight of the animal. Whon this quantity is sdministered, the animal is scized with dyspaces and conrulsiona in the extensor muscles, and finally dios of asphyxia. Dinitrokressol is che. mically allied to picric acid or trinitro-phenol. The aymptoms of intoxication produced by these substances are very similar. Martins yellow, or dinitro-sipha-naphtel, is somotimes used to colour food stuffs, but it is not toxic.

## ASSOCIATION INTELLIGENCE,

COUNCIL.

NOTICE OF JEETING.
A meeting of the Council will be held at the Offices of the Assooiation, No. 429, Strand (corner of Agar Street), London, on Wednes day, tho 18 th day of January next, at 2 o'clock in the afternoon.

December 24 th, 1887.

## ELECTION OF MEMBERS

Candidates saeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council onless his name has been inserted in the circular summoning the meeting at which he seeks election.

Franois Fower, General Secretary.

## BRANCH MEETINGS TO BE HELD.

Metropolitas Counties Brance: Eaet London and Sonth Fssex Diatrict. The next meeting will be held, by the kind invitation of Dr. Adams, at Brooke House, पpper Clapton, on Thursday, Jouuary 19th, at 8.30 P.m. A demonstraton of tntcresting cases ${ }^{\text {I }}$ of eye disease will be glven by A. Q. Silcock, Esq. Visitors will be welcomed.-J. W. Hear, Honorary Secretary, I01, Quéen's Road, Visitors
Dalston.

Norte of Ibelańd Branch, -A general meetiog of the N'orth of Ireland Branch will he held iu the Royal Hospital on Thursdey, January 26th, 1S8S, at 12 o'clock noon. Gentlemen desirous of reading papers exhibiting cases, specimeds, etc., will kiadly compmoicate as early as consenient with the secretary, Jons W. Bytrs, M.D., Lower Crescent, Belfast,

Oxpord and District Brasice.-The next meeting will be held at the Radcliffe Infirmary, Oxford, at 3 D'clock on Friday, January 27 th. Notice of papers to be read and cases to be shown must be given to cither of the Honorary Secretaries on or before Monday, Janaary 23ri. Menibers are requested to send their anaual subscriptions to the Associatiom and the Branch, due January Ist, to Dr. Darbishire, $9 h_{\text {, }}$ Holywell, Oxford. -S. D. Darbismire, W. Lewls Morgan, 42, Broad Street, Oxford, Honorary Secretaries.

## SOUTH-WESTERN BRANCH.

An intermediate meeting of the Branch was held on Tharsday, December 15th, 1887, at Newton Abbot, the President, Mr. Patl Swatn, F.R.C.S., of Plymouth, in the chair. About twenty-four members were present, including Dr. Joun WOodman, of Exeter, President. eloet.

New Members. - Several new mambers were elected.
President's 'Address.-.The President then deliverer an addrass on College Politics, which was devoted to a discussion of the line which the Council of the Royal College of Surgeons of England had taken in regard to important natters affeetiog the medical profession, especially in ragard to medical education, and advocated the neceasity for alterations in the constitution of the Council, and the mode of election of its members, with special reference to the proposed new charter for the College.

Dote of Thants and Resolution:-A cordial vote of thanks was awarded to Mr. Swain for his address, and the following resolution was passed, on the motion of Mr. E. J. Dosiville, seconded by Dr. Dfas:
'That this meeting desires to ondorse tho opinions expressed by tho President of the Branch in the paper real by him, and requests him to publish it, with a view to a copy being forwarded to the Lord Presileut of the Council."

Papers.-The following papers were then read: Case of Pleurisy and Empyema : Tapping : Drainage Tube: Recovary, by Dr. John Woodman, Exeter.-On the Importanee of Early Diagnosis in Glaucoma, by Dr. L. H. Tosswill, Exeter. - Case of Aleoholie Parslysis, hy Dr. A. H. Pampton, Plymouth.-Dr. Arthur Kempe, Exeter, showed and explained a New Surgical Needle.

Lunchcon.-After the meeting the nembers wera hospitably entertained to a lincheon by the local members, Dr. Scott and Mr. Davies, Newton ; Mr. Symons, Kingskerswell ; and Mr. Goodwyn, Bovay.

## METROPOLITAN COUNTIES BLANCH: HERTFORDSIIIRE

 DISTRICT.A meeting of tha above District was held at the Toma Hall, St. Albans, on Wedneaday, December 21st, 188\%. The chair was taken by Abthur Duraiat, Esq.

Hystcric and Neurotic Dyspepsia.-A paper was read by Dr. Hale White on the Treatment of Cases of Severe Hysteric and Nenrotic Dyspensia. Notes of two cases were given, in the first of which the patient had uncontrollable romiting, in tho second the chief symptom was diarrbess. Each of them Was complately cured by isolation, overfeeding, and massage. Hysteria in all its forms may be cared in the same way.-Discussion followed, and a vote of thanks was passed to Dr. Hale White for his paper.
New Rules. -The new rules on the agenda paper were discussed and adopted.
Vote of Thanks.-A vote of thanks was passed to Mr. Arthur Durham in recognition of his gooduess in presiding for the occasion.
The business of the meeting over, members were entertained at the house of Dr. Lipscomb, of St. Albans.

## NEW SOUTH WALES BRANCH: SIXTY-EIGHTH GENERAL MEETING.

THe sixty-eighth general meeting of this Branch was held in the Royal Society's Rooms, Syduey, on Fridsy, November 4th, 1887. The following members were present : the Hov. Dr. Creeed, M. L.C., President, in tha chair ; Drs. Chambers, Chisholm, Sydner Jones, Pockley, Knaggs, Wright, E. Fairfar Ross, Steel, Worrsll, Hankins, McCor. mick, McDonagh, Bowker, Wést, Crago. Dr. A. E. Barcroft attended as a visitor.
The minutes of the previous meeting were read and confirmed.
Axillary Ancurysm -Mr. G. F. Hankins read notes of s case of axillary aneurysm, with ligature of the subclaviau arters.Dr. Sydney Jones' said Mr. Hankins was to be congratalated on the success of the operation. The statistics upon which all calculations were based were collected before antiseptics were nsed. If the result bf the operations of the last eight or ten years were collected, a great difference would, no doubt, be found.-Drs. Yorrall, E. F. Ross, and the President also made some remarks.
Removal of Genitals.-Mr. G. F. Hankins read notes on a casa of total ablation of the genital organs in a man aged 50 , and showed the patient.

Diabetic Coma.-Dr. Crago read some notes on a case of diabetic coma.

Rerision of By.laws.-Dr. Jones pröposed, and Dr: Crags seconded, "That the consideration of the by-laws be postponed nntil next meeting night, and that it be the first business of the evening." Carried.

New Member.-Dr. Leacock, of Camden, was elected a member of the Association.

## STAFFORDSHIRE BRANCH: GENERAL MEETING.

Tre first general meeting of this Branch was held at the Railway Hotel, Stoke-upon-Trent, on Thorsday, November 24th, 1857. Mr. W. D. Spanton, President in the chair.

New Members.-The following gentlemen were elected members of the Branch : Mr. J. Raskin Haneock, Hanley ; Dr. Armitage, Wol. verhampton; Mr. F. Matthews, Nautwich.
Raynaud's Diseasc.-Dr. Mcaldowir showed a case of Raynaud's disasse occurring in a female epileptic, aged 18.
Phosphatic Calculus with Hairpin as a Jucleus.-Mr. West showed a specimen reighing half au ounce, which he had removed from a young woman per urcthram.
Villous Growths in the Bladder.-Dr. W. G. Lowe exhibited two villons growths from the bladder, of papillomatous nature, situsted close to the orifice of the urethra. They were taken from a woman aged 73, who had been the subject of occasional hæematuris for several years, though without pain or dificulty in micturition, and who nlti. mately died after a sudden profuse hamorrhage from the bladder.

Wound and Skin after a Dog-Bitc.-Dr. W. Hind exhibited the Tound and a portion of the surrounding skin after the bite of a dog, supposed to bo rabid, aud which was excised from a boy on the third day after infliction, on nccount of pain and a low form of inflamma. tion.

Fibro-sarcona of Breast.-Mr. Spaston exhibited a fibro-sarcoma of the left breast weighing three ponads and a half, removed from a young womau last July. In February, 1S84, a much smaller tumour of similar character had been removed by Mr. Spanton. The wound healed in five days, and the patient had since beeu quite well.-Mr. Yincent Jackson showed the photograph of a femalo patient exhibit. ing an enormously enlarged right mamma, due to a fibro-sarcomatous tumour, which, when removed, weighed more than six pounds. Nicroscopic specimens of the tumour, prepared by Dr. Heneage

Gibbes, were also shown. The revorery of tho patient was rapid and casy.
Specimene-Mr. Sraston showed: 1. Fihrous Tumour remored from Sheath of Bicepa Femoris of a man aged 20 , potter's tumer, Oztober Sth, 1SS7, coming slowly, cansing inability to move the limb freely; sool recorery, but slow. 2. Tubercular Tostis, from man aged t6. Threo years had pain in left testis, which camo on rather हuddouly. At times inflamed; neror suppurated. Under caro of Dr. Edfowes. Operation Norcmber 18th.

Pagers. -Tho following papers were read: 1. Dr. Modldowte : Notes of a Case of sensory Aphasia. 2. Mr. Foleer. Villous Tumour of the lectum. 3. Mr. Forker: Malignant Diseaso of Uuper Jawf, and Operation, 4. Dr. Wneatos Hind: Nates of a Case of Reduction, en masse. 5. Mr. V"incent Jackson: Radical Treatnent of Serere Hamarrhoids.

## BORDER COUNTIES BRANCH.

The winter mecting was held at Melrose on December 23ri, 1887. Dr. McLeon, President, in the chair, and afterwards Dr. Robertson, Preaident-elect. Sixteen members and one visitor, Dr. William Russell, of Flinburgh, were present.

Nere A/embers.-The following new members were olected members of the Branch: Charles Heary Bedford, M.B., C.M., Rowrab, Cumberland (proposed by J. R. Irwin and G. Calderwood) ; John Rass, M.B., C.M., Wetheral (propased by S. Lackis and II. A. Lediard); William Rushton Parker, M.D., Kendal (proposed hy T. B. Grean and B. R. A. Taylor) ; Willians Jordan Fairlie, M.B., C.M., Carlisle (propnsed by S. Lockie and G. Murphy); William Laing Cullen, ML. B., C.ML., St. Bosmells (proposed by J. R. Hamilton and I. M. Fenman).

Iroposed Mecting. - It was agreed to hold an orening moeting in Carlislo towards the end of February, to take the place of the Moffat mesting. Which fell through for want of papers, and to invite an emiuent medical man to introduce a discassion on the occasion.

Auditors for the Year.-Drs. Maclaren and Lockio were appointed to andit tho accounts for the year.

Fuerperal Mania. - Dr. Somerville (Galashiels) read Notes of some cases of l'uerperal Mania. The cases were three in namber, the patients all boing multipare ; two of the cases were fatal, terminating one on the trenty-sixth and the other on the thirtioth day; one recovcred after an illness of ten or twelve weeks. Althoughinall tho cases thero was more or less abdominal pain and ntorine teuderness, there was no l'critooitis, no diarrhees, no tympanitic diatension of the abdomen. Dr. Keith's recent observation as to the frequency of mania after the peration of hysterectomy had an interesting relation to puerperal mania. - In the discussion which followed the President, Dr. Johnstone, Dr. Barnes, Dr. Haddon, Dr. Hamilton, Dr. Maclaren, and Dr. Rutherforn took part.

Unhilical Mernia.-Dr. Rutuerporn (Kelao) read Notes of a Caso of Uabilical Hernia treatod bncessfolly by Elastic Pressurg.

Ligatere of Femoral Artery for Aneurylsm.-Dr. Robertson (Penrith) read a paper on Ligaturo of the Femoral Artory in Hunter's Canal for Traunatic Aneurysm.
Idionathic Peritonitis.-Dr. Hamilon (Ilawick) read a paper on the 'rreatment of Idiopathic Peritanitis. - In the discussion which followed Drs, Robertson, Ifaddon, Rưsele, Rutaerford, and Maclaren took part.

Leprosy.-Dr. DARNes showed some drawings of Norwegian leprosy.
Cashs of Cases.-Dr. Maolaren shnewd casta hefore aml operation of (1) a Large Ventral Iernia, and (2) Talipas Eipuino. Varus.

Dinner.-The menabors and roveral guests afterwards dined together in the George and Abhotsford Hotel.

## GLOUCESTERSHIRE BRANCII.

As erdinary meeting was held at Gloncester lufiruary, on Tuesday, December 13th, 1887, at 7.30 r.M., under the presidency of Dr. Battex.
Priestly Smith's Pcrincter.-Mr. Power gave a full demonstration of l'rieatley Smith's perimeter.
Crases.-Ho also showed the following cases: 1. Chapcre on the Onter Canthus of Eya in a Girl; 2 A Case of Clioma in a Chile $3 \frac{1}{3}$ ycars old, and pointel out the differenco betweon trae glima and psendo-glioma.

Insmitary Houses.-A paper was read by Mr. Cardew on Insanitary IIonses and their Results.
Varicase Aneurysmi of Aorta.-Mr. Knages, honse-surgenn of the Gloucester Jnfirmary, showed a pathological opecimen of Varicoso

Aneurysm of the Aorta Opaning iuto the Pulmonary Artery, from a patient lately under Dr. Batten. The history of the opening into the pulmonary artery was vory short, only three weoka.

Fote of Thanids.-A vote of thanks was passed, proposed by Dr. Nremuam, and zeconded by Mr. Bovrs, to the outgoing Preaident, Dr. Batten, for his conduct and zeal in the chair during the past year.

## NOTA SCOTIA BRANCH.

Tue first ordinary meeting of this Branch was held in Hralifax on December 6ch, 1887, the President, Dequty Surgeon-General McDowell, A.M.S., in the chair ; and the other members present were Hon. Dr. Parker, Drs. Hayter, Black, Wickwire, Surgenn-Major Bolster A. M.S., Surgaons Doeble and Browne, Drs. Farrell, Milsom, Cowie, Chisholm, Morrow, Carria, Somers, and Tobin (Honorary Secretary).

Letler from Gencral Sceretary of Association. -The latter from tho General Sacretary of the Association, lorwarding a copy of the resolution passed at a Council meeting held in Trinity Collage, Dablin, on Tuesuay, August 2nd, recognising the Nova Scotia Branch of the Association, and thanking thoso who had been instrumental in founding aaid Branch, was first read ; and it was maved by Dr. Mrlsom, and agconded by Dr. Parker, "That a copy of said resolution should be placed on the minutes."

Tcleny.-Dr. Milson (Dartmouth) then read notes of a cass of tetany at present under his care, in the treatment of which be had been assisted by Dr. Parker. The patient was a man who had boan subjected to malarial poisoning in Panama, and was successfully treated by quinine when other remedies had failed. - A discussion enaued, in which Hob. Dr. Parker, Dra. Slayter, Somerb, and Deence, A.M.S., took part, Dr. Deeble inatancing a similar affection in a lady who had auffered from malaria in ladia, and whose larynx and pharynx were principally affected by the recurrent spasmos.
Intubation of Larynx.-Dr. Brack next exhibited the inatrumenta used in intubation of the larynx, and gave an account of the method as sean in the clinique of Dr. O'Dwyer of New York. Intabation versus tracheotomy in diphtberitic cranp formed the subject of a discussion in which the President, Drs. Farrell and Black, amongst others, took part.
Lithotrity.-Dr. Farrell exhibited stones and datritus washed from the bladder in a late case of lithotrity, in which cucaine was in. jected into the urethra and bladder.
Abscess of Lung.-Dr. Farreli also gare the history of a case of abscess of the long supposed to be due to impaction of a cherry-stone in the bronchi several years before.-Drs. Slayter and Chisholm gave similar cases.

Ilypodermic Injcetions of Mercury in Syphilis,-Dr. Slayter brought forward a case of secondary syphilis ancceasfully treated by hypodermic injections of mercury. An abscass, however, had formed at the sites of the punctures. - Dr. Monrow had seen suceessful treatment of syphilitic skin affections in Dr. Lesser's clinique in Leipzig. -Drs. Somers and Chisholm made some remarks, and Dr. Slayter briefly replied.

Future Mceitings. - It was unanimonsly agreal to hold meetings monthly throughoat the winter, and the meeting edjoarned, leaving the Council to fix time and place of such meetings.

## BRITISH MEDICAL ASSOCIATION. <br> FIFTY-SIXTH ANNUAL MEETING.

Tue fifty-8ixth Anumal Meeting of the British Medical Association will ho hold at Glasgow, on 'Tuesday, Wednesday, Thuraday, and Friday, Angust, 7th, 8th, 9th, and 10th, 1888.
I'resitent: John T. Banks, M.D., D.Sc.(Hon.), F.K.Q.C.F.I., Regius Professor of Physic in the University of Dublin.

Presitent-Elect : Prolessor W. T. Gaisduer, ML.D., LL.D., Prafessar of Medicine in tho University of Claceow.
I'resident of the Council: Thomas Bridgwater, ML. B., J. P., Marrom-onthe. 11 ill.

Treasercr: Constantine IIolman, M.D., J. P., Reigate.
An Adrress in Medicine will be delivered by Thomag Clifford Allbutt, M.D., Consulting I'hyaician, Leeds Genoral Infirmary.

An Address in Surgery will bo delivered by Sir Georgo II. B. Macleod, M.D., Surgeod in Urdinary to Her Majosty in Scotlaud.
A Special Address on his "Rerent Investigations in Surgery" will be given hy William Macewen, M.D., Lecturer on Clinical Surgery, Glasgow Royal Infirmary.
An Address in Thysiology will be delivered by John Gray McKendrick, M.D., LL D., F.R S., Professor of Inatitutes of Madicine, University of Glasgow.
A. Menicink.-President, T. McCall Anderson, M.D. Vice-Presidents, W. L. Bowles, M.D.; George F. Duffey, M.D. Honorary Secretaries, J. McGrigor Rohertaon, M.D., 400, Great Western Rosd, Glasgow ; Robert M. Simon, M.B., 27, Newhall Street, Birmingham.
B. Suroery.- President, George Buchanan, M.D. Vice-Presidents, James Dunlop, M.D.; Charles Robert Bell Keetley, F.R.C.S. Hono rary Secretaries, David Neilson Knox, M.B., 8 , Indis Street, Glasgow: Walter Pye, F.R.C.S., 4, Sackville Street, Picceadilly, London, W.
C. Obstetric Medicine. - President, Thomss More Madden, M.D. Vice-Presidents, William Leishmad, M.D.; J. Halliday Croon, M.D. Hovorary Secretaries. William Walter, M.D., 20, St. John's Street, Msnchester ; W. L. Reid, M.D., 7, Royal Crescent, Glasgov.
D. Public Menicine. - President, Henry Duncesn Littlejohn, M.D. Vice-Presidents, James Christie, M.D.; D. Fage, M.D. Honorary Sccretaries, Ebenezer Duncan, M.D., 4, Royal Crescent, Crosshill, Glasgow ; John C. Mc Vail, M.D., Holmhead, Kilmarnock.
E. Psychology.-President, James O. Howden, M.D. Vice-Presidents, James Rutherford, M.D.; Jaliue Mickle, M.D. Honorary Secretaries, A. R. Urquhart, M.D., Marray House, Perth; Alex. Newington, M. D., Ticehuret, Suseex.
F. Anatomy and Physiology. - President, John Cleland, M.D., LL.D., F.R.S. Vice-Presidents, R. J. Anderson, M.D.; Henry Edwsrd Clark, F.F.P.S.G. Honorary Secretaries, John Barlow, M1.D., 27, Elmbank Crescent, Glasgow; Charles Barrett Lockwood, F.R.C.S.; 19, Upper Berkeley Street, Portman Square, W.
G. Patholocit. - President, Sir Willism Aitken, M.D., F. R.S., K.C. B. Vice-Presidents, Alexander Dsridson, M.D.; Joseph Costs, M.D.; Charles Roy, M.D. F.R.S. Honorary Seccetaries, G. Sims Woodhead, M.D., 6, Marchhall Crescent, Edinburgh ; J. Lindsay Steven, M.D., 34, Berkeley Terrace, Glasgow.
H. OphthalmoLogy.-President, Thomss Reid, M.D. Vice-Presidents, J. R. Wolfe, M.D.; C. E. Glascott, M.D. Honorary Sccretaries, Henry Bendelack Hewetson, M. R.C.S, 11, Hanover Square, Leeds; A. Freeland Fergus, M.B., 41, Elmbsank Street, Glasgow.

1. Orology. - President, Thomas Barr, M.D. Vice-Presidents, John Astley Blozam, F.R.C.S.; J. J. K. Duncanson, M.D. Honorary Secretaries, Johnstone Macfie, M.D., 23, Ashton Terrace, Glasgow; H. J. Hardwicke, M.D., 38, Holly Street, Sheffield.
J. Digeases of Children.-President, Walter Butler Cheadle, M.D. Vice. Presidents, James Finlayson, M.D.; Henry Ashby, M.D. Honorary Secretarics, George S. Middleton, M.D., 23, Sandy ford Place, Glasgow; W. Arbuthnot Lane, M.S., F.R.C.S., 14, St. Thomas's Street, S. E.
K. Pharmacolooy and Therapeutics.--Presitent, Jemes Morton, M.D. Vice-Presidents, John Dougall, M.D.; Theodore Csab, M.D., F. R.S. Honorary Sceretaries, Alexsader Napier, M.D., 3, Roysl Terrace, Crosshill, Glasgov; Sidney Harris Cex Martin, M.D., 60, Gower Street, London, W.C.
L. Larynollogy and Rhinoloby. - President, Felix Semon, M.D. Vice. Presidents, George Hunter Mackenzie, M.D.; Peter McBride, M.D. Honorary, Sccretarics. D. Newman, M.D., 18. Woodside Place, Glasgow ; A. E. Garrod, M.D., 9, Chandos Street, Cavendish Square.

Honorary Local Secretarics, John G. McKendrick, M.D., F.R.S. 45, Westbourne Gardens, Glasgow; James Christie, M.D., Hillhesd, Clasgow ; John Glaister, M.D., 4, Grafton Place, Clasgow.

Programme of Proceedings.

## TUESDAV, AUOUST TTH, 188 S .

9.30 A.3.-Mecting of 1887.88 Conncil.
11. 80 A.m. - First General Mpoting. Report of Conneil. Reports of Committees. Service in the Cathearal
diourned General Mecting from $11.30 \mathrm{~A} . \mathrm{s}$. Fresident's

- Adress.

Wednegdar, Aroter Sth 1585
9.30 A.34.-Meeting of 1883.59 Council.
10.80 A. M, to 2 F.M.-Rectional Meetings.

S PM.-Second General Meeting. Address In Dedicine by Thomas Clifford Allbutt, M. D., F.R.S. ThURSDAy, ACOUST 9TH, 138S.
930 a.m.-Meeting of Conncil.
$10.30 \mathrm{~A} . \mathrm{M}$. to 2 F.M. - Sectionsl Meetings.
8 p.M. - Third General Meetivg. Address in Burgery by Sir George H. B. Macleod, M.D. F F.s. - Public Dinner. Fridat, Aunugt 10ta, 15ss.
9.30 A.m.-Addrees on his Recent Surgical Investigations by William Macewen, M.D. John G. MeKendrick, M.D., F.R.8.

Satorday, Avotet 11 te, 1888.
Excuroione.

## SPECIAL CORRESPONDENCE.

SPRAY FROM THE CARLSBAD SPRUDEL. III.

The Real Secret of the Carlsbad "Cure."-A Municipality of Sircetness and Jight.-What it all Costs.-The Budget.-Cure Tax.-Music Tax.--Bands.-Hints for Home Use.
What a vast addition it would be to the attractions of our heallh resorts auch ss Brighton, Bath, Cheltenham, Buxton, and Droitwich, if they offered to invalids, pleasure seekers, and searchers after that kind of repose which is itself medicine to the mind and body, parks, woods, music of the first order, which conld st all rival the strractions which the minasculons town of Carlsbad puts freely at the disposal of its 30,000 annusl visitors.
The Real Secret of the Carlsbad "Curc."- At Carlsbad, as I have said, the "cure-guest" drinks his matutinal tumblers of saline water at wells, oue of which is covered with a rast winter garden of glass, and to the strsins of one of the hest bands in Europe, which plays from
half.pset eix devotione at the half.past eight-the honrs consecrated to these morning splendid colonnade of the Mrühlbrunn, where suother division of the same bend is playing, and around the Stadtpark, which is prettily cultivsted and gay with flowers and fountains, and where the grandiose and conveniently arranged restaurant with its orchestral ssloons for bad westher and for evening amnsement, provide that agreesbly snggestive hotel decoration of a lsndseape, which Dr. Johnson focnd 31 ways to add charms to the view.
A Municipality of Swectness and Light.-An elaborate, extensive, and varied range of baths sre provided by the manicipality. The visitor breakissts beneath the trees or in the various saries of garden restsurants of which the sites are furnished by the municipality, and jealonsly guarded by them : and for his subsequent exercise daring the day he has a range of 30,000 acres of pine wood, laid out with mile npon mile of well kept and carefully graded paths. The whole of this fir forest is watched by thirty civil snd vigilant keepers and ten foresters, sud there are fiftj English miles of walk. Seats are provided at every 200 or 300 ysrds, and the distances are carefully marked for the benefit of the devotees of the strict "exerciss cure." The foresting is carried out scientifically sud with a view to artistic effect ; at a dozen different locslities, selected with a serious view to convenience as to distance and picturesqueness, there are little restanrants or coffee honses, of a small but snfficient accommodation, and picturesquely constructed.

What it all Cosits.-To supply the visitor with these manifold attractions and conveniences there has beeu a large ontlay by the municipality. The colonnade of the Mühlbruna cost the tomn 700,000 gnlden; the winter garden of the Spradel, 300,000 gulden ; that of the Markbrunn, 25,000 gulden ; 300,000 gulden were expended on the Stadtpark; and as much as 250,000 gulden have been expended on the bnilding of the Kurbans, which contains suites of baths below, and above an admirable reading room, richly provided with periodicals of all conntries, as well as hall room and restaursat, with the inevitable orchestra and music room attached to it ; 600,000 gulden have been expended in the erection of a commodious and beaulifully decorated theatre, which is provided with electric light, and where the performances are so arranged as to terminate always soon after nine o'clock. This theatre is kept by its lessee practicsily rent free, so as to enable him to provide for s small fee performances of adequate merit. The bathhonse at the Neubad has been erected at a cost of 150,000 guldea. Sool-baths (of glairy peat) and other specialities in medicated baths are liberally provided.
The Budget. - Now all this is done in a little towa of $12,000 \mathrm{in}$ habitants, in a remote region, which has little to denend upon in the way of industrial production or other sources of wealth. How are the funds provided? The aoswer is to be found in the anna3l muacipsl budget, and it is a very simple one. The average number of visitors to Carlsbad is anuuslly abont 27,000 , of whom 900 are English and 1,000 Americans. The chief sources of income are a small care tax and mensic tax paid by all visitors who remain for more than five days in Csrlsbsd.

Cure Tax.-The cure tax varies according to the class in which the risitor inscribes himself. Noblemen, officers, landowners, independent gentlemen, professionsl men, bankers, manniactarers, and well-to-do people generally belong to the first class, and pay 10 florins; the second class, people of moderate mesns, psy 6 florins; the third class, that of the working class and small shopkeepere and people of small
means, pay 4 florins ; the fourth elass, chillren under 14 and servants, pay 1 florin.

Music Tax- Tho musio tar in the first class amounts to 5 florins for ove person, \& tlorins for tre persons, and for a party of fivo or more 17 tlorins ; in the secend class, one person pays 3 florins; in the third class, one person pays 2 florins. Todical men aud their families are exempt from theso taxes. For the reading and smoking rooms in the Kurhaus the tickets aro 2 florins a month. Esch visitor, after his arrival, is supplied with a form of assessment to fill up according to the class in which ho intends to rank himself, which is returnod a fow dajes aftermards for parment. In 1885 the cure tax yielded, I Gind from manicipal acconnts, 160,000 galden; and the masie tax yielded 68,000 gulden; the reading rooms 1,090 gulden; and the payments for baths taken by the visitars smounted to 129,000 gulden.

Dands. The kurkapelle or, official band consists of forty-eight members during the scasau, which lasts for five months; and throughout the minter it is maintained at a strength of twenty-four. It is conducted by Herr Labitzky, ons of the best conductors in Europe, and no mean composer. This band has fer rivals in any great city, Whether for classical performance of symphonic music or for lighter pieces. Inadlition to this, there is anadmirable band conducted by Herr Pleyer, which is paid by the hotel-keepers. The result is that you have music twico a day by the official band, and as, often by the unoffieial band. The selection of music was so good, and the performance so thereughly delightful, that I collected the programmes, and have brought them away with me, and fonnd them of much interest and use to some of our Eeglish band-masters.

Hints for Home Use, I do not know how far theso details may ho of value to the administrators of oar English hoslth resorts, but it occurs to me that, by suitable bye-laws, they noed have no difficulty in collecting a large revenue from the visitors, it being always thoroughly undcratood that those revenues should be expended, as at Carlsbad, for the benefit of the visitors. The torturing strains of the perambulating musicians who now make life more or less unendurable at our Eoglish watering places would be replaced by music such as really delights the ear and rests the mind. The incessant growth of smokeproducing honses, which swallow up year after year the green fields, the woods, and the country walks in which every watering place should abound, would be checked. Parks could bo laid ont, pleasure grounds provided, restaurants (which are the property of the monicipality, and are adminiatered under conditions frce from extortion, and suitable to the neads of visitors) mould abound. Instead of the visiter finding himself in a wilderacss of brick, surrounded by competing extortioners whose activity koows no check but tbat of self-interest, he would find himself in a commanity where his feelings, his physical necessities, his mental repose, his recreation, and his facilities for liealthy exerrise are under the care of the municipslity. I do not attribute to the Carlsbad municipality any large philanthropy or generous self. eacrifice for the benefit of their visitors, but they have bad the wiedom to sce that their troe interest consists in consulting on a great acale the nceds of their risitors as a community, and in providing by common manicipal action, out of tbe resources which the visiters themselves supply, such extedaive facilitics for health and recreation as combine to make theirplace one of the playgromnds as rell as one of the health resorts of Europe. It ought not to be beyond the resources or outside the sphere of the combined intelligence of the membere of our local municipalities who seek to make their towns resorts for pleasure-seeking and health-seeking communities to adopt a similar scheme. What Carlsbad, nestling in the far off moantains of Bohemia, with a poor and scanty population surrounding it, and with only one line of railway communication, can achieve, ought not to bo beyond the attainment of our Eoglish baths, situated near the centros of enormons wealth and limitless enterprise. Individual eaterprise has vorked wonders in England, so that tos little thought has been given to the special spheres in which muaicipal combination is necessary to werk out results which no individual can compass. It is, of course, easy to eay that Eoglishmen would not submit to a curo tax or music tax at a 13itish. health resort. If not, why not? Has the experiment over been Inade? My object in giving the above details is to furaish my reasons for believing that such an experiment, intelligently carriad oat in this country, is capable of producing resalts which would giva the place that adopts it a new era of prosperity, and would confer ne emall boon on those who do not dcsiro to be necessarily expatriated as they are at present becauso they cannot get a glass of hot saline rater to driak in our Euglish health resorts, under the same conditlons of conveniont and pleasurable surroundings as are sppplied at Carls. bad and other similar resorts on the 'Coatinent.

Erajest Hart.

## RADIS.

[PROM OUR OWN CORRESPONDPNT.]
Antipyrbin in Hay' Fevere-Antingrin in' Nervores 'Drowsiness:-Skr. gical Erythena from Lodoform Dressings. - Ventilation biy Perforated Glgass:-Fipidemic of Small-pox.-Seaside Ilospitals.-N'cus. Work' on Sohool Hyyiche. |"
Dr. Adolphe Bloch; formerly physician to the Havre Hespital; has used antipyrin with excellent results in a ohse of spasmodic rhinitis (hay. fever). The patient was a man aged 33 , whe complained of cold in the head, from which he had suffered for two 'years. The affection manif asted itself, in the morning on rising, and in the afternoon, when the rindow was opened, by painful attacks of sDeezing, with a copious discharge of watory mucus. There was savere itching and pricking in the ojes, which watered incessantly; and pain in the hoad over the frontal sinuses. , These symptoms completels disappeared during the interval between the attacks. "The throat and tho nasal fosse were normal. On July 6th, 1887, twa grammes of bromide of 'potassium vere prescribed ; these were administored daily, mqruing and night, in syrup of orange-peel. From July 18th one pill, containing five centigrammes of extract of belladonna, was given every moroin'g. The interior of the nose was constantly painted with a solution of hydrochlorate of cncaine (one gramme to thirty grammes of water). This treatment was continued for a week. The affection disappeared for two days, but subsequently reappeared. The dose of extract of belladonna was then administered trice daily. Ten days later; finding this treatmeat rlid not produce satisfactory resulta, M. Bloch ordereil two grammes of antipyrin daily at the hours at which the attacks usually came on. After the first dose the affection' ceased. During oight days only two slight attacks occurrod. The treatment was discontinued for six days; during which there were no attacks; it was thon resamed. I Daring twenty days only two slight attacks' occurred ; one grámme of antipyrin was then administered daily before breakfast. The treatment Was discontinued from September 20th to, October 3rd. On November 8th the patient stated that the hay fever had disappeared sinco the early part of October, altheugh he had ceased to take antipyrin. MI. Bloch considers that the anesthetic action of this substance was not confined to the sonsory and secreting nerves of the nssal Yosse:; it is bighly probable that the spacial action of the antipyrin on the encephalic nerve centres cansed the hypermesthesia of the Schneiderian mucons membrane to disappear.
M. Bloch also obtained good results with antipyrin in a case of nerpous drowsiness. The patient, a man aged 21 , with a nourotic family history, complained of an irresistible inclination to fall asleep every day after lunch. The complaint showed itself after he recovered from typhoid fever two years previously. His digestion was impaired; he was subject to nightmare. The three last cervical and the three first lumbar vertebree were painful' whon touched. "The patient complained of weakness in the logs and itchiog in different parts of the body. Tinctare of nux romica was prescribed in doses of siz to eight drons béfora meals during six months. The digestion improred ; the drowsiness diminished. Eight months later the patient again complained of persistent sleepiness, accompanied by hoadacho and debility. Two grammes of antipyrin in the form of wafers were admit nistered daily-one when the patient woke in the morning, the other at 11 o'clock. Four lays afterwards the drowniness and headache disappeared. The dose was reduced to one gramme, which was administered at 10 o'clock every morning. The ircatment was alternately discontinued and resumed during ton or elevon weeks. On January 10th the patient stated that the drowsiness had entirely disappeared. lle had not taken antipyrin for three weeks. The action of antipyrin manifested itself from the first day it was administered. A dose of tro grammes, and subsequently one of one gramme, produced the effects required. M. Bloch believes that strong doses of this substance (four, six, and eight grammes, as prescribed by Caravias) should not be given. In this case of nervots drowsiness, antipyrin acted as a stimulant; it has the same offect as black coffoe, but is more active, and the offect is more complete. M. Bloclr considers that the consti. pation frequently caused by antipyrin powiler may be attributed to the form in which this substauce is administered. If it were giren in water or syrup, this result would not onsue; but tho unpleasant tasta of antipyrin is best disguised in, tho wafers eppleyed by $\mathrm{Dr}_{\mathrm{n}}$, Blozh.

Dr. A. Trousseau records a case of orytbema, following the applica tion of iodoform dressings. The patient was a child aged 11, suffering from an ulcer, of heroditary syphilitic natuce, on the left upper oyelid. Suture was performed in order to prevent contraction caused by cicatri,
sation; dressings with finely powdered iodoform were spplied to the ulcerated parts, which were then covered with hydrophile cotton and a maslin bandage; saturated with a 4 per cent. solution of boric acid. The following morning the patient's condition was very serions. He had been unable to oleep, owing to incessant' pain,' since the 'nleer' was dressed. The dressing was removed; it was stained with viscid serum. The left side of the face, from the edge of the eye to the edge of the lower maxillsry bone, and from the nose to the eye, wss red snd inflamed. The nose was of a violet hue, tightly drawn, and covered in parts with phlyctenulx: several of these had burst and discharged a thick, gummy serum. The sinflamed'region was bounded by a prowound itself had a heslthy appearance ; the suture of the eyolids remained firm. The inflamed parts were carefully washed with a solution' of 'boric. scid ;? dressings of berated lint and hydrophile' cotton, thoroughly disinfected, were applied to the ulcer/ The next day, the inflsmmatory phenomena thad entirely disappeared. Dressings with': boric scid, corrosive sublimate,' or carbolic acid solutions were henceforth applied; the ulcer healed rapidly. Three weeks later, ciestrisation was temporarily arrested ; the ulcer' was reduced to half its aize, Iodoform was sgain applied; fouy hours afterwards, there were serious inflammatory symptoms. The treatment with iodoform was then discontinued, and the patient recdrered.
M. Wallon has tried the experiment of ventilating schoolrooms. by meanis of perforsted glsss. In rooms ventilated by this method, the quantity of esrhonic acid was $\frac{20}{20}$; in rooms ventilated by means
 In roomadventilated by means of trerforated glass and air-pipes, the proportion of esthonic acid was rovil M. Wallon considers that the sybtem of ventilation by means ot sir-pipes is superior to that of ven. tilstion by perforated glass, which it only efficacious when there is little wind, violent carrents of air interfering with the escape of the carbonic acid. These systems may be employed together with advantage.
At a recent meeting of the Conseil d' Hygiène, M. Dujardin. Beaumetz delivered his-report apon the recent smsill-pox opidemic at Aubervilliers do Pantin and St. Denis. According to him, this epidenio was erroneously attributed to the presence of a temporsry small-pox hoapital, at the Porte d'Aubervilliers. MI. Dujardin. Beaumetz believes that the atmosphere does not cerrry the germs heyond : $a$ hundred mètres. Cases of small-pox were observed before the estisblishment of this hospital.' He attributes the propagation' of the germs to persons accompsnying the patients to the hospital, and to pastients who, on lesving it, retain a contagions ${ }^{1}$ influence which they carry aboint with them. He recommended the following prophylsctic neasures:-The patients should be isolsted; 'all bedding disinfected by means of movable disinfecting stoves. The places inhibited by such persons should be disinfected by burning quantities of sulphur, Vaccinstion and re-vaccination should be mede compulsory. Dr. Brousrdel sgreed with M. Mujardin-Beaumetz ${ }^{\text {as }}$ to the epidemie
at Auberviliers Léon Collin iers, and the prophylactic measures he presecribed. An. duriug the siegg of Paris, he received into his wards 8,000 small-pox patients from the French army. During six months the average number of ceses of small-pox was 1,500 . During this period the disease was not more prevalent a amongst the soldiers who occupied the Bicêtre fortross ( 100 mètres distent from the hospitsl) than emongst those inhabiting other Paris lortresses or barracks. M5. Proust insisted on the necessity of vaccination and re-vaccination with animal vaccine. He
proposed that quarters whet a calf or heifer should be daily led round each of the might be vaccinall pox existed, in order that the entire population epidemic would disappesr.
At the Seciété de Médecine Publique et d'Hygiène Professionelle, Dr. Armaingaud, recently 'résd "a note ori" the" seaside hospitals at Arcachon 'and Banyuls. The only seaside 'hospitat' fer scrofulous children in France is at Berck. Dr. Armaingaud hiss given numérois lectures ou hygienic questions, and distributed pamphlets grataitously on the same subject at Bordeaux and 'in'other towns in the South' of Frsace. With the money he received for inserting advertisemients in these pamphlets, Dr. Arroaingand fouinded a hospital, with' 20 béds, at Banyuls:
Min. F. Dubrisay: and 'P: Yvon have'just produced a a work ninder the title of Manuel \&'Hygithe Scolaire, in which all neecessiry information is given on the situation and arrangement of schools', the personal hygieie of school children; the prophyliactic treat. ment of "contagious or other disesses; the organisation of dispensaries!

## MANCHESTER.

[from our own corrrapondent.]
Students' Union Conversacione. - The Chairs of Surgery and Oistetrics at Owens College. - Royal Eye Hospital.-St. Mary's Hospital. AT the close of the Michaelmas term, the stadents of Owens College held the annal' contersazione of the Unien. All the debating and other societies were represented, sad there wss a large attendance of visitors. Many, of the 6 xhibits were very interestiog; in particular there was a fine display of physical apparatus, and experiments were carried out by the students themiselves. The medicsl sciences were also well represented by exhibits of varions kinds and numerous experiments. There'was a'very heautiful series of anatomical, botanical, and psthological exhibits; 'While the physiologicsl exhibits were not only numerous, but suich as to interest the general public. One of the most noteworthy features was the "Darwin Room," which' contained copies of Drrwin's works, various likenesses of the great naturalist, and several autograph letters.
The Chairs of Surgery and Obstetrics in Owens College will be advertised as vacant within a few days. It cannot he too clearly understood thst the electors will endeavour to secure the best men they can ; and it does not necessarily follow that local men will be elected, provided suitahle and superior candidates from elsewhere apply.
At the out-patient department of the Royal Eye Hospital, in S. John, Street, Msnchester, over 10,000 patients have been treated daring the year; while at the other branch of this hospital, in Oxford Road, abont' 6,000 cases were attended to in the corresponding period.
The directors of St. Mary's Hospital contermplate making great improvement in'their premises, and already several thousands of pounds have been subscribed.' Lord Derby, the President, has just annonnced a subscription of $£ 1,000$.

## LIVERPOOL.

[fRom our own correspondent.]
The Nero Royal Infirmary. - The Epidemic of Diarcherea in the Sumimer.- Typhus Fever, in Liverpool.- Rcport of Hospital Sunday Committee.- - Donations to, Hospitals. - University College and I'visection.
For the past five or six years the necessity of having a new infirmary has been agitating the minds of all those interested, and much satisfsction is natarally felt now that the enterprise is fairly under weigh. The question of site csused much controversy. Tery wisely, bowever, the cormmittee determined to build on the old site, which is not only good from a sanitary point of view, but has the University Colloge adjacent. It was hoped that more ground could be obtained so as to have the front of the hospital faoing Pembroke Place. This was fond to be impossible, a portion only of the slready occupied land being purchased. The new infirmary will, however, have a frontage of 184 feet to Peribroke Plsee ; snd the architect, Mr. Waterhouse, has cleverly so arronged his plan as to have the idministrative block erected here. The wards will be in six blocks, three to the north and three to the south of a main corridor runniug east and west. In addition, there sre to be some wsrds built on the circular phaciple. The building is to cost $£ 100,000$, the greater part of which has already boen subscribed.
The report of the modical officer of health on the recent epidemic Dr. Taylor hss been brought before the Health Committee. In it, the present ash-pit grstem should be abolished. He mentiens that more than one half of the deaths were of infants under the age of 12 months, and ststes thist ho considers the disease to have arisen from some specific cause originating in, or propagated by, decaying orgaic maitter pervading the atmosphere and polluting both waier and food. The report concludes by pointing out how the rapid fall of temperature, with heavy rsins and high winds, at the commencement of September, had a very beneficial 'influence on the public bealth.
At the list iueting of the Health Committee, a report was given in by Dr. Hope, the Assistant Medical Officer of Health, with reference
to the Lo the spread of typhus fever, in which he emphsisised the necessitr of,
such cases being immedistely reported to the heaith authorities. spread was mainly in the ueighbourhood of Menai Street and Slade Street; and was due to healthy persons, visiting the houses of people suffering from fever. Not many week's ago a young priest succumbed to an attalk of typhus, caught in the infected districts.
This jear's report of the Committee of the Hospital Sunday and Saturday fund is not vary epcouraging. The falling off in the sub.
ecriptions, which has been neticeable for youn time past, coutinues. Hospital Sudday yielded a little over $£ 0,000$, as againat $\mathrm{I}^{\prime} 6,200$ last year. The dereasen in the Saturday eolloctions is 5284 , aud in the donations $\pm 150$. The cages placed in the pablic atrects produced a better result by $L^{5} 5$ thau last year. The boxes left in workshops have been very poorly supported, 105 boxos produciug ouly $£ 11$. The antount divided amoug the charitios was $i 3,750$.
Several of our hospitals have recently beuefited to the extent of i 500 each from the executors of the late Mr. Lyon-Jones.
Sunie dayengo the Londou correspandent of the Duily Post refurred to a spleech by Mr. McLaren, M.I., at the Anti-Vivisuction Confer. ence, in which our University College was clarged with an aggravated breach of the Viviscetion Act. The Dean of the Medical Faculty, in a letter appreariug in the Post of Docember 22nd, draws the attention of the public to Mr. McLares's letter in the Globe of the 19th, in which he states that he couveyod a wrong improssion to his sudience, and desired to withdraw tho statenent.

## SHEFFIELI).

[from our own correstondent.]
The Small-pure Epidemic and the New Mosynital.-Appointment of Medical Oficer of Mealth. - The late Mr. John Carr.
At the Local Covernment inquiry into the subject of the Sheffeld Town Council's application to borrow $£ 12,500$, for the purchase of land as a silo tor a hospital, aud for providing hospital accommodation thereon, at Lodge Moor, for small-pox cases, Dr. Sinelair White made some obserrations on the present epidenic. It began in March. During the montha of April and May the cases were very fow, but in June tho disease began to increase, and had gone on increasing ever ainee. In March there were 3, in April 4, in Mray 21, in June 43, io July 91, in Angust 146, in September 275, in October 493, in November C04, and, up to December 19th, 585. Notwithstanding the considerable hoypital accoumodation, not more than one-third of the cases they would have likel to have taken could be admitted. All the cases are not reported, but they had learnt of 2,270 . The disease has also brokeu out at Rawmarsh, and Leeds, and at Wath, Worsborough, Ardsley, Iloyland, and Wombwell. A specialcouference ofsanitary authorities was hold at Barusley, to concert means between the urbsin and the raral authorities for dealing with the epidemic, should it continue to sproad. The new boypital at Shetheld is being pushed on with as rapilly as possible. The hospital, when couplete, will be for 100 beds, and this is in addition to the large accommodation already existing.

Dr. Theodore Thomson has been appointed Medieal Oficer of Health, rice Dr. Sinelair White, resigned, at a salary of E 500 per aunam.
Shetfield has recently lost, in Mr. John Carr, probably the senior member of the medical profession there. He died on December 8th, and Was within about three montha of being eighty-aix jears old. Besides being actively engagad in practice, he had filled many honourable offices in the town. Ha was a member of the Town Conncil at its formation in 1843. He hall Glled tho oflice of Mayor, and had been Cbairman of the Health Committee. He relinquished public duties aud practice some jears ago.

## CORRESPONDENCE.

## ISOLATION AND SCARLET FEVER.

Sir, -May I ask for a little space to reply to some of the criticisms which my letter of November 6th ca the above subject has called forth la the Jocrnal aince that date. Somo of your correspondents have sided with me, aomo against moe; I am erpually obliged to all aliko. Not one, however, has roally traversed my main contention, namely, that strict isolation will gradually increaso the namber of persons auprotected by a previons attack, and therefore the number of persona liable to be attacked daring any given epidemie. The mere statements that adults aro leas liable to scarlet fever than children are unreliable and misleadiag, and the experience of phyaicians, no matter how eminont, of ten or fifteen years ago, is of little Falce nader the newly devoloping circumstances of to-day. Least of all ahould I place value on statistics concerning adult pastionts made in the fever hospitals of the Asylums Board ; the majority of adults decline to be mored there; many go throogh attacks of fever at home, hardly conscious that they have the fever, and only come under observation when kidney disease incapacitates them for work.

In asying that tho exanthemata ran a severer course in adults than in children, I believed I was stating a general oxperience-certainly

It is my own experience and that of many of uy personal frionda; but veither they nor I kauge the eeverity of a dizease solely by its mortality. In the case of claldren, diasaye of all kinds is quite uncouplicated by conditions which, withont oxactly aggravating the type, in adults tend to reuder its incidence very much more oppressive.

Sproking again from miy own experience, 1 am quite aure that a groater uumber of adults are attacked both with measlos and with acarlet fever now than formerly. When writing my first letter (November 5th), I was thinking over the number of resident othicers and of uurses who had succumbed with scarlet fever in the Sbadwell Children's Hospital within the last eight or ten years. I ooght to state that, although we do not troat such eases, a good naay come under our observation in one sbape or another in the course of a yoar (strangely enough, the present year has been an exerption to thia statement). I think it is exceptional for residents and nurses who bave not had the diseaso not to contract it, if directly and continuously oxposed to the poison. It would be interesting to have sonae precise details from the fever hospitals and from nursing establishments of tho numbers of 'adults who, serviag in one or another capscity closely upon fever casea, escape the infection-not being previously protected by a former attack. Do the authorities of these fever hospitals make any point of not engagiag officers and servants unless protected by a former attack? What is the experience also of honzes of business whero large numbers of young men and womon are boused together, during such seasona as the one that is just past (although the effects of strict isolation are only now beginniog to act)? Would the authoritios of the great achools argue that, as 95 per cent. of all cases of scarlet fever occur before the fifteenth year of life, therefore all boys over that age might remain in au iofected neighbourhood without danger I If feel aure, from my own observation, that the apprarent relative receptivity of young adults and of children depends far more largely on beiog, or not boing, exposed to the poison than on mere age.

I presume oae of the objects in view in isolating infected persona is to try and exterminate the materies morbi. Such an end will never be accomplished in this manner, although, as Dr. Thorno has abown, no direct evils from aggregating patients in hoapitale (auch as occurred in the case of sialle-pox hospitals) can be urged in connection with searlet fever. As at present carried out, and uader existing laws, isolation only conecrns the infocted person; in a great manyin the majority, probably-of caves, the locality from which the pationt is removed remains untouched. Heuco my assertion that efficient treatment on the spot rather than purely isolation measnres will, in the loug run, prove of geeater service alike to the individual and to the public at large.
$\Delta s$ regards some individual criticisms, I would say to Dr. Whitelegge that nowhere in my letter did 1 argue "that mild cases of acarlet fever should rather be encouraged than other wise." I referred, of course, to cases of fever occurring in houses where the infected can bave ordinary treatment. The practice, which is a very common one, of seading the remaining part of the family off to the house of a friend or of some rolation is a reprehensible one, and ought to be entirely discouraged. We muat not forget that the Asylums Board provide only for the pauper classes, and that scarlet fever by no meana restricts its attention to these classes. To Mr. Sweetiog's criticigm that "the spectacle of a well knowu aurgeou at the ond of the nineteenth century gravely propounding that eases of fever ohonld be dosed with drugs at home, is one for gods and men," 1 wonld aimply reply that there set remain some twelve yeara of the nimeteenth century, a period of time long enough to briag aboat changes iu medical thought and practice as great and as radical as have been effected during thotwelve jeara which oxpired at Christmas, and that 1 , for one, shall be much astoniahed if the prosent atate of chiags as appli-d to infectious disease continues to bo held quite as perfect and aatisfactory as Mr. Sweoting evidently consilers it to be. It is, perhaps, nor very wonderful that this difference of opinion on the advantages of purely isolation treatnent exists between him and me, considering from what different standpoints we have respectively gained our experience. I am not deprecating houest criticism, nor astonished that the views I tentatively put forward in my letter of November 5th should hare met with criticism. On the contrary, I am rather surprised that su little has been foand to urge against me. On the othor hand, it is possible that some who think with me are, perbsps, induced to remain ailent in fear of the cheap ridicule with which, for want of sound arguments, Mr. Sweeting meets my "forecast and suggestion."
On the gederal question, the argnments, I fear, are not wholly in favour of the status queo. The Asylums Board is doing good work from its especial point of view-providing accommodation for infected persons who cannot be properly treated at home. 1 would
further add, I think the Board are doing this work so well, that in esch succeeding year during the "prevalence" of the fever-on numericsl grounds we are no longer correct, I believe, in speaking of an "epidewic"- more and more persons will be glsd to avail themselves of the facilities they provide ; thus a la rger aud larger provisiun will have to be made by the Board. But will this suffice ? Is not the Bosud doing part of the work of the lucal eanitary suthorities, and are not the latter only too pleased to let matters 80 rest ?
It will have atruck many, I doubt not, that not withstanding sll the Asylums Board could do, the fever continued to spresd until the cold weather came and put a stop to it. If my suggestion could be carried out of isolating houses when infoction breaks out, keeping it there until the infection has exhausted iteelf-the life of all these disease germs is a very limited oue-and sdopting every known procaution in the way of diciufection afterwards, on tho spot where the fever showed itself, there would be a bettor chsnce of eradicating the evil. Mere removal of a patient will dever do much good to the community, though the individusl may gain. 1 consider it thoroughly essentis! to the successful working of any scheme that the homes where infection bresks out should be visited by local ssnitary officers fearless in the discharge of their duties. Such visits from such officers would bring to light facts that would astonish those who interest themselves in the paysical welfare of the artissu classes. I am sure that thonssads of rooms which at preseat serve as homes for the poor would be pronounced absolutely unfit for huuan habitation.
Most of us have heard of "mysterious outbreaks" of scarlet fever or other infectious disease. I have myself ceased to attach mystery to such occurrences since one day, wheu anxious to leary something about an interestiug haspital case, 1 sought out the child's parents in their home somewhere in the heart of East London ; during my search, tor these people had changed about from room to room, I chanced to come upon threo women "sweating" over some slop-work. The proprittor of the room bsd invited her two fellow-woikers to co-operate in fire and lights, on the principle, that the three could he served jast as cheaply as one; she was sitting on the side of a bed, sud was alternately tending a crippled child, ill with'moasies, and plying her needle.
While snch things are, the isolation of a few cases of fever, though highly benefioial to the individuals themsel ves, will do little to benelit the public health, however much money the Metrepolitain Ayslums Board may spend, and howsver much it may elaborate its (alcoost perfect) hospitsl arrangements. -1 am, etc.,

Robert Whlifam Parker,
Surgeon to the East London Hospital for Childrea.

## HOW SHOOTING ACCIDENTS OCCUR.

SIR,-Although shooting casualties can hardly beregarded 84 a micdical subject, still the prevention of accidents might not unnaturally be as much within our province as the prevention of disease; so I venture to offer the tollowing brief remarks op in the subject, which was referred to in the Journal of Oetober 291h, 1887, sod in which it is stated that, "as a rule, the lact of au accident having happened is prima facie evidence of want of csre." I think many sportsmen will agree with me in attributiog most shootiug casualties rather to ignorance than to want of care, in the strict aense of the term. All shooting accideuts that have come within my knowledge so long as 1 can remember appear to have been due to one of three causes, each of which is in a great measure preventable: (1) Iguorance of how to handle and use a gun on the part of the shooter; (2) ignorance in the loader, when two guns are used ; (3) ignorance of the manuer in which birds shonld be kille it when they are drven to the guns. To the last cause may be attributed the loss of nearly all the eyes which ere shot, of which there is a considerable nomber during every shooting season. In regard, however, to cause No. 1, no one should be permitted to shoot game in company with others ontil he has as a boy been frequently taken ont aloue, and carefully taught how to carry and handle a gua. He would then lavelearned never to point it loaded or nnloaded in a direction Fhere anyone is or might ba stsnding ; never to get over a fence or ditch without taking out his carcridges; never to shoot at birds flying low except when he is walking them up, and then only when they rise, clest of the line, in frout or behind him. He would also learn many other precsutions which are 30 well known to sportsmeu 68 to have become habitual with them; in short, it will be found that men who have been so trsiued are never the culprits in gun accidents which are incladed in csuses of the first order. As to the second cause of accidents, it is sufficient to say that the directions for trsining losders are so carrefully and well given in the Shooting Number of the Badminton Library, that snyone accuscomed to shoot with two guns will at ouce recognise how, it they are sttended to, it is impossible for
his loader to shoot him, or he the loader, provided that he knows how to chauge guns, and never hands a gun at full cock, with either barrel, to the logder, who under no circunatances is allowed to touch a trig. ger. The third canse is the most interesting, as whenever an eye is lost in shooting (except those that are destroyed by the anpardonsble sin of shooting low-llying birds in cover) it is at grouse or patridge driving.
A grest desl might be azid, snd often is esaid, on this subject, for the accident is very frequent, but it is enough to say here thet it always happens in the same way, that is, hy following a bird, or traversing, as it is now called. To those who see driven birds for the first timeor, indeed, till they are accnstomed to it-this habit, if they are not strictly warned against it, is slmost irresistible ; snd it happens as follows:
In grouse driving, the bstteries being in line, the bird is aeen to be coming between the shooter snd the next battery, say to the leff of the gaa in quastion. He raises his gun to the shoulder, and having covered the bird and not instantly shooting, follows the bird with the gun till he thinks it has well passed the next battery, and fires. The bird not having gone far enough betiod the next battery at the moment the trigger is palled, some (or one, perhaps) of the shot hic the man in the battery. The fact being that, if a mau follows a bird in this way, his eyes being kept on the bird, he cannot estimate how far it is from the next battery when he fires. Besides, it mast be remembered that if this is done, at some moment of time whilst the bird is followed the gun is pointed straight as the next battery, and, the finger being on the trigger, it might on that instsut, from waot of nerve or excitsbility, go off unintentionally. What should, of cuurse, be always done if a bird is passing between two batteries, and is not shot st once well in front, is that the gun should be taken from the shoulder, and not put again to the shoulder till the bird has well passed the line of bstteries. Precisely the ssme cause of accident snd its avaidance apply to partridge driving, when guus are placed in line in a field and hads driven over a fence towards them.
It may be asked very naturally, Why is thi, form of accident so frequent, if its cause and the way to avoid it bre so well knowu? Frequent it is, for $I$ am sure there are not many men who have had murh greuse driving who have not sometimes lelt and heard shot rattle isto their battery. I think the explauation will be found to be as follows:
When a man is sheoting rising birds, if a bird is flushed in front of him and comes backward, he either kills it in frout of him, or waits till it has well passed the line, then turas round, raises his guc quietly, and kills it. Thus there is no fullowing the bird, for in this case he has plenty of time to see the bird, and there is do haste in the manner in which he kills it. But when birds are driven to him, they come ou him suddenly; he misjudges their pace, which is three or four times as fast as rising birds, for they hare been on the wing much longer, and when le raises his gun to the shoulder they are past him betore he has time to fire, so that he follows the bird and lires after it has passed him. In fact, he finds thas shootiug the driven is altogether a different businass to the rising hird, the whole proceeding heing so rapid that解 it walking up birds in line, that is, following a bird that is flying past a man.
Of course, a man who shoots really well does not follow his bird nnder any circumstances, but fires slmost iustantly the gun is to his shoulder; but amongst the large proportion of those who get health aud smusement from shootiug io their hulidays there are wany whe are liable to dwell ou hirds and follow them before pulling on them, so, wheu not accnstomed to driving, they should be ospecially warned agsinst the insidious practioe referred to. It may
then, I think, bo fairly said that it in oot so mit to want of experiencu thaid thst it iy not so much to want of care as buted.-I am. etc.,
18, Savile Row, W., December 30 th, 1897.

## SWISS ALPINE HEALTH RESORTS.

Sir, -The letter of "Teasx" givus excellent iuformation about the liotels at Davos and St. Moritz and the journey out, though, iu regard to the hotels, several importsat changes have takeu place with the lepse of time.
The journey from Loudon to Davos cau be made iu two days. Learing Chariug Cross in the morning by the 11 oclock train, and travelling by the Bâle and Calais roate, one resches Daros about 9 o'clock in the evening of the follomiog day. In the case of invalids,: however, it is undesirable to make the journey in one stretch. If ouly one break be decided upon, Lsadyasts is the most suitable zlace
fer atopping at. One can get very comfortably put up thero at the Hotel zur Poat, and dext mornag take the diligence for Davos. If a aecond brosk in tho journey be deaired, Baile is the best place to ston at. Should tho intention be to look at all tho winter resorts of the high Alps, Davos will be fonnd the most anitable one to begin with. Wieson can be most eavily renohed from here, and one can got over to St. Moritz in a day. From that point the Maloja is a pleasant drive.

It is always a great pleasure to mo to seo a professioual brother out hero; and, if "M. B., C.M." will write to to me, I shall be happy to give him farther iuformation.-I am, ote.,

William R. Muggard.
Davos-Platz, Switzerland, Decomber 30th, 1887.

## COMMUNICABILITY OF SYPHIIIS THROUGH THE SALIVA.

Sir, - In the case reported under this beading in the Jounnal of December 24th, by Dr. Carleton, MI.S., it is atated that the tattooer had "well-markeil tertiary" symptoms." Now, as tertiary syphilis is generally considered not to be contagious, it would be very interesting to learn from Dr. Carleton (1) how long this soldier had bad syphilis; (2) the character of whatever lesions he had about him, ospeclally in or near his mouth, at the time of the operation ; ( 8 ) the further manifestations of diseage in the "victim." 1 l am , eto.,

## Arthur Cooper.

## 20, Old Burlington Street, W., Decomber 27th, 1887.

## METROPOLITAN MEDICAL PROVIDENT ASSOCIATION.

Sir, -In angwer to tho letter from Mr. Piper, which appears in the Journal of December 31st, allow me to say that I did not refuse to read Dr. R. H. S. Carponter's letter. It will be in the recollection of Sir S. Wells that I turued to him and said, "I will read Dr. Carpenter's letter if you, Sir, direct me to do 30 "" and Sir S. Weils, as Chairmau, decided that it rould be the more convenient course for Dr. Carpenter to read his own letter when he replied to me. My speech, in fact, bad very little reference to Dr. Carpenter's letter, and the question whether I bad interpreted, rightly or wrongly, the clauses in it refcrring to privato (so called) provident dispensaries seemed to me of littlo importance.
Equally incorrect is Mr. Piper's assertion that "those on tho platform led of an opposition and an endearour to dromn by noise what Dr. Carpenter said in his reply." So long as Dr. Carpenter confined bimself to bis undoubted right of arguing the question before the meeting, he was heard with all patience ; but, when be persisted in wasting tho time of the meeting in irrelevant declamation about some institution mith which he asserted that Sir A. Clark and myself were connected, aniI which he believed to be in some way connected with the Provilent Medical Aseocistion, and when he cither would not bear or would not listen to my assurance that I had never heard of the institution in question, aud that the Association had nothing whatever to do with it; when he would not subrit to the directions of the Chairman, and exceeded beyond all reason the limits of time prescribed both ly the regulations of the meeting and the convenience of those prescnt, su attempt was certainly made to stop him, in which I believe the whole meeting (and not those on the platform more than those in the body of the ball) joined, with the exception of a very small but very persistent minority. It would bave conduced much to the proper discussion of the real question, if that attempt had been more quickly successful.
I repudiato entirely any responsibility for the disorder which occurred at the inceting. It was caused by Dr. Carnenter and his frieuds. -I am, etc.,
T. Holmes.

18, Great Cumberland Place, W', December 31st, 1887.
Sir, -In the Jourisal of December 31st, I observe a letter from a gontleman who atatos that he was present at the late neeting at the Society of $\Delta$ rts, at which the subject of provident dispensaries was discussed. Voar zorrespoudent there states " that the scene which took place began by Mr. Holmes and others of the Committee on the platform refusing to read a letter they had recoived from Dr. I. Il. S. Carpenter upon which they wero commenting."
This convoya a wrong improssion. I was in the body of tho ball, and have a very clear recollection of the facts, which were as follows: Mr. Holmes was moving the first resolution, aod in dealiag with the objections to the scheme of the Metropolitau Provident Medical Association ho said that he had receired a letter from a gentleman which, in his opinion, ehowed that the writer had entirely failed to grap the bearinge and iatentions of the project. Hereupon Dr. Carpenter rose and, in an excited tone, cried : "Read the wholo of the letter,

Sir." Mr. Holmos expressed bis willingnesg to do so if the Chairman (Sir Spencer Wells) desirod bim. Sir Sponcer boing thus appealed to rulod as followa: "It will bo bettor for Dr. Carpenter to read his own letter after Mr. Holmes bas fivishod his spoech.

Most of the noise subsequently was dua to the opposition of the majority in the ball to the pucrile and irrolevant remarks of two later speakers, an opposition, in my opinion, riebly merited.

- I left before the end, but can rouoh for the above as a correct description of what transpired as far as it goes.-1 am, ote.,

Evin H. Hare; Fir.C.S.
46, Weston Park, Crouch End, N,, Dccember 318t,'1887.

## FALLACIES IN FROZEN SEOTIONS. -

Srr, -In your very favourable notice ot my work on The Topagraphical Anatomy of the Child, the following eentenco occurs: "No roader shonld forget, however, that there aro sources of fallacy in frozen seetions." This raises too large a question to be discussed here, but I hope to deal fully with it in a paper I hare ou hand. Still thore is one point in connection with this subject to wbich I should like to refer. In describing the method adopted in order to ascertain the position of the uterine appendsges, I stated that after a vertical mosial section of the body of a girl 13 years of age had beer embedded in plaster and hardened in spirit, the coils of the small intestines lying above the bladder and uterus were carefully turned aside, and the ovary exposed. I expressed an opinion to the elfect that in doing this the position of the ovary was not disturbed. The reviemer does net share in this opinion, but believes that embeddiag in plaster-ofParis and bardening in spirit implies a good deal of disturbance. He," however, very kindly suggests that my opinion msy be based upon reasons not expressed in print. This is probably the case, for I ought to have explained that the parts were embedded in plaster while frozen, and allowed to thaw under spirit. I believe that a combination of the metbods of frozeu section and dissections is sometimes a very useful, one, and not so fallacious as some suppose.-I am, etc.,

Edinburgh, 27 th December, 1887.
J. Smminaton:

## OPHTHALMIC ORERATIONS.

Sir, - In reply to Mr. Doyne's interesting quaries, permit me toremark that hypermetropes who do not squint manage to see, but their vision is imperfect, much the same ss myopes who have never worn glasses; such indiviluals suffer from a high degree of the affection, too high to be overcome by the accommodative effort which involves a squint. No doubt many hypermetropes exert their maximum of accommodation for distant visiou; it must be so, for some of them more than neatralise tho defeet, becoming shightly short-sighted, and in these cases distant vision is improred by a concave glass. Some bypermetropes bring the type, wheu reading vory close to the eyes; no doubt this interferes with definition, but the enlarged retinal images thus obtained more thau compensate for the loss of definition. Tho bypermetrope who is obliged to accotomodate for distant objects the rays from which are parallel, must accommodate still more in order to focus near objects, the rays from whick are divergent, and this effort ! involves a squint, because tho porrer of accommodation is greatly increased by convergence of the optic a.res.
If the hypermetropia can be overcome by convergence it means squint ; if, horsever, it is too high to be so overcome, the patient does " not squint. Concomitant squat means diplopis so. long as the patient sees with both eyes at onco ; but the brain has a horror of double images and suppresses one, hence the squinting eyo gets reak, and, not boing used, is not so much converged, and the patient is said to have grown out of the defect, which means simply that one eye is nearly blind from disuse. Spectaclea sometimes suffice for cure, but I do not think snoh cases ore frequently met with.

It will be seen from the above that it is quite possible to mistake 81 case of hypermetropis for one of hypometropis or myopia, sa it is constantly called. Such errors are, however, sendered. impossible by the free use of stropine in doubtful cases. With regard to Mr. Snell's ingenieus operatioo, the one advantage that be insists upon is that the operator can atand behind the patient during the whole pracess. I may, therefore, mention that this is the position which I always. assume when performing the operation, which I have illustrated in your columns, and which was described in tho Medical Times and Gazatte of March 17th, 1877. -I am, your obedient gervant,

## Charles Belr Taylor, Surgeon to the Nottingham and Midland Eye Infirmary.

Memical Magistrate. - The I name of Mr. John ill. Wraitb; M.R O.S., L.S.A., of Darwen, has been placed on the Commission of the Peace for that borough.

## NAVAL AND MILITARY MEDICAL SERVICES.

## ARMY SURGEONS AND THEIR RECORD.

Sir, - At a time when the merits and demerits of army surgeons are being freely discussed, possibly with sdvantage to public interests, will you sllow me to adduce certsin historical facts ot importance bearing on this subject, which go to prove that the British and Indian Medical Services have traditions of which they msy well be proud? Sir James McGrigor, in his autobiography, writes ss follows: "It was ssid with much truth by sn eminent individusl that he thought the extraordinary exertions of the medical officers of the srmy might be said to have de. cided the day at Vittoria, for their exertions had undnubtedly added s full division to the strength of Lord Wellington's army ; sod without these 4,000 or 5,000 men, it is more than doubtful if bis lordship, with sll his unrivslled talents, could have carried the dsy." The eminent individusl here slluded to is Nspier, the historisn of the Peninsular war.

Daring the retrest from Bruges the Duke of Wellington forcibly remarked: "The medicsl department is the only one that will obey orders; on them 1 can rely for doing their duty" (vide Army Surgcons and their Works, by Surgeon.General C. A. Gordon, C.B., pp. 69 snd 70). Kaye, the historisn, in the Preface to his Lives of Indian Officers, writea: "I must express my regret that the volumes contain no exsmple drswn from the Medical Service of the East India Com-psny-a service which was never wanting in men equslly eminent for their professional sttsinments, which are exercised so unstintingly in the cause of our suffering hamsnity, sad for those heroic quslities which are exemplified by deeds of gallantry in the field, and by lives of dsring adventure."

After the bsttles of Chillianwalla and Goojerat, Lord Gough wrote as follows: "Camp, Goojerat, 26th February, 1849. I feel I cannot too prominently bring to notice the valusble exertions of Dr. McRae, Field-Surgeon, snd of the medical officers of the army generally; they have been most unwearied and prsiseworthy."

The following is sn extrsct from the same great commsnder'a evidence before the Select Committee of the House of Lords in $1852-53$

It was my fortane to serve during the whole almost of the Peninsula war, and I have aerved through several campaigns in India, hut io the Punjab campaigo I donet think that at any ona period thera was a wounded man withont his dooly, nor wanting any comfort it was possibla to giva him. The rittentioa and assiduity of Dr. Frasklia, of Dr. Remby, sod of Dr. MeRae, the iadefatigable Field-Surgeou, and of the whalg of the medical staff of that army, was the mast per feet machinery I ever witneased.

The following is sn extract of s letter from His Excellency the Right Honoursble the Commander-in-Chief, Lord Clyde, dated Lacknow, February 21st, 1859 :

Tha military operations in the Presidency of Beagal, which ensaed on the great Mutiny of 1857 , having been happily bronght to a close, I have the greatest satisfaction in recommending warmly to your Excelleney's protection two great departmeats of the military administration, to which the troops aod the officer who bsva commanded them in their long campaigns ara uader real agd grest obligations. I allnde to the Medical and Commissariat Departments. The former boing composed of officers helongiog to the two services, has showo equally in the matters of general organisation aud of regimental arrangements. The DirectorGegeral, Dr. Fersyth, and the Inspector-Genersl of Her Majesty's Forees, Dr. Linton, C.B , in Calcutta, have worked successfully to meet the great requiremeats made on them; and the ataff aud regimeotal medical officers have well maintained the credit of their nobla profession, sad the reputation for self-sacrifice which belongs to the surgeons of Her Majesty'garmies, a reputation which is maintained in the field on all ocessioas, as well as in the most trying circumstances of the hospital.

It should be noted thst such splendid donble testimony as the sbove came, on the one hand, at s time when the fate of Lord Gough's srmy trembled before the indomitable courage of the Sikhs; sad again, in 1859, inmediately sfter s period of dsnger, such $5 s$ has never, before or since, threatened British power in India. In refer ring to $s$ list of the medicsl officers of the Bengal Establishment who fell during the Mutiny, I find that thirty-five surgeons and assistant. surgeons perished, of whom twenty-one were cruelly massacred by the mutineera; the rest succumbed to wounds received in action, cholers, etc.
In s Minute on the Indian Medical Service, dated Febrasry, 1856, written by India's greatest proconsal, the Most Noble the Msrquis of Dslhousie, the following passage occurs :-
The absurdity of regardiog a medical oflicer as a non-combatant is, I believe, abandoned. The medical officer comes coostantly uoder flre like other men. Every canngiga which is fough exhibits the names of medical officers in the lists of killed aud wounded; and the returns invariably ghow that they still more aften fall victins to their own exertions ou behall of their suffering comrades. Proof caa hardly be required of sach well-koown facts. If it be, the fatal record of the service which our countrymea have beea performing during the last year of the service which our countrymea have bean pertorming Turkey asd the south of Russia will more than bear ont the statemeat I have made.

In moving the vote of thanks to the army in the Crimea, the Dake of Newrastle made the following remarks in the Upper House:-

The other body of men to whom I allude are the medicat officers of the army. IIear hear!] I speak not now, of course, of the medical orgamisation, npon which so much was said the other night; but 1 must state, in justice to sa which so monalue profession, that bever were greater exertions made, never was more honoarable profession, that bever were greater excrtions made, never was more humanity eviaced than by the doctors of the British army in the Crimes. [Cheers.] I will only ask your lordships to consider for one moment the ser. vices performed by gach a man as Dr. Thomson. He was left, ander circamatances of the most painful nature, apon the field of battle, not to attend to the wounded of his ownarmy, sll of whom had beea removed, but to s large body of Russians, many of whon, persnaded that an Englishman was little less than a devil, were prepared to marder any iadividual who might stek to reader them saccour and assistance. Among such men was Dr. Thomson left alone; he bound the wounds of some hnudreds of these poor Russian soldiers, at the great bound the wounds somertheleas, he escaped. He retarned to his duties io his danger of his life, hut, ne crovidence to remove him from his sphere of osefalness own army, hut it pleased Providence to remove him from his spaere of asefuiness two or three days subsequently. His death was occasioved by the lamense exertions be had made, and a disease which he had therehy coutracted. [Hear, hear!\} I must say, my lords, that if it has aot been usnal for Parlimment to thank men such as these, I consider that it is not wrong for a Miaister of the Crown in this Hoase to acknowledge their services.

The following facts have reference to the conduct snd losses of the Army Medical Service in more recent campaigns :-

Three aurgeons-Conolly, Stace, sud Hewson-died during 1885 from illness contracted on sctive service in Egypt and the Sondan. Surgeon-Msjor Porter died st Cabul on Jsnuary 7th, 1880, deeply lamented. In March, 1881, Surgeon-Major Cornish died at Mount Prospect, Transvaal, from wounds received st Majuba Hill. At the ssme time Surgeon Landon was killed in action at Msjuba Hill. In Augnst, 1882, Surgeon-Major Shar was killed in action in Egypt. Surgeon-General O. Barnett, C.I.E., died in Jnly, 1885, from illness contracted on gervice at Suakim, loved by all who knew him. In March, 1886, Surgeon Lane died of wounds received in sction in the Eastern Soudan. And on Jsnaary 9th, 1886, Surgeon Joseph Hesth Was killed in Upper Barmah while endeavouring to rescue s wounded officer.

This list of cssualties smply proves how strongly actusted the Army Medical Service is by a sense ot duty loyalty, snd conrage. Those whose names I have mentioned were all frithful unto death, and the youngest of them was not afraid to perish in the cause of his country snd in defence of his friend. Such feats as those above quoted (which sre, I believe, quite in keeping with the present genersl tone of the British and Indian Medical Services) certsialy do not point to "pes. cocking," or inefficiency. That no contemptible fop, despicable sluggard, or hopeless "bad bargain" wss ever to be found in the Army Medicsl Department probsbly no one would for a moment maintain; but to sssert that characters of this description prevail to such an extent ss in the slightest degree to justify Mr. Labouchere's sweeping indictment will, I feel sure, be found, on fair incuiry, to he quite con. trary to fact.

With regard to the sin of "cartridge-filling" ss affecting public in. terests, and as detracting from the repntation of the Medical Depsrtment, no doubt many have been guilty of this terrible offence. Is it not possible, however, that sn army surgeon msy be not the less s gentlemsn sind a good officer becsuse he is a sportsman? I sm inclined to think that sporting proclivities have saved many a young officer, both in England and on foreign service, from the hatefal quadrivium of " heer, brandy, billisrds, and betting." If Mr. Lsbouhere can find time to give impartial consideration to both sides of the question now at issue, it is possible-slthough I csnnot ssy 1 sm for enough to expect it-that he will, "before vote No. 4 comes on It is hard to believe reason " willingly to qualify his former remarks." to dismantlo s service such $s s$ that above referred to $\operatorname{csn}$ desire go back to the old protatype harber-surgeon of bygone times? Csn it be, ss I have heard it humorously expressed, that "more soap is wanted, snd less science?"-I am, etc., D. Boyes Suntr.

Netley, December 19th, 1887.

## RANK FOR ARMY MEDICAL OFFICERS.

Surgeon-Major Simmonds writes from Laureacepore: Ag order has lately been published, renderiag medical officers incapsble of the presidency of not only conrts-martial, but all other mixed!committees and boards. It is ridiculous that medical officers who have bean specially trsined to sift important evidence, aud ou whose judgment the saprema issues of life and desth aften hang, should thas ba less capable of petty judicial functions than the average army subaltern. It is all yery well for the authorities, whea the medical service is well filled up, to berin degraling it, but the old Nemesis of sapply and demand will sooner or later overtako theur. Little is to be gaived by consulting the unworthy prejudices of a certain section of socalled combatants, right and justice must be done in spite of them.
The ladian medical offleer has, as, say, superiatendent of a gaol, often ahsolate control over the prisoners, and the eatire equipment of the eatahlishment ; and surely, if fit for this, is quslified to preside over aa ordinary bosnd of surrey oa
blankoten broches. Ilo wonld prefer a liybilititlo einbracing the wrm our. Reon, but whatever the Luthe, she rank huast be real and not delusive, aud the undical ullar la worthy of pree dence at all, then he fa worthy of real rank, If be ly unworthy of the latesr, thon hu has mo bus ness ta liava the former.

Irpert Sunumon-Oenemala - Wo would ntate that tho deriguntion Army Mospital Corpa was displaced by that of Medieal statl Corps about four years ngo. The nid offleors of the former corps liecame quartermasters stedical Stati, had ns sueh have now both honotary rank anel litlos. The oblleers of the stedical Staffaro declatal by Warrant to the the oftlecrs of and to commmad the Hedient stat Corps. An exaetly naalogons relationship exiats between the Commiasarint an 1 Trapsport Staff anil tho Commfssariat and Transport Lorp's ; thore is no reifmental onion In either cave.

Yo regret that went of ensce provents the publleation of his letter, but he will And the question of hybrid titles alluded to in the analysis of tho voting undor tho proposals aubmitted to medical ollicers. Snbstanatially, bie arguments agaiast theso titles are thoso eet forth under 13. and C. af that enalysis.
31. $13,2,3 . S$. writes: With a viev to relieviag the minds of any of my brother officerts who may be udiler the impresion that the grant of proper titles and rank would te incongranus in the Mledica! Staff, and wonll lead to our being mistaken, I onclose for their fertisal an extract fromn recent fuedte of the United States Army. which shows linw the case staded in that service. I would merely, as comment on Unis, refer to the well kisowa opinion of the Surgeon-General of the Uuited States Army as to the gain in stllciency which followed the introduction of this sjatem in his service. Had we, like our more fortunate American brethreg; our proper fosition in the aroy, 1 think it goes without saying that we would not be sohjected to sucla stripid nitacks as have recently been made on us in the pages of a certain society juurnal.
1 Fixtmes from the Liribu States A riay " Gazette," Jux uary 20th, 1857.
Leare for six unontlis is granked to Major Samuel M. Horton, Surgeou.
Lave for two mouthis, to take effect from December 1st, is granted to Ist Lave for two monthay to take effect from December 1st, is granted to Ist Lientenant Jetfersod 1R. Kanne, Assishant Surgeon.
Leave for two months, with permission for an extension, is granted Captsin W. H. Arthar, Assistant-Surgeon, to take effect on the arrival at Fort Niagara of Captain l'sul 12. Brown, Assistant-Surbeou.
Lieutenant-Colonel Andrew K . Smith is assigned the duty of Attending Sur. geon in New York city, to relleve Colonel Joseph R. Smith, Surgenn, who will repair to St. Paul for duty as Melical Director.

Jestice writes fmm India: It is bigh time the crying injustice and sorrowfal hnmblation to which surgeons-major of long service, in chnrge of hospitals in thie cotmery, have to put up with from the besds of their own department. Orders to briag them into coutemntt are
consantly issned ; thelr superiors are required to "mark nnd notify" overy mistake anil corroctiou required in returns sent in, that such lapses may be embodied in confirlentini reports against then. Even petty breakages of hospital crockery are scored against the medical oflicers, as if they were so many "slavies" of all work. llow long is such jettifogging administration to be codured without organised protest?

## A Contrast.

Fohtix saver Fontiners writes: In a ciazethe some timo past, referred to at the time in your columas, in which burgeon-General Manby, V.C., and a Quartermaster, IIedical Stafl Corps, were gazetted out, the anomalous rank of arruy medical officers was point+d out.

I womld refer to a similar instance in the last Gazate, in whleh SnrgeonGeneral Reade, V.C., snd a Quartormaster are placed on tho retired list. What will be the status and how will they be receired in civilian sooiety? The one as Dr, Realle, a retired army doctor, the other as Major - a retired officer of the army, and as such of superlor ontcinl and social status to his late commandlag affeer.

In spite, however, of the Indiffercoce with which a grateful conntry remards her army surgends, the pame of Surgeon Reade, olst, will live in the bistoric rammolrs of the ladian 3utiny, Bs a lirillimet example of inltiatlve and gallantry, When, on Scptember 14 th, $185{ }^{\prime}$, he led a storming narty of his regiment against ovorwhel miag oide; and agaln, inter in the siege, was one of the first to mount the wreach of the tiagazivo, which was stormal by his regiment. And yet we are told we bave no grievance when men who have made history, aud whom we look nn to as heroes in onr corps, mre rewarded with sach etint.

## TIIE NAVY.

Sumpor A. W. Jt.Leon has veen phaced on the retred list of his rank. His commasioa bears date bepternieer $2 u t h, 187 \%$
StafrSurgeon Valestine Duke, B.A., M.B., has leen promoted to the rank of Flect-Surgeon. Ife entered the service as surbeon September 7th, 1s68, and heeamo Stan-Surgenn Incember 20ih, 1878.
Fleet-Sargoon E. J. Butzers, B.A., M.1., has been placed on tha retirgd list of his rank. Ho eatered the ecryice ns Surgeon Octuler 20th, 1859, became Staifsurgeon Angnat 2nd, 1sil, \&n.l Fiect-Surgeon Jananry Soth, isse.
Mr. M. W. Cohamas bas been appointed Sargeon and Agent at Gnlwey and Barbs.

## TIIE MEDICAL STAFF.

Depuzt Surocon.Genemal A. F. Bradstuw is brought on the administrative nedical state of the Benisl army, rice Deputy Surgeun-General J. Ferguson, whose tonr of aervice In Irdia has expired.
cour of aervice in Irdig has expired.
Surgen G. F. M. Maras is placed on general dity in the Poona Divislon, Bombay command.
Snrgeon R. S. F. II rxoensox, M, B, aerving in tho Bengal command, has been posted to the station hnifital at Mardniay, fior laty.
Briszle-Surseon ET. C. Mennent, M.D., F.,R.C.S.I., is granted retlred pay with the hmorary rank of Deputy Surgeon General (ranking ny Colonel). Hla commisalons are dated:-Assistant Sargenn, Septemhier 15th, 1857; Surgeon, May 3th,
 He has no war record.

Surgeons W. T. SWas, M.B, ; J. 1T. Maly; 13, L, Mhly, M.D, ; C. A. Rennf, M.B.-J, G, Blast, M. J.; and F. W. G. Mash, M. B, , all of whonare aerving in the loemgal comomand, have passed tia esamination in Ilindustand by the lower standard.
Surgeon A. Dodd, serving in tha Bombay command, has leave of absence for als months on privato aflairs.
The undermentioned gentlemen, wha have arrived from lingland for service in the Manlras commsml, are posted as follows:-Surgeon-Major F. A. Dayy, M.D., to bo Senior Medfeal ollteer at the Ramponi Station dlosulitnd ; Surgeon F. JI. M. Bonras, M. B., to do gereral duty in tho Bangatore Division and Belgana and Cuded Districte; surgeod A. L. E1. Dixos to do general duty in tho Esstera District.

## THE INDIAN MEDICAL SERVICE.

Sumobon-Majon C. F. Olmmay, Bencal Establishment, ls promoted to be Brigade Surgeon, vice J. C. Morica, promoted, Brignde-Surgcon Ulaluam eatered tho eer, vice as Assistant Surgoon July 2tht, $153 y$, and became Surgeon-Major July 31st, yee as Assistant surgoon the Goorkbay in the operntions in the Malay Peningulí in lisfori (medal with clasi), and with the same regiment tu the Afghan war in $2878 . \pi 9$ (medal).
The retirement of Brigade-Surgeon E. Bonavia, M.D., Bengal Eetablishment, ia eancelled.
Surgeon-Major A. J. Willcacks, M.D. Rengal Establishment, Offeiating Oiril Surgeon, tirst-class, on return from privilege lenve, is appointed to the civil medieal charge of the Agm Distriet.
The serviecs of Brigade-Surgeon A. H. Hilson, M.D., Bengal Eatablishment, Civil Surgeon, Flrst Class, Agra, are placed at the disposal of the Government of India in thie Home Depsrtinedt

The services of Surgeoa A. D. Evass, Madras Establighment, Acting Civil Sur, geon, Monlmein, are placed at the disposal of the Major-Genera! commandiag the Upper Burmah Field Force from tho date on which he may be relieved by Snrgeon! Major G. T. Thomas.

Sureon O. J, Basiner, Bengal Establishment, Civil Surgeon, is transferred from Pyinulwin, and appointed to the medical charge of tho Indian Marine Eatablishment at the shore, Mandalay, io addition to bis military duties.
Surgeons F. J. Cnawford, M.D., and A. H. Jacon bre numitted to tho Madras Establishment from Novemher 16th, the date of their arrival at Bombay.
Surgeon W. H. QUicke, Bombay Establishment, is appoluted to offlate in The followiag postings have been ordered in Burmah : Surgeon-Major J. P. MCDERMOTr, XIadras Establishment, to Yewan, to nssume medleal charge of tho ${ }^{15}$ th Madras Intantry; Surgeoa W. Cosrv, Bengsi Estahlishment; the soction of his held hospital to Mandalay; Surgeon D. P. Wabliker, Madras Establishment, to the Gederal Hospital for native troops, Mandalay; Brigade-Surgeod G. D. Ridoers, Madras Establishment, to the medical charge of the Nintive Gederal Hospital, Mandalay
Surgeon HI. W, Palanis, Bongsl Establishment, is appointed Officinting Medical Oflicer to the 9 th Native lainntry, vice Surgeon-Major A. U. Willimas, M.D., granted lave out of India.
Surgeon F. S. Peck, Bengna Establishment, is appioted Civil Surgeon of Mymensingh, but will continue to sct as Civil Surgeon of Sarum.
The services of Surgeoa-Msjor M. Rounson, Mndras Establishment, are replaced The services of Surgeoa-Msjor M. Rounsson, Mndras Establishment, are replaced at the disposnl of the Commnnder-in-Chict,
Surgeon A. H. Jacna, Madras Establishment, who las srived from Enginad, is directed to report hinself to the Deputy Surgeon-General, Her Majesty's Foreey; Eastera District, for duty.
Sargeons C. I. MI. Green, E. C. Habe, F. C. Clabkgon, J. D. M. Siminboeng, and $\mathrm{J}_{1}$ Monwoon, M.D., all of the Bengnl Establishment, have passed tho examiuatlou in Findastnui hy the lower standard.
Surgeon G. II. D. Gemlette, B1.D., Bengal Establishment, Resideney Surgeon, Nepal, is appointed to officiate as Medical Officer 1st Central Iudia Morse, and of the Goons Political Ageticy, from the date of joining, vice Surgeon G. G, W. Lowthe Goons Politicas Agency, from the date of joining, ices are replaced int the dis-
dell, who has been granted furlough, and whose serves are dell, who has been granted furiough
posal of the Military Department.
Surgeon D. Simpson is ndmitted to the Madras Eatablishment from November 2nil, the date of hie arrival at Bombay.
Surceon-Major G. E. E. Bunrocigus, Bombay Establishment, in medical charge 3rd Light Cavnlry, has been granted lesve out of ladia, on urgent privatonffairs, for six months, from date of being struck off duty.
Depuly Surgeon-General A. M. Ganden, Bengal Establiahment, retired, died at Merrow, near Guildford, on December 17th, at the age of 55. He entered the service ss Assistant-Surgeon, January 11th, 1's55, and attained the rank of Brigadesurgeon, Nosember 25th, 1879; he retired with the honorary rank of Deputy Sur geon-General, January 26th, 28s1. He does not alpear to bave seen war service.

## THE BOLUNTEERS.

Songegn T. E. Undeanill, from the 1st Tolunteer Battalion South Stafordshire Recinent (late the 1st Stafford), is eppointed Surgeon to the 2nd Volnnteer Batfalion Worcester Reginent (late the 2nd Worcestor); and Surgeon II. H. Swith, from the lst Volunteer Battation, Worcester Reglment, takes Surgeon Underhill's place in the 1st South Staffird.
The undermentioned gentlemen are appointed Actiag Surgeons to the corps speelfled: 12. 3. Grabas, 1st Flfe; E. W. White, 31.B., 2dd Volunteer Battalion Went Keat Regiment (late tho Srd Kent); J. M. Haapea, lst Volunteer Battalion Somerset Light Infantry (late the lst Somerset).
Actlig Surgeon A. HAr, M.D., 1st Dumbarton, has resigned his commisaion, which bore dato January $24 t h, 1877$; be is permitted to retain bie rank and un! form'
Acting Surgenn G. A. Raypaty, 1sth Lancashire (Liverpool Irish), has also
csigned hls eppolntment, Which dsted from April 16 th, 1884.
Active Surgeon T. W. C. Joves, l4th Middlesox (lans of Court), is promaterl to he Surgeon to the same corps. Surgoon Jones joided the Iana of Court February $8 \mathrm{th}, 1852$
Senoeon-Gexeral, writes: 1 think the jecorumendation of "A Correspondent," in the Journal, of December lith, an excellent one-that a suliscription te atarted for the purppse of defraylug the cost of forwarding a copy of the other expeoses that olay nrise in this and the probable etruggle ariaing ont of vote 4 in the lluuse of Commons, Should a aubseription be started for the above object, at your offce, 1, too, shall be bappy to contribate ell as my mité.

## MEDICO-LEGAL AND MEDIC0-ETHICAL.

a SATISFACTORY DECISION.
A case which was recently tried in the Sheriffts Court, at Dumfries, shculd serve as a warning to thoso who are disposed to pin their faith on bone.setters. $A$ medical man brought an action acgainst a farmer to recover his chargos for professional services rendered. The farmer had met with an accident to his knoe, causing damage of a more or less permanent nature. When he received the medical man's account, he wrote saying that his injuries had not been properly treated, and that in consequence his knee had been ruined, and that he purposed raising an action of damages for $£ 500$ in the Court of Session for maltreatment, on the anthority of a north country bone-setter. The medical, man immediately brought his action, and when it came on the farmer withdrew his allegations and threat of an action for damages, and craved to be allowed to make payment of the account by instalments. The sheriff, however, held that he was desorving of no sort of consideration, and gave a decree for payment of the full sum, with expenses.

## - ANOTHER DRAWBACK TO THE EMPLOYMENT OF UNQUALIFIED

ASEISTANTS
Mr. Ciarles Henny Harral, L. R.C.P.Ed., M.R.C.S. Eug., L.S.A. (52, Kirkgate, Leeds), referring to the reply to Mi. Nevite, published in the Jdornal of De cember loth, page 1307 , writes? What wo wislı to know is this. Supposing a claim is made for, say, twelve visits, of whieh perhaps four are made by au unqualitied man, is the prineipal eutitled to charge for such visits with those made by himself? As I understand! it, the registrar of this court refuses to allow for any work except that done by the qualified man; and should he keep allow ior any work except that done has not seen the case in question, and the debt is admitted, he still requires the personal attendanee of the priacipal at court, This means the loss of much valualule time.
of course. we all linow that the attendanee hy an unqualificd man solely cannot be clained; butsurely he may be permitted to make oceasional visits unde p, the direction arid supervision of his employer; who cam eharge for such services. I telieve the ssme ruling was given in a case of midwifery; so that practicalls it amounts'to this: thist.one unust, either have, done all the aftend ance and petsonally fuake the medicine, ne he non-suited. surely this is unfair to the employer, and alsa to the naqualitied asaistant, who is generaly cam pelled to work for bis living until he ean outain his dinloma, and who cannot in any other was learn the real practieal part of his professicu.
The questions to he answered are:. First, is a medical man entitled to charge The questions to he answered are:. First, is a medical man entitled to charge
or the partial attendance on a cass by an mqualified man, nader his direction and supervision ; Secondly, can he claim for attendance on midwifery cases by gnch assistants, the nfter attendance being tuade by himself? Thirdly, is the Registrar right in law in requiring the personal atteudance af the principal at court when the dcht is admitted
** The first question is best answered in the words used by Lord Coleridge in giving judgment in the ease of Howarth 4. Bererley, to which iye have alrendy referred: "If the qualified man had yiveni ad vice, and the nnqualifed man had been meroly the ministering hand under the directing brain of the qualified man
the services were those of the qualified man." In such cases the registered practitioner can recover, Where some visita are made by himself, he is undoubtedly entitled to his charges for them ; but as yegards visits made by an assistaut, he roust satisfy the court that he did in fact direct and supervise what the assistant did. If hecan prove this, he may be entitled to recover charges for the assistant's visits, but not otherwise. Connty courts are not mere debt-collecting agencies, sad are not hound to give judgment for the plaintitt merely because the defendaat fails to a ppear to dispute the clajm.
The Leeds registrar apparently considered that he had good grounds for supposlag that some practitioners have brought actions to recover payment for Gervices for which they wero not legaliy entitled to charge, and if so, he is perfectly right in insisting on strict proof in all eases which he thinks suspicious. This may he a liardship on sone perfectly honourable practitioners, but they have no real gronnd of complaint unless they are refused judgment when they prave their cases.
2. Jidwifary cases staud on the same footing as others. They seem to come within the words of the statute, "medical or surgical advice, attendance, or the performance af any operation.

## A MEAN FRIEND.

X. Y. Z. Writes: A short time since an accident oceurred near my lonse to Mr. A. on whom I attended. Mr. B. immediately afterwards cylled at my house, and requested to know at onco bow much I was roing to charge for my attendance, etc., which1 I could not then possibly, tell. Mr. B. requested me to atteud his frlend properly. Next morning he brought another niedicsl man to meet me in consultation; he ordered a nurse in my naure; and later in ths day requested me to have a further consultation. An appoiutment was mide by letter, aud the consultation took place on the third day, Mr. B. being prasent, and he paid the consultant's fee.
After my attendance was over I received a letter from Mr. A., saying that his friend B. requested my neeount, which was duly sent aad neknowledged by B. six days afterwards. B., however, stated that the amonnt was in excess of what he thought proper, and that he could not pay it; however, under the circumstances, he wished to be fairly lilieral, and he thought this would he done by his paying $£$,-whieh he aceordingly enclased. I complained at once, and asked for the halancs of account by a second lettar, noy charge not being more than my usual fee (which is not wore than the usual scalc), the amonut having
been previausly submitted to one of my old tutors. 1. Mr. B. pleads that he did aot request me and direct me to attend Mr. A. 2. That the Statute of Frands has not been complled with, 29 Charles II, chap. 3. 3. That I accepted f.- in accord and satisfaction.
*** On the circumstances stated it is clear that B. requested the attendance and made hhaself liable to pay the ordinary and proper charges; also that the cheque sent was not aecepted in satisfaction of the whole claim. The Statute of Erauds does not secu to apply to ameh a case ns this.

## LOW PEES.

Sopplet and Demand writes: I cma smppriacd to see ia a note la the Jourral of December lith, on "a bnsimess card," that you consider it nnprofessionst to charge auch fees as "Is, for advice and medicise at the surgery,""[s. 8d. for visit and medicine, and 12 s . Ed. for midwifery." What then, I wonld ask, are the lowest prices that cau he considered prafessional in the above lastancea?

* ${ }^{*}$ O Our correspondent's couception of what is due, nat merely to himself, but to the profession at large, in relation to professinnal charges, is certainly not in sccord with that of the great body of his brother practitioners. Need we remark that the fees in question for medicine and advice, althongh in excess of those maually speeified on such self-advertisiag cards, are nevertheles3 lower than the ordinary charge of a chernist for medicine only. But eren were it otherwise, the simple fact that the professionally objectionable cards were extensively and indiscriminately circulated of itself canstitated a regrettable proceeding. Our correspondent may, we think, pernse with advantage the lstter part of the fourth rale, page 53, of the Code of. Medical Ethics, in reference, to "sham" " dispensaries.

FEES FROM THE CLERG.Y.
Graptos writes : I bave been requested by a vicar, who lives at a distance of five miles, to attead his curate, who resides with him. Am 1 justified in making any charge for my visits; and, if sa, to whoma, the vicar or the curate? $\overline{7}$ " $_{3}{ }^{*}$ If our correspondent had been an olservant reader of the Joursisi he masy have noted that the question of professional charges to the clergy has been repeatedly answered therein. Nevertheless, we have pleasure in assaring bim that he will he fully "jastified in making a charge to the curate," in accordance with the rule laid down in the second edition of the Code of bredisal Ethiss, page 79. His statement of charges should, in our opinion, be made out in the name of the curate, not the vicar, unless sa desired.

TRE SALE OF EOOD AND DRUGS ACT IN YORKSHIRE:
A correspondest writes: At the Leeds West Ridiug Police Court a milkseller was charged with abstructing the inspector of weights and measures by refusing was en milk for the purpose of analysis, an offence panishable nuder Section 17 of the Sale of Food Act. It appears that the defendant was driving Section 1, of when the inspector asked him for a asmple out of a particular can. a milk cart, when the inspector asked him or a araple inding, npset the contents The defendant refused to sell; and on the officer insisting, npset the contents of the can into the rosd. The bench of nagistrates dismissod the case, hold
ing that the prosecution had failed to proie that the mill was in course of delivery.

The case farcibly illustrates prexious comments on the working of the Ssie of Food Act which hare from time to time been made in the Jourasal. An ex. cellent Act is ruismanaged, and but too often rendered worse than useless by the action of the magistrates charged with administering it. If there could have been shadow of s doubt whether the milk in question was in course of delivery the action of the milkman clearly, showed his guilty conscience. declaration on his part that the milk was not in course of delivery, but was intended for purposes other than hnman foad, say, for that of pios or ather animals, an assertion which if true could have been substantiated in evidence, would lare fully exonernted the milkman. Bnt to koock down a churn for the purpose of destroying the corpus delicti is surely as conclusive evidence of galt as the dropping of a watch by a pickpncket or a jemmy by a qurglar.
**. The magistiates were not wrong in the course they toak. It is no offence merely to he in possession of adultersted milk, aud some evideuce must. be given that it is (1) on sale or (2) in course of delivers to a purchaser in order to support a conviction for refusing to sell. The illustration of the burglar and the jennmy is unfortunate. Pariameat has decmed it necessary to make the mere possession of honsebreaking tools an offence, without proof of any attempt to break into premises. If a man was found under suspicious circumstances near premises where a lurglary had been attempted or committed, the fact that he dropped the jemy would be strong evidence that he was the lurglar; hat if he neighlourhoou, he in the street, no premises baving been attempted in the all. On the facts stated, a conrietion might have been supported; but if a cass were taken for the opiniou of the High Court, the judges would not order the uagistrates to convict.

## LUNACE CERTIFICATES: ACTIONS FOR DAMAGES

Infecix writes: A brother practitioner and myself are to be made defendants in an action for damages, brought by a person who was put into coufuenent nuder our certificates some thrce or four years ago. Wurld you give me a re ference to any such case, that has been trien of recent years, in which the grounds of actiou have mainly been that the statements in the certificates of the cortifying medical men are iusufficient, or considered so, to prove insahits?

* The sulyoined list will furnish some of the information for which "In felix" asks, although, in some of them, the chief or solo ground of action was searcely the alleged insuficieney of medical certificates to prove insanity. The list does not proten'l to he complete.
smith (complainant), Lattey (defendant), at Southan Petty Sessions. Mid land Times, December 3rd, IS87; British Medical Jourana, December 17th,

185\%, p. 1361. Tadfal $x$. Sporgin; tried In London Novemher, 18\$0, beforo Mr. Justico Deamad. Dally press, and Jovanal, November 27th, 1856, g. 1043. IIughes r. Langmore and Armstrong; tried In London Novenniver, 158\%, before Mr. Justlec Mablaty. Dally press, and Journal, November 2 i hh, $1 \$ 5 \mathrm{~g}, \mathrm{p}, 1044$. Ifsiker e. aeveral medleal mea. Several actions tried in Loudon in 1884 and 1885 Case from Lewea: trfod in London 1Ss3. Feibalo plaintiff $\because$. Whittlo and others of Liverpmol, and Monld, of Clieadle, Manchester, about 1sst. Wehlon 1. Rntherford. Weldon r. Semple.
M.D. - In refirsing to our correspondentia letter (without the slightest wlah to traverae the etatementa therein) to the assessor-which, ex necessitnte, caino ander our notice-we think it well to remark that, In our opinion, he has acted Wiacly in "unreservedly withdrawing the complaint or accusation as being inteaded to apply persoally to the individanl attended to any more than they would to any other practitioner similarly circumstanced." He that as it may, we deemed it expedient, in consequence of the sssunned persmanaty, to investigate the matter more fully, with the result that, onder the circurnstances disclosed, we feel that the oplaton expressed in our reply to "X. Y. Z." was moro than justined.
G. J. W. F.- "In the interest of peace" (and of the profession also, It may be well to ald), to quate the langunge of our correspondent, we would auggest that "the matter be now allowed to drop." Nevertheless, if, in asommed justice to himself, he deenss further Investigation of the alleged fact.s essentisl to a due viadleation of his professional conduct in the cases, we shall be glad to receive, with as little delay as may be, the proffered correspoodence, snd eapecislly that whlch relates to the alleged "dismissal" of Dr. A. prior to Mr. T.'s obetetric engagernent by Mrs. W.; In reference to which we note the fact that, slthough the copy of her excalpating note is dated November 2ad, it was not tramamitted to as until December 1 sth.

## MIDWIFERY FEES

F. F. writes: I was engaged by a clergyman on October 6th to attend his wife in her confinerneat about the middle of this month. I was sent for to see her aboat a fortnight ago for some trifling ailment. I have since recelved a letter to cancel the engagement for the following reasons:1. That the distance was too great. The distance is not more than a mile, and neither of us has changed our residences. 2. That Ihsd neglected to call on her unssked-a proceeding which I ahould deem noprofessional. 3. That I declined to administer chloro form as a matter of coarse duriog her labour, except it, in my judgment, I thought it necessary to do so.
I need not asy that I refused to cancel the engagement, and bolicited the fee that was agreed npon. I write to ask if my professional conduct has been correct; and whether, if in the event of a refusal to pay the fee (which the patient seems inclined to do), I can recover it in the county court.
*W.F. has been perfectly correct in his conduct in the case, sad we believe could recover in the coanty court. It depends, however, on the view taken by the particular judge; they differ on such questions.

## A TESTIMONIAL TO A SECRET REMEDT.

MzMBER of Tir B. M.A.-So gross a departure from the ordinary collegiate disciplinary rules, as the "medical opinion" paraded in Messrs. D. snd Co.'s placard advertisement, should, in our oplnion, for the honour and dignity of the profesalon, be st once referred to the respective Councils of the University of Dablin sind of the Rnyal College of Surgenns of Eagland, of which the giver of the testimonial is a reputed graduate and member. A simple note from giver of the testimonial is a repated graduste and member. A simple note from to indoce them to take action in the matter.

## MEDICAL ETIQUCETTE.

A. and B. are the two practitioners io a country town. A is juoior, bad has been in practico only a few montha. A. Informed B. that he shonld have to make any practice he might get out of B.'s. B. Becs no objection, provided it is done In a ingitimate manoer. $B$. Is called to a case, but is out, and will not be home till 12 o'elock. The hasbend cannot wait, and goes to $A$., who sttends, prescribea, and finds the patient within a fortolght of her conflnement. B. has alwaya attended her, and is engaged to sitemi agaio as usual. A. is informed of this by the hasband, but goes on attending, abd also sttenfs the confnement, Whleh is hastened by the present attack. B. asks: Should not A. have informed B. that he hail gono to a case of his in an emergency, and declined to attend the condaement? 13. oaly heara of the circumstances a fortgight after, when tho hasband calle, explalas, and apnlogises.

- Tho line of conduct which shonld have been purancd by $A$. In the case relatod by B. Is clearly lald down in the followlog rule (i) extracted froin the second edllion of the Code of Medical Ethics, page 69: "When a practitioner is called to an argent case, either of audden or other Illness, accident, or idjury, in a family naually attended by another, he should (unless his further attendance In ennsoltation be deslred), when the emergency is provided for, or on the arrival of the attendant in ordinsry, resign the case to the latter, but he is entitled to charge the famlly for his services."

CONSLLLANTS AND GENERAL PRACTITIONERS.
M.D., F.R.C.S.Ed., writes : I am in general practice a few miles from ane of our largest provincial towns. Cases sometimes occur when I wish for the opinion of either a apeciallat or general cunsultant. He apjointa a time to seo my patient at his nwn 100 ma , and, if I am nasble to be juresent, he writes to mc afterwards his opininn of the case, and anggestions as to trestment. Sn far so gond. Inateal of nnw leaving the case stlli in my hands, ifnd in a large nnmber of iostances that the consaleadt makes an approintident with my fintient namber of iostadeces that the consuladt makes an apprintinent with my pintient
to returd on a certali day. Ife goes, and then ho is given a prescriptinn, nid
 petient altogether.
$\because$ Ingiving the desired problicity to "M.D. 8 " temperate commonication
relative to tho alleged fline of conduct juraued by certain speciallsts and codanttants, we note with regret that such dialoynl action towards a professional brother is calculated to engender a mere or less general distrust, and very naturally to induce general jractitioners to rely on thele own unalded skill in cases of doubt and dimenlty. A policy so suicidal on the part of coasultants ought, in our opinion, to be soverely condemned.

## PRINTED TESTIMONIALS.

T. K. asks for sdvice on the follawing point: A. gives goodwill of his practice to B., who has just come to the town. Is It a transgresyion of medical etiquette for A to les ve a copy of B.'s testimonlals with hia patients as he la introdacing B. or taking his leave of them? 13. had his testimonials printed in the form of a small pamphlet, as he was competing for an appointment in the town.
** Although it is customary for the several caddidates, in the case of a contested appointment, to transmit to the elective body a cony of their respective testimonials, it would be contrary to professional etiquette, and in bad taste, for A, on personally introducing B., to leave a copy with the patients. If, from some exceptional cause, such a presentation be deemed important, it should be effected by A. slane (in simple contirmation of his individusl opiaion of his in. tended successor), elther prior or subsequent to B.'s introduction, sad should, moreover, be atrictly limited to A.'s dc facto patients.

## INDIA AND THE COLONIES,

INDIA.
A Prince of Peilantitropists.-The Maharajah of Darbhanga, in Bengal, has established a hospital and dispensary for femalo patients near his ancestral seat in the district of Darbhanga, Behar, and is erecting now quarters for its accommodation at a cost of 55,000 rupees, in connection with Lady Dufferin's Medical Aid for Women Fund. This is one of the least considerable of the long series of philanthropic acts on the part of this distingnished Hindoo on a scale of magnificence hardly ever equalled.

## SOUTH AFRICA.

Hydrophobia, -Dr. W. C. Scholtz has sent to the South African Medical Journal the following account of a case of hydrophobia publisbed in the South African Chronicle and Mercantile Advertiser in August, 1825. The special interest of the quotation is that it is generally stated that the South African colonies were 'free from the infection of rabies :-

## Hydnopitobia.

Stelienboscu. - A very melancholy aud distressing case of thls horrible and incurable disease has occurrel within these few days at the place of Mr. M.: Beyers, at Clapmnts, John Edwards, formerly a farrier In Her Majesty's 2lat Light Dragoons, \& long reaident on the place of Mr. Watney, and well known in the neighbourhood of ibis district, way suddenly attacked with its characteristic aymptoma on the moraing of the 15 th instant, namely, insbility to drink; a kind of convulsive horror on the appronch of liquids to hia month ; with a severe shooting pain, extending Itself to the bnttom of his breast hone; these symptoms continued with more or less severity until the last; his oufferings happily were not so great, unless in forciag himself to driak-thirst belag excessive; he suddenly and unexpectedly expired in the afternoon of the 17 th, in full porsession of bis aenses, about ninety-two daya intervening from the infliction of the bite to the development of the disease. Ile was visited by professional gentlemen of Stellenbosch, and, when frat seen on the second dny of the sttack, he prositively refused to take any thiug in the shape of medicine from his horrorand avertively resused to take anythug in the shape of mediciae frora his horror and aver.
sion to he was now foing to dic. $H_{1 s}$ reluctance, however, was overcome, sad attempta were made to relieve, but without the amallest success beyond sllevintion, thus sdulag annether melancholy Instance of a diseasc that has hitherto bafled all the efforts of the medical profeayion.
$\because$ Dr. S. F. Ternich, District Surgeon of Boshof, OrangeFrec State, has recently recorded in the above mentioned medical journal a case in which he had made the diagnosis of hydrophobia. The patient, \& yonng farmer of nervous tempersment, dled after an illness of five days, characterised by extreme excitement, ioabillty to swallow, dread of liqulds, the expectoration of white frothy mucus, and the absence of any signs of organic disease. Thore was no hiatory of a bite from a rabid adimal, nor has ho beco bitten by any animal, ao far as could beascertained, for at least eight yesrs. The aymptoms were certalaly stroagly aagestive of bydrophobia, but it is aot possible to say moro than this. Dr. Weralch states that rables is woll known in the neighhourhood of Boshof, eqpecially among tho older lahabitanta. "When it occurs in the dog it is koown," he says, "as "Dol Hond," ind when a peraon Is bitten by a "Dol Hond' he is anid to become 'dal' (mad)."

It would ine Interesting to learn whether the fles of the South African Chronicle for 1825 contain any reports of any other case of hydrophobia, or of rables in the dog.

# PUBLIC HEALTH axd <br> POOR-LAW MEDICAL SERVICES. <br> DISTRICT MEDICAL OFFICERS AND "CLUB DOCTORS." 

As regards the questions submitted by "Retlaw," we will reply to them in the
order sent: : We donbt if a board ol guardians woald allow an extra fea where the fractara had been put ap by another medical geatleman, and had remained under his cara for fifteen days after the secident happened, that is, if the Board was put in possession of tha facts of the case. The Central Department would assnredly disallow anch payment.
2. The condnct of the district medical offcer, on seeing the casa above, taking off the splints, etc., of another medical gentleman, and patting on his own, was highly objectionable. This procedure should be Te
of Gardians or to the Local Government Board, or to both.
Guardians or to the Local Goverament Board, or to both.
3. To eata blish any claim to a ree, ha should have taken entire charge of the case.
. Here again we give the answer as above: lay the fact of the rafosal to attend and send medicines before the Local Board and the Cestral Aathority also.

The district medical officer has no power to refuse neceasary medicines and nttendance on any poor person whom he bas been called to risit by an order in the hand writing of tha relieving officer on the ples that the pauper ha is
directed to attend is a member of a club which is under the professional charge of some other medical gentleman.
Finally, wa advise that pending the decision of the Boari of Guardians or the Dacil covernnert Baad on the ponits mase by our corresponeate
 same as ir no such objectionahle district medical officer was in existence.

TO OBTAIN A DIPLOMA IN PUBLIC HEALTH.
Dounly Qualified.- You could not do better than procure the certificate in sanitary scieaca of the Cambridge University. The list of books recommended by tha Unjversity is so long, that we wonld advise you to purchase, for one shilling, the last published examination papers, which also give this information. They are to be had at the Cambridga Warehouse, li, Paternoster Fiow, London.

## FEE FOR FORCEPS CASE.

Dr. G. H. Fitzgerald (Ponteland, Northumberland), asks if an instrumental midpirary case (forceps) is included in those cases for which an extra fee can le claimed from tho guardians for a workhouse case. He adds that the use of the rorceps was urgently required.

* Our correspondeut cannot claico as of right, any fee beyond £I for assistance rendered to a case of midwifery occurring in a Forkbouse, but although such is tho law, a hoard of guardians may grant a larger fee, if a representation was mada to them that it was a casa accompanied with difficulty an danger, which compelled instrumental aid to bring about delivery. If the Board granted such fee, it would have to be reported to the Local Goverument Board, to obtain their sanction, or the anditor would surcharge the hoard of guardians for giving an exceptional fee.

The writer of this reply once had a case of instrumental midwirerj, whera he called to his assistance the late Dr. Hall Davis add his own assistant. On appeal to the board of guardians, they voted Dr. Hall Davis $£ 55 \mathrm{s}$. ; tha medical officer, £2 2 s. ; his assistant, $£ 1 \mathrm{Is}$; the midwife snextra fee of 10 s .6 d. , and the paid nurse, 5s. Total, £93s. 6d., for a pauper gir?. The facts having been laid before the Local Government Board, such grant was at once confirmed. The entire attendance extended over seventy-eight hours.

## COMPULSORY NOTLFTCATION OF INFECTYOUS DISEASES.

Dr. John Hadnon (Mfelrose) writes: I observe from the Jovnnat of December ITth that the Local Goverament Board is taking up the question of compulsory notificstion of infectious diseases, and asling answers to six questions from thosa local authorities where that system has been in use. Tha fifth question rcads thus:- "Wlist is believed to be the geueral result as regards the limita. tion of the spread of infectious disease?"
Replies to such a question will no doabt vary according ta the experience of particular localities, but it is doubtful whether any authority is capable of forming a true estimate of tha ralue of the notification of infectious diseases, cven whan supplemented by ample provision for tha solation ar such cases in hospitals. Any local suthorities which have lad notification, with ampla hos the prevalencc of the several epidemic diseases during that time, may no doubt furnish raluable informstion, but naless the Lecal Government Board at the same tima is informed of the general sauitary state of the various districts from which answers to their six questions are received, no reply can be or any practical value with a view to future legislation on the sabject.
If we took a general survey of the most formidable infectious diseases, and cnfeavonred to answer tha question-How can this điseace be stamped ont ? for each iudividually it is evident that the measures we might soggest to such an cad would depend on our knowledge of (1) the cause of the disease, and (2) tlis way in which it proyagated itself when it had oucs originated. Thus, as to typhus, how would we proceed to stamp it out?
We are pretty certaln that typlius is originated by tha overcrowding of human betags, and that it will break out wherever sutheient overcrowding takes place onca originated it is, perhaps, nur most infectious disease. With such know iedge, then, shall we rest satisfled with advising notifcation and isolation in a hospital so 8 to prevent its spread ? Should we not rather adrise that a csreful inspection should be mads of all the property under tha dominion of the samitary nuthority, and that wherever the couthtions likely to give risa to
not wait for the outbreak of the disesse and then merely try to prevent its spread, but rather, acting upon our knowledge as to the conditiona under which it originates, cadeavonr to remove them, and make an outbraak an impossibility. Wo may thua conclude (1) that notification of typhus with any number of hospitals to isolate the cases as they occur will be powerless to atamp out the disease, thoogh such means may no doubt assiat in preventiog its spread; and (2) that by the improvement of the houses of the poor this disease may be entirely stamped out, so thst neither notification nor the hospital would be needed.
1 is a curions fact that in Edinburgh, where typhus used to rage, claiming its victims annually from among the students and physicians, that disease is now aeldom met with, owing no doubt to improvements which have been effected in the alams of tha ald town.
Again, with regard to such a disease as acarlet rever, how would we proceed te stamp it out? We de not know how it originates, but we have a very strong suspicion that defective sanitary arrangements have to do with its inception. Once originated it is capable of spreading to the healthy who are exposed to its infection; but no nne can have practised hia profession with moderate powers of observation without being inclined to believe that those living under insanitary couditions sre most babla to its infection. How, then, shall we proceed to stamp out auch a disease? Shall we adrise notification and isolation of all cases that occar, sud pretend that we are doing our duty to ourselves and the public? If we did, and if we could ensare perfection in both particulars, wo could not atamp ont the disease.
So far as our present knowledge goes, then, ought we not to advise that the drainage throughont tha whola country ahould be made perfeet, according to present ideas, and that a pure water supply shonld be provided for every town, hamlet, and honse wherever placed? To prevent its spread (if it ahould even then originate), not only might notification and hospitals for isolation be had recourse to, bot those supplying any articla of food to the people should be under intelligent and regular supervision. Dairies, no doubt, are moch to blama but is it not possible that a batcher, a baker, or even a grocer may spread such a diserse? If it be possible that Goverument intends to luriag forward any measure calculated to. free this country from those preventable diseases which are so destructive to tha happiness and prosperity of the nation, it behoves this Association to urge apon the Legialatara thst the measure must be radical, beginning at the root and not at the frait or tha infectious tree.

## QUARANTINE IN MALTA.

Dr. L. Manceé, Surgeon-Major, R.M.F.A., writes: Lt was with great pleasure that 1 read the Iew remarks on quarantine made by Surgeon-Msjor Welch, of Netley, in your issue of December 3rd, as they awakaned in me a desire of parusing the admirable and complete account of the several epidemics of cholera in Maita published by thst gentleman and Surgeon Leith Adams, in the Blue Book of 1564. After perusing the same $I$ became the more convinced thst "thera is a clear mass of evidence showing that the disease is communicable by intercourse with the affected, and so precise and incontrovertible as to leave no doubt of the capability of its propagation in this way, indepeudently of all atmospheric conditions whatever. Indeed it may be questioned il the diseasa ever found its entrance into Malta by any other means" (p. 311). In fact, the great cara davoted by the authors to the gathering of data, in order to show that, doring tha several epidemics occurring between 1537 and IS65, the pragress of cholers, not only froin one country to another, but also from town to town, from street to oule for street, from house to house, and even from one individual to another of one and the sama ramily, and in tha same regiment, deserves the highest praise, and is quite sufficient to lead to the conclusion arrived at by them at page 319 of their report, manely: "It is clear that the diseasa radiated from Alexandria to the seaport towns of the Mediterranean in the exact ratio of tha frequency of their communication with it, and that these town became new foci for its propaga tion to others, and into the interior by means of maritime and lsud communication....These racts ara incontrovertible, and, while they furnish indubitable proofs of the communicstion of cholera by human intercourse, strongly militate against the existence of a genersl epidemic constitation in tha Mediterranean basin." Further on, at page 332, it is stated that "soma of the worst streets escaved altogether, others remained exempt for a long time, hnt on tha intro duction of the disesse clearly showed thnt the previons immunity was in nowise due to the ar that wh absencs of localising causes. or not arst to de crawn was this, starting point favouring conditions, and the sanitary messures bsd recourse to
The inference to be drawn from the above statements, with which I perfectly agre $e_{\text {, }}$ is that immunity from cholera can only ba attaned (1) by preventing im portation of its virus, and (2) by improving tha samitary conditions of the island, so as to lessen its propagation when it has anca been introduced. Thongh I sm a staunch supporter of strict sfrafto as the only means for attain ing the first object, I am as strong an advocate for sanitary measures to obtain the second.
I am sura both you and Surgeon-Major Welch will be pleased to learn that the opinion umiversally eutertained here is thst both thesa preventive measures should go hand in hand, and I defy anyone to prove that in our casa "the im position of quaramtine indnces a sease of false security, which militates agains tha adontion of those beneficial sanitary measures on shore, whereby the spresd of cholera, it the disesse were introduced, could be prevented." In fsct, con
 towsards the improvement of sanitation in this island.
I still, homever, maintain that, up to the time whan tha ssnitary condition of every country will hava attained perfection, sad when all Goveroments, from one pole to tha other, will, hy international agreement, decide to do away with quarantine completely, so that frea intercourse may exist betweed ore port and another, whether they be infected with discasa or not, up to thst time, I say when such tics of affection will bind all nations, sfratto alone will be abla to save us from the importation of cholers.
It will not bo lost sight of that, nnder preseut circumstances, the very appear aucs of cholera in Malta, irrespective of all our preventive messares against it spresding, is considered by other Governmeats sufficient reasan for interrapting all commuuication with this islaud.
As to the pussibility of adopting sfratto when "what was intondell as a safe guard beeunies at best a uscless measure," I may state that ir British representatives abrosd were as careful to report to this Govermment the appearince of the very first suspicious case of cholera as foreign Consuls in Maltas sre in briaging similar cascs befure the Governments they represent, with the grestut
 bility of fmpoolag nfoutm when alreais too inte, 24 jast explerfunce of the has twenty-two jeare has fully temonstrated.

## POOR LAW MEDICAL OFFICELS' ASSOCIATION

The annal report of the loor Lat Mediosl Offoers' Assoctation Lsving been issued, showing the continued prosperity of the Associa tion, the Council strongly advises all district medical officers who are not mombers to enrol themselves, ns oertain important questions, serionsly affecting their interests, are likely to engage tho attention of Farliament at an carly date.

## HEALTE OF ENOLISH TOWNS

 were registerod in the twenty-otght larga English towns, locludiag Lonton dealt with it the Regiatrar.Ooneral'a Weekly Ieturn, which lave an eatimatei population of $9,244,029$ persons. Tho anaual rato of mortality, which had been 21.1 and 221 per 1.000 in the tro preceding weeks, declinet again to 20.8 during the weck under notice The rates in the several towns, ranged in order from
the lowent, wero as follow: Derhy, 15.5 ; London, 18.0 ; Bradford, 19.1 ; Nor the lowent, wero as foilow: Derhy, 15.5 ; London, 18.0 ; Bradrord, 19.1 ; Nor-
wich, 10.1 ; WIull, 19.3 ; Nottingham, 10.3 ; Leedn, 19.5 Oldhare, 20.2 ; Liver pool, 20.3 : Brightoa, 20.3 ; Birkonbesd, 20.8 ; Mudderstield, 20.3; Carditr, 21.0 castle-upou-Tyne, 23.3; Surderland, 23.3; Shefleld, 23.8 ; Portsmonth, 24.2 Salforl, 24 S; Bolton, 25.5 ; Preston, 20.5 ; Manchester, 25.9 ; Plymnnth, 30.4 Lefcestor, 31.S; and the higheat rate daring the week, 91.7 in Blackburn. The deathrate in the twenty-seven provincial towns averaged 22.6 per 1,00 and exceeded by 4.0 the rate recerded in London, Which, as before stated Whas only 19.6 per 1,000 . The 3,679 deaths registered in the twenty-eight principal zymotic disoaseg, againat 443, $H 3$, and 500 in the thrae preceding Weoks ; of these, 145 resulted froun whooping.ough, il from scarlet fever, 79 from measles, 17 from fever (principally enteric), 47 from diphtheria, 23 from amall-pox and 23 from dlarrhea. These 455 deathy were equal to an anausi rate of 2.6 per 1,000 . Tho zyrnotic death-rate in London during the week under notice was
equal to 2.1 per 1,000 , while it averaged 24 in the twenty-acron provincial towns among which it ranged from 0.0 in Brighton and in Portsmouth, snd 0.6 in Hnddersfeld, to 4.4 ia Derby, 4.5 in Wolverhampton, 4.6 in Bolton, and $5: 9$ in sheticld. The fatal cases of whooping-congh, which increased in the three pre eeding weeks from 98 to $15 \%$, deelined again during the week under notice to 45 and cansed the highest desth-ratey iv Salford, London, Wolverhampton, and Letcester. The deaths referred to searlet fever, which had been 91 and 203 in
the two prevons wecka, declined anain daring the week under notice to 91 ; this the two prewous week, declined amain daring the week under notice to 91 ; this hampton, Plymonth, and Birkenhead. The number of searlet fever patients under treatiment in the Metropolitan Asylnmis hospitals, which had declined from 2,602 to 2,347 daring the three preceding weeks, had inrther fallen to, 171 on fonr previous weeks, lurther decllned to 120 darlag the week under notice. The Sital cases nf mealles, whech had riscn in the three preceding wecks, from 89 to 80 were in diring the week noder zotice, and caused the hifhest deathorates in forms of "ferer" (Includlag typhns, typhoid, and ill-defined forms of fever), Which had been 77 and 64 in the two greceding weeks, further declined to 47 daring the week nnder notice; this disease showed the highost proportional fatality in Wolverhampton. The fatal cases of diphtheria in the trenty-elght towns, whech had becn 44 and 47 in the two previons weekg, were again 17 drang the week under notice, and ineinded 24 in Londoh, 3 in Xanchester, 2 in Birmingham, 2 in Sheftield, 2 in Liverpool, 2 In Hall, and 2 in Cardiff. The 23 deaths rrom diarrans showed a marked deeline from tha numbers returned in recent wecks. The fital cases of small-pox in these towna, which had been 26 ,
20 , and 19 In the three nrevious wecks, rose agaln to 23 during the week under notice, of which 21 were recorded th Shefteld, and 2 in Bristol. The number o small pox patients in the Metrnjolitian Asylums hoopitals, which had becn 9 and 10 at the end of the two preceding weeks, had declined to 5 on Saturday, December 2th; no new casea were almitted into these hospitals duriag the treek. The deaths from diseases of the resplratory organs in London, which had been 40 s and 419 in the two previons weeks, decluad daring the weck under notice to 957 they were as many as 195 below the arcrage, and were equal to as ananal rate of 4.4 per 1,000. The canses of 80 , or 2.2 per cent. of the 3,097 deatha registered durng the week ander notice in the twenty elght towns were not certifed, either by resintered medical practitioners or by coroners.
In the twenty-elght Inge Engligh towns, loclnding London, dealt with in the Regtatrar-General's Weckly Retarn, which have an estimated population of $0,24,032$ persoas, 5,333 hirths and 4,402 deatha were regiatered duriag the week enling Satnrday, Decenaber sist. The annasl rate of mortality, whleh bad been 22.1 and 20.8 fer 1,000 in the two preceding wecks, rose again during the week ander notice to 24.8. The rates in the several towns, ranged in order from the Derby'on.1: Snnderland, 21.3; ITal1, 22.0; Branford, 23.0; Llverpool, 23.2 ; Loa don, $23.3 ;$ Birminghatn, 24.4 , Cardif, $24.5 ;$ Leeds, 25.1 ; Bristol, 25.5 ; Salford, Niewcastle-p pon-Tyne, 27.9 ; Plymonth, 29.1 ; Nottrigham, ss, $;$; Black burn, 2r.0 Birkeahean, 29.0 ; Galitax, 31.0 ; Oldbam, 31.1; Manchester, 32.5 ; Freston, 33.7 and the highes: rate during the week, 33.3 In Bultan, In the twenty-aeven remacial towns the deat h-rate averaged 23.2 per 1,00 , and execeled by 2.9 1,402 deaths reglstered dnring the week under notleo in the twenty-ctght towns fincluded: : 3 Which were referred to whooplagecoukh, so to measles, sit to scarlet ferer, 52 to "fover" (princigally enteric), of to diplitheris, 32 to diarrhoea, and 28 to amall-pox: In all, 503 deaths reaulted lrom these prinetpal zymotic diaerses, abalnst 500 and 455 In the two precelling wecks. The zymotle rate was equal to 2.8 per 1,000 . In London tho Tymotic death-rate was 3.1 , while it aversjed 2.0 per and 0.4 in Halliax and Brighton, to 4.6 In Bnitnon, 5.1 in Preston, 5.4 in Notinghain, ond 6.1 in sheffeld. The fatal cases of whooping congh, which had been $15 \%$ and 115 In the two previous wecks, rose kialn dinting tho weck under notlce to 163 , anil caased the lifgheat deathorates in Salford, Oldham, Iondon, Dorby,
two prevtons weeks, rose ngnin to sitluring the werk under notice: this dinease
 noul pl in the two preceding weeks, further declined during the werk noder notice to S4, nad caused the highest rates in siorwleh, Birkenhead, )ldhan, IIuddersteid, Blackhurn, and Preston. The alumber of scarlet fever jatienta in the Metro politan Asylums hospitals, which han declinet in the hirce preceding week new cases wore abrafted tato these hoapitals during the week, agnint aumbers ateadily decliaing from 184 in 120 in the four previous weeks. The deaths re ferred to difirent forms of "fever" (ineluding typhus, enteric, and ill-denned
ferms of fever), which had heen 77, 5f, and 47 iu the three preceding wieks, rose again during the week under notice to 52 ; the grentest proportiondl fulality of fever durling the week was recorded in Fertsincuth, Nottinghan, nid Preston The fatal cases of diphtheria in the twenty-eight towns, which had been 17 In ench of the two preceding weeks, declinet during the wook under notice to 38 and foludel 21 in London, 5 in Neweasthe-upon-Tyne, 2 in Liverpont, 2 in Old ham, and 2 in Hull. The 32 deaths from diarrhoda exceeded by those recorded in the previous week. Small-jox caysed 24 deathe in Sheffleld (apainst 17 enil If in tho two preceding weeks), 2 fu Bristol, 1 in Leeds, and in iful, bot not
one in landon or in any of the twonty three other largo prorincial towns. The number of sinnll-pox ratients in the Betropolitan Asylums hespitala, which had been 10 and 5 at the end of the two pracediag Treeks, were 7 on Saturday, December sist; 2 cases of small-pox were admitted into these hoapitals during the Week. Tha deaths referred to diseases of the respiratory organs in London, Which had been 418 and 857 in tho two previnus wecks, rose agaln during the week under notice to 442, but were as many as 129 below the average. The canses of 137 , or 3.1 per cent., of the 4,402 deaths registered dariag the week under notice in the twenty-eight towns were bot certilied, either by registered medical practitioners or by coroners.

## HEALTE OF SCOTCE TOWNS

In the eight principal scotch towas, having an eatimated population of l, 290,000 persons, 789 hirtha and 559 des ths were registcred duriog the weak and-
lag Saturday, December 24th. Tha annual mate of mortality, which bad been 22.7 and 23.0 in the two preceding reeks, declincd sgain dnring the week under notice to 22.4 , but exceeded by 1.6 the mean rate curing the same period In the twaty-eight large English towns. Among these Senteh towns, the rato 20.9 in Leith, 21.1 in Edinburgh, 23 . t in Glasgow, and 40.2 in Paisley. The 559 deatha regiatered during the week nnder notice in these Scotch townsfacladed 25 which were referred to whooging-congh, 17 to "fever" (mrincipally enteric), 17 to measles, 13 to scarlet fever, 4 to diphtheria, 4 to diarrhœea, and no one to small-pox; in all, so deaths resulted from thesc priacipal zymotic diseasea, againgt 79 and 75 in the two preceding weeks. These 80 deaths were annal to an
annnal rate of 3.2 per 1,000 , phich exceeded by 0.6 tha mean 2ymotic death.rate annal rate of 3.2 per 1,000 , which exceeded by 0.6 tha mean $27 n 0 t i c$ death.rate
during the ama week in the twenty-eight largo Ebglish towns. Tha higheat zymbtie rates in the scoteh thenns during the Feak ander notice were rewhich had been 29 and 20 in the two preceding weeks, were 25 during the week ander notice, of which 13 occurred in Gissgow, 3 in Eliaburgh, and 3 in in the three previous weeks, further rose to 17 during the week under notlee, and included 11 in Edinburgh and 5 in Duadee. The deaths referred to different forms of "fever" (typhna, enteric, and simgie fever), which had been 5 and 9 in the two peceding weeks, further rese to 17 during the week under notice, of
of which 14 occurred in Palsley and 3 in Glasgow. The fatal cases of acarlet fever, which had been 14 and 9 in the two previous weeks, rose again to 13 during the Weck nnder notice, and included 8 in Glasgow and 3 in Duadee. Tha 4 death from diphtheria showed a declioe of 3 from the number in the preceding weck, and were all recorded in Glasgnw. The 4 atal cases of diarrhea were eonsiderably
below those roturned in aay recent week; The 134 deaths referred to acato digeases of the respiratory organs in these Scotch towns during the week under notice were as many as 6 below the mumber recorded in the correspoadiag week
of last year. The causea of tis, or mare than 12.0 per cent., of the 539 deaths of last year. The causea of tis, or mare than 12.0 icr cent., of the 359 deaths
reckistered daring the week inder no tica in these Scoteh towna were nucertiffed.

During the week ending Saturday, December 31 st, 850 births and 607 deaths lation of $, 299,000$ persons. The annual rata of mortallty, which had been 23.0 and 22.4 per 1,000 in the twn preceding weeks, rose agzin to 24.3 during tha week nnder notiec, and was slightly below the mean rate during the amme perlod in the twenty-cight large English tomas. Among tbese Scotch towns, the rate was in Glal to 14.6 in Per A berdeca, 20.3 In Duadec, and 35.5 in Paisley. The 60 in desthy registered during the week under notlee included -3 which were referred to the prinelpal zymotic discases, szalnst is and 50 in the two preceding wecks of these, 24 resulted from whooping.congh, 14 from measles, 13 from diphtheria,
10 from dlarrhoen, $i$ from acarlet fever, 5 from "fever" (prlocipally enteric), and not one from amail-pox. These 73 deatlas were equal to an anmusl rate of 3.0 per 1,000, which slightly excecdeal the mean zymotic death-rate during the same period in the twenty-elght large Eaglibh towns. The highest zymatic rates in the Scotch towns during the week under notice were recerdod in Loith, Greenoek, and Dandec. The fatal cases of whoopingeough, whitel had declined from 29 to 25 oecurred In Gilasgow, 4 in Dindec, 4 in Greeneck, and 3 in Lel ${ }^{2}$. The deatha referred to measlea, which had steadily inereased in the four prewlous weeks from
12 to 17 , declined again durlag the week under notice to 14 , and incladed 8 in 12 to 17 , declined gath durlag the weck under notice to 14 , and incladed 8 in
Dundee and 5 in Eitinbargh. The fatal cassa of cliphtherla, which had been 7 and I In tho two preecding wecks, roso again during the week to 18 , of which 8 occarred In Glasgow, 2 In Ellnulurgh, nd 2 in Greenuek. Tha 10 deaths from diarthea exceeded those reeorded in recent weeks, and Jneluded 5 in Glasgow and $t$ in Eillinhurgh. The fatal eases of searlet fever, which had been 9 and 13 in the $t$ wo prevlous weekn, declinem durlog the week under notice to "1, of which ${ }^{4}$ had risen In the thrie prevlous wecks from 5 to $1 \%$, declioed again to 5 , and included 2 in Dundee. The 199 deaths referred to acnto dlycases of tho resplratory orging in these Scotch towns during the weck excaeded by 14 the number recorded in the
corresponding week of last year. The canses of 61 , or 10.0 jor cent., of the 60 i corresponding week of last year. The caises of Cl , or 10.0 por cent., of the
deatiar registered during the week nuler fotlee in thoso scoteli towns wero nacertified.

BEALTH OF IRISH TOWNS.
In the week ending Saturday, December 24 th, 520 deaths occurred in the aixteen principal town districts of reland. The averago annual deathrate represented by the deaths reglatered was 81.2 per 1,000 nf the popu1stion. The deaths registered in the several towas, alphasch, 20.7 ; Belfast, 41.4; Cork, 24.7 ; Drogheda, 38.1 ; Dublia, 2S.S; Duadalk, 17.5 ; Galway, Kilkemy, 10.2 ; Lligo, 14.4; Faterford, 80.1 ; Wexford, 17.2. The desthe from the Newry, 59.7 ; Sligo, 14.4; waterrord, principal zymotic diaeases in the aixtecn ais 13 in Belnat 8 in Cork, 1 of 5.3 per 1,000 . Measles caused $S$ deaths in Newry, 13 in Belfast, 8 in Cork, In Limerick, and 2 in kizion Regiatration District, the births registered during tha week amonted to 132 , and the desths to 199. The deaths represent an anoual rato of mortality of 29.4 in every 1,000 of the estimsted pepulation; omitting the deaths of pergons admitted into pablic institationg from localities outside the diatrict, the rate was 25.3 par 1,000 . Thirty three deaths from zymotic diseases were regisrate was 28.3 per 1,000 . Chirly for the corresponding week of the last ten years, tered, heiag 3 over the avcrage week ended December 17 th; they include 3 from and 4 over the aumber 10 mer, 2 from typhus, $\$$ from whoopiug.congh, and 4 from diphtheria.
In the week ending Saturday, December 31 st, 565 desths occurred in the sixteen principal town districts of Ireland. The average anaual death.rate was 33.9 per 1,000 of the population. Tha fdeaths registered in the aeveral towns alphabetically arranged, corresponded to tha following ananal rates per

 Wexford, 17.1. The deaths from the principal zymotic diseases in the aixteen districts were eqnal to an anaual rate of 5.0 per l,000. Messles eascd
deatha in Newry, 13 in Belcast, 10 in Cork, and 8 in Limerick; whooping-cough deatha in Nekry, 13 in Belfast, 10 in Cork, condes and Waterford. In the Dnblin Registration District the births registered during the week amonnted to 1 SS , asd the deaths to 245 . Tha deaths represent an annusl rate of mortality of 30.2 in every 1,000 in institntions from localities outside the district, the rate was 34.7 per 1,000 . Twenty-six deaths from zymotic diseases were registered, being 7 under: the nnalber for the preceding week, and 5 below the average for the fift-second week of the ten years 1877.86; they included 1 from messles, ${ }^{6}$.
scarlet fever, o from whooping.congh, from diphtheris, and 2 from simple scarlet fever, from whoopin
continued and ifl defined fever.

## HEALTH OF FOREIGX CITJES.

Ir appears, from statistics prbhished in the Registrar-General's retorn for the weak ending, saturday, averaged 28.3 in Calcutta, and 41.0 in Madras ; cholera caused reas recorded in Bombay, and "fever" was fatally prevalent in esch of these Indiau cities. According to the most recently received weekly returns, the annual death-rate averaged 23.7 per 1,000 persons estimated to be living in twenty-one of the largest European cities, sad exceeded by 2.9 the mean rate during the week in the twenty.eight large English towns. The death-rste in St. Petershurg was 26.3 per 1,000 , (agginst 26.5 and 25.8 in the two preceding weeks) ; the 468 deaths included 10 from measles, 10 from typheid fever, and 70 from diarrhoesl diseases. In three other northern cities-Copenhagen, Stockholm, and Christiania-the death-rate averaged 27.9 per 1,000 , and ranged from 21.5 is Stockholm to 40.8 in Christiania; as zuany as 30 desths were referred to measles in Christianis, and 11 in Copenhagen; 6 deaths rosulted from searlet fever in Stockholm, 9 in Copenhager, and 9 in Christiania; and 6 fatal cases of diphtheria Fere recorded in Stockholm and $S$ in Christiania. In Paris the death-rate was equal to 22.1 per 1,000 (against 22.0 and 21.0 in the two precediag weeks), and exceeded by 3.5 ner ${ }^{\text {' } 1,000 \text { the rate recorded in the cor- }}$ responding week in London; the deaths inchaded 49 from typhoid raver, 83 from diphtharia and croup, 5 rom small-pox, and 13 rom measles. 2 resulted from diphtheria, 2 from typhoid fever, and 1 from small-pox, gave a rate of 18.3 per 1,000 . In the three principal vatch cities-Arnsterdam, Rotterdam, and the Hagae-- the mean death-rate was 20.4 per 1,000 , tha several rates beiug 17.0 in Rotterdam, 19.9 in the Hague, and 22.3 in Amsterdam; 4 deaths resulted from diphtheris and 2 from whoopingcough in Amsterdam; and 3 fatal cases of measles nere recorded in Rotterdam, While no zymotic disease appears to be fatally prevalent in the Hagne. The tha death-rate averaged 24.4 per 1,000 , and ranged from 16.4 and 18.4 in Dresden aad Berlia, to 27.8 and 32.0 in Hamburg aad Buda.Pesth. Small-pox caused 18 deaths in Trieste and 10 in Prague; 35 fatal cases of diphtheria occurred in Berlin, and 18 in Breslau; typhus and typhoid fever caused 18 deaths in Hamburg, and 5 in Buda-Pesth, while measles was somewhat fatally prevalent in Dresdea, Breslau, and Buda-Pesth. Tha death-rate in three of the principal Italian cities averaged 23.7 per 1,000 , the several rates being 21.3 in Turia, 24.4 in Tenice, and 26.3 in Rome; 16 deaths resulted from small-pox; and 9 from malarial fever, ia Rome ; $s$ fatal cases of diphtheria and 4 of typhoid fever were recorded in Turin; and diarrhceal diseases cansed \& deaths in Veaice. In Cairo the death-rate was 52.1 per 1,000, and in Alexaudria 39.7; typhoid fever caused 15 deaths ia Cairo; a fatal case of small-pox occurred both in Caire and in Alexandria; and 114 deatha were referred to diarrheal diseases in Cairo and 50 in Alcxandria. In fonr of the largest American cities the recorded death-ratea Averaged 21.3 per 1,000 , and ranged from 16.7 in Philadelphia to 24.0 in New Yorkged Diphtheria cansed 55 deaths in New York, 20 in Brooklyn, and 12 in York. Diphtheria cansed 55 deaths in New York, 20 in Brookipn, and 12 in Philadelphia; 17 fatal cases of acarlet fever were recorded in New 11 ork, and 5 in Philadelphia; and 11 deaths resulted from typlioid fever in in Baltinerc. crom atatistics publiahed in the Registrar-General's return for the It appeara, from atatistics published in the Registrar-Geaeral's return for the week ending Satnrday, December sist, hat the anaual deatherato was recenty deaths in Madras, and 2 deaths restuted from small-pox in Bombay; while the mortality from ditierent forms of "fever," aud from diarrhoeal disease, was excessive iu both these cities. The usual return from Calcutta does not appear to have been received. According to the most recently received weekly retnrns, the annual death-rate averaged 23.9 per 1,000 persons estimated to be living in twenty-one of the largest Enropean cities, and was 0.9 below the mean rate during the week nnder notice in the twenty-eight large Eaglish towns. The death-rate in St.

Petershurg was equal to 25,2 per 1,000 , and was slightly luelow the rates recorded in recent weeks ; the 449 deaths included 10 from tjplus and typhold fever, 19 from scarlet fevar, 11 from diphtheria, and 72 from dlarrhofal diaeases. In three other nothern cities-Copenhagen, gveraged 25.9 per 1,000 , and ranged from asd 7 ia Copenhagen ; 8 deaths resulted nieasles caused 25 deaths in Chrstia in Stockholm, and 3 iu Chiristiania; and 7 from scarlet fever in Copeahagen, ${ }^{4}$ in Stockholm, and 3 iu Carjstasain; and fatal cases of diphtheria were recorded in Cupenhagen. In Paris the death-rats was equal to 22.1 per 1,000 (arginat 21.0 snd 22.1 in the two preceding weeks), and was 1.2 'per 1,000 below the rate in the corresponding week in London; the deaths iacluded 0 from sinall-pox, 32 from typhoid fever, and 39 from diphtheria deaths iacluded 160 deaths in Brasels, of which 16 resulted from diarrhacal diaeasaa and 3 from diphtheria, gave a rate of 19.2 per 1,000 . In the three priucipal Dutch cities-Amsterdam, Rotterdam, and the Hague-the mesn death-rate was Dutch cities-Amstercam, Roter ham, 1.3 per 1,000 , the aeveral rates heiog in Amsterdam, 21.7 to tho Hague, and 21.8 per 1,000 , the aeveral rates beiog 19.7 in Amsterdam, 2 , and 3 to measles, In 23.7 in Rotterdam, 4 destis were and 2 of whooping-congh in Rotterdam; Amsterdam; 2 fatal cases of measles and 2 of whooping-couga la Roterdam; While do zymotic diseaso appears to be prepalent in the Hague. The Reristrar. General's tabls includes nine Gerguan and Austrizn cities, in which tho death-rate averaged 25.2 per 1,000 , and ranged from 18.3 and 22.7 in Berliv and Dresden, to 92.1 and 32.5 in Prague and Buda-Pesth. Small-pox caused 3 deaths in Trieste and 10 in Prague; 40 fatal cases of diphtheris were reconded in Berlin, 10 in Breslau, and 7 ia Vienna; and 19 deaths resulted from typhus and typhoid fever in Hamhurg. The death-rate in threa of the principal Itslian cities averaged 24.5 Hamhurg. The death-rate in in Turin, 24.5 in Venice, and 23.1 in Rome; 6 deaths pesulted from small-pox and 7 from typhoid fever in Rome; 4 fatal cases of diphtherial from sman-por ferer occurred in Turin; and diarrhoal diseases were prevatheria and 3 of scarlet ferer occurferetur an leat in Venice. In Cairo the death-rate was 54.8 per 1,000 , and in Alezandria 30.5 ; 17 deaths werg referred to typhond fever and Cairo; "ferer" canosed 10 deaths in Alexandria; while diarrheasl diseases were fatally prevalent in each of these cities. In lour of the largest American cities the recorded death-rate aversged 21.4 per 1,000, and ranged from 17.4 in Baltimore to 24.4 in New Tork. Diphtheria caased 49 deaths is New York, 32 in Brooklyn, 13 in Philadelphia, and 5 in Baitimore: 24 deaths resulted from scarlet fever in New York ; and S fatal cases of typhoid tever occurred in Philadelphis, and 2 in Baltimore.

## OBITUARY.

## GUSTAYE BERNUTZ, M.D.

This distinguished French gynrecologist died at Sedan early in December from chronic cardiac disease, the result of rheumatism. M. Féréol read a full obituary of the deceased at a meating of the Académie do Médecine on December 20th.

Dr. Bernutz was born at Sedan in 1819. His family came from Bouillon in Belgium. His grandfather, Laurent Bernntz, was senior surgeon to the military hospital at Bouillon; his uncle, V. H. P. Bernutz, was attached to the civil hospital in that town; whilst his father, François Richard Bernutz, practised at Sedsn. Gustare Ber. nutz, who has just died, studied in Paris, and was interne des kepitau, in 1843. In 1850 he was selected for the Bureau Central ; in 1854 he was attached to the Lourcine, and at once commenced those researches in gynæcology which were to make him famous. He would spend three or four hours daily in the wards, and the timo which he passed outside the hospital walls was deroted to the consideration of physician to the Burear. Central, M. Ernest Gis labours by a junior a Forld-famed book on the diseases of women, which was translated into English for the New Sydenham Society by Dr. Mesdows. The chapters on peri-uterine hæmatocele and pelvic peritonitis are masterpieces of scientific gynæcology.

Dr. Bernutz was appointed to the Pitié in 1856, and transferred, according to the custom in France, to another hospital, the Charite, league, M. Goupil, died young.

Dr. Bernutz worked hard long after practice had become impossible through the ravsges of his malady. Until recently he continned to deliver clinical lectures, and on his death bed he corrected the proofs of those which he intended to publish. Thanks to a colleague who is acting as editor, these valuable lectures are preserfed, and will soon bo issued to the public.

Dr. Bernutz was one of the compilers of the Dictionnaire de Medacine ct de Chirurgie Pratiques, writing the articles "Abdomen," "Amenorrhees "Ptc., and he was the author of essays on "Uterine Erysinelas" Tocologie. In 1855 he read before the Société Médicale des Hopitans a valnable monograph on syphilitic aflections of the corrix nteri. In 18Sa he was made an officer of the Legion of Honour.
Dr. Bernutz has left to the hospital of Sedan a sum of 100,000 francs, the interest devolving on his midom till her death. This managed by a religious sisterhood. Tho deceased was one of the foremost modical men in France to protest against the sudden and arbitrary attempt to secularise the hospitals a few years since. He was
a brillisnt oxample of some of the finest elements of Freach character, and a practical philanthropist who effected the rolief of individual suffering, and hated that achool of theoretical fratornity whose principles have boon sanmed up in Chamfort's motto, "Bo my brother or elso I shall kill you."

## JAMES BRIDEOAKE, M.R.C.S.

We have receired intelligence of the death of one of the oldest members of the Britigh Medical Association, Mr. James Bridcoake, which recontly took place st liis residence, Southport. The decessed gentleman was born in Jaly, 1811, sud oducated at the Leigh Grammar School; he mas early apprenticed to a modical practitioner near IIuddersfield, and aftermards studied at London and Dublin, taking the diploma of M. R.C.S. in 1S36. He commenced practice st Leigh, where he resided for over thirty-eight years, for thirty yeors of which period be was medical oflicer to the Leigh Union Workhouse. Mr. Brideoake enjoyed for many years an oxtensive practice, and it was often remsrked by him that be never travelled less than forty miles a day. He was highly eateemed and reapected by patients and friends. He retired from active practice about six yeara ago, and took up his residence in Sonthport for the benefit of bis health. For many jesrs he was a member of the West Leigh Local Board, and took an active interest in other provincisl matters. He was a staunch Consersative and churchman. He leaves fire daughters to mourn his loss.

## GEORGE SYLYESTER, MI.R.C.S.ENG.

We regret to announce the death of Mr. G. Sylvester, surgeon, of Trowbridge, Wiltshire, which took place on December 26th. The docoased riss born on March 16th, 1788, and consequently wonld, had he lived, have completed his hundredth year in March nezt. Mr. Sylrester becsme a Member of the Royal College of Surgcons in 1810. He studied at Gay's and St. Thomsa's Hospital, London, and became assistant-surgeon in the Royal Navy. He was on board the Lion, commsnded by Sir Gorc Onseley at the taking of Java, for which he received a medal, dated 1818. The deceased gentlemsn filled for thirty-four years the post of coroner for one of the divisions of Wiltshire, which office he resigned about fifteen years aince, when be was sacceeded by his son, MIr. F. F. Sylvester. He leaves three sons and one danghter.

## JOSEPH WILLIAMS, F.R.C.S.

Ths sudden desth of Mr. Joseph Willisms has caused a deep feeling of regret to a wide circle of friends, by whom he was highly respected. Lesing his residence at Brentford in the morning in apparently good beslth and spirits for the purpose of visiting a patient at Hammersmith, he was, on the train reaching Gunnersbury, lound to be very ill, and ehortly after expired. Mr. Williams was born at Westerleigh, near Bristol, in 1832, sud had prsctised st Brentford for upwards of twenty-seren yesrs. His medical education was obtained st St. Thomss's Hospitsl, where, in his last yesr, he was gold medallist, and was subsequently house sargeon. In 1865 he gained the Fellowship of the Royal Collere of Sargeons of England, sud in 1880 took the Ssuitary Science Diploma. He wss surgeon to St. Mary's Orphanago. North Hyde, and district medical officer to the Brentford Local Board, a post which he held from its foundetion. The deceased gentleman took a warm snd active interest in parochisl matters bearing on health snd hygiene. He leaves s widow, three danghters, and one sen.

## MEDICAL NEWS,

Tur Prombers' Company. - At the Guildhall on Satarday last thirty-three journeymen sod seven master plumbers received certificates of registration by the Plumbers' Company, having sttended for the prrpose from the following places:-Nottingham, Folkestone, Clacton-on-Sea, Hertford, Manchester, Chippenhsm, Southsea, Bristol, Mlaidstone, Norwich, Wella, Trowbridgc, Wantage, Excter, Cambridge, Lomsey, snd Bath.
Sausage, Meat. - A man named Johnson, of Nottiagham, who was lound to hare becn engaged in making and disposing, for pablic sale, sansages mado from horatlesh and putrid meat, has received a Fell merited punishment of three month ${ }^{\circ}$ hard labour.
As international exhibition of hygieno ond life-baving apparatus will be organiscll next year at Ostend, ander the direction of the Commnnal Council.

Fhenci Hospital and Dispensary, -M. Waddiagton, the French Ambassador, has informed the committee of the French Hospital that the Gevernment of the Republic has mado s donation of $£ 2,000$ towards the building fund of that institution. M. Waddington has added a personal donstion of $£ 100$.

The Hemterian Society.-On Wednesday, Jsnuary 25th, Mr. De Berdt Hovell will resd a paper before the HIunterisn Society, on the Therapeutic Indications of Neurasthenia contrasted with those of Ifysteris. Having given much time and sttention to the subject, especially with reference to treatment, which has hitherto been so unsatis. fsctory, Mr. Hovell is desirous of bringing his views before the profession, who are invited to sttend.

Thr Missing Journalist. - Nothing has been heard so far of Mr. McNeill, who mysteriously disappeared on his way from Boalogne to London. As he had been somewhat feverish and excited on his way down, it ras supposed that he may have heen taken ill snd gravitated into some hospital. The missing man is sbout forty years of age, medium height, full dark besrd, long moustache. He was the representative of the Sportsman. Information respecting his whereabouts is urgently sought by Mr. Christie Murray snd other friends.
Two ceses of small-pox bave occurred in one of the poorest parts of Nottingham; both persons had only recently arrived from Alderahot ; neither are esid to have been protected by vaccination, and they have been immedistely conveyed to the temporsry infectious hospitsl, where they are now under medical treatment.
A Centenarian Ceiminal.-According to the Vratch, No. 49, IS87, p. 959, sbout the ead of last October an old man, aged II5, residing at Zadonsk, in the Voronej Government, was tried for arson, and sentenced to transportation to Siberis.
Medical Magistrates. - The names of John M. H. Martin, M.D., and John H. Wraith, Esq., M.R C.S. and L.S.A., have been placed on the commission of the peace, the former for Blackburn, and the latter for Darwen, Lancashire.-Dr. Edward C. A. Ramsay, of Floetrood, has been placed on the Commission of the Pesce for Lancashire.
Dr. Thomas Cassidx, of Ifunmanby, recently died in Edinburgh, Where he had gone to recruit his health a little more than a yesr ago. Dr. Cassidy was highly esteemed, and so long as his health permitted took an active interest in local movements.
We regret to record the death of Mr. Idris Nannton Davies, surgeon of Llysygraig Yatrsd Rhondda, after a severe illneas extending over six months. Mr. Idris Davies, who was a cousin of Dr. Davies, Llantrisant, leaves a widorv and five children. The decessed gentleman whs 56 yesrs of age.
Tuz Normich Hospital Sunday Fund has resched the total of £94115s. 6d. The Birmingham Sunday Hospital Colloction for the past year amounts to $£ 4,284$, an increase on the previous year's collection of about $£ 50$.
It is proposed to establish a cottage hospital for infectious cases at Brecon, snd a site has been generonsly ofered by the Rev. Garnons Williams, of $A$ bercamlais.

Deatirs from Trichinosis. - The Franhfort Gazelle states that at Unterbausdorf, near Reichenbach, in Thuringia, 150 persons became dangerously ill after esting trichinous meat; 33 of them have died.
Presentation,-Dr. H. R. Joel, on the occasion of his lesving Killingworth, has been prosented by his numerous friends with su illuminated address and a purse of gold.
Tuz Paris Munjcipal Council hare resolved on voting 12,000 france per snnum for a l'rofessorship of Evolution or Biological Philosophy, at the Sorbonne, but on condition of having a reto on the appointmeat of the professor.
Successful Vaccination.-Mr. H. G. Monk, of East Bridgford, has received tho extra award for successful vaccination in bis district.
Cremation in Paris. - At the crematory which the Municipal Council has established at prre la Chaise, four hundred kilos of wood sro required to consume the body, which is reduced to ashes in the space of two hours.

Royal Collent of Surgeons in Irrlayd.-Fellowship Examination. The following gentleman has been admitted to the Fellowship of tho College.

Croorge Augustiss Wa Ir, M.B., B.Ch., DIo. State Med., Dublin, Army aredical Staff, Dublin.

Society of Apothecarips of London. - December, 1887.-The following gentlemeo, having passed the Qualifying Ezamination in Medicine, Surgery, and Midwifery, have received certificates entitling them to practise in the same, and have been admitted as Licentiates of the Society.

Coulton, Joha Jamea, Pentney, Swatham, NorPolk
Hearnden, Emest Morgan, Down House, Sutton, 8urrey
Hicks, John Sydaey, 37, Church Straet, Falinouth
Jenkinson, Joseph Arthur, 3, St. Mary's Rnad, Crumpnell, Manchester
Lskeman, Thomas, 24, Claylands Road, Clapham, S.W.
Levy, Harry, 73 , Gregory Boulevard, Nottiagham
Norris, Oliver, Sherhurn, York, E.R.
Radall, Philip Nicholas, Hawthornden, South Wimbledon
Rpear, Gaorge, 23, St. Mary'a Terrace, Paddington, W
Tunnicliffe, Ed wia Thomas Mosse, Riverslea, Wondside Park, N.
Warry, John Klug, Elizaheth Oottage, Shooter's Bill, Woolwich
The following gentlemen passed the Surgical portion of the Examination.
C. A. Dacket, of University Collega; F. P. Moles, of $O$ wens College, Manchester; C. B. Pym, of St. Bartholomew's Hospital; H. S. Cooper, of Westminster Hospital ; R. F. Hiley, of St. Thomaa's Hospital ; W. Hurst, of Owena College, Manchester.
The rollowing gentlemen passed the Mcdical portion of the Examina. tion.
J. Bampfylde, of Guy's Hospital ; N. Hildyard, of University College ; R. R. Sleman, of St. Mary's Hospitsl.

## MEDICAL VACANCIES.

The following vacancies are announced:
BOARD OF WORKS (LEWISHAM DISTRICT) HOSPITAL FOR INFECTIOUS DISEASES, Hither Green.-Medical Otticer. Applications by Jaunary 10th, to T. L. Down, Esq., Clerk to the Board, Catford, S.E.
BRIGHTON, HOVE, AND PRESTON DISPENSARY.-Two House-Sargeona. Salary, £140 per annum, with apartments, etc. Applications by January 3lst to the Assistant Becretary.
OENTRAL LONDON THROAT AND EAR HOSPITAL, Gray's Ian Road, W.C. -Three Clinical Assistants. Applications to the Secretary.
CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEST, Fietoria Park, E.-Resident Medical Officer. Salary, el00 per annum, with board, atc. Applications hy January 14th, to the Seeretary, 24, Finsbury Circus, $\stackrel{\text { atc. }}{\text { E. }}$
CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEST, Fictoria Park, E.-Resident Clinical Assistant. Applications hy January 12th, to the Secretary, 24, Finsbury Circus, E.C.
CLOGEER UNION.-Medical Officer, Aughazeloy Disponsary. Salary, £115 per anoum, and fees. Applications to Mr. M. J. Fiddes, Honorary Secretary. angum, and fees. Apphen on Jantary 12 th .
ESSEX AND COLCHESTER HOSPITAL. - Physician. Sslary, £200 per andam. Applications hy January 16 th, to the Secretary.
FARINODON UNION.-Medical Offleer aud Public Vaccinator. Salary, £60 per annum, with feas. Applications hy January loth, to G. J. Haines, Esq., Clark, Fariagdon.
OLAMORGAN AND MONMOUTESHIRE INFIRMARY AND DISPENSARY, Cardiff.-House-Surgeoo. Balary, £100 per anaum, with board, etc. Applications by January 10th, to the secretary.
HOSPITAL FOR SICK CHILDREN, Great Ormoad Street, W.C.-Clinical Assistant. Applications to Dr. M. Lubbock.
MANCHESTER ROYAL INFIRMARY (Monsall Fever Hospitsl), Assistant Hedical Officer. Salary, $£ 100$ per annum, with board, etc. Applicatious by January 7 th, to the Chairman of the Board.
NATIONAL HOSPITAL FOR DISEASES OF THE HEART AND PARALYSIS. - Honorery $\Delta$ uasthetlst. Applications to the Secretary, 32, Soho Square, $\bar{W}$
NATIONAL LIING-IN HOSPITAL, Holles Street, Dublia. - Assistant to the Master. Applications to the Master.
OWENS COLLEGE, MANCHESTER.-Lecturar on Dental Surgery. Applics. tions by January 9th, to the Registrar.
PLYMOUTH PURLIC DISPENSARY. - Physician'a Assistant. Salary, £50 per anaum. Applications by January 10 th to W. H. Prance, Esq., Honorary Sanaum. Applitary, 7, Athenæum Terrace, Plymouth.
RADCLIFFE INFIRMARY, Oxford.-Housc-Surgeon. Sslary, £SO per anam. Applications hy January 1 Sth to the Secretary.
ROYAL HOSPITAL FOR DISEASES OF THE CILEST, CIty ROAd, H. C.Senior Honse-Physician. Salary, $£ 80$ per annum, with board, atc. Applications by January 14th, to the Secretary.
ROYAL SURREY COUNTX HOSPITAL, Guildford.-House-Surgeon. Salary, $£ 80$ per znaum, with bosrd, etc. Applications by February 15th, to the Assistant Becretary.
GEAMEN'S HOSPITAL SOCIETY, Greenwich, S.E.-House-Physiciso. Salary, £r5 per anonm, with hoard and reaidence. Applicstions by Jankary 7 th, to the Secratary.
BT. JOHN'S HOSPITAL FOR DISEASES OF TEE SEIN, Leiceater Square, W.C.-Two Assistant Physicians. Applieations to the Secratary.

SUSSEX COUNTY LUNATIC ASYLUM, Hayward's Heath.-Junior Assistant Medical Officer. Salary, £100 per anaum, with board, lodging, and washing. Applications hy January 14th, to the Superiateudent.
SUSSEX COUNTY LUNATIC ASYLUM, Hayward's Heath.-Medical Snperiateadent. Salary, $£ 600$ per aonum, with furnished houss, etc. Applicatioos by January 20th, to J. H. Sclater, Esq., Chairman of the Committee of Visitors.
UNIVERSITY OF EDINBURGE.-Examlner in Aastomy. Salary, eis per annum. Applicationa by January 16th, to the Secretary.

USIVERSITY OF EDINBLRGEL. Examiver in Chemíntry.
sunum. Applications by Janusry 16th, to the Secretary.
UNIVERSITY OF EDINBURQH,-Examiaer in Midwifery. Salary, '£is per annum. Applications by Jannary 16th to the Secretary.
UNIVERSITY OF EDINBURGH. - Ezaminer in Practice of Physic. Salary, e75 per zonam. Applicationa hy January 16 th to the Socretary.

## MEDICAL APPOINTMENTS.

Colyen, James F., L.D.S.Eag., sppointed Houso-Sargeon to the Dental Horplisl of London.
Dickson, George, M.D., appointed Dispensary Phyaician in the Western Insirmary, Glasgow.
Hamthorne, CharleaO M.B., C.M., appointed Dispensary Physician in the Weatern Infirmary, Glasgow.
Leach, Alfred, L.R.C.S., L.S.A., appointed Honorary Medical Officer to the 8t. Gabriel's Hospital for Infanta, Groavenor Road, S.W.
Biceardson, G. C., I F.P.S.Glasg., appointed Medical Offeer to the Maachester and Salford Provident Dispensaries Aasociation, vice J. Sutherland, MiO., resigaed.
Robinson, Monfague G., L.R.C.P., L.R.C.S., L. M., eppointed Medical Offcer ant Public Vaccinator to the No. 2 District of the Daventry Union, vice W. H. Masson, L.R.C.P., L.R.C.S.
Rowntree, W. G., M.R.C.S., L.R.C.P.Edia., appointed Hedical Officer for the Sixth District of the Parish of St. Mery, Islington.
Smith, S. G., M.R.C.S., L.S.A., appointed Medical Officer for the Seventh District of the Parish of St. Mary, Isliagtoa.
Talent, T. M., M.B., C.M., appointed Honse-Surgeon to the Ashton-ander.Lyne District Infirmary, vice A. H. Gault, L.R.C.P., M.R.C.S.Eug., resigned.

## deetings of societies during the NEXT WEEK.

## MONDAY.

Medical Society of London, 8.30 p. M. Mr. E. Hurty Fenwick: On the Reflex Inhibitory Action of Cucaine as a Diagnostic Factor. Mr. F. Treves: On the Treatment of Carotid Hemorrhage. Mr. Bowreman Jessett: A Case of Gastro-enterostomy and a Case of Duodenostomy for Carciaoma of Pylorus.
Odontological Societv, 8 p.s.- Andual meeting. Election of officers for ensuing year. Mr. A. P. Uaderwood: Erosion in coonection wilh some points in the Minate Anatomy of Enamel. Mr. S. J. Hutchinson: A Note on Erosion. The President's Valedictory Address.

## TUESDAE.

Royal Medical and Chinyagical Society.-Dr. W. B. Cheadie, and Mr. Thotnas Smith: Case of Occlasion of the Left Bronchus by a Metal Cap, sad its Removal' by Tracheotomy. Mr. Alexander Haig: Influence of Salicylic Acid and its Salts on the Exeretion of Urie Acid.

## WEDNESDAY.

British Gfancolooical Society, 8.30 p.m.-Andaal meeting. Fresident's art dress. Specimens will be shown by Dr. R. T. Smith, Dr. Bedford Fenwiek, Dr. G. Granville Baatock, sud others. Mr. Bland Sutton: On the Nature of the Hymen; Supplementary remarks. Couacil 8 o'elock.
Efidemiolootcal Society of London, \& P.3r. - Discussion of Dr. Klein's paper on some of the Iofectious Diseases Common to Mas aud the Lawer Animals.
Henterlan Societr, 8 f.m. - Dr. Fletcher Beach: Some of the Uncommon Canses of lmbecility.

## FIRIDAT:

Climical Society of Lonnon.-Annual Meeting. Report of Conncil. Election of Officers. Dr. Msclagan: Cases of Ohstruction of the Bowele by Large Gall-Stones. Mr. Clutton : Lapsrotomy for Obstraction from Gall-Stone: Recorery. Mr. Pearce Gould: A Gase of Gall-Stanes; illastratiag their Spontaneous Fracture; subsequent Suppuration and Operation; Recovery. Living specimens: Dr. Stephen Mackenzie: Case of Sporadic Cretiaism.

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserting announcements of Births, Marriages, and Deaths is Ss. 6d., which should be forcoarded in stamps with the announcement. birtes.
Craswell.-Decemher 28th last, at Barnsley House, Billericay, Essex, the wife of Joho C. Creawell, I. R.C.P., M.B.C.S., L.S.A., of a daughler.
Greves.-December 30th, at Rodney House, Bournomonth, the Fifo of Hyla Greves, M.D., of a daughter.

## MARRIAGR.

Paul-Greg.-On Jannary Srd, at All Saints, Knightsbridge, Loadon, Frank Thomas PanI, F.R.C.S., Ss, Rodney Street, Liverpool, to Lacy Geraldiae, second daughter of Eustace Greg, Esq., of 21, Kensington Gore, Loadod.

## DEATHS

Ellis.-On November 3rd, at the Manor House, Crowle, Donesater, Henry Willam Thomas Ellis, M.R.C.S., L.R.C.P., aged 76 years.
Sconoaln-On Decemher 31st, 188\%, suddenly, at the age of 34 years, Clara; wife' of Edward Fowler Scongal, M.B., Haddersfield.

## OPERATION DAYS AT THE LONDON HOSPITALS.



## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Oaarino Cross.-Medical apd Surglesl, dilly, 1 ; Obstetric, Ta. F., 1.50 ; 8kin, M. Th. 1. 10 ; Dental, M. W. F., 9.

Gure.-Medical and Surgical, daily, 1.30 ; Obatetric, M. Tu. F., 1.30 ; Eye, M. Tu. Th. F. 1.30 ; Ear, Tu. F., 12.80 ; Skin, Tu., 12.30 ; Dental, Tu. Th. F., 12,
Gráa Colleoz-Medical, daily, 2; 8urgical, dally, 1.80 ; Obstetric, Tn. Th. S. 2; 0.P., M. W. F., 12.30 ; Eye, M. Th., 1 ; Ophthalmic Dopartment, W., 1 ; Ear, Th., 2 ; Skip, Th. ; Throat, Th., 8 ; Deatal, Tu. F., 10.
Lompor.-Medical, daily, axc. 8., ${ }^{2}$; Surgical, daily, 1.30 and 2 ; Obstetric, M. Tha, 1.30 ; 0.p. W. 8. 1.90 ; Eya; W. E., 9 ; Ear, $8 ., 9.30$; Skin, Th., 9 ; Deatal, Tu., 9 . MıDLeszx. -Medlcal and Surglcal, datly, 1 ; Ohstetric, Ta. F., 1.80 ; o.p., W. 8 . 1.30 : Eya, F. 6., 8.80 ; Ear and Throat, Tu., 9: Bkia, Tu. 1 ; Deatal, daily, 9.

8t. Bartholomew - Medleal and Surgical, dally, 1.30 ; Obstetric, Tu. Th. S., 21

Bt. Groroz's-Medical and Surgical, M. Tu. F. S., $1 ;$ Obstetric, Tu. 8., 1; op., Th. 8 ; EYC W. 8., 2 ; Enr, Tu, 2 ; 8kin, W., 2 ; Throst, Th., 2 : Orthopedic, W., ${ }^{2}{ }^{2}$ D Doatal, Tu. 8.19; Th. 1 .
Br. Marr's.-Medical and Bargleal, dally, 2.45 ; Ohstetric, Ta. F., 1.45; 0.p., M. Th., 1.80: Eye, Tu. E. B., 9 ; Ear, M. Th., 8 ; Throat, Tr. F., 1.30 ; Skin, M. Th., 9.30 ; Eloctrician, TV. F., 2 ; Deutal, W. S., 9.30 ; Consultations, M., 2.80 ; Operations, Tu., 1.30 , Ophthalnic Operations, F., ,
8r. Tromas' a. Medical and Surgical, dsliy, oxcept 8at, 2 ; Obstetric, M. Th., ${ }^{2}$; o.p. W., 1.30 ; Eys, M. Th. $2 ;$ o.p., daily, except Sat., 1.30 ; Ear, M., 12.80 ; sive W.t Colleor-Medical add Gurgical dails, 12.90 ; Dental, Tu. F. 10.
 Th, 2.80 ; Dental, W. 10.80
Wratyinarxa-Medical and Surglest dally, 1.80 ; Obstatric, Tu, F., 8 ; Eye, M! Th, 280 ; Exer, M., 9 ; 8kIn, Th., I; Dental, W.8., 9.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS. <br> ता $\cdot$ CO '

Dosruticamong respectiag aditorisil matters ohonld be addressed to tha Editor, 429 , 8 trand, W.O., Londoa thicse cancernjug basinoas matters, non-delivery of the Jourarah, otc., abould be addreased to the Manager, at the Otlles, 429, Strand, W.O., London.
Ir order to a vold doleg, it Lu partleciariy requested that all letters of the oditoria) basineme of the Jograna bo addressed to the kditer at the olfics of the Joornal, and not to mis private houme.
Aurgors dealiag rapriata of thalf articles published in the Brasige Medicas Jooknal, aro raquested to commayleata beforehaad with the Mavager, 129, 8tread, F .0
Cosreapondswis who wlan inotioo to be taken of thair oommunieationa, should anthenticate them with their masasiof conrno mot. accessarily for pabilicatlon. Coserapownmes not answered' are requestod to look to tho Notions to Corra. apoadeat of the following wook.
Manchcripts mawarded to the Ohfich of this journal cannot under any CINCEVRTARCTB BE RETUTNED.
Penlio Health Depantyeytin Wo tball be mach oblged to Medical Oflloass of Eealth if they will, on forwardisg their anqual and other koports, favour an with Dupitats Copies.

## finilinin.

F.R.C.S.EDIN.

A Memner asks for information ns to the natare and extent of examinations for A Merniturshif of tho Coltege of surgeons of Ediahurgh.

Mrdical Pactice in algifrs.
Justitis anks: What are the restrictions, if any; to an Engllshman practising In Alglers with Euglish qualitiontiona?

> Cosvaleserat Home fon Phying liatient.

Mr. Ruhato Dauk (lirmingham) asks to be informed of some sanstoritim in the Xinrth of England, or convalescent home, where a fenale adult jatieat of slonder means, aurl who is bufiering from cough, could bo sent. The lady belones to the niddle closs, aud can contribule somethiag to ward der maln. lelongs to the midde cinss, aud can contribute somethag tonaris any good la
tennuec. Her stay at in seaniflo place must lee a proliuged one, it any gol tennnec. Her stay at $n$ sensitho place minst lue a prolunged one, if any gond ia ramily.

Thearmento op Symitis. M.D. writes: A patlent of mine states that nbolst tweive jear ano we costracted ayphilis frous a colour inceme apmareut)y ginite well. Abollt a month or six week since sores made their apurarance on the fayces and soft palato; and wheu saw him the entire huccal suriaces, hard and soft palates, and angles a

 and almost mable to take food. I ordered the fullowing phe. rad. perch
 form, borax, hoaey, aod muriatic acid.
Will any member suggest a mode of treatment more likely to yield sstisfactory results?

Is Hoxrempatas Ixcneastse?
Пefutv Suromon-General Chas. T. Hank (West Keasingtod) writes \% In a paper which I have written on hooncopathy 1 stated any belice that there are dot so ueny practitioners of it now as furty years ago in proportion to populationi. Could you, or gour resilers, liclp me wo prove or disprove my assertion by reliable statistics? I want to know. 1. The nomber of homoropathic practitioners as well as "orthinlox" ones in the year 18.49, say, in London, and populatimn of that year. 2. The shme for the year 185 .-58.

My reasons for takiag forty years as an illustration aro twofold : Arst, it is the jeridi I have been conricted with the profession ; and, secondly, because ia ists a revical of honnenpalhy tonk'place, or, at any' rate, created a great stir both in and outside the profsssion

* "The Firfish Honnopathic Nentical and Tharmaccutioal Directory, for $18 \% 5$ (Londno : Momeoprathic Publishing Cempany), contains in a "List of Qualified I'hysicians and Surgeons Practising Homeoopathy in England, Scotland, and Ireland,' 299 names, and in a :npplemeatary "List of. Fractitioners Holding Degrees from Foreign U'niversities and Colleges whose Diplomas cannat be Registered noder the Dtedicat $\Delta c t s, " 9$ names, makiog in total of 278 nemes. The Eribish Ifommopathe Menical Direcior $\eta$, for the ycar 1Ssi (editors and publishers, Thampsou aad Csiper, homeeypathic chemists, Liverpool, etc.), contains in a "List of Qualified Physicians and Surgeons, Practising Mourcopathy in, Engzand, Scotland, and lreland," 238 names; theme is no sumploumentary list. Tho preface contains the fullowing paragragh: "Mays inquiriss having heen received relative to the onission of well known names, it is necesinny to slate that in alimest ahi cásés such usmes have been omitted at the individual's own request."
Q. asks whether there nemeny general hos nitaly, matronclitan or unviactaly where eases of delirimm tremens are not admitted; and, if so, ahont what proportion they beat to those where they are admilted. It is proposed by the Commituoa of the hnsjpital with which $G$. is connected to refuse for the future admission to these coscs, hithertosiwnys admasable into it. The Hea is a fuancial one, namely, that spreial nttondnats are nut to he required; lut, ionsamuch, as delninm tremens is linhle to arise in cases slreadjo admitted fur ather disease, for example, pheumnia jotatornm, or in surgical cases, as compound fractures is intenperato subjects, some provizion nust always be made for tbe same, The crises of delirium trentens nr acnte aleaholism do not average more than three or four per armum at this hospital; and nat beng admissible fato a lunatic dsylnm, the Oommittec ptiopose hencefoith to sond them to the poorhonse two iniles off. The fhysicians of the hodyital are utanimoualy oppesed to this
 the rationta.


## ANHWI: A (5.


W. W. W. (Alertillery) - The Medical alianco Arsociation (Hoocrary Secretary, - Dr. I. II. S. Oarpentar), 130, Stackwel Rosd, Loudori, S. Tr.

 Afplomas nre now (and have bern for the last nife mouths) granted hy the Conpeil on the recommendation of the examiners, and not as heretinforn by the examiners thenkelver. This ntath detays the publication' of the mames of sac: examiners fuididatos ffir twint thred werkn, as tha Comeil anly met on the second Thurday in each month.
Ат
 becomb-class certibeate[ frem ,then, Collinge of l'recentora passes for medical (ximuiuntions.

Oar correspondent ought to ennsult. the Edfucational Ningeer of this Joormais (8optesober 10th, 1SN7). . Among the examigations thorg, enlumeratod ns fustlunt the coudlinnn of tho Garemi Medient Councll is: "Collese of Preceptors. - Exambantiní for a fitst-class certincate, or second-ciass cerlifeate of frat or gecond divisians; algebra, geometry, Latipg, fud 4 moderpil lancuage


## Balanitib

C. J. R. M. writea: Ths surfacoo in this affection require to be kopt scparate. Lotiona do not do much good pnless thls is dene. What insualy, recommend Is to teeise out 60 me of the dowi from the ordinary boracic lint, and insert a thin pleed snid then arawing . The prepuce
Ing with calomel or, iodolorm does good.

## Obstinate Alopecta.

G. H. J. Dnssiore, M. B. (Coldstream) writes : In reply to "Alopecis, "in hia qnery in Journil of December 24th, aia to treatment of obstinate alopecia areata, I harp found the a pulicstion of a strong solution of hydrarg. bichior. 2 to 4 grains to the ounce, frequently used, until soreness of the skin restaf followed by the nse of an ointment of laneliu (Licbrcicb) and ordioary paramn oll when the irritation has
ad'r
Incontasence of Urine.
Dr. H. M. Drican (South Hampstead) writes: "M. W." (vide Queries in the Jounnal for Decernber 3rd) should tre (1) one-drachm dasas of liq. potasse in small tumblers of milk or ale bis die. If in the spaoe of a week no improve bedtime. (2) should these remedies fail, try tha addition of tr. belladonne internally, and apply the extract, softened with glycerine, to the utethra by internally, and apply the extract, sortened with glyceme, means of a flexible bougie, say, for a minute night and mormiag. The paticnt (3) As a last researce; solution of nitrate of silver (grax to $\bar{z} j$ ) may be applied to (3) As a last researce, solution of nitrate of silver (grax to jj) may be applied to
the prastaric part of the urethra by means of a smali injection apparatus. In the prostasic part of the urethra by means of a small injection apparatus. In offering the results of my experience I' am assuming that masturhation, con stipation, urethral and prepotial disease, aird abnormal conditions of the urins form no part of the complaint. If Finally, if the foregoing metheds fail to care the distressing malady from which " M. W.' s.'. patient is suffaring, I wonld stroagly recemmend " M. W." to consult the anthorities quoted in that wonderful, emporium of medicine and sprgery, Neale's Digest.:
R. P. writes: The cure of stammering has been known lor centuries. A stammerer can sing 86 well as a fluent speaker, and can repest do, re, mi, ha, etc., in the gamut. It is ouly aeeded to commence the expration before pronouncing s consouant. I met Jaeky Broster, of Chester, in the year 1832 or 1833, and his secret was simplyteaching his pupils to say "er the "r" seft berore each word. He was an auctioneer, and did not understand the theory of his practice. $\mathrm{H} s$ was in variably succesalul, and charged a foe of three hnndred gaineas, and fxacted a bond of secrecy.

## NOTES, LETPERS, ETC.

## ANTIPYRIN:

Dr. C. R. Illinaworth (Clayton-le-Moors)'writes: The effects of a selntion of antipyrin on:fresh blood ars the following: The red cerpuscles become amaller and lose their calour, and their contents shrink with the cell wall, they lose their tendency the others; and they become absalutely destitulve it the appearance of gelaThe cffect on bleod clot is to. c
tine, and to make it less firm.
It would seem, therefore, that antipyrin relievea pain by preventing congestion in virtne of its solvent action on the constituents of fibrin, and more particularly upon that which exists in the red corpuacles. It should therefore prove of service in all congestiens of bload, whether of an activa or passive pronare. hut it shonid not be prescribed in diseasee which are known te be associated with diminished flbrin-forming power, such as septicemia and typhoid fever.

## Paconation Insprectors.

Lisncy writes: Since 1 have been in practice (twenty-nine years) I have held the offico of public vaccinator and ply vaccination has been examined by nearly all the medical inspectors of the Local Government Board. The fird inaid not receive the extia, grant; but since then I hava al ways had it, and mairmess to iaspectors I must say I have feceived from all, of them the most courteous and gentlemanly treatment.

Medical Defence Union.
Mr. R. M. Craven (Southport) writes: Referring to yeur reply to "A Member," in the Jovryat of December loth, it may be-nsefuz to reler to the fact-that-the sbove "nnion" is a limited liability company, limited by gnarantee under the it, "articles of association," a copy.of which the secretary must supply to any member of the compsuy on receipt of 1 s ., with stamped and directed envelope. As your correspondent appears to be anxious to termiaste his connection with the company, I-Tould advise him to carefully peruse the articles of association numbered 8,14 ;and 60,29 well ns the fifth clause of the merioranduni of association. I believe the gentleman who is registered by the Registrar of Juint Stock Cempanies as the secretary to the'company has recently retired frem has Juerative position at $£ 250$ per annum.

Dislocation of the Shoulder in á Horse: The Ultimate Result.
Mr. Nomle' Smiru writes: In the Journat of April 9th, '1887, page 810, was published my description of the reduction of the dislocsted sheulder of a horse in the hunting field dast March. The great interest expressed at the tine in rarious ways has lell me to think that the subsequeet history of the ease may be valu able to the readers of this Jourina.
The mare was put to work'saventeen daya after' the accident. Five wceka subsequently I rode her over a faw emall jumps. Up to tha prescat time she has gone perfectly sound, and has had almiost daily, wark io harness or with saddle; and, what is of more lopertancsi, I have already this season had several days huntiag with her over a In these runs the mare has held a good place in the aeld, and has shoulders must blg fences with severa drops. In landiag after a deep drop, the, shoudars mal has bear a sreat strain, and I think we may assume that in this caso the awsal as a
perfectly recovered, from, the efects of the islocation. Ihis, is corsidered a remarksble result by may eminent veterinary surgeons, and I at mrpute it, to
the treatment of human dislocations. Ther are : I. Allowipg as short a time as posisible to clapse before the, reduction of the dislocation, is attempted; 2. voldauce, as a rale, of making such attempts until the patient is under chloroform (or cther); and, chiefy, 3. Daily movennent
oon (tweaty-four houra, perhaps) a ter fccuction The dislocation in this case was a very complete one, the head of the hnmerus being displaced upon the outer part of the peck of the shoulder-blade, and the bature of the considerable defonnlty produced. being very emident. The mare wature of the considerabe from the place of accideat until I had given chlorolorm and replaced the bone. Before reduction she could harely hoblle a few pacea; placedty after, she walked into the neighbourlog town without difficults.

## Cioanette Smoking-Tfite on Witgout a Holder?

Mr. E. S. McKay (Dublin) writes: I have often noticed that the constant smoking of cigarettes without a holder has a great tendency to make the teeth jellow, whereas if a holder be used this if pot ths case, at any. rate to a nuch less Whereas if a holder I maintain in pipe smoking the tenth do not begome nearly so extent. as in smokiug cigarettes the first way I hare mentioned. The explanation, 1 think, of this is due to the fact that a cigarette is beld hetreen the lips, holder or pipe betweea the teeth, so that in the former caseduriag jaspiration the smoks comes in direct contact with the front of the teeth before onterin? the moath, while in the two latter cases it is received at oace into the month, and can only come in contaot with thie front of the teeth indirectly during ex piration. A knowledge of this will perhaps prove aseful to some of your readers, Who, while they may be indifferent as to whether they do or do not use a holder, may not be at all so indifferent as to the appearance of their teeth

## Medical' Practitioners ind the Lay Press.

Ma. Ennest G. Ancere (Thetford, Norfolk) writes: With regard to your censure of Dr. Harris in the Jocrana of December 24th, p. Min, for a llowing an account of an operation performed by him to appear in the Iprcich Daily Journal, will you permit rue to bring the facts of the caso before you? I assisted Dr. Harris at the operation in question, the removal of a large tumonr of upwards of ten pounds (not ounces). Naturally, from its magnitude, a great deal of talk was occasioned in this quiet neighbourhood and a mutual friend of ears, I need hardly say withont communicating his intentions to us in any way, sent an acconnt of the case to a local paper, whence it was doubtless copied, or aent by a reporter to the paper where it was seen by "A Member, Ipswich." It is unnecessary to say no one could be more indignant than Dr. Harris or myself at the unfortunate publicity given to this case, but I renture to hope my explanation will show how helpless we were to prevent the nufortanate affair.
** Dr. Harris writes to us fron Thetford that no one could have felt more annoyed than himaelf at the paragraph which appeared; that he never sees the paper in question, and does not know how it was pablished; that he agrees that auch notices are unseemly and damäging to the profession. In this instance, at any rate, the medical mer concerned seem to have had no intention, that any such notice shonld be printed.

## Endemic: Difhteenia

Mr. Hevry Gonaich (Long Ditton) writes:As I notice in yont Paris lettex the suggestion that the eudemic origin of croup and diphtheria lies possibly in the manure and retuse of stables and farmyards, I would call your attention to the fact that I have held that theory. for many Jears.

## The Constaption of Theine.

Dr. Georoe R. Young (Birmingham) writes: Wifh regard th this subject, I should, with your kind permission, like to chronicle a new experience. I was about to give up taking tea; in fact, I had ceased to take it, when I saw in a grocer's wiedow a little apparatus for infusing tea, called The Anti-tannic Infuser," which I have tried with the very best resultz, not only no myself, but also on patients who wonId not forego tha pleasant beverage although doing them harm. it is made on the priaciple of the well-known fofosion jus, as invented by the late Mr. Peter Squire. It can be fited easily into an ordinary breakfast cap or into a teapot; and, after three minntes mfusion has taken place, can be removed, and with is both pleassnt qud suitable for anjone, and that the tea made in this way is both pleassnt nud suitable for anjone, and persenally I much prefer it.

## Metropolitan Provident Medical Association.

Mr. C. J. C. Pribiam (1, Uld Serjesnt's Inn) writes: Provident diapensaries at the present tims ars "farmed" medical practices, sometimes carried on in the name of a practitioner, but mora frequently in the poorer classes the guise of provident institntions for the benefit of the poorer classes. A medical practitionar employing, or being employed ly, unce, fay, in every ants and adopting this system, can therefore carr) on prsctice, fay, in every
district of Londoa or other large city, and get beresideat miles. aws from any one of thent.
In some casas, two or three such dispensaries hsve been owned by a medical man ; in another, a practitioner has had one or more, and a joint proprietorsbip with an unqualified praotitinner; in a third, and in a worse type of case, the eotire dispansary-hoase, fittings, drugs, etc.-have belonged to the naqualified man, and the practitioner has been the recipient of a weekly salary or a commission on the profits for carrying it on. The foregoing is by no means the uncommon or unnsual state of facts, and it is the cruitrial caion, and constiirregular or illegal customs which disgracs the medical prosstatutes. tutes grounds for actions and prosecutions under the rarious statutes. There are certain directions in these statutes with reasard to death and raccination certificates aod other matters which cannot be sunefore, do we find the fied practitioners, excent by actual fracd. Erowident dispensaries" "covering" proprietors of ies of their nopuglifled assistants by signing a quantity of raccithe delinquencies of their anqualatiod ar them to fll up at their discretion, or nation or death certincates in blate and making falso declarations in cases not personally flliug. up auch certificates and making fals decorn mame and medical seen by them, or allowing their assistsnit to rank in order the better to personate them?
It may be contanded that these remarks only apply to establishments set up by medical men or unqualified prsetitioners, and have no basing ppon thoss by medical men or unqualitied !practitioners, and and cmplosing medical offlers
at Exed rates to attend their subscribers. But the working of those aocleties is very lax, and their coaduct is geaerally entrusted to a bodje men who hava no aim on earth beyood maklog them pay. Therefore, they argue that the no aim on earth beyood making thera pay. Therefore, chey argoo the terms ulion which they can secure the servicss of madical oflcers, choaper the terma thion which they can secure the servicas of manical or which tbe better it is for the society, ado this leads to many irregulaitics for which they sre practically irresponsible, as it moy sarely bo cslang to the illegal practice of madicins and false assumption of titles. I know of ona instance occurring within the last two months, in s casa where I was concerued, in which snch a soclety retained the services of a wholly anqualificd medical practitioner, the unqualined assistant of one of their medical oftlecrs. The priacipal had two practices, eighteen milas apart-oos attended to by himself, and the other by his unqualified aesistant. The sociaty put the nsmes of both on their books and cards ss "doctors" and "medicsl officers" of the districts in which they resided!

I trust, however, that this eclieme-which I believe to have been set on foot from the best and purest of motives-may lisve this (perhsps unexpected) result : that it will indace the more eminent members of the medical profession to take up and settle once and for all the question of naqualiffed assistants, and that they will satisfy themselves by iodepondeat inquiry that the esta. blishment of provident dispeasariea as voluntary and irresponsible institutions Is contrary to policy, contrsry to law, opposed to the dignity of members of the medical profesaion, and prejudicial instesd of beneficial to the poorer classes of enfforing humsity, whose ills it is their duty to cure or alleviate.
J. H. writes: I hsye been somewhat surprised that thers has yot been a storm raised by genersl practitioners sll over London ogsiast the schenas of universal establishmant of provident disprensarice. Is it that the acheme seems oo nnreaaonable and so cut-throat to the bulk of the profession that they cennot beliave that it is reslly intended in serionspess to carry it out? Or is it that there is no room in the Jounala for discussiog a question dealing with such a worldly master as tbe means of making snd continuing to make a living for a large nomber of medical men, the majority of whom sre just as capable practitioners and as well qualified as the select few who, throngh having money and inflnence, have never been compalled to make a liviog among the working classes, and who have had time and means to wsit till their innuential friends were ahle to secure them a hospitsl sppointment-ater which they dub themselves physician or furgeon, as the case may he, and ever after think they have a right to look down on what they style the "general practitioner?"
Not coatent with seeing pstients while atill under the cars of ons of these poor geners! practitioners-and anknown to him, until be afterwards sees a prescription or hears some foolish statement which the pstient assures him has been said hy the physician (pbysicisas are the greatest offenders) -it has now come to this, that a system of infloitesimsl fees is to be forced on us, to he paid not in hesith only as a system of inaursnce, and after s preliminary medical examios. tion as to the individual's comparative good health, but ha may join when actuslly ill, snd children-who require more attendance than adolts-are to bs accepted at s reduction "for quantity," like the famous love-spells, and we are told by Mr. Holmes that wa should not enter into competition with this system, but should join it, if we do not wish to bs swamped by it. And to dsy you say grest harm is done by sham dispensaries; but if harm is done by sham dis pensaries, whare the fees aro greater, at any rate, than clobs psy, is it not reasonabla that mnch more harm will be done by this nniversal providing of medical sttendance ? No wage limit can aver prevent abuse.
How many of tha medical men of tha district will be sppointed? Or will paticats be shle to chooss a ay medlcal men within s certain radius who is willing to sttend these cases? If only a few men sra sppointed, the hardship will be very great to others, eapecially those juniors who are only working up a practice, and hope through the working classes to gradually get to a better sud nore remunerstive class. Why cannot the bospitala close their out-patient departments altogether, except to urgent cases, or to thoss specially recommonded by outside muedical men? People who cannot pay the usuall small fees monded by outside medical men ? People who
have the parish medical men to attend to them.
The working classes are so degraded by charity that they have lost sll sel pride, and think there is no shame in accepting charity in the corm of medical sdvicasand medicioe, but they would feel insultad if offered many of the other necesseries of life.
Mr. Leonard B. Diplock writes: You published a letter from Dr. R. H. S. Car penter, in the Jounnal of December 17th, ia which he states that because have only heen qualified tbree years my "observations sad estimation of the different modes of practice existing in the profession ars bssed upon a fsr too limited experience to entitle them to any very weighty considerstion," but I think that six months' experience in working for a sick sasursace society would convince any practitioder of the sdvantage of such societies both to himsele and the working classes, as atated in my letter in the Journal of December 10th.
I have not been able to find out whether Dr. Carpenter, in his many years of practice, las had any practical experience in the working of sick assurance aocieties or provident dispensaries, or whether his opposition to such societies is hased on magination or from what be has heart from other practitioners, but I feel he bas not had practical cxperience, or hs would not bes so much against them

With regard to what Dr. Carpenter states in his letter abnost memhers waiting nitil they are ill before they apply for medical help, I think the Medical Attendance Organisation Committee have endeavoured to meet this hy charging an increased contribution; but if Dr. Carpenter will refer to my letter of December 10th, he will see tbat I consider they have fixed their rate of contribution ton low.
I think that Dr. Carpenter, when he speaks shont cheap doctoring, seems to forget that dispensaries are not for patients who can pay a reasonable fee, but for those whnse wages are so small thst if yousttend them their accounts appear in your ledger, in nine cases out of ten, as a bad debt.

COMMUNICATIONS, LETTERS, etc., have been received frou:
Mr. Shírlez Marphy, London; Dr. C. II. Robinaon, Dublia; Mr. G. Parr, London ; Mr. H. L. Dent, Loodon; Mr. J. A. H. Mogg, Redditch; The Secretary of the Royal Medical College, Epsom ; Meaars. J. Berger, Spence, and Co., London; Dr. J. Williams, Sheffeld ; Mr. P. B. Burronghs, Weston-auper-Mare Mr. M. E. Ellis,' Doncaster; Miss M. Colbeck, Upper Teddlogten Dr. Bar-
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## BOOKS, etc., RECEIVED.

Bralnthwaite's Retrospect of Medicins. Vol, ycvi. July to Dacember, 1887 Loudon : Simpkin and Co.
Nor'ard of the Dogger: By E. J. Mather. London: Jemes Niabet and Co.
Operative Surgery on the Cadaver. By Jasper Jewett Garmany, New York: D. Appleton snd Co. 1857.

Fuactional Nervous Diseases. By Georga T. Stavene, M.D., Ph.D: New York: D. Applaton and Co, 1887.

Mechanics and Experimental Science. By E. Areling, D.Sc. Loudon: Chapman and Co. $18 s s$.
A Treathe on the Diseases of the Dog, being a Manual of Canine Pathology. By John Henry Steel, M.R.C.V.S., A.V.D. London; Longmans, Green, and Co. 1885.

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## A LECTURE

'THE BLADDER.
Delincred at Unincrsity College Hospital, November 21st, $185 \%$.
By Sir MENRI THOMPSON, M.B., F.R.C.S.,
Consulting Surgeon and Professor of Clinical Surgery to the Hospital, atc.
Part II.
Surposing that your iavestigation of a case of vesical bæmaturia results in the discovery of pspillomatous debris in the nrine, identified by you ss such ander the microscope; what is to be done? I cannot advise you to pursue any arstem of local applications to the interior of the bladder by way of injecting or otherwise. The question of operation is the only one a surgeon can entertsin. I assume that there is no eign of the presence of cancerous growth of any kind, because if there is I shall advise yon on no account to touch it with the knife-we may perhaps occasionally have to open the bledder in such a condition to afford relief, slthough I confess it has never fallen to my lot to see a case presenting any indication for such a proceeding, atill that the need might srise is quite conceivable.

Thus for practics! consideration, I may say that two distinct classes of cases are met with-the larger class consists of those patients in whose urioe the debris of papillomatous growth are found, and which can be identified as such by the microscope. Abont these cases there is no doubt as to the presence of the growth, the only question is how are they best dealt with ?

The second class consists of those cases in which the history and the symptoms, especislly the nature and extent of the hleeding, render the preeence of tumour highly probsble. Nevertheless, after several exsminations, no papillomatous or suspicious cell growth has been discovered. For these, with rare cxceptions, digital exploration, though a small opening in the perineum, should be performed. This done, the operator ascertains if a growth bo absent or present; and if the latter, whether it be a single polypoid growth, which may be easily removed by the forceps through the existing opening, or whether the extent and physical characters of the tumour indicate that a better chance of remoral will be obtained by performing a suprapubic operation. Or tho inquiry may lead to the decision that the growth iruplicates the costs of the bladder chiefly, that it is not developed in the form of prominent masses admitting of removal, and therefore that no forther operstive procedura is desirable. I may add here that when the existing conditions have been determined by exploration sad the surgeon believes that his best course is to attempt removal above the pubes, there should be no delay, but he should st once proceed with that cperation. The perinesl incision does not in the least degree interfere with the subsequent line of action; the rectum is to be distended in the usual wsy, and the blsdder will retain the necessary injection, which is the next step of the process, notwithstanding the opening which has just been made.

Should the management of the cases constituting the first-class differ from thst just sketched? I refer to the cases in which there is microsconic evidence that tumour is present. Is an explorstory incision uecessary or desirable also for them?

In the majority of cases I think it is not. It is quite true that When there is only s small polypus with a narrowneck it can be essily removed by a simple perinesl incision ; and I am bound to state that my most successful cases have been thus treated, and have been permanently cured in that manner. But they would have been successfully treated also by the euprapubic method, which, moreover, ofters sa additional advontage in the fact that, especially when the patient is not-stont, the operation affor is an opportunity of removing other minor growths, if such exist, more easily and effectually than the perineal opening does. When I first began to remove vesicsl tumours the ralue of the new suprapubic procedure, in regard of simplicity, safety, and efficiency, had not been establishad; but an calarged experience of it, in my own hands, has convinced mathat it offers adrantsges when the tumours are multiple or considersble, not to be obtained by the perineal route. I caunot recommend that it should ho performed when you merely entertzin a suspicion, however strong, that tumour is present in any given case. As long as the sbsolute proof arising from fragments passed in the urins is absent the perineal exploration is the only legitimato proceeding, unless it is deemed bettor to wait and make further research for indubitablo evidence.

Noxt, as regards the performance of thene operations, I havo nothiog to add to the detsils which I thought it right to enter apon yery fully in my last locture, when desling with the explorstory operation, rels. tive to the mode of removing any foreign bodies, or dotaching any morbid products when found by its mesan.
Agsin, whon the suprapubic operstion is to be undertaken for the treatment of vesical tumour, no different mode of performing it, from that required for the extraction of calculus, bas to be adopted. Hence the oporation is to be performed in the manner already described, in every particular as far as to the opening of the bledder itaelf. But at this point of the procedure I now gire you some further instructione for completing it.
I request you to imagine then, that there is a patient here before ns whose bladder I have just opened sbove the pubes, and that my right inder finger has entered the small opening I have just made with the scalpel. You might observe that the water which was iojected into the bladder before commencing has been flowing out in a jull stream, but that it is now checked by the finger in situ. My left hand is atill holding the handle of the hook with which I firmly fixed the vesical costa before making the incision, is now in the ect of being removed, Of course my finger is engaged in carefuily sorveying the form, the dimensions, the consistence of the tumour, and eapecislly the nature of its attachment to the walls of the bladder, whether by a narrow or by a broad base. Then the whole of the inner surface of the cavity, usually amooth and polished, is traversed in the search for other growthe only exceptionally present. And when the work to be done, and the space required for sction have beed thas determined, the opening, at present emall, may be enlarged oither hy distending with the finger, or by catting to the size reqaired, sud slso, if necessary, for light to see. It is usosl, often convenient, to pass a long loop of stout eilk, one on each side of the upper margins of the opening of the blsdder, throngh its coats, that an assistant may by drewing them apart display the cavity, and at all events preserve the opening in its place. The operator then applies a pair of forceps of appropriato form, blunt or sharp sccording to the nstnre of the tissuen to be removed, using the latter only whenever it is not possible to remove them with the blunt instruments. By carefnl management all the free growth is removed; and if a thick or hardened base is encountered it must be left; there can be no attempt to separate this from the coats of the bladder, with which indeed it is incorporated.

When the growth has a narrow, more or less pednaculated connection with the vesical walls, it is cut of pretty close to the adjacent surface. At last, when nothing remains to be dealt with, the flaid shonld be sllowed to run out of the rectal bsg, for the hleeding is usisily rather free during the process of detaching the growth, and removal of pressuro on the veins caused by the distended rectal bag, materially checks it. There is no occasion to close the bladder, indeed it is better not to do so. Its muscular tissnes moon contract and narrow the opening, which may moreover contiaue to give exit to a quantity of small tumour debris which remains, some of the bruised surface of tiue bsse remaining will slowly slough ond separste. The wound is then treated precisely as after the suprapubic operation for calculus, the directions for which were given in detail in the lecture on that subject.
I shall now briefly give you my view of the general results of my experience of removing vesicsl tumour to the present date.
I have operated altogether on thirty-eight pstients ${ }_{1}{ }^{1}$ male and femsle. In st lesst five patients, excluding, of course, the recent cases, ssy the last twelve, since the lapse of a considerable period of time is necessary to determine the question of permssent results, the cure has been complete, no return has taken place, and the patienta, with one erception of a man since killed by sccident, are as well at this moment as they ever were, and are perfectly froe from any urinary symptoms. The victim of tho accident had passed nearly tro jears after tho operation, without return of symptome. An necropsy was made by Mr. J. L. Crisp, of Soath Shield, who sent bim to me snd was interested iu the result. Ha was good enough to send the blsdder for my inspection, in order to demonstrato that there Tras no sign of resppearance, indeed a careful scrutiny was necessary in order to discover the rery slight remaining cicatris. The growth is in the museum st University College, ${ }^{\text {a }}$
A large proportion obtained relief from severe symptoms for different periods varying hetween two and four years, and then reappearsnce of the growth has led to a second operstion. In two cases, one that of a medical man who fully nuderstood the pathology of his terrible disesse, I have operated three times; in both of these at the desire of

[^6]the gintleat from experience of reliof and reprieve, attained by their preceding experience.
Fourpatents died mithin fow days of the operation, partly fromi cehatastion, two from cystitis and peritonitis, all among the very early cases, probably front too great an anxiety on my part to reliove the whole of the growth, and the want of safer and ruore efficient instruments, whlchexperieuce las led me now to employ. ${ }^{1}$ Two died from blood poisoning, esch on the twelfth day after operation, one after the perineal incision, and the other after the removal of a large tumout by the suprapubio rorte. Several are living with threatening return: the great majority gaining reljef from severe symptoms and some ex; teusion of lite, varyiug considerably in different instances.
We have to remember that dvery patient with bleeding resical tnmour inévitably succumbe sooner or later to hìs fate, ünless surgical sid is afforded. Every case therefore of permanent cure is a life absolutely asved by our art, while prolongation of life, whatever it may anomit to, is equally' so.n, Mence these results, although necessarily nlowing'many failures to remove the disease, certainly manifest. a colsidinsblo aigeregate of clesr gain in the matter of humas life, and mist the su regarded in relation to the sum total of those who are aflicted.
7 Vinder these circumstances it is impossible to predict for any in? firidmal ease the result of operation, even in an approximate degree. Uutil incision has been made and actual contact with the fiager, fufficlug to nscertain the physioal charscters of the tumonr, has been completed; no one can say whether it be possible to remove it completely. If separation is not complete there is not much hope of a permanentcrere; nevertheless; I am disposed, after obserring the issue of one of iny cases which suggestod the ldeà, to think that even' when' not 'nite remóred there are'two processes, almost neeessarily follow. ing, which tend to fivour a successful issue. The" first is," slonghiog of a thin lajer of the surface left, due to the crishing action' of the bluat forcel's ; secondly, the cicafricial action and contracting of the strface, which probsibly" suffices to atrangle and destroy; any "very slight remains of the prpillomstous tissue there."

## HARVEIAN LECTURES <br> ON LUPUS.

Delircred befors the Marveian Society, Hecember, $185 \%$
By JONATIIAN IUUTCHINSON, F.R.C.S., F.R.S., LL.D.,
Emeritas Profesaor of Surgery st the London Hospitar.
Lacture II. -The Vinheties of Common Lupus.
The Hislology of Lupus Vulgaris.-Of Lupus Erythematoses.-Ir. Thin's Iiccords,-Dr. Jamicson's Case. -Lumis not aluays the same. -Explanation of the Causes of Varialility.-The Bacillus.Fieference to the Schedute.-Definition of Lupus.-Distinctions Zetween Vulgaris and Erythematisus. - Meaning of Syminctry and ANon Symmatry. - Striemio-Lnepus. - Necrogenic Lupus.- Lupus Mutilans. - Lupes of Mricous Membrancs.-Ecrema.Lupus,
If said in my last lecture that it was my wish to submit the question of the real nature of lupus to the test of clinical rather than of purely histologicsl evidence. I have, in truth, no faith tbst it is possible to solve it by the latter. We must not, however, pass it by without availing oursclves of its aid, so far na it can at present help us. I wish, therefore, to sonnewhat amplify what I then said on this matter. " "It is now gencrally belicved" (I quote the words of Dr. Sangater, 3 mach better authority thas myseli) "that the earliest changes of lapms are to bo songht for as an independent cell growth in tho corinm, either affecting it aie a whole (s.s held by Noumann, Auspitz), superficially (as held by Virchow, Billroth), or beneath the vascular layer (as held by Kaposi)."
The differences in opinion of different observers as to the precise part first attacked sre to be explained by reference to the different atages of the disesse which they had under their inspection. The most. wascular parts of the corlum, the immediate neighboarhood of the sebaceous and sudoriferous glasds, and the peri-vascelar spaces of tho blool-veasels thanrselves, are the parts where tho cell growth is first suen. It it asuzlly noticed fiest in the most superficial parts of the corinm, in close conirection with the Malpighian layer; so that many ob, ervers have bolisved that it origisates in a germinstion from the inder surface of this atructure. In the end the deep layers of the carinm and even the uppermost of the adipose structures become in.
rolvod ; and at this period tho glande and hair-sheaths are for the most part destroyed by prossuto. Unliess ulceration has taken place, the layers of the cpidermis and the rete Malpighii, although somewhat altered, remsin intact. A yory inportant observation has been made by aeveral; and is conifmed byl Dr. Sarigster, thet the Malpighian layer is apt to frow downwards in procosses much resombling thoso of enithelial carcinoma.
The colls. Which constitute lupn's' tissite are atfitist not cosily dislingnished from white blood-corpuscles, but at various stages and in different parts they present certain differences, becoming larger and lighter-coloured, with less granulat contents. There are also seen oral' bodiés conspicuons' for their ahape' and faint colout, which re: semble the nuclei of the deep Malpighian cells, many of them having a point-like nucleus.
The presonce of "giant cells". has been asserted by several observers, Langhaus, Friedliader, etc. But the exact nature of the appearances so named has beeri dispated by ot thers.' Professor Lsing suppesod them to be only degenerated sweat tobes. Sangater is of opition that "!true giant cells are sometimes met with." "As to the real origin of true giant cells there is, however, much discrepancy of opinion still existing amongst histologists.

Thesedescriptions apply to lnpus rulgaris only; and lot us always bear in mind to well developed exsmples of it only. The micrascopist always selects for his purpose a position where the apple-jelly growth is woll displayed, and it is this growth which he describes. His observations unon anch cases scarcely touch the question as to whether there are not antcedent conditions which cannot be distinguished from common inflammation, nor that as to whether in ather states the peculiar features of lapus growth bo not wholly concealed by saper. added infammatory products. Respecting these, I stappect that the microscopist wonld not unfrequently allege that there was no proof that the disease was luptis at all, and the assertor wonld have to fall back on the clinical evidence. We may take it as certain that whenever the naked "eye can recognise apple.jelly, the microscone can almays find a definite and characteristic cell-growth in the corinm, Whilst respecting the other less marked conditions different verdicts will be given. The inflamed form which lapus almost 31 ways presents on the hands and feet, for example, will probably but rarely present for the microscopist appearances which are conclusive, and we have to prove that it is lupus by its laws of extension and persistenco, and by the presenca of better characterised patches on ether parts in the same patient. I am anxious to impress this point because it is of great importance in reference to the admission of varions allied dixeases into the lupus family. My assertion is that lupus is by go mosns definitely sui gencris; that it is only. a specialised typo of chronic inflammatory action, and that the degrec of its specialisation may vary much in different cases, beiog in some so slight as alnoost to defy recognition.
If from lapus ralparis we now turn to the histology of lupus erythematosur, we shall find almost all observers unanimous that there are important differences betwcen the two. Some have even thought these differences so great as to wholly detach the maladies from rela. tionship. Such, I need lasidly say, is not my view. If wo take the examplos of common lupus in which cell growth is most marked and those of orythematosus in which the condition approaches rearest to mere ery (hems (as when it becomes geveralised), then assuredly wo shall havo no diffieulty in demonstrating by the microscope most conspicuous differences. The conditions delineated, for instance, by Dr. Thin in his able paper in the Mcdico-Chirurgical Transactions, shaw little more than dilatation of the capillaries. For Dr. Thin lupus crythematosns is in the masin a disesso of blood vessels. There are, however, other forms of the malady which present other appearances, and just as it is, I assert, ofton by the unassisted eye impossible to say conclusively, whether any given case should be sssigued to vulgaris or to erythematosus, so it is equslly difficult when we examine a microscopic section. I shall prove my assertion as to this difficulty-impossibility, if jon will permit tho word-in tho living patient by producing beforo you a namber of portraita published by different authors on lupra, and I have no fear as to your verdict. In refercuce to the inspection of gections I will ask those who are skilled to examine the drawing which I produce sod to tell me whether it shows the conditions of valgaris or crythematosus. There is, as you will see, abuadant coll grorth in the superficial layers of the corium, and I quite expect that most will declare the appearancos those of common lupus. I have, however, berrowed the woodcut ${ }^{2}$ from a paper by Dr. Jamieson, of Ediuhurgh, and it is taken from a case the whole history of which proves it to have been an example of the erythemas form.
I Ihave to oxpress my thanks to Dr. Jamleano for his kiadness in lending the
woodblock which I here ase.

Respecting orythema lupus, indeed, the opinions of microscopist ${ }^{3}$ have been not a little various. Some have held that it begins around blood vessels; others (Geddings) that it is a disesse principally of the sehaceous glands, whilst others locate it in the corium, or even think that the sudoriparous glands are its special sites. These disorepancies ought not to surprise us, snd they reflect no discredit whatever on the ohservers or their modes of work. The fact is that lupus inflammation in the erythematosus as well as the vulgaris type presents great differeaces, and that the structures chiefly atfected are by no means almays the same. Neither it nor vulgaris aro disesses of any special structure in the skin, whether gland or vessel, but heginning rather in the sreolar spaces they implicate secondarily one or other of the cutaneous viscera or ressels. It may be the sudoriparous gladds or the sebaccous ones, it may be the hair follicles, it ualay be the perivascular spaces, or, lastly, it msy chance to be the lymphatics (lupus lymphaticus). Hence some of the differeuces which the lupus proces s.sonmes, and some of the various nsmes which have been given to it. We must not look for sameness where Nature has made variety.

It may perhaps help to simplify our conceptions on the subject if we make bold to deny that there is any such pathological entity as lupus, and to sissert that it is simply a name which for convenience sake we give to certain types of the inflammatory process, endlessly varying in detail, but having certsin features in comraon.


With the preliminary statement that all varieties of the lupus wheu once well established keep to their type, it may next be well that I should state categorically the circumstances under which these varieties take their rise.

1. The Kind of Local Irrilation. - Whetleer, for instance, a sting or bite, a wound, a subblain, a chilblain, or a dissention prick.
2. The Peculiarities of the Part to which the Ioritation is applied.Thus the tip of the nose, its slae, its brilye, the clefts of the toes, the scalp, the various mucous membranes, etc., each have their one more or less peculiar form of lupus."
3. The Vital Endouments of the Individual. - Whether of rigorous
circulation or easily liahle to chill, whether thin or of abundant cel lular tissue, whether liable to chilblains or otherwise.
4. The Agc of the Patient. - Thus the younger the patient the more certain it is that the lupus will be of the vulgaris type, sad the more probable that it will become multiple. Lupus erythematosus scarcely ever begins before the disturbances in circulstion incident to puherty have occurred.
5. The Sex of the Patient.-The female sex is more liable than the male to lupus vulgaris, but in lupus erythematosus the difference in proportions is very marked indeed. The influence of meustrastion in disturbing the circulation is probshly here at work.
6. The Inherited Tendencies of the Patient.-There can bo little doubt that those who inherit a state of constitution lishle to the easy growth of the tubercle bacillus are liahle, slso, to all tho forms of lupus. They are just as prone, perhaps moze a0, to be attacked by ery thematons as lyy common lupus. The mucous membranes are, perhaps, seldom attacked, excepting in those who are tuberculous. An inheritance of a tendency to cancer gives, perhaps, a teadency to common lupus.
I have as yet spoken but very briefly of the tabercle bacillus in its relation to lupus. Many observers have succeeded in fiading in the cell-growth of common lupus a bacillus, which all agree in regarding as identical with that of tubercle. It is, however, but sparingly found, not without much patience of search, and in many, or yerhaps most, cases, it is not to be found at all. I am notaware that anyone has as yet recognised it in a well marked caso of lupus erythematosus, but this, no doubt, is only a question of time, for tuberculous antecedents iu the subjects of lupus erythemstosus sre, I think, more frequently met with than in those who present the vulgaris formb. It is premature to venture upon sny opinion as to the relation of this hacillus to the lupus process. The cases in which it is found do not differ so far as I am aware from those in which it is not. I must leave you to form your own conclosions as to whether it is likely that a bacillus is the cause of lupus, when I have developed in more detail the clinical history of the varieties of the malsdy.
We will now, if you please, turn to the schedule of the Lupus Family which has been placed in your hands (sde page 7 ; of the Journal for January 7th).
The general definition of lupus which I have giren, as a serpiginous, infective, scar-leaving inflammation of skin and mutors membrencs, will, I believe, include all varieties of the disease, and, with two exceptions, rothing else.' Nothing is lupus which does not spread slowly by infectiou at its edge, and which does not leave the alfected part more or less disorganised; sud every form of inflsmmatiou of which these are necessary aud invariable qualities is lupus, unless it be either syphilis or cancer. I need not trouble you with much as to the distinctions between cancer and lapus, because they are usually. very obvious. It is only by exception that malignaut action shows any tendency to permit of cicatrisation in the parts which it has disorganised. A fert rare forms of superficisk, rodeut uleer are the only conditions in which malignant action produces eppearances which clash with my definition of lupas. It is, however, wholly different in the case of syphilis. Prabably there is not a siugle variety of the lupus type of inflsmmation which masy nor be simulated, and that too. with the ntmost closeness, by syphilis. The diagnosis depends upon certain minor fearures of pecularity, upon the history of the case, and upon the effects of specific treatment. Thus, theu, the truth seems to be that the syphilitic poison can produce lupus inflammations. In doing this, however, it stamps then all with its own nature, and we are concerned, not with the true disease, hut with sn imitation of $i$ t. I cannot too strongly insist that the imitation is most securate, aud the diagnosis often most dificult: So far as the definition is coucerned, I should be prepared, whenever s syphilitic skin disease spreads at its edge and leaves a scar where it has been, to say of such a disoase, "it is a syphilitic lupus." It may be sn eczems-lupus, a rupia-lupus, a lupus vulgaris, or lupus erythe. matosus.

The next point which stands for our consideration is the distiuction between lupus rulgaris and the erythematons form. I have enumerated in order on the schedule the chief features of differeuce ; but part of my arguovent is that the two run into cach other, and that there are counectiog links. No single one of the testures of difforence 1s iuvariably such. Although mple jelly growth characterists the most marked cases of commou lupus, it is rety otten not to be found, and iu some oases of erythematous form the discs of the divease are somewhat thickened, and present this gromth in a minor degree (seo
one of Hebra's portrants). is to he found in the strong tendency to symmetrical der difference the erythematous form, end thency to symmetrics) development in the erythematous form, end the invariable absence of any definite
tendency in this tlirection in lupus vilgaris. The bat's-wing form assumed hy erythematons lupus on the lace is well known. We know also that it is not nacomm mor the bat's-wings (on tha checks) to have no continuity with the body (on tha nose), and as further illus. tratou of che lave of symmetry, wo know exactly where to expect the next mauifestations of the disense. They will come in the ears, and in both ears, and again without continnity with the cheek patches. Next to the ears, we shall probably seo the hands attacked, and it will bo both hands. So constantly is this obsorved, that I havo, as jnst observed, veutured to place the fact that lupns erythematosus tends to develop symmetrically and lupus vulguis not, foremost amongst the clinical features which distinguish them. It is cartainly a very remarkable fact.

Whilst, however, insisting upon its importance, we must not earggerate it. Thero are many cases of erythemstoug lupus which ahow no symunetry; but they are, I thiok, sll of its sub-elass, the sebaccons forn. The more purely the diseaso keeps to the orythema type, the nore certain it is to be gymmetrical. Thas, I never sam one hand atfected and the other free. On tho contrary, I vever in any single case saw lupas rulgaris, howover numerous its patches might be, and howerer widely diffused, with any definite symmetrical arrangement. A tendency to syumetry is showa in the portrait of multiple lupus of children which I showed at onr last lecture; but still, the oxceptions to it are conspicuous, and far greater than roo ever witness in psoriasis, peraphigus ne any other skin dieease which is really symmetrical in its outbreaks.

I cannot but think that we have a very interesting problem before ng in this non-symmetry of the ons lupus and symmetry of the other. Let na ask what symmatry implias. It means, in the first place, that there are on the two halves of the face and body and on the two sets of limbs correaponding parte, that is, parts which, by mutual sameness of stractura and function, are liable in exactly similar ways to the attacks of disease. Let a poison circulate frtely in the blood, aud it will be likely to atrack these corresponding parts, and produce sym. metry of manifestation. The phezomenon in question nay, however, imply more than this: it may mean that, wholly aparc from any hlood infection the tissues originated for themselvas, whother with or Withont the help of external irritants, similar processes of disease. Thus, when chilblaias occur on both feat or oy both hands or on both ears, we explain the fact by assuming that the corresponding meonbers were alike in structure, and have suffernd alike from exposure to cold.

We do not think it neceesary to seek for any blood contamination to account for the symmatry. Now hy which mode of explanation shall we acconat for tha symmetry of lupus erythematosus. J'ou will nee that the one presupposes a higher degree of constitutional or inherited peculiarity than the other. A persou in whom but little of hereditary peculiarity of tissues existed might easily, if his blood wera rich in germs, becomo the enbject of symmetrical manifestations. On the other hand, it woold require great pre-existing peculiarity to bring about a symmetrical yielding to disease under the ordinsry kinds of exposure to external irritation. It nasy be that in lupns erythematosus we have to reckou with both classes of causative influence. It may bo also that in some cases congenital peculiarity of structural proclivity takes a far larger shara than it does in others. In the more sevare forms-those for inatance in which the patches ou the face are very large, and the coadition almost purely erythematous, those in which the hands also suffer (sea for an example the Now Sydenham Society's portrait), I think we most presuppose peculiarity of structure. The vital endowments as regards vigour of circulation and cell-grotth ara probably very similar to what we meet with in those who are exceptionally liable to chilblains. This hypothesis, probable as it is, however, by no means puts wholly aside the possibility that there may bo also blood contamination from the original patch.
Our discussion of this question is not wholly a matter of curiosity, or, as some might say, of transcendental rathology. A zoment's reflection will show that if we credit the original patch with laing the parent of the others, it becomas of the utmest importance that it should ba cared promptly on its first appearence. Now I have really very litelo loubt that it does in some sensb, and that too in many cases a very strong sensa, stand in the position of patent. We will mako every allowance for constitutional peculiarity of tissues, but there yot remain many facts which suggest blood contamination as a very important aid. I am thinking now of tho many cases which ara exceptions to the lav of symmetry, and in which the proxinity of tha secondary patchas to the primary one soggeets infection by contiguity. Romember also that there is ofteu, indeed usally, a loog interval between the local beginning of the disease and its becoming multiple or geaeral, and, farthor, that not iafrequently the general
outbreak is suddon, and apparently iodependeut of any local excitiog causes as regards the parts newly attacked. Whenever there is is cousiderable auterval between the tirst patch and tho secondary ooes, we are entitled to suspect infeotion, and this is almost always the caso whon lupus erythematosus becomes geveralised. A lew eases there aro undoubtedly in which the diffusion is rapid, and which may, perhaps, bo placed almost as varieties of Kaposi's disease, for thay begiu iu youth nud are very severe and peculiar, implying strongly marked poculiarity of organisation ; of these, the boy who sat for tho Ner Sydenhsm portrait may be quoted as sm example. In making this remark, however, I am bound to remind you of the law asserted in our last lecture that the younger the patient the greater the risk of blood infection and maltiplicity of lesion. If this bo to in common lupus, a disease of but low infective nower, we caunot be surprised tn see it yet moro emphatically marked in lupus erythematosus. It is oven possiblo that in Kaposi's disesso itself-efficient as local influeaces cambined with family proclivity sppear to be-that there is a share taken by blood infoction from tho parts first affected.
Leaving, however, for a whilo the further consideration of cases in which lupue erythematosus teuds to become symmetrical, or cren diffusad sad general, I will ask attention to excoptional facts.

A lady whom I have chanced to see this vary moming well illugtrates this argument. She is an oxanuple of erythematous lapus in its non-symmetrical form. She has thrce separate patches-one in front of the ear, one on the temple, and one on the nose, and they are all three on the right side of the face. Tha explanation of this I take to be that the parent patch was not in the middle line, but over the ear. The others are, I should suspect, satellites to it, that is, they result from the infection of adjacent parts by germinal material which has travelled from it to them. How else explain the fact of their proximity ? Yat I must beg you to observo that there aro wide belts of quite healthy skin between them. ${ }^{2}$

I have entered into some detail as to this feature of distincticn betwean the two chief groups of lupus maladies because it prescnts considarabla difficulties, and is of great clinical interest. I must ba much more brief in what I have to say on the other points.
Respectiag the tendency to ulcerate, it is certainly true in a general way that in lupus erythematosusit is but rarely displayed, and only to a very slight extent. The more closely the disease keeps to the erythematous type the less is its liability to ulceration. The epidermis nasy peel, and the discs may show a dirty epidermis or sebaceous crust, but
there will be no pus scab, such as is often seen in common lupus. There is, howaver, destruction of tissuc, and a scar will be left when the diseasa comes to an end, so that, in a certain sense, we must ndmit that an ulcerative process does exist. As you may see by reference to Hebra's portrait of lupus erythematosus, it sometimes notches the alao nasi. Respecting common lupus, moreover, it is not true that it always inllames and ulcerates. Whilst, then, wa accept the liability to ulcerate as a feature which in a geveral way distinguishas lupus orythematosus from common lupus, wa must not push it too far.
That typical cases of lupus erythematosus are naver seen in early childhood, and very raraly indeed betore the age of puberty, all authorities will admit. Lupus vulgaris, on the contrary, may begin during the first stage of infancy, a a d is very common during the first decannium. I have already suggested, in connection with this notoworthy difference, that it has to do with disturbances of the circulation which ensue in connection with puberty in both sexes, but more especially in females.

All the statistics to which I have been able to refer, those published by other observers as well as my own, show lupus vulgaris as occurring in almost equal frequency in tha two sexes, the female sex always having a slight preponderance. I have already remarked that this is very different in the case of lupus erythematosus.
That common lupus does not ahow any close alliance with that state of health which gives proclivity to chilblains I feel quite sure, for I have collected a considerable amount of clinical evidence on the point. We must distinguigh carelully between any liability to feable circulation and the liability to iuflammatory action under the inflnence of cold, which is the cause of chilblains. Persons especially liable to cold extremities are often quite exempt from chilblains, and the reverso is also often trus. Common lupus goes usingly with feeblo circulation and a retarded veoons current, whilst lupus erythematosus is so frequently in association with the liability to chilblaios
${ }^{2}$ The further frets as to thia case. The lady was 46 yesrs of aga. The lupua had leglan over the right car three years agn, and, after extending mither widely
had left that part, and trsyelted in front of the car. The patch oll the temple came had left that part, and trsyelled in front of the car. The patch on the temple came a yesr iater, and that on the nose a year lator still. All were of the mixerdery. thematous snd sebacenas type, belug rough sud dirty lu the middle, and hsving congested borders. In the middle a thio scar was left. There was a strong history of phthisif in her mother's family, but not in either parent.
that it is often difficult to tell where one ends and the other begins. In close slliance with chilblains you must allow me to place what we may call the sunblain, a much less common condition of inflamma. tion, which is excited by expesure of the part-tip of nose, ears, ar cheek, or possibly even the hands-to the direct influence of a scorch. ing san. Whatever ensues from inflaences of this kind, shauld it become chronic, is almost sure to take the form of lnpus ery thematesns. I by no mesns, however, wish to imply that a tendency to chilblains is not frequently met with in asseciation with common lupus. The last feature of difference between the two which occurs in my schedule is that common lupus is' scarcely ever fatal, whilst lapus erythema. tosus, if we except its very minor forms, is a coudition which should give rise to serious anxiety. Much might be written on this point. I had long been aware that severe forms of lupus erythematosus were liable to end fatally by attacks of erysipelas, intercurrent pueumonia, or same form of acute catarrhsl malady; and, in loeking up my netes of cases in preparation for these lectures, I have been incressingly impressed with the importence of the disease as a revealing symptom indicative of a state of constitation very likely ta preve incompatible with long life. On trying to seek up patients of whase cases I have preserved notes sams years ago, If find that in not a fer instances they are dead. The gause of death seems to have varied, and in some 1 have been unable to ascertain it ; in some it is said to have been an attack of fever, but in most I believe it has been either pneumonia or erysipelas. In lupus vulgaris we also not infrequently witness attacks of erysipelas, and now and then it is to be admitted they ond fatally ; but 1 am sure there is far less danger in this than in the erythemstous form of the disease. In some cases of the latter, when it is very extensive, a state of debility and emaciation is induced, which, apart from the liability to attacks of inflemmation, itself threatens to end fatally. In very few cases indeed have I ever known lupus vulgaris so extensive ss to cause serious interference with health. The lisbility to end in pulmonary phthisis is, I think, alike in the two, and is a very slight onc.
In now conclucing what I have to say as to the features which dise tinguish these two diseascs, I am anxious, even at risk of repetition, to say that they are nseful rather for the purposes of clinical diagnosis and arrangement than as implying essential differences. I can entertain no doubt that the two are closely allied, and that they are in a general way induced by a similar kind of causative influences. If such an expression be not too fauciful, I would say that, in the lupus family, vulgaris and ery thematosusstand as brother and sister, having many assential resemblances and many strongly marked but superficial differences.
In the preceding lecture cnongh has been said as to the general characters of lupns vulgaris. I have arranged its principal varieties in a number of clinical groups, which may be found convenient, not only for purposes simply of classification, bnt as facilitating the formation of rales of treatment. It is to be understond that these groups derive their peculiar features, not from any real difference in the disease (which is in all common lupus), but from the part attacked or the age of the patient.
I will now turn to the second part of the Schednle, and briefly deseribe the several diseases which I have there placed as the principal forms of common lupus.
Under the name struma-lupus we may place cases in which the conditions of cutaneous struma and lupus are mixed. By cutaneous struma I mean an affection which begins usually immediately beneath the skin and affects the latter secondarily. The skin becomes livid, and ulcerates, and ragged sores with undermined borders are formed. This state of things occurs usually without any combination of trus lupus. Sometimes, however, we meet with the apple-jelly growth in one part and a characteristic lupus condition, whilst at another sub. cutaneous abscesses are fermed. I am attending at present a case of this mixed kind. The patient is a woman aged 40 , with a somowhat tuberculous history. On her right cheek and side of reeck are large patches of lupus, whilst lewer down in the neck and over the front of the sternum a succession of abscesses hape occurred and tho skin has culcerated in the manner described. These cases are not cemmon, anil We know that in nost cases of lupus there is no tendency to abscesses and but little to gland disease. My notes would, I think, supply almost a dozen cases in which this complication mas present, and to them the term struma-lupus seems applicable. In them the lupus patches always tend to inflame and ulcerate early, and there is, I think, slmost always a strong history of strumong antecedents. As the disease is a mixed one, so must the treatment be.
Slugle-patch lupus may be considered as at the opposite end of the chain to that which we have just spoken of. Uuder that term I group those cases in which from first to last there has never been more than
one single patch of the disease. In such cases the tendency to ioflam. motion is at its minimum, and usually there has been no ulceration whatever. If a lupus patch inflames, the risk of infection and of the production of satellites is vastly increased. In these cases the disease is simply one of quiet growth and slow and paiuless extension at the odge. The patient is usnally in sound hesith, and it is almost as likely that there will be a family history of cancer as of tubercle. The part affected is aimost always the clieek a little in front of the esr. If lupus begins in a part where the circulation is at a disadvantage snd the tendency to chill great, as, for instance, the tip of the nose, or the middle of the blush-pstch on the cheek, it is almost certain to inflame and prove infective.
In some of theso cases of single.patch lapns the disease has" been present twenty years or more; as they cause but little iuennvenience the patient often declines treatment, and allows the disease to slowly advance. The advance is usually very slow, but the thickness of the jelly-like growth is often unusually great. There is, of conrse, not the slightest resl difference or distinctiou between single-patch lapas and the multiple forms, the apparent difference resalting merely from the state of the patient's health and the part attached.
The term multiple, or many-patched, lopus is applicable ${ }^{\circ}$ to cases in which numerous separate patches are produced. I have already expiained how this multiplicity is brought about by infection frem a primary one. Lupus is always single-patched in the first instance, and sometimes remsins so for long, but the risk of maltiple infection is always greatest in the early stages. It is greatest also in those who are young. In a large majority of cases lupus is not confined to a single patch, but it is only exceptionally that the patches become very numerous. Now and then a patient may present fifty to a hundred different patches (see the pertrait published by the Now Sydenham Society). To cases in which the multiplicity is very great the term psoriasis-lupus may seem appropriate, but it is to be remembered that the symmetry of arrangement assumed in psoriasis is rarely present in lupus. The maltiplicity may in some instances be so great as almost to defy locsl treatment.
I may suitably take together the three groups of lupus of hands and feet, necrogenic lupas, and lupus mutilans, for very similar explanations will apply to all three. Common lupus, when it occurs in the hands and feet, assumes, in virtue of the pecaliarities in the circulation ard the liability to chill, a remarkable tendency to inflame. [A numerous serics of drawings taken from various authors were exhibited to illustrate this statement, all showing heaped scabs and extensipe ulcerstion in connection with lupas of the hands.] In mast casss in which these parts are affected, an injury has been the starting point. The apple-jelly growth is seldom seen, being always coucealed or destroyed by the products of inflammatory action.
The disease would appesr to obtain some minor peculiarities in connection with the specisi kind of irritation which sets it going. The pricks and scratches which those who havs to do with dead badies in post-mortem exsminations or in dissections are liable to, not infrequently end in a kind of lupus. I boliers that Dr. Wilks was one of the first to call attention to this disease, which he described under the name of necrogenic warts. Excepting that nothing of the nature of spple-jelly growth is ever seen, the diseese in all respects conforms to the type of lapus. A thickened mass of granulation tissue developed inte papillary masses is produced which masy hesl or ulecrate according to the exposure to cold, season of year, and state of health. Sometimes in the early stages the lymphatic glands"may be irritated, but not in the later. The disease is to be cured, as we cure lupus, by libersl scraping or by cauterisstion, and it has the same tendency which lupus has, to end, if long neglected, in epithelioma. It spreads at its edge with greater or less rapidity, just as other forms of lupns do.

I have treated many cases of this disease on the hands of my professional friends. It is well known on the Continent, and one of my friends told me that Professor Frerichs, when in London, chancing to see his hands with these lupeid patches on them, toek them for an evidence of diligence, and exclaimed: "Ah, Monsieur ! vous arez fait beaucoup des autopsies." A man in the garb of a baker once presented himself at the Blackfriars Hospital with this kind of lupus. I remarked to thase present that I had seldom seen such hands, excepting in medical men, and he at once said: "Well, I was a medical student once."
I meation these facts $n$ order to make it seern probable that certain minor features of peculiarity distinguish this form of lapus from others, and thus permit its recognition. My argument is that within certaiu limits, lupus does derive pecaliarity from the special cause which excites it, and that thus necrogenic lupus tskes peculiarity from the fact that it originates from scratehes or pricks from spicula of bone or poisoned peedles. Yet ịt certainly is lupus.

Before leaving this topic, I may just say that I havo watched ode case in a nuedieal friand iu which the lapus has been present nearly forty years. Two or three patches were cared long ago by canterisation, but oue has persisted luring the long period mentioned. It is as thick as ever, and just as liable to inflame in cold weather, bnt it has extended rery little at its edge. The case is parallel with those of single-patch lupus on the cheeks. ${ }^{3}$

The term lupus mutilans might seem appropriate to cases in which the nose has been exteosively destroyed and the patient's features much damaged. It has, howerer, I believe, been restricted to the fare examples of mutilation of the hand which we now and .then witness, and of which I now show you a good portrait. (Sce lithograph, to be giveu dext week.) I have only geen four or five good examples of lupos mutilans. For its production it is necessary that lupus shonld attack the hand of a young child, and this is not common. When it bappans adil, the disease being extensive, the fingers are surrounded and naiversally involved, a sort of arrest of gromth takea place, and the most extraordinary deformity results. The fingers may all be lost, or may be dwarfed until only their tips remain. I have never watched such a case from the beginning, nor probably will any good surgeon ever have the opportunity. Ism obliged, thereforc, to toke the histories given by the patients' friends, and, if they may be trusted, these deformities are sometimes produced without any exfoliation of bone.
That lapus matilans is really lupas is proved by the asual coincidence of patches of ordibary dupus on other parts of the pstient's limbs. In a case which was receatly shown to me by my friend Mr. Sibley, s young lady had one hand slmost in the condition shown in the sketch, and she bad also common lupus on the face and lupus of the soft palate. Lupns mutilans is a result of lupas under peculisr conditions, and by no means a variety of it. The remark just made applies alse to elephantoid Iupus. It is seon occasionally on the lower extremity, ond yat more rarcly in the upper. The whole limb haring been inflamed in connection with Inpus and prehably with interearrent attacks of erysipelas, permanent wedems with thiokoning and overgrowth resnlts. The dingnosis of lapus is made by the discovery of spots of lnpus growth (apple-jelly) at the margins of the diseased part of the limb or on other parts, and it is contirmed by neticing that the surface of the disessed part is in a state of scar. I recently saw a good example of lupas with elephantiasis in a lad who was under Sir W. Mac Cormac's care in St. Thomas's Hospital. They are not common.

The subject of lupus of mucous membranes is a large and very important topic, bat I nust deal with it very brielly. It is almost almas' in association with lupus valgaris, and not with erythematosus, that we find the mucous membranes affected. Almost slways the skin is first attacked, but this is not invariablo. I have seen lapus begin on the gums or the palate or in the cheek several times Fithont ay lite disease of skin. We also see cases occasionally in which discase in the hehrymal sac appears to be the beginning of lapus of the check. When lupus affects mucous structures there is usall. 7 a very definite history of tubercnlous tendencies in the family. It wonld be impossible to identify tho changes which attend it as being lapus, did we not constantly find it in association with lupus of the skin. The mucous membrane becomes thickened, papillary, and nlcorsted. There is never anything to bofound like the applejelly growth. In the month the gums may be destroyed and the teeth fangs exposed; the soft palato may also be deatroyed and the disease may spread to the larynx. The changes may usually be diatinguished from syphilis by noting that the bones are never involved, and that no perforations of the palate oceur. It is always a croeping, superficial process. How far the disease may pass down the throat I do not know, nor whether it ever invades the etomach. As a snggestion in that dircction, I may remark that several of my lupus patienta have died of hamatemesis. The conjunctiva is sometimos primarily affected.

I have several times diagnosed lupus of the mucous merubrane just within the nus, but never, perhaps, under conditions which placed the diagnosis leyond dispote, $A$ syphilitic simnlation of it is not uncommon in this part, aud oftea leads to stricture. The exemption of the genitals from attacks of lupas is a rery remarkable and well established circumatance. I have no donot that it illustrates the

[^7]inflaence of temperatare in causing lapus. The further the part from tho contres of circulation, and the more frequent its risk of being chilled, the greater is the danger that it may be attacked by Iupus. Warmenth is ininical to the disease. On tho female genitals I have scarcely ever scen well marked lupas, and very few have been the instances of it on the penis. Tho glans penis is not infrequently attacked in tertiary syphilis by a disease which spreads just liko lupus. Although, as $I$ have said, lupas orythemstosus very seldom affects mucous membranes, yet it does so occasionslly.
Lupas of the soptum nasi is only a form of lupus of mucons mem. branes made peculiar by the part affected. It is, however, a rather special affection, and as it is olmost constantly mistaken for syphilis, it is desirable to say a fow words about it. It usnally begins just within the nostril, and a small alcer forms, which soon perforates the septum. The edge of the nicer may heal, leaving only a comparatively small hole, or it may extend up to the edge of the vomer. Here, again, we observa the distinction from syphilis, that lupus never produces disesse of the bone. These perferating Iapus alcors of the septum may oceur without any skin-lupus whatever, but the proof that they are of the lupus nature is fornd in the frequency with which they occur in asscciation with it. 1 hare ahown yon a pertrait of unusually extensipe destruction of the lips and face by lapus, and remarked in connection with it that the young lady was one of the very few cases which I have known in which a lnpus patient died of phthisis. Nom a sister of this young lady, who had herself no skin-lupus, became the subject of a chronic uleer on the septam nasi, which was only saved from perforation by frea canterisation. In a lecture deveted to this special subject, I endeaveured to prove thst perforating ulcers of the septam, when occurring as the sole lesiod, are by no means necessarily syphilitic, being often examples of lupus.
I here conclude what I have to say as to the clinical grouns of common lupus. It is obvious that other groups might easily bo made, but 1 believe that these will be found sufficient for practical classification. I now proceed to diseasos which depart from the type of common lupus so much as to constitute sub-species, or special forms of the disease. I will take first what I have been bold enough to name ccacmalирия.

For clinical convenience I give the name of eczema-Iupus to cases which look like eczema, but which really are fupus. In some cases an eczematous process seems to hare preceded that of Iupus, but in others the lupus disease appears to have produced eczematons inflammation. More or Iess of eczematous or impetiginoug inflammation around patches of lupus is not at all uncommon, but it is not these cases which I would claim for the present category. The name proposed should be restricted to cases which in all parts, and through their whole ceurse, have the features of eczema brit the tendencies of lupus. This eczematous development may occur alike in common Iupus and in the ery thematous form, and it may be either dry or moist. The very prolonged duration of the patches, their iocurability, their slow extension by infection at their borders, ond, above all, the fact that when cured they leave scars, sufficiently prove them to be lupus. Yet it is part of my assertion that the two diseases conjoined in the nnme are really mixed iu the hybrid malady. Now and then the patient has patches of eezema on other parts which do not assume lapus charscters.

One of the first eases which I remember' as inducing me to empley this name was that of a lad of about 15 , who was under care at the Lendon Hospital. His whole neck was involved in a red patch, from which the serons discharge was profuse ; it was, in fact, raw over the Fhole surface. It had been diagnosed and for long treated as eczema. When it was looked at critically I believe that everyone present was convinced that the right name was lupns. It had been present eevoral years, and was steadily aggressive at its edge, which latter was overywhere abrupt. It was causing scar where it wis getting well, and a slight dogres of contraction was present every where.

Another very marked exaraple of eczema lupus ocenrred in the persou of an elderly lady from Durham, whom I saw with Dr. Borron. In this instance almost the whole of one breast was invelved in a weepiog, abruntly margined patch, which no ordinary remedies could get to heal. Nothing excepting cauterisation did any good, and the patient remsined long under treatment and was still not cured when I last saw her.

In another case a rather delicate lady, aged 45, presented dry eczema-looking latches on the left side of the neck and behind the left ear. They extended very flowly indeed, but they pever showed ady tendency to get well, although they hoaled in places. No one aeeing these patches for the first ime would bave doubted that they were dry ecroma ; I can only gay that I have seen Miss - once or trice a year for at least eight jears on account of these patches, and that
they haponnever once been quite well. This is notithe history of eczema, Cauterisation with the acid nitrate of mercury is the only measnre which does real good. Under it the patch on the neck has for some years been quite well, ..bat that behind the ear atill persists. If

I cannot show you any good portraits of eozema-lupus, for the reason that itis impossible for the artist to. portray anything distinetive. Everyone seeing the portrait would call it eczema.' It is tho history and the clinical course which alone make the diagnosis: I show yout, however, three portraits which may be of some slight help. At any rate, thes go to prove that the morbid action took on exactly the same characters in three different positions: + The patient was a woman asmed Laura J., thirty-three years of age. o: Shes was of healthy family, 'except that her father suffered from "a breaking out on' the skin." ss She had never had any. symptoms of phthisis. As a child she hiad'erysipelas of the leg. Her sister had scrofula badly in the neck, and possibly intestinal tuberculosis. The lapas disease commenced by a patch behind the ear-; then followed patches on the left aide of the bridge of the nose, and then in the left ear. About two months before I saw her she had a patch form on the right arm, which, after lasting a few weeks, almost wholly disappeared. In the right ear the whole of the concha was affected by a condition which it was impossible to distinguish in any way from cezema. It was illdefined, slightly congested, and covered with thin scales, and showing several cracks. Behind the ears on both sides there were red weeping patches, whioh were tolerably well dafined, and in that feature differed from the more common forms of eczema. There was also a very slight degree of thickening in the skin which was involved. The disease had been present for several years, and Mrs. J. had boen under excellent gpecialist care in Liverpool. She believed that the word lupus had been mentioned. A cousin of hers was nader treatment for lupus. The portraits are not very satisfactory, becanse the disease partakes more of lupus features'than is nsnal in the pure eczema-lupus, and some may think that they resemble simply superficial and rather indefinite lupus. I I believe that I saw the patient only onee, and I cannot report anything as to the success of my treatment by cauterisation. It will be seen that the unsymmetrical arrangement of the patches in this case, all on one side of the head, suggested infection by contiguity, and the order and dates of their appearance confirmed it.

The last narrative which I shall trouble you with, is that of a remarkable series of three cases in one family.

A young lady, named $S$ - has been recently under my observation. Her case is an example of eczema-lupus, of an eraption which weeps like an eczema, but which persists and leavea scars like a lapus. It also shows the lupas process oocurring symmetrically on the backs of the hands and nowhere else, and in companionship with a pustular and vesicular eruption on the fingers, repeatedly recurrent and probably allied to chilblains. Further, Miss S.'s case is' an instance of lapus occurring as a family disease, for a brother and sister have it also. In her sister it is seen only. on the hands, and keeps to the pustular form, bat ber brother has suffered rather eeverely from an acne-lupus on his face, and from lupus ulceration of his palate. I have already described his caso," and it is one of the best examples of acne-lupus which I have seen. "This tendency in three memhers of the same family to suffer from scar-leaving pustular eruptions on the face and hands, associates the disease, I think, with Hebra's xeroderma( Kiaposi's disease). There is this difference; however, that whilst in the latter the disease shows itself in infancy or early childhood, it has not occurred till a much later age in sny one of the family now in question.

The S. family are all delicate in the direction of struma, they are tall, twell-made, and most of them of a clear thin skin. Miss S., the eldest, is now 22 years of age, of rather florid complexion, with brown bair and eyes. She considers herself in good health, her only trouble being.the patches on her hands. She never had common chilblains on'her hands, and nevor with any unusual severity on her feet. Abont the age of 6 she had scarlet fever, and after it became liable to have puistules and watory blisters form on her fingers. These would come and go withont, so far as she remembers, any close relation to season or weather. On one occasion little blisters formed round her nails, and two of the nails subseqnently came off. They; were reproduced and are now perfect. Her fingers aro long and taper, nsually warm, and show no trace of capillary torpidity.

Four or or five jears ago, the pateh which now givos ber most trouble began to form on the back of the right hand. It varied much at different times, and would often get almost well; and then relapse again; ita chief character being a weeping sitface, with pustnles at its margin. There is now a conspicuons scar, corcring a considerable
srca of the knuckles and back of the hand, and at its margin are some little dusky ill-dereloped pustnles. Anyone looking at this scar and not knowing the history, would probably declare it to be lapasis lifb

During the last four months, Miss S. has had a patch form on the -oorresponding part of the back of the other hand; this patch is now of about the size of a shilling, it is red, "elightly raised and a littre scaly. It is abruptly circumscribed, snd iwoold be taken for a patch of psoriasis. She asserts, however, that although at present dry, its noual condition is running moistnre. It has been steadily increasing at its edge since it first began, and in splte of many applications. There is at present no proof of scar, but I have no doubt that it is destined to run the same course, unless we succeed in curing it, that its fellow on the other hand has done. I claim to regard them both as patches of lupus, assuming the external features of eczema. is tho

## ON SOME NEW APPLICATIONS OF THE INDUCED OR FARADIC CURRENT IN GYNACOLOGY.

## By G. apostoll, jl.D., Paris.

Translated ey W. WOODHAM WEBB, M.D., M.R.C.P.I_
THe gyareological employment of the induced or fararic current is of French origin, and I may safely affirm that my friend Dr. A. Tripier was the first to use it some twenty-fire yeare since. ${ }^{1}$

It is to be hoped that the new branch of therapeutics will, from the renewed interest it is exciting, soon reveal all its advantages.
A. Tripier was the first to show that, owing to its contractile power the induced current conld not only be used in obstetrics, bat conld be turned to good account in general gynæcology.
"According to the views of A. Tripier all, or nearly all, inflammatory conditions of the uterus arise from either an interstitial or an intra--vascular inertla of the mnscular fibre. This inertia, mostly postpuerperal, deranges the circulation, canses congestion and stagation, and'a consequent arrest of the nutition of the organ. By artificially exciting and re-establishing the circulation, he proposes to attain the double end of cure and prevention. Such is the rofle of faradisation indicated by A. Tripier, when, in his teachings and practice, he insists npon it as the means of remoring the congestion to which be traces the subsequent sflections.

In a recent memoir ${ }^{2}$ I have endeapoured to connteract these exclusive views of A. Tripier, by pointing out what he had overlooked-the pre. ponderating part played by septic influences in gynacology. I demon. strated the primordial influence of lesions of the mucous membrane, showing that it was from them, by way of continuity, the parenchyma became implicated. I also showed that although the faradic eurrent twas all powerful in relieving the early and purely mechavical fotms of congestion, as in cases of simple subinvolution, it was, on the other hand, aseless in chronic forms, and in lesions of the mucous membrane, that is to say in endometritis. And this might bo easily accounted for, since in inveterate conditions of the discase, the muscular fibre, compressed by the new deposit of connective fissoc, partially disappears, and consequently the indnced carrent, which is a direct excitant of muscular fibre, finds no sufficient material nipon which to act.

On the other hand, when, as is so frequently the case, the mucens membrane only is at fault, it is still more erident that there is nothing upon which faradisation can work curatively. I, at the same time, directed attention to the powerful resource we have under these circumstances, in the methodical application of the continuous chrrent, and noted the leading place it must take in future practice.

While giving attention to the action of the faradic current, I have done my utmoat to extend the limits of its application beyoud those which satisfied Tripier.

I will now specify the contributions of this tind which I claim as exclusively my own.

1. I have modified the mode of application" to which Tripitr has given his name. Ife had originated the unipular cxcitation of the

[^8]ateras, callol atero-sus-pubic, in which the circait was always closed upon the abdomou; for that, I sabstitnted the bipelar method. I did this by using a soaud, Fhich contsined the two poles sids by side. It parmittod the closing of the circuit within the uteras itself, while at the aano time the carrent radiated sufficiently to act upon the wholo muscular aubstance of the organ. By thas concontrating within the utenis tho eatiro electrical action wa secure the fellowing advan-tages:-
. There is less pain ; the skin is not in any way injured as it may the when the corrent is closed above the pubes. $b$. It may be done moru easily, as wet rid of the recessity of a cntaneous electrode, which requires bolding either by an assistant, or by the pationt herseff. c. Boing less painful the dosage may be incressed. $d$. The offect is greator, as, other things being equal, the therapeutical effect is in proportion to the intensity of tha current.

Simple, easy, sad less painful, this method enables us, by using ad. ditional intensity, to expedite the curative effect.
My method of aterine faradisation is therefore uniform; it must necasaarily be bipolar. Pregnancy is one of the rare hindrances to its omployment. But, oven in that case, ss well as in some others I shall mention, vaginal bipolar faradisation may be used instead, and, although less efficacious, will be found of some service.
2. Next to the question of instrumentation, I claim as my second imprevameat in treatment the methodic and cxact application of tho fara lic current of tension." This term "current of tension" repluires a werd of explauation. No apparatus for faradisation is comuleto without tro independent bobbins, which, according to the length sud thickuess of the wires, givo currents differing in qualitiss and characters. The bobbin with a short and thick wire gives that which is callod the curreut of quantity, because the generating wire is lass resistant and lets pass a greater volums of electricity. This cenrent in tho direct excitant of muscular contractility, and is the only one oml'byed by Tripier to overcome muscular inertia, to produce a temperary vascular activity, sud to carry out his trestment of uterine congestion. Tho other bobbin, with a longer and finer wire, is called the bebbin of ionsion. It gives a current which has, I may say, a much more cousiderable power of expansioa. The current flowing frem it acts lase on the muscalar centractility and influsnces the sensibility. It has therefore been employed especially when pain is the leading sym. ptom, in order, by a contrary reaction, to deaden a too violent nerveus vibration. This revulsive spplication on the skin is ne novelty, though not sufficiently reserted to in gynecelogy.

Now it is pain which leads mest women to seek relief, snd, if we examine the seurces of this pain, we find that they are either inflemmatory or nervous.

On the one side, then, we have to deal with uterine iaflammations, and especislly that class of peri-uterine iuflammstions which is usually so embarrassing ; and, on the other, with a nervous condition which ${ }^{2} 8$ recognise as ovarian paio.

It will be admitted that for these pains all the reutine treatmeut is absolataly useless. No one can bosst that by medicineshe has ever permanently get rid of such evarian paias, and the same may be said of the antfering from peri-uterine inflammations.

These probleins are among the most pressing in gynæcelogy. Their gravity is made greater when the number of women is taken into sccount who are castrated on acceant of pains which we know can be romevel by an olectrical current. Such ovarian pain, ss wo meet with it in innumerable hysterical subjects, is nineteen times out of twenty curable, while the inflammatory paing can be often-I will not say always-mitigated in the same way. Now it is of this means of treatment that I couaider myself the originater.

It was in 1883 that I first described, in a specisl momoir, my slectrical troatment of perimetritis. I read a second paper on the subject at the Congress of Copenhagen in 1884. ${ }^{5}$

No other sedative, recegnised in gynrecelogy for the purpose we are treating of, equals the faradic current of teasion when applied in observance of the following rules :
a. Of these two applications, intra-uteriae bipolar and vaginal bipolar, the intra-nterine will al ways bs preferable as more active and officacious, whereas the vaginal operation is ferced upon us by such circumstances as the impossibility of passing a sound into the uterus. This will be onr dilemma in preguancy, in virginity, or in an acute stage of pari-utcrins iullammation.
h. Tha leagth of the sitting is an essential condition of success. ITowover pralenged, whether five minates or twenty minutes, it ought
Gur an nouvear traitement de la doulear ovarienne chez les hysteriquas. Brluin Cobneral de Thurapeutirue, June $15,1885$.
s Sur un nonvean traitement electrique des perimetrites. Comptes-rerdets it Congres de Copenhague, Section dObstêtrique et do Cyaécolngie, page 141.
net to ond till the pain has diminished or dieappesred. This we can be informed of oither by the 'patient's declaration or by direct contact. We should never interrupt an operation till we hare clear evidence of this result. The noedful duration of an application will vary not only in each patient, but in the sams patiant, during the course of her trestment. More time is generally required for the first aitting than for subseguent ones, in which we have only to complete the work begun. I insist upon this important fact, that thougha casa of perimetritis may only find reliof from this treatment, the orarian neuralgic pain may be, and generally is, done away with in a very short time.
c. The sittiags should follow esch other quickly. Every day, or even twice a day is not too often, so that the effect may be cuma. lative, and nothing of the benefit gained be allowed to subside.
d. The number of eittings necessary will always be uncertain. The gervous and inflammatory conditions wo bave to deal with are numerous and changing, while the treatment I advocate is especially directed against one symptom-the pain. The surgeen will be obliged to modify the treatment in every csse. In simple nenralgies be will find from two to five sittings generally enaugh to secure the patient freedom from pain for several months, and eren more. In case of relapse the same trestment will give the same results. With inflammations the case is different. Not even an approximste cslcnlation can be made as to what will be required, since we have to encounter the difficulties of uncertainty of effect, and of deviations in the degree in which cases give way to the treatment.
c. As regards the operation itself, the dossge or intensity of the current to be used (as regulated by the sheathing of the bebbin) will vary within the known extreme limits.

First, in a case of perimetritis we must always be assured of the telerance of the patient, enly pass the current gradually and slowly, and above all, in acute cases, be content to use small-even very small-doses, increasing only as the power of endurance is developed and the phlegmasia shows a disposition to giva way.
No pain ought to bo inflicted on the patient, first, because it is useless, and, secondly, because too strong an application might do harm.
Grest caution is always necessary, especially at the beginning of a sitting. First of all the bobbin should be entirely dismounted. Then starting from zere, the adrance should be made millimètre by millimetre, while the eye is kept on the countenance of the patient, as the expression is the best indication of her scnsations. The gentleness of proceeding must always be redoubled in acute cases of inflammation.
Secondly, on the contrary, in operating for ovarian pain, we may press forwsrd directly and boldly to attain our end, provided the aterine region is healthy, as in that state it is extremely tolerant. A moderate dose will sometimes suffice, but generally it is necessary to go on to the highest point. Though in perimetritis we must avoid causing any onffering, it may here bo well, as a slight dose would de no good, sometimes to rouse the uterus by pouring in a massive current of tension. It is clesr from all this that the dosage will alwaya be variable, and require delicate adjnstment, by a tact which can only be acquired by practice.
Even my experience, with many hundreds of these cases, does not emporer me to lay down any directions which will suit all conditions. I can only say that, having to do with a curative agent which is under control, it must be judiciously sdapted to the circumstances.

If, however, the desage of current is a personal alfair as regards the patient, thero are some general indications which may bo useful in guiding the practitioner.

It is a peculiarity of the greater number of bysterical women that they bear easily the faradic currents of tension, evon with the fullest dose; 㔭 well, in fact, that alter a short time they will affirm that they feel nothing. A novice might thus imsgine that his apparatus had failed; or that there was $8 n$ interruption of the current. When such insensib:lity shows itself there need be no hesitation, and wa may after having slowly passed the bobbin home, continue to use the bighest intensity.

But, on the other land, we find a few women in whom there is a complete centrast of sensibility. They sre incapable of submitting to the carrent even in small doses withort complaint. Here we should bo very cautions in toning down the current to their pewor of endurance.

I have observed this interesting fact in dealing with the atill rarer cases of complete inscnsibility to the current of tension. They seemed not ouly to be able to bear it, but to be unconsciens of any action. Under auch circumstances, as an cxceptional proceoding, after having first tried the effect of the current of tension, I have changed it for that of quantity. This generally tells upon patients more and more
markedly as the hysterical symptoms are more prominent. The following curious phenomenon then presents itself: immediately the current of quantity is substituted for that of tension, it is found that the intolerance of even the smsllest doses is such as to threaten the patient with a ncrvous parorysm. This is the point st which to manifest the tact of medication. A state of calm only comes on when we have artificially brought the woman to the verge of a hystericsl outburst by sn intentional brusqueric of faradisstion. At this moment there must be s pause, and a gradual cessation of the current. The threatoned crisis will be checked, and a condition of tranquil relasstion takes its place. At the same time the ovsrian region loses all, or almost sll, its previous sensibility, and it is found that even when that sensibility had lasted for years, and been such as to render the slightest touch insupportable, there is, within the spsce of a few minutes, a trsnsformstion so complete, that the woman is indifferent to ordinary pressure.
Nerertheless, it must be borne in mind that, though this pain is called ovsrian, its real sest is in the ovarian plexus, which lies above the ovaries, so that the spot where pressure causes most pain is considerably higher than the pubic msigin of the pelvis, and away from the median line. This point, which, before the sitting, was exgnisitely tender, will, sfter it, allow of sny reasonable pressure. The woman will remain calm and free from any sbnormsl sensation, provided the source of psin is not irritated, and the corresponding ovary is not connpressed by the fingers, used in a bimanual examination, by touch and palpation.
I may, therefore, thus ststo my opinion that hysterical ovsrisn pain, not having origin in any structural lesion, may in general be allayed, and that the patients have no further ground for complaint. In this state pressure above the pubes causes no discomfort. But the proof that the cure is not absolute, and that the cause of the suffering has not been removed, is that the calmed pain may be again aroused by pressure between the fingers from within and withont, and that, even after a long interval of freedom, there may be a relapse.
3. I now mention my third and last contribation to gynxcological therapeotice.


There are many women who, independently of ovarian neuralgis, have intense and very localised sensibility sbout the entrance and lower part of the vagina. These are cases of imperfect vaginismus, in which the torment is so unbesrsble, and the hindrsnce to connection so complete, that life is rendered misersble. The difficulty of overcoming this troable is only too well known. I have had to do with a large number of interesting and instructive instances of this affection, snd I intend to publish a full account of the most important. For exsmple, in one woman 1 found a single neuralgic spot, not larger than the tip of the index finger, just at the end of the right nympha. Another had the same condition exactly at the posterior commissure. In a third, the excessive sensibility was confined to the orifice of the urethrs. The fourth case had a similar neuralgic area on the left aide of the vestibule. Besides these single spot casee, I have aeen many others in which the locsilisstion was not single, and the extent varied. The remedy of which 1 have svsilod myself, snd now recommend, for ridding women of these harassing annoysnces is the faradic current of tension, well and methodically applied.
Over and above the general rules which I have lsid down as to the dosage, duration, snd mode of application of the carrent, which hold good equally in thase cases, there is a fourth special indication thst must be regarded as obligatory.
Uterine faradisation alone, by reflex action, may possibly effect a cure, without any immediate contsct. But such a result is exceptional, snd, as a rule, the electrical action must be brought to bear directly on the point concerned. The maximum of effect must be concontrated on the sest of pain under tonch. To insure this resalt, I have designed an instrument, the conical end of which contains the tro poles side by side, hut separated by an isolating layer of gattaperchs. (See Figure.)
That which I have previously advised should be done to the uterus in certain conditions with my bipolar sound, may be effected here with my bipolar electrode.

If, however, the vsginal neuralgis is deep-sested, and ex nds over s large segment of the vestibule, this instrument will not answer, and wo must replace it by a large bipolar sound, with which a double va. ginal faradisation csn be made, taking care, when the outer orifice is the part implicated, to rest the exterior pole upon it.
This will serve as a brief exposition of my views as to some spplicstions of faradism in gynecology. I look apon it as effectual iu hysterical neuralgia, useful and varisbly sedstive in the pains of inflammation. It is true that hysteria holds a large place in this medication; and it may be objected that, after all, suggestion has a grest deal to do with the effect produced. Cure is admitted, bat, in such cases, the question arises : may it not be brought abont by the mental impression made by the operator?
This explanation I reject. Among many other proofs that it will not saffice, this is enough : that jou msy farsdise one of these women, without saying a word to her either as to the nature of the treatment, or as to the probable changes that may be the consequence, and the results will be the same as if you had foremarned her.
Moreover, all suggestive influences, however potent they may be in other circomstances, are put out of question by the fact that faradism only relieves when we observe certain fixed and precise rules in its spplication.

## EXTRACTS FROM AN ADDRESS

## COLLEGE POLITICS: MATNERS CONCERNING THE ROYAL COLLEGE OF SURGEONS OF ENGLAND.

Delivered before the South-Western Eranch of the Eritish Medica: Association, Decermber 1üth, 188\%.
By PAUL SWAIN, F.R.C.S.,
Fellow of King's College, London; President of the Branch.
Gentlembn, - The aim and object of those who desire to reform the present mode of government of the Royal College of Surgeons is that t should no longer be a close corporation, managed well or ill by twenty-for gentlemen wholly irresponsible to the great body of the profession, and whose actions it is impossible effectually to challenge. The College of Surgeons has st its command a very lsrge revenne; last year its total expenditure smounted to no less a sum than $£ 33,629$ 11s. 7 d ., leaving a balsnce in hand of $£ 1,74214 \mathrm{~s}$. 7 d . I do not for the moment stop to inquire whether this large snm is spont rightly or wrongly ; but I ask you if you think it proper that the expenditare shonld be committed to twenty-four gentlemen who, however learned they may be in their profession or estimsble in their private capacities, are not, thst I am awsre of, selected on account of sny particular business sptitnde, and who spend the money in the happy security that their sctions zannot possibly he challenged by any single individual of the great profession, out of whose pockets the principal income is derived, snd for whose benefit the expenditure is supposed to be made? The Council are apparently becoming afficted with a distressing mania for brilding, and I see that the sum of f11,852 11s. 9d. has been spent on the new Examinstion Hall. They are also embarking on a large building plan for the extension of the College itself, the cost of which is to be eventually $£ 53,700 ;^{1}$ and the following resolution sent this Council do not spend more than $\mathfrak{2} 50,000$ of the the preWilson bequest" -also to go iu bricks and mortar. Terily let us be thankful for this small mercy for the present.
The Court of Examiners consists of ten members, who are elected by the Council by ballot. Ther hold the office for fise years, sud may be re-olected. They must be Fellows of the College; and being members of the Council does not disqualify. Last year the fees paid to the members of the Court of Examiners amounted to 55,219 2s At a meeting of the Fellows and Members, held at the Collage in October, 1885, I alluded to the question, and showed that it was not only possible for the members of the Court of Examiners to be in a majority on the Council, but that such had really been, the csse, and that, too, in the face of a resolution of the Council that uot more than one half
1 I would call your attention to an able eriticism of this expenditure in alealung article in the Joursal of Octoler send.
of the members of tho Oeqre of Exminers should be on the Council at the same time. Thas the powers of the Council not only to nake themanlees exauiners, but to ro-eleet themelves indefipitoly, has exiated in times past, aud still exist. Tho author of a letter in' tho Joursid. of Octubar 28th points ont the reanlts of this practire.

I hive male an abytract of the tab'o ho publishes, and I'find that there aront present ten membors of the Conncily who aro also members of the $f$, urt of Examiners, and who havo shared betwden then the modest sum of $£ 26,300$, one of then having hat $£ 4,934$, anather t:3, 40 , anotber $£ 3,178$, anil so on in lessor proportions. Now, what I Nant to point oat to you is this: not that the monoy spent in exsuminstinns is excessive, or that the gentlemon who havo received it a-c, ill tho present instance, either inoompetont or negligent, but thot the syoter readers it possib!o for all three contiugoucies to happen, 3ml that the yerfectly irresnonsible nowor whin now exists, enabling masmbers of the Council to ondow themselres indofisitely out of Collogo furks ought to be restrait el.

Let me draw your attontion to a late action of tho Connoil, by which a arious injury has been inflictod on tho profession. If there is che thing sbont which we haro beon fairly nnanimous it has bell the Asaire to obtain in London one examining body. Nom, just whon it was on the eve of accomplishment, the Council of the Collego of surgeans, in conjanction with the College of Physicians, has excladed the sisciety of Lpotbecaries from their examination, the result being that a seconil examining body has boo e sot in in Londor. And this has liecu done with a perfect knowledge of the wishés of the profession on the matter. In Norember, 1886, a large mecting of Fellows and Hembers was held at tha College of Surgoons; and the follopiog sesolution was unanimously carried:
That, with refarance co the report from Mro John Marshan, on page 15 of tho Commit's lienort, this mating requests the Council of the Collyge to cqusiler the 3.1visability of aceryting an arrangenient for combination wiff the Apothecarics' siciety, as well as thie College of Mlysiciaus, for the purposes of conjoint eximina:ions for medical điplonas la England and Wales, under the Medical Act of 1RSG, and to report thereon at a future meetiag of Fellows and Members to be unlueved for the purpose atan early date.
On February 25 th tho President of the General Medical Council adlressed a remonstrance to the President of the College of Surgeons. It is not too much to say that the action of the Cullege, has been, caken in opposition to what ono may fairly eay is the unanimions lesire of the profes ion, backed up by the General Medical Council sud the whole medical press.
The Council of the College, in the new charter for which they are applying, ask to bs enabled "to determine by rules and regulathous, instead of, as at present, by by-laws, the conditions of saimisstou to tho Fellowship by examination." Now we emphatically srotest agsinst any snch power as this being vésted in the hands of Hit Conncil. We know by past experience that it is moro than likely Erat they would use it to lower the standard of examination. Some yeara ago sn attempt was sctually made to do this, sad was only Jofated by the energetic action of three well-known Fellows of the Collogo, oue of whom was Mr. Timathy Molmes. As this gentleman paipted ont the other day, if the Council had been able to provide "hyy rules and regalations," instcad of by the slower process of altering a by-law, the proposal would have becn smuggled through without anyons outside the Council being amare of it.
Of a similar character is another proposition in the new charter, pamely, "to empower the Conacil ts elect to the Fellowshlp Mombers of tweuty yeara" standing, nat exceeding ten [instoad of two] in each yoar." Against this proposal a resolution, proposed and seconded by Mombers of the C Illege, was carried; bat, ss ususl, tho Council Has ignored it, and still presses for the ingertion of the clause in their now charter. IIs I not the authority of Mr. Timothy Folmes for the stateusat, I could asarcoly crodit the fact that only last year a prouiasnt memher of the Council proposed to admit by voto of the Council fifty members snnazily to the Followshin. This proposal wes rigornusly opposed by the Association of Fellows, and did not pass the Coancil.
The remely for this state of affairs consists in taking from the Council this irresponsible nowre, and endowing the Fellows and ilembera with at least some of it. The ather day I had the honour Lo, form orio of a deputation of Follows to the Lord President of the Councit, before whom wo haid oar objoctions to tho proposed charter. It the termination of that mectiog ho ssid: " $A s 1$ underataid, it practically comes to this-that ron want an aitcration in the'constitution of the Royal Cullego of Surgeans, to make it a nopnlar body, to a certain extent, instead of being comparativels a close borly." And I Chink that expresslon of the Lord President shorred that he perfectly graspod the situation.
-vilfongli rej faro of late mot within the College walls aud discussed matters at those meetinga, yet we do so only on sufferauce, aud a by, law actaally exists which provents the Follows and Menbers meetiug Fithin the Colle go walls, of diacussing any mattor except with the per. mistion of tho l'resident and Conacil. In July, 1869, in conjunction with Dr. Morris, of Spalding, I tested this question. The late Mr. Waklos, uany years ago, took a somowhat sinilar courso. My fate was happior than his, for on that occasion he was forcibly renoved from the Cullego procincts and condacted to Bow Streot. Whatever mey. have beon the result of our action in July, 1869, the fact remains that, posi hoc or propter loc, in the November of that ycar Mrr.' Erichsen,: who had been recently olocted to the Council, and was then in favour of a more liberal nolicy, gave notice of a motion affording greater facilitics for the meetings of Follows and Dlombers within the College walls. And on March 22nd, 1870, the frat meeting was held, under the presidency of the lato Mr. Cock, in the theatre of the Colloge. But althongh the Couricil were apparently compliant in the matter of meetings, they had little trust in the gentlemen whom they had invited to como, for on the eve of the meeting one of the porters of the. College wos sworn in es a special constable, "to pravent felonies and disorders." This fact was deni2d by the President, But it was verified by a nor prominent member of the Council, who then had a keen soent for Cullege peccadillors. But, at any rate, a point had, been gained; and worare now pormitted by the grace of the Council to assemble annually within'our own College "to receive as rcad," as Mr. Tweedy put it the other day, "the Report of the Council, Thich, as a zaiter of fact, I believe has'beci printed and bound up in the Colloge Calondar before our meoting was held." But werdemand, more than tinis. Wo bave thrice carried unanimously the following resolutions. at meetings held at the College, namely:
That it is desfrable thisit no alteration is the constitution or relations of the Onllege shall be effected without the censent. of the Fellows and Members conrened to discuss suich siterations.
And also
That there shall be an annual meeting of the Fellows and Mcmbers, at which the Atizual Report af the Council shall be gresented, received, and adopted.

Had these tiro resolutions been accepted by the Council, I believe a subatantial justice would have been done, and most of us would have been content to rest satisfied. But, true to the traditions of the past, they have ignored these resolutions, with their usual contemptnous silence.

There is one other point to which I desire to alluda before I finish, and that ia the claims which the Membera of the Collega have put forward to take part in the election of nembers of Council, and also to have seats on the Council. With the former of these proposals I concur. It is most desirable that so large a body as the Members constitute shauld have alike with the Fellows the right of meeting, the right of frea speech; and the right of voting at College meetings. I and propared to supprort the suggestion that the frenchise should be conferred on Members of ten years' standing. With the second proposal, that Mrmbers of twenty years' standing should be eligible to sit on the Council, it being nuderstood that not more than one-fourth of the Council shall consist of Members, I do not agree. It would tako from the Eellowship the sole remaining privilege which diatinguishes it from the Memborship, and the position which we have obtainod by the expenditare of time and labour would bo hardly worth accontance: Bat over aud above this there is no substantial grievanco existing which can justify io radical a change. All the members of the Council are Members of tho Callege as well as Fellows, and in this double cepacity tepresent the whole body. If it be alleged that the Council as at present constitoted fails to reprosent the interests of the genersl practitioner, which I adroit it almost entirely does; then I say the Members, supposing they lad the franchise restricted as above indicated, will find plenty of men hoth in London and the provinoee who are Fellows of the Collego and general practitioners also, and who would fully conve up to the atandard of representation required by the Mombers of the Colloge.

The Bedford Providest Disprasany, -The new buildings of the Bedford Provident Dlspensary were recently opened by the Marquis of Tavistock. Tho inatitation, which was founded trenty-fivo years gino, is atated to have been of great public beneft, and has always commanded the werm support of the medical men practising in Bedford, the mojority of whom are upon the staff. Tho nerw lmilding is a handsome and well-planned stracture, and most conveniently situated for patients', both in the town and surrounding villages. The cost of the bnilling, furniture, and fittings, exclusire of tho site, amonated to about $£ 1,900$.

## AN ADDRESS <br> THE THERAPEUTICS OF THE URIC ACID DIATHESIS

Dclivered at the Opening of a Disctession on the Subject in the Section of. Pharmacology and Therapeutics at the Anmal Mecting of the British Medical Association, held in Dublin, August, 185\%.

## Br 1. BURNEY YEO, M.D., F.R.C.P.,

Professor of Clinical Therapentics in King's College, London; and Physician to King's College Hospital.
(Concluded from page 13.)
In the next plsce, we must pass on to consider the more important medicinal agents which hare been proposed for the treatment of this diathesis and its various morbid msnifestations, and, first of all:

Colchicum.-I would ssk you to consider the use and value of colchicam. This drug has been much discredited of late years, and if one of the results of this diseussion is to remove that discredit, it will, in my opinion, have done practicsl medicine a real service. That the drug mas bave frequently been misused, I do not doubt ; that it may have been sdministered without a dne and discriminsting regard to what I have referred to as the "constitutional element" in the therspeutic problem, I am also ready to admit; for I have read criticisms of the nse of colchicum by physicians who certainly minst either have had very'fow opportunities of observing its effects in sppropriate cases, or they must have misde but indifferent use of such opportunities as they have had.
When scute uratic srthritis was a much more common disease than it is now, over-doses of coichicum, were probably not infrequently, had recourse to, snd with ill consequences, but it has never fallen to my lot to observe, or come within hearing of, any of those ill effects which some physicians have asserted to be the common consequences of the use of colchicum. I should hesitste to speak in this way if my individual judgment were at variance with that of other physicians who have had a fsr greater experience in this matter than I have, but I find that most of those who have had the largest opportunities of forming sn opinion of the value of colchicum in gouty affections'are advocates of its use. Garrod has given his verdict in its favour sfter the most sesrching and careful examinstion of its action; snd so csutious snd sound a prsctical physician as Sir Thomas Wstson not only advocated its use ss $x$ curative, but also as $\varepsilon$ preventive, measure." I need hardly say in this city, your great master, Graves, held the same vierss. Lecorché, in his recent valuable and exhaustive treatise on gout, after relating the details of the numerous experimental investigations he has conducted iuto the action of colchicum, thus sums up: "In concluding this study of the effects of colchicum, we assert, as the ontcome of our physiological researches and our clinicsl observations, that colchicum constitutes the specific par excellence for gout; that it may snd ought to be used in the treatment of that affection both in the acute and chronic form."
Professor Bartholow, of Philadelphis, gives one of the best practical accounts of the effects snd nses of colchicum that I have met with: "
"In small doses," he says, "it increases the mucous and glandular secretion of the stomach and intestines, and probably, also, of the liver, kidneys, and skin.........It increases the flow of urine, of the solid constituents, as well as of the water, and promotes the cataneons transpiration.........It is indicated when a prompt elimination of waste is required..........It reliepes the psin, diminishes the swelling, and shortens the duration of acute gout. In order to accomplish these results, it is not necessary that the more harsh and violeut physiologioal effects of the drag be produced. Sufficient should bo given to increase secretion from the skin, the intestinal mucous membrane, and the kidneys, but nausea and romiting should be aroided. Combination with an alkali increases the therapentio effect." He gives the very moderste dose of twelve minims of the wine of the seed, with forty minims of aromatic spirits of ammonia, every, threo bours, until some physiological effect is produced. He adds : "Combined with saline purgatives, it quickly relieves the-constipation, hepstic congestion, and headaches of gouty subjects. It is useful in gouty bronch itis; it often relieves neuralgia occurring in gouty constitutions; it relicves by setting up an eliminative process.'

This description so entirely agrees with my 9 wn observation, that I find little to add to it. There has existed some difference of opinion,

Whioh experimental tests have failed to eettle, ss to the sction of col obicum'on the renal seeretion. My own opinion is that it acts somewhat differcutly in. different individuals and under different circumstances. Its rnost constant action is, I believe, on the hepatic secretion. Again and again when the motions have been hard and clay. coloured from the absence of bile, I have seen \& few doses of colchicum restore the natural dark colour due to a proper admizture of that secretion. Then I think I have observed it act sometimes as a diuretic, snd sometimes as a diaphoretic, and, when it acts more especially on the skin, the rensl secretion may appear to be dimeinished by $i t$.

Graves thought, and Lecorché supports the view, that it prevents or checks the formation of uric scid in the system, and this it msy do by its decided sction on the liver, My own view is that it acts more or less on all the excretory organs; that it is a stimulsnt to excretion; snd as I regard the gouty constitution as one whose fisult is especially, s sluggish sad imperfect retrograde metamorphosis, and delajed excretion ganerally, not necessarily of aric acid alone-colchicum is in s special sense its remedy by promoting the elimination of waste products., Lecorche's experiments proved that it diminished the acidity of the urine, and decidedly incressed the smounts of soda and potash in that secrotion.

The prejadice sgainst colchicum has induced Ebstein to make the extraordinary statement that it is preferable to relieve the pain of the gouty paroxysm by hypodermic injections of morphine. He says they sct "quicker, more easily, and with less danger.". I join issue with him utterly. The internal use of opiates in gout I-consider, except nuder exceptional circumstances, indefensible. In a disease of defective elimination, you would be givigg a drug which depresses in a remarkable msnner the function of all the excretory organs but the skin. A very small dose of morphine will, especially in the gonty constitution, produce clay-coloured slvine evacuatiens, sometimes for dsys.

Colchicum then, I'maintsin, is one of the most valuable remedies, when judiciously given, for most of the morbid manifestations of this "uric scid disthesis," and so far from being s dangerous vascular depressant, I have shown, in my hospital practice during the session just past, thest in a case of chronic gout with subscnte exacerbations, moderate doses of colchicum restored regularity and strength to an irregular and feeble pulse. I trust, then, that the absurd prejudice against this most valuable remedy which has been excited in the minds of the public will be removed, for I find many gointy persons who, much to their orn dissdvantage, positively refuse, to take colchicum, because they have been told it is "such s dangerons drug."
I observe in the last number of the Journal of this Associstion a report by Dr. Taylor, of Brussels, on the sction of oolchicum on the elimination of urea sud uric acid, in which he appears to bave shomn that the amount of both these substances in the urine is largely in: creased by the sdministration of this drug. ${ }^{1}$
Next, 'as to- tho salieylates.
Salicylates.- We ought in this discussion to be able to determined more accurstely and decisively than has hitherto been done, the real value and spplieability of the salieglates, in the treatment of uricemic affections. In the first place, it seems to me impossible to accept the exaggerated estimate of their value' advanced by Professor Germain Sée, who has asserted that sodium salicylate is the best remedy for gout in its acute or chronic forms, Ebstein remarks thst when he has used this salt in acute uratic arthritls, the inflammation has dissppeared very quickly from one joint, to reappear immediately in another, even when the adninistration of the salicylate was fontinued. Lecorché ssye he has found it useful in acute gout, though altogether inferior to colchicum, it lessens the pain and the violence of the paroxysms; but in no way shortens the attack. In cases of chronic gout with tendency to the production of deformities from deposition of urate of soda (tophi), and to constantly recurring subacute attacks, he considers it valuable. Given, he says, in sucla cases, from time to time, in the intervals of the attacks, in doses of sixty to eighty grains a day, it increases notably the amount of uric acid exureted in the urine, and so eliminstes from the blood the excess of urate of soda. In a grest number of cases, he asserts, he has bcen able by its use to (1) prevent attacks; (2) to prevent tho formation of ankyloses and to causo already existing stiffness of joints to disappear ; and (3) to facilitate the absorption of uratic deposits. To obtain these good results it was

[^9]uecessary " to continue, imperturbably, for months the use of salieylate of aoda in doses of sixty to ninety grains daily, only allowing the patient four or five days' interval uvery twolve to fifteen days, then returning to the medicino with the same regularity." Me has found it of "enormous service" in the treatment of gouty asthma, angins pectoris, and cystitis. It should not be employed when there exist evideaces of interstitial nephritis. l'rofessor llouchard (p. 316) considers it a valuable medicine in the trestment of acute gout, relieviug pain and semetime shertening the attack, but he considers its employment dangerous when there is any tendency to cardiac degeneration or when the kidocys are involved. In uric acid deposita, he says, like benzoic acid, it favonrs the elimination of uric scid, but does dot lessen its quantity. Ho considers its action obscure sud its prolonged use attended with great inconvenience, and thst it is acarcsly applicable to the treatment of uric gravel, sud but little employed in chrenic gout or in uratic deposits about joints.

Lathum thinks salicylic acid oftea of service in gout, when unaccompanied by renal disease or slbuminuris, and he believes it to act by seizing, in the system, oither upon glycosin or its antecedent, and so remeving an essential constituent of uric acid, and thas preventing its formation in the body. Lecorche, however, states that he has obscrved in enormous clevstion (hausse enorme) of the amounts of nrea and uric acid in the arine as the result of the administration of salicylsto of sodium, that this elevation ususlly sppears within the first iwenty-four hours, but may be delayed for 48 or 72 hours, and that it lasts for three or four daya, when a progressive diminution sets in. He also states that the amount of phosphoric acid increases, and diminishes in the same manner and at the samerate. It is difficult to reconcile Lathum's view of the mode of action of salicylic acid with those obscrvations of Lecorché.
I have little to add, from my own observations, to the testimony of these suthorities; I should prefer myself to treat attacks of acute gout with calchicum, and until more fully convinced than I am at present of the value of the salicylate of soda in chronic gout, I should prefer the employment of a less depressing remedy. 1 believe it is chiefly of value in those cases in which the uric acid and the rheumatic diathesis are combined.
The beozoates, in the next place, require a brief examination.
Bensoates. -The benzoates of sodiam and lithium have been largely employed in the treatment of uric acid deposits since their advocacy by Garrod. Latham has stated that benzoic scid acts by combining Fith glycosin and so preventing the formation of uric acid, and that it passes off in the urine as bippuric acid. The ralue of the benzostes has, however, been warnuly contested, and I am myself, by no means, convinced of their effecacy. It has been stated by Brunton, that if benzoic acid is given it is found nuchanged in the blood, that the change into hippuric acid occurs in the kidneys. Senator spesks of the "temporary popularity" of benzates of soda and benzoic acid as "based on chsmical theories, some of which were wholly erroneous," and sdds that these "remedies have fallen into just oblivion." I can, howerer, testify that these benzeates are much used in France and in this country, as remedies for the uric acid formation, and I would ask you to consider whether they are of valuc or not. Very brief also must be my reference to guaiacum.
Guaizerm. - The bigh commendation given by Garrod to the use of guaiacum in chronic articular gout has found but few adherents. Ringer, in tho ninth edition of his well-known work, does not oren mention this drug; and it has received very slight colsideration from other authorities. Yet Garrod has spoken of it as having afforded "striking benefit in numerous cases of chrenic gout. I ceuld relate," be says, "many hundreds of similar cases in which gaaiacum has proved especially valuable; in seme its action is almost magical. I have now for twenty years or more employed gusiscum very exten. sively in the treatment of chronic gout, I beliere in sume thousands of cases, and there is no remedy of which I can apeak so confidently." There is certainly no ons in Europe who has so good a right to speak as to the merits of any remedy for gont as Sir A. Gsrrod, and it is a little remarkable how little attention has been paid to this recommendation. I have certainly found the drug give great relief to the muscular pains of persons who were andeabtedly subjocts of this diathesis. $\Delta$ mere nuiversally accopted remedy is iodide of potassium.
Iodide of Potassium-I am satisfied we are but imperfectly acquainted with all the services that can be readered in the manifesta. ions of the aric acid diathesis by iodide of potassium. Its use in hronic srthritic affection is widespresd, but it has its most important applications, I believe, in the less easily recognised degenerative changes dependent on this diathesis. I allude especially to the reasl and vascular changes. I believe the iorlide of potassium, if long
continued in fairly large deses, has a remarksble influence in retarding the progress of thoso degenerative vascular changes dependent on the gouty constitution, and which, as I have lad occasion to obserre, if left untrested, sometimes advauce with grcat rapidity. I am not one of those whe, whenever iodide of potassium is found to be of grcat service in reliering merbid conditions, st once sees a vision of conatitutional syphilis. In cases of well-msrked pascular and renal changes, with albuminuris, some of which bear signs of former arthritic sffections, I have found iodide of potsssium, in daily doses of fiftean to thirty grains, continued for a few weeks, and ropested from time to time, of remarkable value in improving the general condition, and ! hsve, not unfrequently, seen the albumen disappear from the urine, or be reduced to a mere trace. How the iodide acts in these cases I sm not prepared to say; it certsinly promotes the action of certain of the excretory glands, snd somstimes acts as a powerful diuretic. Its influence in promoting the eliminstion of deposits in the tissues is established by its power of removing lead and mercury from the system in cases of chronic intoxication by these metals. Latham has suggested that it prevents the conjugation of glycosin with other substances, sad cxerts slso a solvent action on uric acid. It is necessary to "feel one's way" with regard to dose, some constitutions requiring a much larger one than others, i repeat that iodide of potassium is a valuable remedy, not only in the chronic and subacite sethritic affections of this diathesis, but alao in the graver but less apparent arterial and renal changes. I should be glad to hear further evidence for or against this view.

The important group of alkaline remedies must next occapy our attention.
Alkalies. -The use of the rarious slkalies in the treatment of the uric acid diathesis has received almost universsl aanction, and the only difference of opinion that exists, is as to which is the best alka. lioe salt to emplos. They act : 1. By increasing the alkalinity of the blood, and so preventing the deposition in the tissues of acid urates. 2. By their solvent action they further the removal of such uric acid deposits as may havs taken place. 3. By their diuretic action they promote elimination by the kidness.
I hare said their use has received "almost" unirersal eanction, for I believe Lstham does not look with favour on the nse of alkalies in gout. He considers there is danger of the oxidation of uric acid into oxalic acid, when the alkalinity of the blood is incressed; and that so long as glycosin passes unchanged into the blood, exalic acid will be formed by the action of alkalies.
The employment of the salts of lithium for these purposes has acquired a wids popularity; for my own part, I am disposed to think we are, nowadays, inclined to exaggerate the valus of the lithinm compounds as compared with those of potash and sods, although the equivalent of lithium is low, and the necessary dose is small, mest of its preparations are far less soluble than those of potash and sods, and I fail to see any decided adrantage in being able to give 4 grains of csrbonate of lithia instead of 8 grains of bicarbonate of potash, supposing they hare the same solvent effect on uric acid, and even Garrod does not claim so large a relative superiority as this for the lithis salts.
The diurntic effect of the bicarbonste of potash is, I think, more constant and reliable, especially when given with hot water containing a little milk, which quite conceals its taste. But when we are invited to select a mineral water for the treatment of these affections solbly and especially because it contains, say, a tenth of a grain of chlorids of lithium in a pint, in prefereace to another which contains 15 grains of bicarbonate of soda, we are runaing the risk of becoming the slaves of tashion.
Ebstein maintains that the chlorids of lithium has no solvent action on uric acid, and that if a mineral water contains the carbonate in very minute quasntities, it becomes wholly converted into chloride in the stomsch, sod is, therefore, se far as the lithium ssit is concerned, quite without efficscy.
Sir William Roberts has alse expressed some misgivings as to the supcriority of the salts of lithium as solvents of uric acid deposits.

Lecorche, while he sdmits the powerful solvent effects of the lithium salts on uric acid, states that the results of his obserrations as to their diuretic and alkalising properties wers not so marked as those of Garrod, and that he had failed to render the urine alkaline by their means. Lecorché has much to say in favour of the use of bicarbonate of soda, which he prefers, as a solvent of acid urates, to either the salts of lithis or potash. He maintains that its prolonged use in large doses is much as fer, and is better borne by patients.
"Tsken internally, it combines with the uric acid which exists in the blood in the form of an acid binurate, and forms a neutral "nrate of soda," which is much moro diffusible, and in this form it is olimi-
nated by the kidncys. He also points ont that the bicarbonate of soda, as moll as the other alkaline bicarbonates and salphates, diminish the decomposition of nitrogenised substances in the body, and that these compounds are "les médicaments par excellence de la diathese goutteuse."
The superiority of the sods compounds in dyspeptic states, in gastric and intestinal catarrhs, and in disturbance of the functions of the liver so common in the suljects of this diathesis, is admitted by Garrod himself. I am convinced from my own observations that a combination of these alkaline zalts acts often more efficaciously in removing an acid condition of the fluids than either of them alone. am fully convinced of the value of the salts of lithium in the treatment of the uric acid formation, but I by no means see the neceasity of depending exclusively upon them, as there is a tendency to do; indeed, I am convinced that in many instances of this diathesis a combination of eoda and potash salts acts better, and in some even the soda salts alone. It will be interesting to hear what has heen the experience of the eminent practitioners here present as to the relative value of these three alkalies.
It has been suggested that we have been to blame in allowing the compennds of lime and magnesia to fall into disuse in the treatment of the goaty constitution. Salts of magnesia are found in many of the mineral springs which enjoy a reputation in the treatment of this diathesis, and many gouty patients have testified to me of the great use they have found in frequently taking a dose of Gregory's powder. The startling effects produced by the Contrexéville springs, the chief constituents of which are sulphate and carbonate of lime, in some of themost seriousforms of vesical and renal calculous affections, connected with the uric acid diathesis, sbould lead us to examine and consider what may be the solvent effects of lime salts generally in these affections.

Closely connected with the use of alkalies in this diathesis is the employment of mineral waters.
Mineral Waters. -The use and efficacy of the several classes of mineral waters which have been advocated for the treatment of the goutydiathesis may well engage a share of our attention. There is one thing which strikes one forcibly in approachiug this subject, and it is that nearly every kind of mineral water that exists has been recommonded in the treatmeut of the gouty constitution. The carbonate of soda waters of Vichy, the chloride of sodium springs of Homburg, the sulphate of soda waters of Carlsbad, the lime waters of Contrexéville and Bath, the sulphur waters of Harrogate and Aix, the indifferent thermal waters of Buxten and Gastein, and even the iron waters of St. Moritz: while there are a vast namber of other springs, like those of Royat, which hase their claim to be considered as remedies for the maladies of this diathesis, upon the salts of lithium they contain.
If each of these springs, so different in composition, is of ralue in the treatment of the uric acid formation, we should, naturally, leok for certain conditions common to them all. What are these ?

1. There is the quantity of water, more or less pure, taken into the body under regulated conditions daily. I have already attempted to estimate the value of this remedy.
2. There is, in many of these spas, the altered mode of life; the regular exercise in the open air, the modified diet, the early hours, the absence of lusiness cares.
3. In many foreign spas there is the drier and botter Continental climate, and
4. The stimulating effect to excretion and "tissue cliange" which the baths, douches, frictions and manipulations applied, at most of them, induce.
These are conditions, and not unimportant ones, common to most mineral water cures ; and in the "inditferent thermal" springs which are chiefly applied to the relief of the chrouic joint affections, denosits, deformities and loss of muscular power dependent on uratic inflamnatious the thermality and modes of application of these hot surings are probably the chief operative agents. I nced only, for the purposes of this discussion, refer very briefly to the most typical examp!es of these resorts.
5. Vichy may be taken as the type of purely alkaline waters, its cbief and all-important constituent being bicarbonate of soda (also Vals, Ems, Nuenahr, Apollinaris). We have already considered the importance of dilute alkaline solutions in the treatment of uric acid conditions. Whether the small amount of arsenic contaiued in the Vichy springs has any curative iufluence, I will leave with jou to determine.

Durand Fardel, after more than forty years' experience at Vichy, satisfied himself that its springs "are extremely effeacious in gout
(regular acute gont), and absolutely curative in uric acid gravel." I gout, he says, it shonld only be employed in the intervals between th attacks. He sppeare to consider its good cffects to be attributable to the infnence of the soda in promoting a normal and regular nutritive metabolism. The water, when drank and also when taken in the form of a bath, renders the urine alkaline or greatly diminishes its acidity, according to the quantity taken. Durand Fardel denies that it exercises any debilitating influence, as was asserted by Troussean, and repeated by others, unless it is improperly and injodicioasly applied.

The cases best suited to Vichy are gouty dyspeptica, fairly vigorous, with a tendency to pass acid urine, with deposits of urates and uric acid. It is also very efficacious in promoting the evacuation of reral (uric acid) calcnli.
2. I will next refer to Carlebad, as it is one of the special resorts of the gouty. Its waters, aq you know, are hot, hut of varying temperature, and contain considerable quantities of sulphate of soda, carbonate of soda, and chloride of sodium. It is a common error to regard these waters as powerful and very "lowering" purgative springs. They are no doubt aperient, but when properly administered only gently so, and it is often found necessary at Carlsbad to add a teaspoonful of the Carlsbsd salts to the first glass of the water to ensure an action of the bowels. These springs have a remarkable action on the liver, and they have been especially utilised in the treatment of the gouty constitutions when this is associated with hepatic congestion, hærcorrhoids, and "abdominal plethora." Dr. Kraus asserts that he has found its waters "indicated in all cases of gout," and their use " attended with the most remarkable results." He apecifies, horever, those cases in which vascular and renal degenerations have set in, as well as the weak and debilitated, as requiring very careful supervision. For my own part I should not advise any regular mineral course in such cases; it is exceedingly undesirable to surcharge with water, eren for a short time, the vascular system when it is the snbject of dogeneratire changes. Dr. Kraus also states that recent gouty depositz "will generally disappear dnring or soon after the use of the Carlshad Faters, but that they have no inflnence over chronic indmrations." Ï regard the Carlsbad conrse, when accompanied as it is with the cinployment of the hot mineral or mud baths, as exceedingly valuable in promoting elimination by all the chief excretory organs of the body, akin, kidneys, and intestines, and that in this way it stimulates a complete and normal nutritive metabolism snd promotes the discharge of the waste products of imperfect metamorphosis.
3. In the next place we have the large and important gronp of springs in which the chlorides, and especially the chloride of sodiam, are the chief ingredients. Leamington in this conntry, Homburg and Kissingen on the Continent, may be taken as examples of cold springs of this class; Nauheim and Wiesbaden of hot ones. There exists some diference of opinion amongst physcians as to the precise value in uric acid conditions of these common salt waters. The hot springs of this class aré generally admitted to be valuable in chronic rheumatic cond:tions, but there is some hesitation in admitting their utility in gouty states. In the treatment of gouty articular deposits, Ebstein aud others estimate highly the hot springs of Wiesbaden, applied as baths, and also drunk hot. Ebstein quotes the experiments of Pfeiffer to show that the water of Wiesbaden greatly increases the renal excretion and the quantity of urea excreted.

Homburg and Kissingen are especially applicable to chronic dyspepsias, gastric catarrhs in gouty persons, whose gont, however, does not assume a very serious aspect. The waters are diuretic and slightly aperient; they are considered to "promote tissue change," to promote elimination, to check the terdency to obesity, and to "ward off" the more serions gouty affections.
4. The most difficnit waters to comprehend are, to my thinking, those earthy waters containing cbieffy sulphate and carbonate of hme, like the cold springs of Contrexeville. Those very "hard" waters we should scarcely be disposed to consider, at first sight, as ralu. able uic acid solvents, yet this is precisely the property that is especially claimed for these springs. I have visited personally most of the important spas of Europe, and have remarked that the springa at nearly all of them are admiuistered by the physicians who practise there in moderate and sometimes in quite snall quantities. But it is पnite otherwise at-Contreséville; hele the first thing that atruck me was the very large size of the glasses, each holding about twelve ounces, and the large uumber of glasses that many patierts were orderad to drink. As may as eighteen glasses a day are oceasionally ordered by physicians, and over-zealcus paticnts will ccessionally auld half a dozen more on their own account !

One of the oljects of passing this large quanity of fluid through the urinary paisiges is, no doubt, to mechanically dislodge and carry amay
calculous clenosits loigod in the kidnoys; and it is indeed remarkable the success which freinently attends theso effirts. But is it pessilile that this water exercises any solvent elfect on the surface of these calculi, or on uratic deposits in the systea! 1 was assured by the able physichans in practice there that in gouty porsous largo quantitios of uric acid aro secreted during, and sometimes for a long time after, the contsa is it a nece "lavage" or washing of the blood? They think not.

Another interesting point about the niso of theso sulphate of lime waters is the decidelly yurging elfect they often exercise at Contrexs. ville. This is at once apparent hy the abundant and handy prevision mate for such accidents. Is this the result of the mere overflow and passage through the iutestines of undigested water, as is maintained by practitioners at rival springs; or is it that this large quantity of water carried (when token, as it is, in the morning fasting) immediately through tho hepatic portal circulation stimulates a free secretiou of an abnulauce of thin, very tlaid bile, which acts as a quick prge when it reaches the iutestine ? or is it that both these ovents Lappon? Several patients who were trustworthy observers assured wo that their alsine ovacuations were distinctly "bilious," and not merely "watery.
1 anu not aware that our own Bath waters have over been adminis. tored coll, ior the same purpose and in the same quantity as the somerrhat similarly composed springs of Cantrexéville. I do not see Why they should not be, and ns the latter is anything but an attractive resort, I feel sure that all Euglish pationts ronld much prefer l'a ssing three weeks at Bath if they conld bo sure of obtaining the same bmount of benefit there.
5. The local treatment of gouty deposits, of gonty deformities, and gouly neuralgiss, which is often attended with such marked advan. tage at such thermal springs as Buxton, Gastein, Wilbad, Bath and Aix, owes much of its success, no doubt, to the thermality of thosz slrings, and especially to the frictions, douches, and manipulations there omployed. And in the case of the indifferent springs, the ingestion of a certain amount of warm water daily acts, no doubt, as a useful sulvent and eliminant.
G. The sulphur sprivga, as thoso of Ais and Ilarrogate, find their app:opriate application in thase numerous instances of the gouty constitation which are accompanied with enitaneous eruptions, as psoriasis and eczewas. Uriago, with thermal springs rich both in sulphur and chluride of sadiun, and with a hot and dry atmosphere, I have known prove very valuable in such cases. Harrogate, which also has springs of similar composition nod a mero bracing climate, finds one of its namervus applications in these cases.

The teeliy alkalins lithiated waters of Royat, those of BadenBaden, the arsenical and alkaline springs of La Bourtoule, the weaker cardunate of sods Waters of Ems and Neuenahr ; these and anmerous other springs may be doubtlessly advantageonsly employed in the treatment of the uric acid diathesis, in some of its various manifestations.

With respect to the use of drags simply for their purgative effects, I shonld like to say that purgatives are useful only in so far as they are the weans of ensuring the discharge of excreuentitions matters from the oystem; it would le a grave mistake in the treatment of these morbid atates to allow the alvine and hopatic excretions to remain locked up in the bowels, or, in cases of abdominal plethora and portal engorgemeut, not to tike steps to reliove that congestion; but it is equally an errer to drain away the serum of the blood by drastic purgatives after ne know that tho bowels havo boen completely emptied of excrementitious matters.
Oue uf the most conplete and satisfactory purgatives in these cases is a fill at uight consistiug of half a grain of cxtract of colchieum and 2 graius of watery extract of aloes, followed in tha morning by a large teasyroonful of Carlsbas salts in a tumblerful of hot water.
I a $n$ disposed to think if we cmploy colehicum that we rareiy re ynire to us 39 sercuriuls in the treatment of these affections.
Diuretics and diaphoretics, also, are usfful as stimulants of excection. is a diaphoretic a very liot bath with bran is a most us?ful ageut.
The use of opium should ba as much as possible aroid. $d$, because of its iuflutnce in checkiug exerctions generally.
Iu the foregoing ronarks I have endearoured to bring bofore yon moot inperfectly, I am wellaware, some of the chic [practica] consideratious in conuection with the treatment of the aric acid diathesis. The subject is itself so wide an oue that it has been nccessary to avoid, as inuils as possible, enteriag upon disputed points in pathology ; it has, howtrer, becu needful to allude to certain theoretical viers, in order to make our therapeutic discussions distinctly intelligible.

I have not attempted to treat exhaustively any of the proints upon which I have thought it necessary to tonch, my duty being to stimulate discussion by opening aud not exhansting the aeveral questions involved in thia subject.
1 may have (in the opinion of many hero present) overlooked or inadequatcly representod remedial measures which they have found of great valne. I can ouly aay we are here to learn of them, and that persenally I shall esteem myself indeed fortunato if these fow imperpeet suggestions, drawn from my own small field of observation, should be the means of opening the rich storehouses of their varied exporience and ripe wisdom for the bonefit of those who suffer and tho enlightenment of those who heal.
Professor Lithay wished at the outset to draw a sharp line of distiuction between geut and the uric acid disthesis. The latter could exist and show itself in various waya without developing gout, as in gravel, calculus, etc. For the development of gout there must be first the uric acid diathesis, and then ancibor diathesis superimposed, so to speak, upon it for the uric acid to act upon. He weuld leavo gout out of the question, and confine bis remarks to the treatment of the uric acid diathesis alone. Dr. Burney Yeo had stated that an appeal to the therapeutic effects of remedies was, perhaps, the best mode of settling the theory as to the formation of uric acid, and, if time permitted, he thought he could show that the action and effects of all the remedies to whieh Dr. Burney Y'eo had referred in his mest ex. haustive and interesting paper wonld lend support to the view of uric acid formation which he (the speaker) wished to bring forward in order to arrive at proper data for the treatment of the uric acid diathesis, it must in each individual ease be dotermined whether the excessive formation of the acid was due (1) to imperfect metabolism in the muscular tissue, or (2) to imperfect metabolism in the liver, and (3) not the least inipertant, a clear conception must be formed as to the constitution and formation of the acid itself. If we were guided by the "teaching of experience," we found the saying "to live on sixpence ${ }^{3}$ day and earn it" summarised, thongh in an exaggerated form, the pith of that teaching. The following dogma came very near the truth. There must be moderation in all thing9. Moderato exercise, moderation in diet, and moderation in nervous expenditure, which last included mental work, worry, griof, or anriety. These were the first rulos to be laid down, and if they conld be enforced, then we could turn to certain drugs which would materially help us, if necessary, to lessen the excessive formation of the acid, or to promote its elimination. But he would first ask, would scientific investigation help us to understand why this moderation in all things was so essential? He thought it would; and this led him to say a very few words as to the mode of formation of uric acid in the system. It must be bornc in mind that, in the tissues and glandular organs, assimilation and construction were going on simultancously with disintegration and destruction. His view of uric acid formation was that it resulted not from destructivo but from constructive metabolism. Let a man be given a dose of benzoic acid, and on examining his urine some little time afterwards, it Fill be found to contain hippuric acid; that is to say, the benzoin acid had not been destroyed, but had combined in its passage through the system with glycocin-a normal constituent of the bile, and which, in the ordiuary ecurse of things, gave rise to urea-forming thus a more complex substance. Now, let uric acid bo analysed, and it may wo split up into nres and a number of ather substancos, and by one mode of disintegration it was split up into glycocin, carbonic acid, and ammonia, the two last leing derived from urea. Let the process be reversed : let glycocin and benzoic acid be put into a tube and heated ; hippuric acid was formed. Let glycocin and urea be put into a tube and heated; bydantoic acid was first formed, and then uric acid. [Crystals of this substanco which Professor Latham had produced in this way were slown under the microscope.] He argued from these dats that it was either excessive formation of glseocin in tho muscular tissue, due to imperfect metabolism, from insufficient the glycocin that was lironght to it oity of the liver to transform all duced as food ina was lronght to it oither [rotn the tissues or introuric acid. For the arguments on canal, that led to the formation of
and his loctures in the Britisn Medicar lompnar for Apriter them to since published in a separate forim. The treat for April, 1886, and diathesis resolved itself juto this: to diminish in all ways the a acil of glycocin bronght to the liver, and to promote the function of the liver, so that the normal assimilation of this substance should not be inturfered with. By moderate muscular exercise the glycocin in the tissues underwent its proper metabolism. If horses were kopt in the stable, their urine containcd hippuric acid; if at work, bonzoic acid
only was to be found. In some way or other the glycocin was nsed up, and so theory confirmed practice in advising moderate exercise. If the patient was unsble to move, shampooing or massage might be substitnted, and perhaps also the occasional use of warm baths might be useful. If the function of the liver was impaired, then, just as in diabetes as little starchy food as possible should be given, so in the nric acid diathesis as littlo nitrogenous food as possible should be given, but sufficient for the wants of the system should be given, and especially food rich in glycocin, such as jellies, soups mado from bones, etc., should be avoided, and all articles of food or drink which, given in excess, might lead to hepatic congestion, should also be avoided. In addition, such remedies as would promote the digestion and assimilation of the food, such as the vegetable bitters, gentian, etc., should be administered; and it shonld be borne in mind that the fanction of the liver might be imperfectly performed, either from exhaustion of the liver-cells by overwork or from exhaustion of the nervous system. Nervous exhaustion, shock, worry, or anxiety would put a stop to the action of the liver, and interfere with the proper metabolism of the substances conveyed to it, and thus moderation in nervous expenditure became a factor in the treatment of the diathesis in question. If, after carrying out these snggestions, the formation of uric acid was still in excess, then its formation might be lessened by an occasionsl dose of calomel, which, causing bilious evacuations, carried off the glycocin in the bile. Gregory's powder and the mineral waters, to which Dr. Yeo had referred, acted beneficiall ${ }^{\circ}$ for the same reason. Further, by the administration of benzoates or salicylates, both of which combined with glycocin and were excreted in the urine, the formation of uric acid was lessened, and, if formed still in excess, its solntion and elimination would be promoted by the administration of the alkalies, or their citrates, or carbonates, or iodides. Taking this riew of the formation of nric acid, the questions as to the use of alcohol, sugar, or fatty food must be answered according to the special conditions of each individual case. Dr. Myrtle (Harrogate) said there could be no douht that there was a uric acid diathesis, and without attempting to offer any explanstion as to its cause, as a practical man he would take it for granted that certain individuals formed this acid in great excess, or were incap. able of eliminating the normal quantity, which led to its retention in the system and the development of that class of disease spoken of by Dr. Yeo. Ho agreed with Dr. Yoo that gout was not merely due to uric acid, but something independent of it. He advocated the use of glycerine instead of sugar in "those showing a disposition to acidity. He disagreed with Dr. Yeo, in condemning light clarets, and held that those suffering from uric acid and gout should know how to live without requiring the phrsician to tell them what they were to est, drink, or avoid. Hं pointed out the advantages of a dry climate and abundance of sunshine, condemned the use of colchicum in acute gont, or in fact any active treatment during its early stages. As to the amount of Contrexévillo water drunk-ten or twelve ounces daily-that should be able to wash out anything it met with. He referred to the extraordinary fact that natural mineral springs of the most opposite character as to constitnents and everything else, were found in similar cases to produce the same good results, and called attention to the fact that if patients went to any of these spas with latent gout, they very soon had acute gout developed, showing that mineral waters rere not to bs trifled witb, and that medical men should be careful how they acted iu giving advice to those resorting to such spas. As to Dr. Yeo's statement that women wera seldom the subjects of gout, he entirely differed, as in his experience women without any gonty history of ten were the victims of severe and intractable attacks, brought on by grief, anxiety, and overwhelming sorrow. Without doubt these were cases of a neurotic order, as they most frequently appeared in constitutions known as lighly sensitive, and in subjects who led most regular, abstemious, and active livcs.-Dr. Spender (Bath) urged that in the treatment of the uric acid diathesis there should he a fow distinct landmarks for our guidance, such as these: the quan. tity of excretable uric acid and urea ought to be fully maintained; the excretion should bo hastened ; and the volume of urine increased as far as possible. Touching upon remedies which had not been alluded to by previous speakers, he oulogised phosphate of ammonia, which had been introduced by the late Dr. Basham in 1872 as a remedy for saccharine diabetes; and he (Dr. Spender) had found it equally valuable for the glycosuric atorms which alternated with gout. The chloride of ammouium had a wide range of utility, and must bo taken in doses of half a drachm three or four times a day, as Dr. Ringer advised, if we were to treat successfully such neural troubles as gouty lumbsgo, and sciatica. The valoe of lithium (though perhaps over-rated) was undoubtedly great, because it increased the
volume of urine, lessened its acidity, and favoured the elimination of the products, which it dissolved in the blood. Lime, ss administered in the form of the Bath thermal waters, had a good effect, both in gout and rheumatism, by increasing the alkslinity of the blood, though having no alkalising effect on the urine. With regard to diet, Dr. Spender insisted on the occasional necessity of entire abstinence from butchers' mest for a few weeks at a time. The action of the skin was best solicited and maintained hy daily anonging with very hot water, preferably in the morning. The great therapentic and hygienic points seemcd to be to keep np a regular metabolic action of the system, by supporting the power of the heart and releasing the nervons syotem from all unfair pressurc. In this way we might sometimes abolish the so-called uric acid diathesis by not thinking about it at all, but by thoroughly establishing and strengthening the general health.-Dr. Milaer Fothergill said that, in adopting the term "uric acid diathesis," Dr. Yeo had used a judicious expreasion. "Gout" and "chronic Bright's disease," the children, often the twin progeny, of that great vaso-rensl change which was the ontcome of the uric acid formation, were terms rapidly losing their original meaning. The uric acid formation was dne to inadeqnacy in the liver, no matter how brought about, in consequence of which its formation of nrea was imperfect, and it reverted to the earlier primitive uric acid formation of the birds and reptiles. This came about in two totally different ways. We were all familiar with tha typical gout affecting the hands and feet in robust persons, and due to indnlgence in albuminoid food beyond the needs of the system. This was known as "rich man's gont." But there was also "poor man's gont" occurring in spare persons, never guilty of diotetic excess. In such persons the liver was either congenitally feeble, or, as Drs. Budd and Murchison termed it, "insufficient," or was impaired by some disease. In the latter instance, the liver reverted to the early uric acid formation under perfectly ordinary, or even slight, demands, upon it. In dealiug with lithiasis, or the uric acid formation, there mere several lines of attack, which might be adopted singly; but nsually it was well to employ a combination of these messures. The first was to reduce the albuminoid elements of the food to the requirements of the body. These included eggs, the lean of the larger animals, and, to a less degree, cheese and legumes. By this dietetic regimen the labour of the liver in the matter of the metabolism of albuminoids was greatly eased. In other words this was giving the organ physiological rest-that is, such rest as was possible. The dietary should consist of fish, farinaceous mattcrs, fruits, regetables, and fat in all forms-animal fat, butter, and oil. By so doing the liver was rested as regards albumen metamornhosis. This line of attack could be adopted in all cases with advantage, bearing in mind that it was never well to lower the snbjects of the uric acid formation too far. The next line of treatment could also he adopted in all cases. It consisted of an attempt to raise the incompetent liver to a higher platform of functional activity by resort to hepatic stinulants. For prolonged use a compound of strychnine and ipecacuanha as the two bases, with some taraxacum or euonymin, iridin, etc., to which might be added some podophyllin, or other lazative also having an action upon the liver, when some such agent was indicated, which was very commonly. In addition to this medication, some sulphate or phosphate of sods might be taken with adrantage. At intervals a mercurial pill at bedtime, with a seidlitz powder next morning, would he fonnd beneficial. These two lines of attack gare good results in all cases. Then followed the resort to the uric acid solvents-lithia and potash. These rendered the insoluble urstes of soda and ammonia soluble by taking the place of the latter bascs. As urates of lithia or of potash, uric acid was comparatively soluble, and so readily escaped by the urinary channels. The chronic interstitial uephritis (otherwise Eright's disease) found so constantly in connection with lithiasis (the granular, contracted, or gouts kidney) was set up by the irritant presence of cxcess of uric acid passing throngh kidneys constructed to cast out a fluid urine. By the conversion of the original urates into the comparatively highly soluble urates of potash and lithia snch injury to ile kidney was minimised. These nric acid solvents were best borne by stout, florid people of the Norsemsn typc, bat were very depressant with spare persons of the Arab or nenrotic type, with comparatively large heads and thin flanks. leyond these, there mas a fourth line of attack, namely, plenty of oxygen. Bence Jones held lithissis to be a disease of sub-oxidation. Certainly uric acid was less highly oxidised than urea. A great deal of the uric acid formation of town life was due to the lack of fresh air and exercise. Of old, after a substantial breakfast, the ester tarned out for work or exercise in the open air. His modern desccndant, after a substantial meat breakfast, commonly went to his office or counting-honse, where he stayed inactive, at a
temperature of $70^{\circ} \mathrm{F}$., with a rebreathed sir., Cuuld wo feel surprised if his liver, under these circumstances, roverted to tho uric acid formation of the lethargic Ichthyosaurian in his tropiesl swamp? In such cazes of lithiasis or uric acid formation, horseback exorcise in tho conntry was tho cure par excollence. Freqnently a stay at some hydropathio estabishment was attonded by the best results. There remainal one more line of attack, namely, the resort to colchicum. Xo oue who had had personal experience of tho pains of gout haid auy lonbt sbout the snalgesic effects of colchicum. The easo it gave was simply magical. At tho asme time, no snliferer from, gout in the posession of his sonses would resort rashly or rocklessly to this potent pxin-killer. Infinitely worse was the resort to colchicum to rard off threatening attacks of gout. Whon the liver manifested a tendeney to revert to the uric acid formation, no matter how brought about or in what form or morbid manifestation, the management of the case iurolvod knowledge, thought, discrimination, snd the capacity to adapt concrete measuros to the wauts and exigencies of the indiridunl. -Dr. Bursey leo, in reply, congratulated the Association on having elicited from those who had taken part in tho discussiou such valnablo remarks as they had heard on this practical sohject. He thought that the view taken by Dr. Latham that tho changes were constrnctive rather than destruotive was negatived by the jact that so many sufferers from this disthesis showed no signs of defective nutrition, uutil degenerative arterial changes had been establisheui. He had tound colchicum, in small and careful doses, exceedingly valusble in the treatment of those neurotic sffections connected with this dis thesis. He protested sgainst the ase of opium or morphine in scnto gont. He considered it was not good prsetiee or good theory to give a drag which arrested secretion in a malady which was one of defective excretion. He thought it most interesting to learn that uric acid had been detected in the secretion of the skin.

## REMARKS ON A CASE OF ACUTE INTESTINAL OBSTRUCTION DUE TO THE PRESENCE OF A MECKEL'S DIVERTICULUM, SUCCESSFULLY treated by laparotomy.

## Br A. F. McGILL, F.R.C.S ,

Professor ef Surgery in the Vorkshire College, and Surgeon to the Leeds Infirmary.

Os. March 5th, 1857, I sas, in consultation with Dr. Glaister, of Rothwell. a collier, ajed 30 , who had heen snffering from complete intestinal obetruction for nine chys. We learnt that while nt work on Februsry 25th be was suddenly seized with severe abdiominal pain; he walked home, and on taking a glass of water immediately vomited. From that time he passed neither fecal mattor nor flatus from the bowel, and vomited everything that he took by the month. The synptems were not of the severest type, as he hail long intervals in which be was free from pain and sickness; vomiting was, however, indnced by every attempt to take food. His abdomen grailually increased in size, and his genersl condition much deteriorated. He was trested in the osunl manner, chiefly by opium and large injections. When I ssw hiun the abdomen was immeosely distender, snd numerous coils of intestines were distinctly risıble. He was in a feeble and almost moribund condition, extremely wasted, and with s quick thready palse. The case was apparently one of intestinal ohstrnction, sitnated in the small iutestine, zud due to some mechanical ennae. We arvised his remoral to the Ieculs Infirmary, where I operated the samo evening. Tho operation is described as follows in the Infirmsry notes:
"The patient being plared under chloroform, the rectnm was first examined, with a negative result. The skin of tho abdomen haring betn thoronghly cleansed, an incision was made in the medisu lioe, extending from a point ono inch ahove tho symplys sis pubis upwarde for three inches. The peritoneal cavity was openell, and a small amonnt of clear serum escaped. Through the openiug tho right hand of the operator was passed into the abdomen, and its eavity mas thoroughly explored. As nothing to account for the otstruction was found, the incision was enlargel npwards for an ineh or more. The intestines wero then aflowed to rseaple; when about three feet had escaped irom the peritoneal cavity, the junction of the distended and empty intestipe was scen. At this po:nt a Meckel's diverticulan, much ditated and abont six inches in length, was seen, passiog downwards and forwards, to be attached to the fundus of tho bladder. A loop of collapsed intestine pessed under the diverticulum, the obstruction beiog cansed hy the twisting of the bowel at the point where the divericulizm was etta bel. The loopslipled from undor the diverti
culum with alight traction, and the distended portion could he seen emptying itself into the pait proviousiy emptr. The intestines with much dilliculty were roturned iuto the sbdominal cavity, aud tho wound closed with silk sutnres.
The patieut passod a small amount of flatus during the night, and was some what relieved the next morning. Duriug the day he becamo worse, and the vomiting returned. As tho passage of thatus had entirely ceased, and tho sbdonen was very large and distended, a saline purgative (Rochelle sall) was given. A large quantity of flatus was passed, snd the patient's condition mnch improved. IIe went on perfectly mell till the teuth day, when a small amount of fuid fecal materiai esesped from the upper corner of the wound. This continued tor a fortnight, when the dischargo ceased, the wound rapidly besled, and bo left the hospital perfectly well.
Sevrral points in this case cull for remark.

1. The attachment of the diverticulum to the fundus of the bladder has not, so far as I know, been hitherto described.
2. The obstruction was due to the twisting of the bowel at the point of attachment of the diverticulum, and not to compression of the gut under this band. In this case the diverticulum was a csuse of volvulue, which in its turn was the cause of the obstruction.
3. The treatment by lsparotomy does not now require to be defended, but the mode of operating is not ra yet quite deterniued. accordiug to Mr. Treves the method adopted in this case should be condemned. In his own words, "the practice of allowing the bowels to escapa is absolntely bad." It is no donbt, when practicable, preferable to operate without permitting the bowels to escape, the shoek of the operation being thus unch diminished.
In a case under the care of my colleague, Dr. Churton, I operated in this manner. A middle-aged woman had suffored from acute symptoms of intestinal obstruction for fire days. Having opened the abdomen, 1 was fortunate enough to immedistely find a firm fibrous band, which was the cause of the obstruetion. This 1 divided with scissors, and strsightway closed the abdomen. The patient had not a bad symptom, and left the hospital in a fortnight well.
But in many cases it is inpossible thas easily to discovor the causo of the obstruction, and then the surgeon should not hesitate to allow the intestines to leave the abdominal carity. The dangor of the operation is no doubt increased, but we are simost gure not to leave a remediable canse undiscovered. This happened to me about two years aqo ; I failed during operation to find a Meckel's divertioulum, which had caused obstruction for five days, and the patient, a boy of 15 , conseqnently died. We may occasionally find the cause of obstruction by intra-sbdominal examination, but in tho majority of cases this method is ineffectual, and the intestines must be allored to escape.

A second point connected with the operstive treatment of this case is the leaving the diverticulnm untouched. It might appear at first sight advisablo to divide it and sew up the divided end. This would have taken sone considerable time, and the prolonged operation niglit have caused a fatal result. It appears to me to be preferable to leave the diverticulum in position, even though this exposes the patient to the riek of mnother attack of obstruction.
4. No opiunı was given, but a saline purge was administered witb apparent adrantage. The administration of opium ss a routine measure after abdomiual operstions is, in my opinion, much to be deprecatcd. It scldom does good to tho patient, and it lulls the surgaon into a fa!se feeling of security. Unless called for by severe pain, opiates should not be given. In this case the administration of a purgative, which immedistely caused the expnlsion of a large smount of flatus, did much good, and apprareutly turned the scale in fayour of recovery:
5. This case mell exemplifes the great difficulty with which the abdomen is closed in operations for conditions associated with excerssive intestinal distension. Thongh every care was takeu to prevent suelh an accilent, it is evident that a small portion of the intestional wall was ezught in the upper angle of the wonnd. The fi-tula thus formed
anoas elosed, and, berond ano closed, and, beyond delay iu healing, little harn was doue. In mnother caso we night not have been so fortunato. It has been anggested that in some of these cases it may be advisable to evacuate a portion of the intesinal coutents throurl a swall incision in tho ictestinal wall. The increased severity of the operstion and the 1 isk
of sertic infection of the peritoneum seem to contraine - inction of the peritoneum seem to contra-indicate this nrothe abdomen have failed.

Supreannuation.-Mr. Alexander TV. McLeod, late medical officer for No. 1 district of the Fulham Union has obtained a supersnouation allowauce of $£ 35$ ןer sautur.

## TREATMENT OF THE PAROKYSM OF MIGRALNE BY ACIDS.

By A. HAIG, M. B. Oxon., M.I.C.P.,
Physician to the Royal IIospital for Women and Children, Waterloo Roal; Assistant Physician to the Metropolitar Hospital.
Is a paper read at the Royal Medical and Chirurgical Society in May, 1897, and published in the Transactions (rol. 1xx), I showed that a certain form of headache was closely connected in time with a large excretion of aric acid; and in a subsequent paper in the Juarrnal of Physiology, Yol. viii, Nos. 3 and 4, I shorred that within certain limits it was possible to diminish almost at pleasure the excretion of uric acid by giving acids, or to increase it at pleasure by giving alkalies ; and further, in a recent paper for the St. Exrtholomew's Hospital Reporls, I have given notes of some cases of the above head. ache which had come under my notice, calliag it "the uric acid headache," with the object of draming attention to the extremely important part which uric acid plays, as I believe, in its causation; but I may say at once that I have very little doubt, and those who read my cases in the Reports will, I think, agree with me that this headache is really a member of the class commonly known as "migraine or sick headache."
Mry object here is not to discuss the mauy interesting points in the etiology and pathology of this headache and its related diseases, hut to noint out as quickly as possible a mode of treatment of the paroxysms, which is the direct outcome of my uric acil investigations, especially those ia the Journal of Physiology, and which has met with such complete success in my own hands that I am anxious that it should be tried by others on a larger scale.
It will be seen that I have showa in the above papers that, during this headache, uric acid is excreted in excess in the urine, and prolably also exists in excess in the blood, and further that it is quite possible to stop this excess iu the urine, and also 1 believe in the blood, by means of acids, and it is to this treatment of the leadache paroxysm by acids that I now wish to dram attention.

The acil used is not of much consequence ; citric or nitro-hydrochloric are equally good; the only point is that the dose must be .sufficiently large, especially if, as is often the case, the headache is going on duriog the "alkaline tide" of digestion. A dose I commonly fiad successful is forty to sixty minims of diluta aitro-bydrocbloric acid in a tumbler of water, one balf to be taken at once, and the rest in thirty or forty minutes; the headache is generally much better within an hour, and quite gone within an hour and a half from the first dose. If the urine is alkaline, or very slightly acid before this treatment is begun, or if the patient has previously been taking alkaLies, a third dose of twenty minims of the acid may be necessary; but I rarely have to go beyonl one drachm of nitro-hydrochloric acid, and I have given some notes in the Journal of Physiolegy of the affects of such a dose on the uric asid excretion. An equivalent dose of citric acid, takea as strong lemoaade, will do as well, or, so far as I know, of any acid that may be preferred, provided it raises the acidity of the urine. It is also possible to reverse the process, and, by giving alkalies, to briag the headache on or increase it.

The above refers eatirely to the treatment of the paroxysm; a ditt without butcher's meat, beer, wine, etc., is, as I have said in previous papers (Practitioner, August, 1884, aud March, 1886) the best preventive treatmeat.

If acids, properly aud carefully given as above, completely fail to reliere, the headache is not migraiae, or at least not migraine due to uric acid; and if the urine he tested in the way I hare described, probably no uric acid rise will be found corresponding to the headache. Eatarge numbor of drugs reported to be useful in migraine really act as acids, increasiug the scidity of the uriue and diminish. ing the excretion of uric acil. Some others probably act like the bromides by quieting the nerre centres, and preventing their reacting to the irritant in the blood; but as compared with bromides, the treatment by acids is more satisfactory in that it removes the irritant from the blood, and leaves the nerve centres intact for other processes.
Bequests and Donations. - Mr. Natheaiel Moatefiore has given £1,500 towards the rebuildiag of Uaiversity College Hospital, namely, £1,000 for Mrs. Nathaniel Moatefiore, and £500 for Mr. Claude G. Montefiore, Mirs. Alice Lucas, and Mrs. Charles McIver, -The Sussex County Hospital, Brighton, has received $£ 500$ under the will of Mrs. Stanford ; and 50 guineas from Messrs. Findlater, Mackie, and Co.

## SUCCESSFUL CASE OF EXTIRPATION OF THE KIDNEY FOR HYDRONEPHROSIS. <br> By Walter fell, M. B. Oxon., Wellington, New Zealand.

The patient, Mrs. T., was aged 31. She had had six children, of whom three were liviag. The catamenia were regular, bat she had alwass been somewhat delicate. I first saw her in June, 1886, when she complained of periodic attacks of intense pain in the right lumbar and hypochoadriac regions. On examination a hard, freely movable body, about the size and shape of a kidney, was found in the right flank just below the last rib; it conld he pushed formard nearly to the ambilicus. The diagnosis of movable kidney was made, aad she was recommended a pad and bandage to keep it in place.

At my second visit, three months afterwards, on September Ist, she told me she had siffered intolerable pain, and that the attacks were becoming mach more frequeat. She had jast gone through two days of intense suffering, with incessant retching and romiting; the least exertion secmed to bring on an attack. She was thinger, and looked much worn. There was no rise of temperature; the uriae ras clear aad pale, with no albumen. On examining the abdomen, the same morable tumour could be felt as before, but now it was much larger, and came forward as far as the ambilicus, while the anterior part fluctaated. The ateras was pnshed forward, sand its length was normal, and was unconnected with the tamour, which also appeared to be quite separate from the liver. Au operation was recommended, to which she at once consented.
Oa the next day but one, on seeing the patient again, I found her langhing and free from pain, and on examining the abdomen the tomour had disappeared ; the kidney conld atill be felt a little in front of its usaal position, bat the fluctuating swelling reaching to the umbilicus was completely gone, and this she told me was always the case: "Whon the pain was bad the lu np was there ; when the lump went away she was as well as ever again." The obvions explanation appeared to be that the ureter got blocked for some reason or other, the pelvis of the kidney enormonsly dilated, pain and vomiting fol. lowed, only to be relieved by the obstraction yielding and the tamour emptying itself. I could not get any distinct history of excessive flow of arine at these times, bat she thought a good deal was always passed then. There was Dever any blood in the urine. It seemed to me that, during the paroxysms of pain, she ran considerable risk of rupture of the thinned and dilated pelvis of the kidney; so on September 5th, assisted by Dr. Collins and Dr. Rawson, I preceeded to operste. The spray and fall antiseptic precautions were used.
An incision about four inches long was made in the position for right lumbar colotomy, but carried a little more forward than nsnal. On getting through the abdominal walls, the first thing that came into view was the edge of the liver, and immediately below this the kidaey. On passiag the hand cantiously forwards towards the ambilicns, a large bag containing flaid was made out : it was evidently a part of the kidaey, and pressure on it reduced its bulk somewhat. The cyst being thus partially emptied, a finger could, by invaginating it, get iato the centre of the kidaey ; so that, with the thumb ontside, it was possible to make out that the substance of the kidney proper was much redaced. The kidaey mss, in fact, being slowly converted into a large cyst. After a brief consnltation it mas decided that the kidney was useless and a source of davger, and had better be remored. Accordingly, as it was bound dowa tight'y by its lower snrface, I cut into and stripped off the capsule, which was adherent in parts, sud shelled out the kidney ; and then, gerting my fingers beyond the cystic part, with some difficalty teariag away a lot of loose areolar tissue, I was able to get hold of the large miss of vesselsareter, conuective tissue, and neseatery-which constituted the pedicle, and transfix it and tie it in three portions. After removing the tumour, smart bleeding took place from some uusecared ressel in the upper part of the wound and deep inside. Oaly a few seconds elapsed before the artery mas secured, but the liss of blood was saffi. cient to cause an alarmiag condition of collapse. A stort double silk from the centre of round a mass ncarly as large as three fingers, securely centre of which the bleeding came. The whole was tied securely, and the ends of the ligature cut off short. The wound was
then spoaged and rapidly closed with five deep and three supe thou spoaged and rapidly closed with five deep and threo superficial optration, from iodoform gauze dreasings were applied. The whole a resthetic, occupied an hour and a half,
The subsequent history is soon told. Recovery was rapid aud ouintermpted. The temperature once rose to $100^{\circ}$, bat never excoesed this point. On the trenty-second day the patient was sitting ip in
a rhair, lookiog stonter and better than aho did before the operation. She is now, after an iuterval of eight months, going about in good health, the oue kiduey appareatly sutliciog to do all the work. Ou examiniog the kidney that was remerid, the uretcr appearel, at the spot where it left the pelvis of the kiducy, te be intensely in. llamed, the macous membrano beigg highly congested. Whether this was the canse or the result of the olstruction I am unable to say. The case appears to me to bo of interest as beiag oun where a functionally active kiducy, osprable of and actually engaged in doing a largo ahare of the excretory werk, was suddenly removed withont in any way apparently allocting the general health, most of the cases I have secil reported having been of the removal of a kidney which, from long suppuration or other canse, had ceased to be anything but a mere nominis umbra.

## CLINIGAL MEMORANDA

## A CASE OF ACUTE TRIUMATIC TETANUS, SUCCESSFULLY TREATED BY LARGE DOSES OF SALICIN AND Bl:OMIIDF OF FOTASSIUM.

Notes of the followigg case have been sent me by my old pupil, Mr. E. Tharlow Prior, of Leldon, Norfolk. I quite agre with him in thinking that the case is one of interest, and that the treatment merits a further trial.
A. M., agorl 20 , a young man of rather intemperate habits, cut his arm severcly on June 30 th, $185 \%$, by thrusting his band through a mindow. The wound appeared to be making good progress unill July 15 th, whea he complained of pain in the epigastrium. In the course of the day his face begau to stiffen, and there were tritches of the muscles of the face and of the back and legs. Theso grew worse until July 19th, when Mr. Prior was first called to see the pationt. At this time the risus sardouicus was well marked, and spasm was olicited by speaking aharply or loudly to bin. IIe was placed in a warm room, which was fitted with carpots and curtains to deaden aoual, asulf full doses of chloral hydrate and bromide of patassium were alministered. Bat he grow worse ; the breathing became laboured, the pulse very rapid. On July 22nd he appeared to be actually dying ; the respirations and pulse could not be counted, and apasme recurred with estreme rapidity.

At 1 P. M. a draught was given of salicin gr. xx, patassiam bromide gr. xx, every tro hours. At 5 p.as, the spasms occurred only at intervals of ten miuntes, the pulse was stronger and numbered 120, and severe perspirations had set in. On the following morning, July 23 rd, the intervals between the apasms had increasel to twenty minutes; he breathed casily, aud the pulse was still strenger and less rapid. The draght was now ordered to bo taken every four hours. The improvemont continued during the next two or three days, but several days elapsed befere the was free from pain in the epigastrinm, and for nearly a fortnight it was neceasary to draw off his urine. At the end of six weeks ho was couvalescent. The only tronble which remains is the stiffiess of the muscles of the upper extrenity, due to the direct effect of the injury.

The rapidity with whic improvement followed the administration of salicin and bromide of potasyium leaves scarcely a doubt iu the mind that the change in the ceuditiou of the patient wuat be attributed to the action of tho medicines. It is, of course, difficult to assign to each drug its actual share in the cure. The imprevement was marked by the oceurrence of a profuce sweat, and this had probably aomething (perhaps mnch) to do with the recovery of the patient. The influeuce of the salicin was, perhaps, exerted on the vasomator centre, and its action as a cermicide mnst not be left out of the account. It is to be obacrved that the ense was one of acnte tetanus, but uot of tho most acnto variety, for the patient was not in imainent peril until the eighth day of the diseasc.

Dleney T. Eutllas.
Harley Street, W.

## A CASE OF UNTREATED PSORIASIA OF FOURTEEN YEARS DURATION, ACCOMPANIED BY CORNS ON THE <br> Palisi of both hands.

Is Mr. IIatchinson's paper upoz Arsenic Cancer, reported in the Joernal for December 10th, geveral cases of psoriasis are describod, in which, after s prolenged course of arsenic, corns appoared on the palms of the hands. In connection with the repert of these cases the following instance of psoriasis entirely antrested, but yet accompanted IF enmy, is of interest.
W. W.., aged 52, a butcher hy occunation, came under trestment a fer weeks ago for romiting and beadache. He is at present the sub.
jeet ef uumistakable psoriasis, and ho has bad his present akin affection for about fourteen jears. The patches of psoriasis, however, have never troubled lim enough to make him take any steps towards its cure, but ho is a good deal concerned about a crop of amall cerns which hare lately (ho saya) made their appearanco on both yalms. Thoy aro seattored indiseriminately over the palms and ilexer surfaces ef fiagers nal thumbs. Near the tipe of some of the fingers they are auficiontly ummerens te thicken the ekin and make the fingera feel uumb. In many places he has picked tho skin, and produced a roughened pittad surface. There are no aigns of ulceration on either hand. There is no reddened skin, and there are no cracks or lissares, or warts. The akin on the soles of the feet is matural, except for some large corns, evidently of pressure origin. The skin over the rest of the body is, excepting for pseriasis patches, quite healthy. There is no history of ayphilia, and ne evidence of it, and no enlarged or hardened glands are anywhere to be felt.

## Barnet, IIerts.

W. A. Fox, L.R.C.S., L.M.Edin.,

## RELAPSING COMA DUE TO TUBERCULOSIS.

J. J., a groom, aged 20 , was admitted into the Qucen'a Hospital on December 3 rd in a state of coma. The family history was said to be good, there beigg no account of any hereditary disease. The patient hau been steady, and had had no illuess except slight bronchitis three mouths and erysipelas of the head and face six reeks previous to his present illness.
On November 27th, he first complained of great pain in the head, bot he had ne romiting. The pain gradually became werse, until in a ferw days he became uncenscious. On admission, the patient was found to bo emaciated, the abdomen was retracted, he could not be roused, and be passed bis urine and faces involuntarily. The palse W8s i2 per minute, and regular; the temperature was subnormal ; the plantar retlex aud kneo.jerk were absent on both sides; the urine ceutained a cloud of albumen; the patient's head and ejes were turned te the right, and he could not move his left arm ; the coajnnctival reflex mas lost on the left side; the margin of the optic discs was clear, except where the pessels emerged, iu which situations it mas indistinct ; tho veins were full and tertuous.

On December 7 th, the patient was conscions, could repls to questions, and talked with his friends. The knee.jerk was present on both sides; the grasp of the left band was much wasker than that of the right. On December 8th, the pationt was again comatose; the next day, lonever, he could be ronsed, and auswered questions sensibly. Towards the evening of December 9tb, he again became comatose, the knee-jerk heing again lost. He remained thas till Decomber 16 th, when he died. He moaned a great deal while comatose. On the day of his death coarse rilcs were heard over the chest but there was never any dyspncea or impertant physical signs. The palso remaived regular and the tomperature subnormal throughont, At the necropsy the lungs were fonnd to bo infiltrated with 'miliary tubercles, aud trabercles with a slight degree of maningitis were found at the base of the brain. The kidneys were healthy.

The intercsting features of the caso are: I. The reell-marked remittent charaster of the cema, which was very striking. 2. The absenco of ferer, the tomperatare, in fact, being subnermal thronghont. S. The absence of alterations in the pulse or in the breathing, although the lungs were fnll of miliary tubercle. 4. The loss of the kuee-jerk during the stage of cema, with its reappearance daring conscieusness. The emaciation and the retraction of the abdomen painted to tuberculosis, bnt the absence of fever and the sudden onset of the illness preventod the diagnosis being a pesitive ono. In cases of coma withont fever tuberculosis must be borne in mind as a possible cause.

Birmingham.
C. W. Sucklinc, M.D.Lond., M.R.C.P.
()J'TTMALAOL_)GICAL MEMOORANDA.

## CUCAINE IN SQUINT OPERATIONS.

In the Journal for Decemher 10th, Mr. Edgar Erewne deacribes a now strabismus hook, which is also an injection syringe, and which can therefore water its own path with cucaine. In the number for Ducember 2.th, Mr. Lloyd Owan points out that it is desirable to sunecthotise the tissucs lefore introdneing the hook; be opens the cenjunctiva, etc., with the scissore in the usual way, and then, with a Tipette, intreduces a for minims of cucaine solntion bencath them. The tendon is divided two or three minutes later.
I desire to mention anotber plan which answers extremely well, and
by which the cncaine is retained in contact with the tissues to be divided more effectually; I think, than by the foregoing. Tho conjunctiva being ancesthetised, and the lids drawn apart by the fingera of the assiatant, I pick up the conjunctiva over the insertion of the tendon, and, with sn ordinary hypodermic syringe, introduced from before backwarda parallel with the tendon, ioject two or three minims of the solution. The fluid, unable to escape, forma a bleb just where it is wanted. A few minutes later, the specnlum is introduced, and the operation performel in the usual manver, in most cases withont pais.

Now that the British Pharmacopreia has ordained thst the neme of the drug in question shall be cocaine and not cucaine, would it not be well, in spite of some reasons to the contrary, to ahide by that decision, especially as cocaine is the name which is known in other countries?

Priestlex Suith.
Birmiogham.

## THER.IPEUTIC MEMORANDA.

## ANTIPYRIN IN MIGRANE.

SLNCE first snggesting, in July last, the extended use of antipyrin in sick headaches, I am glad to see it is gaining ground. I would sng gest for convenience and portability the use of Burroughs and Well. come's dainty little tabloids of the pure drug. I find some cases re quire larger doses than the cight grains (hourly repeated) which I frst recommended, aud that double that quantity will theu be effectual. It causes in some slight constipation, but it is notable that, if it is taken in conjunction with a usual purgative dose, the latter will act in due course during a seizure, while without it almost any article of food or medicine will only make matters worse. Some light food should almays be taken as soon as the headache is dissipated.

For such as are unable to leave home of enjoy travel, to go in to crowded rooms, or to venture on certain articles of food and drink, or even medicinal tonics, there is in autipyrin (at no time incompatible) a promise of immouity from the ususlly dreaded headache which may follow next morning, if not zooner. Its timely exhibition will arert, in most cases effectually, that universal lethargy of function snd disturbance of the secretions which are the characteristics of the seizure, and keeps the pylorus relaxed for free communication. Already an established sntipyretic in all febrile conditions, it would seem, from some festures of its actiou, to be worthy, also, of extended trial in rheunatic and spasmodic affections, and for the often distressing afterpains of childbed.
J. Ogilver, M.D., Surgeon General.

## REPORTS

## hospital and surgical practice in the HOSPITALS AND ASYLUMS OF GREAT

BRITAIN, IRELAND, AND THE COLONIES.
hospital for sick children, great ormond street.
a oase of vestcil calceles, with remarks on the sutrapubic operation for stone.
Under the care of Mr. Edmend Owes.
(From notes by Dr. E. J. Levivis, late Honse Surgeon.)
A bor of $2 \frac{1}{4}$ Jears was admitted 24 th October last, who, for three or four months, had becu crying on micturition, and who had had, moreover, frequent attacks of hremsturia. Six weeks proviously his doctor had circumcised him ; probably he had omitted to sound him, or he might have detected a small stone in the bladder. On 26th October, under chloroform, Mr. Owen incised tho meatus and attempted to introduce a small lithotrite (No. 7), but without success. He, therefore, passed a straight staff with a mediam groove, opened the bladder through the left side of the perineum, and renoved a very smal! stone by a pair of ordinary dressing forceps. There was practically no bleeding ; tho boy's legg were tied togother, and ho was put back to bed. In the evening his temperature was $99.5^{\circ}$, but next day it was down again to normal, and during the whole period of his remaining in hospital it necer again roso to $99^{\circ}$. The wound promptly hesled, and he ras taken home on 14th November, in less than three weeks after his aduission.

Remarks by Mr. Owen. - In a clinical lecture which was given last year by my friend, Dr. Dennis, Professor of Surgery at the Bellevne Hospital, New York, he said, speaking of the high operation: "It is
to be, undoubtedly, the lithotomy of the fature." I renture to think that such a statement is, to say the least, Iremature. That it is at present the "fashionsble" operation in surgery is beyond di.rpute; bat it has not yet been sufficiently submitted to the test of time snd $\epsilon \mathrm{X}$ perience for one to be sble to assign to it its exact position amongst surgical procedures. True, on many sides, we hear the operation well spoken of. One is told of quick healing of the wound, of freedom from constitutionsl and local excitement, and of rapid convalescence, as characterising the procedure. But, on the other hadd, one also hears of the bladder-wound giring way though the surface wound had healed, sad of, in consequence, urinary infiltration and suppuration. Then, again, sametimes the woond is an extremely long while healing. The operation must be considered as yet on its trial, and in the meanwtile it is a misfortune that it is placed in dircet competition with lateral lithotomy. Ckeselden's operstion has a magnificent history; the high operation may yet have s brilliant future, but this will not be secured by adopting it in the case of every calculous boy.

A few years ago, the question of 8 choice of operative procedures in the case of a loy with a stone in his bladder was never discassed. Every calcnlous boy, as a matter of course, was submitted to Cheselden's operation ; and at the present day it would aprear that, with a less pardonable want of discriminstion, boys are being operstcd on by the suprapubic metliod. Statistics may shortly be forthcoming whick will show that, in itg general spplication, the high operation is not to be preferced to the lateral, thongh it may be far better in a certain small class of cases. The application of the operative procedures may not improbsbly be thus resolved :-Lithotrity, after Bigelor's method, should be tried for all boys with a single, small stone ; thongh, if thi prove an oxslate, or too hard for crushing, the boy should be cut. Two very small stones might also be crushed and removed at the single cpera tion. For a hard-ringing stone (oxalate), for a soft though large stone, and fur several stones, a cutting operation must be done. For a large stone-of the size of a pigeon's egg and upwards-the suprapubic operation is to be preferred ; but for a moderate-sized stone which is, from hardness or dimensions, unsuited for crushing, the lateral operation is, and, I think must continue to be, best suited. Dr. Dennis, who, from the deservedly high position which he holds in the surgical world at New Yorl, as well as from the great prectical experience which he enjays, may well be secopted as the expaneut of contemporary sargery on the other side of the Atlantic, said before the American Surgical Asso ciation last jear: "I would venture to remark that the time is no: far distant when there will be but practically two operations for stone in the bladder-suprapubio lithotony and litholapaxy. If future ex perience demonstrates that a return of calculus occurs in a fair percentage of the cases after lithotrity from debris left behind, and that the mortality of the suprapubic is reduced to a figure equal to or less than perineal lithotomy, then suprapubic lithotomy, with its special adrantages, will be the recognised operation of the day." This is, indeed, a very bold statement ; it may possibly be rerified, bnt in the meanwhile we must be content to record, watch, snd wait.
One adrantage which is claimed for the high operation is this, that it is "free from the risk of injary to the reproductive organs." But we have yet to learn that the operation of lateral lithotomy is followed hy results which are prejudicial to the power of procreatiou. It has been remarked-I know not by whom, nor with what trith - that the begettiog of children enters largely into the religious creed of the ordinary native of India, and thst, if lateral lithotomy were frequently followed by sterilits, the operstion would be persistently declined.
It seems strange that an apolocist should be ueeded for Cheselden's operation; bat, as a corollary to the eimple case which has been recorded above, and which has snggcsted these remarks, one may tc sllowed to say that lsteral lithotomy in childhood still possesses its advsntages. Ilistory tells us that it is comparatively devoid of risk ; the time occupied in its performance is a mater of seconds ; it drains the bladder in the most advantageons site, urinsry extrarasation ard pelvic cellulitis following it only in the most exceptional cases ; the wound requires no tube nor dressing, and it gives the surgeon no cause for auxiety.
The Tavistock Rural Sanitary Authority, on reappointing Dr. F. M. Williams as medical officer of health, rednced his salary from $£ 160$ to $£ 100$ per annum ; but the Local Government Board refuscd to sanction it, statiug that they could ses no sullicient grounds for the reduction. The subject was reconsidered and discussed at the lsst meeting of the Authority; when it was proposed by Mr. Northey, seconded by Mr. W. Perry, and resolved by a large majority, that the original motion for the reduction of the salary to $£ 100$ be reafirmed, and that the Local Gorerumeut Board be asked to sanction it.
hospital for sick children, great ormond street. a Fatal case of hemirlegia in a child witil neororsy. (Under the care of Jons Aubrcrofibe, M.D., F.R.C.P.) A. W., aged 5, was admitted into the hospital uoder my care on Suptember 1ith, and died the same day. For the clinical notes and report of the just-mortem oxamination I am indebted to Dr. F. Fonrose, the medical registrar. About a month proviously the child had been sent into the country for change of air, and, with the exception of occasional headache, had seemiod well until two days before admission, when sho was found to be paralysed on the right sida; no particnlars as to the mode of onset could be obtained. As she steadily got worso sho was sent an to the hospital, where she arrived in a partially nuconscious condition. The right arm and leg and side of Pace (?) were paralysed ; she could feel on the left side, and could maro the left arna and leg. There was no strabismas ; the pupils were equal sud sluggish to light, tha optic dises haalthy. No abnormal signs as regarls heart or lungs. Tho right knee-jerk and plantar reflex were absent ; they were present on the left side ; there was na ankle-clonus. Tha breathing was slow, and gradually got slower from accumulation of mucus in the trachea anil bronchi, and she died asphyxisted about fire hours after allmission.
Tho body was examined forty hours after death. It was that of a well nourishel child; rigor mortis was well marked; there was no extornal evidence of violence. The left middla cerebral artery was completely filled by a black, dryish, non laminated, non-adherent clot. The artery seemed perfectly healthy. The left hemisphere, espocially in the motor region, was more pink and decidedly softer than the right io the corresponding region, aud the change was equally noticeable, both in white and grey matter. The left caudate nuclous showed some fine extravasations on its surface. The pons modulla and cercbellom appeared natural, as alsa did the fundus of the eyes and tha left middle ear ; the right showed superficial necrosis of the incul. The sinnses of the brain wore healthy. Some adhesions were fonnd over both lungs, and the brochi were somewhat ioflimad, anil plugged with mucus. Near the free margin of the large mitral nap were found four minute whitish granulations, which "ere soft and easily remored, and appeared to bo of fibrinous origin ; in all other reapects the heart was healthy. The urine was found to bo albuminons, but no other oridences of disease were discovered, and no iofarctions in any of the abdominal riscera.
Remarks - Althongh the clot showed no lamination whaterer, and Fas not at all adherent to the arterial wall ; still it must be considered, 1 think, as uadoubtedly of antc-mortem, origin. The clinical facts wonld alone quite justify such a cjnclusion, apart from the fact that thero was found in the heart on the mitral valve just such a condition of things ns woold have been most likely to lead to embolism. Tho history of tha caso during life is much too incomplete to justify any opinioo as to the canso of thesa little fibrinous coagula ; the fact of the child laring been sent into the country is, however, some evidence that she ras below par, and the whipping up of a little fibrio from the the blood in the cavities of the heart may have been due to her impoverishell coadition. It is difficult to say why changes had not commenced in the clot, for it must hare been sixty hours old at the time of death ; but, excenting that it was rather dry, it had all the naked eys characters of a post-nortem clot; the softening of the brain, however, io the region suppliod by the plugred vessel is snfficient evidenco of the time of its formation. On Jone 17 tho of this year 1 pub. lished in the Jourval a paper on heminlegia in childron, in which I took the view that arterial embolism was by far the most likely cause of tha paralyais. This case supports that view very strongly.
Pzeqzats and Donatioss.-Misa Mary Fothergill, of Hensol Castle, Glamorganshire, hequeathed $£ 500$ to the Cardiff Infirmary, £ 300 to the Cancer Ifospital at Brompton, and $£ 300$ to the Hospital for the Paralysed and Epileptic. - Irr. W. S. Lewis, of hotley, Wellington, bequaathod $£ 500$ to the Salop Infirmary. -The Queen's Hospital and the General Hospital, both at lirmingham, have each roceived $\mathcal{L 2 5 0}$ under the will of Mr. James Horsfall. -Tho Jervis Street Mospital, Dublin, has received $£ 200$ under the will of Mr. Thom as Syunott. - Mr. Solomon Longworth, J.P., of Whalley, has Fivao twa hundred guineas to the endowment fund of the Black burn fofrmary. - The Grocers' Company bave given £ 100 , and the Skinnera' Onipany twenty guineas, to tho Seamen's Hospital (lata Dreadnouyht), Groenwich. - University College 1 Iospital has received $£ 102$ 10s. Irom "The l'eole's Coatribution Fund."-3I. Goorge Heary Leather has given $£ 100$ to the Bradford Infirm3ry. - "T. K." has given $£ 100$ to
the Bristol Moyal Infirmary.

## REPORTS OF SOCIETIES

royal medical and chirurgical society. Tuesday, January 10th, 1888.

Grorge D. Pollock, Esq., F.R.C.S., President, in the Chair.

A Case of Occlusion of the Laft Eronchus by a Metal Pencil Cap, and its Removal by Tracheotomy. By W. B. Cneadie, M.D., F.R.C.P., and Thomas Smith, F.R.C.S. - The patient was a girl, aged 9. The loose metallic cap cororing the end of a pencil, which the child had put in her month, became detached, and was drawn into the throat. Urgont choking and dyspues followed. This was relieved after the passage of a probang down the cesaphagus, and the foroign body was believad to bave entered tho stomach. There was great pain at the time, and violent cough. Four dsys later, dulness on perchssion and imperfect entry of air were first nated on the loft side of the chest. Eleten days after the accident there was marked dulnoss over the whole of the left side, absence of respiratory nurmur excert over a limited portion of the upper part in front, displacement of the stamach upwards to the nipple line, and great retraction of that half of the thorax, indicating almost complete collapse of the left lung. The respirations were 30 , the palse 92 The tomperature was subnormal-97. $8^{\circ}$. There was no dyspnces, but occasional short cough, aggravated by exertion. The conclusion arrived at was that tho prncil cap, which was aboat one inch long and a quarter of an inch in diameter, had lodged in the extreme end of the left bronchus. After consultation it was decided to attempt the removal of the foreign body by tracheotomy before the supervention of serious inflammatory changes in the lung. Suitable provision was made for dealing with whichever end of the tube should present itself. For the open end a pair of saitably curved forceps, with external grip, were provided, these placed within a facsimile of the pencil cap were found to hold it firmly.' The isthmus of the thyroid was divided hetween two liga. tures, the trachei freely opened, and the edges of the tracheal wound attached to the margins of the skin by silk sutures. A long probe passed into the bronchus at once detected the foreign body in the position assigned to it, with the open ond uppermost. The forceps were introdaced, and the cap was extracted without difficalty. The plan of attaching the tracheal wound to the skin is recommended as serving to keep the trachea widely open ; a help to the surgeon, and a source of safety to the patient. With the exception of a short pyroxial attack of short duration on the day after operation, the patient mado a rapid and uninterrupted recovery; the lang slowly reexpanded, and a final examination of the chest fourteen days after the operation disclosed as the only abnormal physical sigos slight deficiency of respiratory sound, and of expansion on the left side. The ontrance of a foreign body into the left bronchus in preference to the right is shown to be by no means so rare an occurrence as commonly belisvod. Ont of thirty-one cases collected in which the position of the foreign bady is stated, it ontered the left broachus in eighteen instances, the right in thirteen. The physical signs observed in this case differ materially from those laid down by authority as typical in such conditions, and an explanation of this discrepancy is suggested. The collapse of the whole lung which followed the occlusion of its main bronchua is confirmatory of the accepted theory as to production of collapse of portions of the lung by obstruction of their supplying branches. The entire abseace of pulmonary inflammation is opposed, however, to the view that collspse is the leading factor in the production of catarrhal pneumonia. Attention was drawn to the lowerod ranga of tenperature during the period of pulmonsry collapse, to the inalequate compensatory rise in pulse and respiration-rate, and to the possible causes of the short phase of high pyrexia which occurred the day after operation. -The President complimented the authors on their skill in diagnosis and treatment. In a fannona casa in which Mr. Brunel had, during an exhibition of conjuring, let a half-sovereiga fall iuto his throat, and Sir Benjamin Brodio had operated on him, tho trachea was freely opened, he was turned on his face, his fect elevated, the body shaken, and the coin fell out through his mouth. Experiments sabsequently made with sixpences and half-sovereigos showed that they geaerally went into the right brouchus. In a case of impaction of a piece of pipo in the influmed walls of the trachen, Mr. Pick had not found any instrument as well adapted to his difficalties as that which Mr. Smith had so skilfully devised. -Mr. F. Sr. Georor. Miyart had been first called in to this case, three days after the accident, and felt very grateful for the ascistance he had received. At first sight the girl seemed to have very little the matter with Ler, and the case devaloned very slowly. He was sorry Mr. Smith had found it necessary, after opening the trachea, to stitch the skin to the lips
of the mound, as it left a large persistent scar.-Mr. Holke congratulated Mr. Smith on a brilliant operation. He had himself published a somewhat similar case in which the end of a tracheotomy tabe had broken off and fallen into the right bronchus. It was open at both ends, and so was easier to extract than the pencil-cap which Mr. Smith had had to deal with. He had made a flexible crotchet of silver wire, with which he found no difficulty in hooking it out. It was important that these forcign hodies were metallic and did not swell up and soften, as was the case with such substances as heads of grass, awns, and pieces of bone. Removal was easier in the adult than in a child, for in an adult it was not hard, after a free opening had been made into the trachea, to feel its division with the finger, and make certain of the position of the foreiga body.-Mr. Barwell related a case he had published in the Clinical Society's Transactions for 1873 , in which a boy aged 17 had let a Punch's whistle slip into his bronchus. He had been quite unable to remove it, and the clinical symptoms wero becoming serious when he took a rapid turn tor the better and completely recovered. It was probable that he had coughed it up, swallowed it, and passed it unnoticed by the bowel. -Mr. Hulke, a propos of this, cited another of his own cases in which a sizpence was visible in the trachea; he could not seize it, but opened the trachea, whereupon it was coughed up and swallowed. - Mr. Howard Marsi remarked that he had heen mach interested with the various physical signs that the physicians found in the chest in these accidents; they seemed to vary quickly, but dulness generally attended collapse, as in Dr. Cheadle's case. He had found it impossible in another case in which a bean had passed into the bronchus to distinguish the foreign body by touch from the surrounding soft tissues, and, when the child died, it was found impacted in the left bronchus. Mr. T. Smith's operation had been so carefully considered that all contingencięs had been provided for, and the matter seemed easy.-Dr. Howard had been struck with two points in the case before them; first, the good effects of stitching the skin temporarily to the lips of the trachea, for it was most important to be freed from the anoyance of a bleeding wound; and, secondly, the advantage that would be gained by having the tracheal wound higher than any point above it, so that the blood should not drain into the lung. On a question from the President, how this was to be brought about, he acknowledged that he had never done it.-Dr. Cereadle, confining his few remarks to the medical side of the case, remarked that the difference of physical signs, according to the very varitd physical conditions that might be produced in these states, was a complex matter; it was generally true that where the obstruction was incomplete, there was not much dulness, but it was much too sweeping an assertion in some texthooks that there was always resonance after impaction. When there was any it slowly disappeared as collapse sot in.-Mr. T. Smith said he had found no long forceps so well adapted to this case as a pair which opened outwards with a firm grip. With such a pair, duly curved, he had found it aasy to grasp the pencil cap in the brouchus. In many previous cases he had seen great difficulty in grasping the foreign body, and the operation had often ended in its being coughed up. He agreed with Dr. Howard that the tracheal wound should be higher than any other part in the trachea. It was widely open; it was thought unnecessary to turn the girl on her face. He quite agreed with Mr. Hulke in the greater danger of soft objects, such as grains of barley, etc. In one of his own children a sugar-plum had obstructed the trachea, and caused very serious symptoms. It was shaken down in the larynz, and, after ten minutes of great anxiety, fortunately dissolved. As regariled the stitching of the edges of the trachea to the skin, he did not think that any serious aggravation of the scar would resalt.
Influence of Salicylic Acil and its Salts on the Exerction of Uric Acid. Dr. Alexander Hatg, M.B.-After referring to the theory elaborated in the paper publishod on p. 73 of this week's Journal, the author stated that salicylic acid formed an important exception to the general statement there made, for while it increased urinary acidity it did not in any way diminish the excretion of uric acid. Acids glven while salicylates were present in the circulation had no longer the power of diminishing the excretion of uric acid. This action of salicylic acid and salicylates formed the subject of the present paper, and was of importance iu explainiug the value of these drugs in gout, rheumatism, aud other diseases connected with uric acid. Statistics were given to illustrate the excretion of uric acid under salicylates, aud were contrasted with others, showing the normal relation to acidity. Excessive excretion of uric acid taking placa under salicylates was not accompanied by any headache, sud salicylates has previonsly been found useful in tins headache. The action of acids and alkaties on urie acid excretion was probably due to tho fact that alkalies increased and acids diminished its solubility, and the same with the
exceptional action of salicylic acid, for salicylaric acid, which it was supposed to form, differed from uric acid in being very greatly more soluble in water, and probably also more soluble in dilate acids. Benzootes did not act in the same way as salicylates, prohahly because hippuric acid, which they formed, was less soluble than salicycluric acid. Both urie and salicycluric acids were present in the arine passed under the influence of salicylates; this was possibly due to the salicylate acting on the uric acid in the blood, and not on the uric acid which was excreted direct from the kidney. Headache was present with the rush of uric acid which took place under alkali, but not with the rush noder salicylates; possibly, therofore, under salicylates, uric acid was present in the blood in a differout chomical comhination (salicyluric acid).-Dr. Ward felt mach sympathy with this investigation of the canses of headache, and had confirmed on himself some of Dr. Haig's previons remarks on the connection of them with urea. He considered them goaty, and be was surprised that Dr. Haig should find acids a remedy for a goaty state. Similar headaches, or at least attacks of migraine, were found in women and in the French, who had no excess of meat ; in his own case he found a high specific gravity of urine was a sign of coming headache. Strychnine and liquor ammonie acetatis afforded him the hest relief. -Dr. A. E. Garrod did not fiad mach light throwa on the action of salicylic acid in joint diseases, especially in gout, where its effects were trifling, though its slight power as an anodyno mado it felt a little in rheumatoid artliritis. Uric acid had nothing to do with the pathology of rheumatic fever, and was not fond in such cases in excess in the blood, though it had been very often looked for. -Dr. Harg considered that he had established one form of headache, a uric acid headache, which he could produce and stop by increasing or decreasing the amount of uric acid. Women, he thought, suffered easily from small quantities of meat; the French from acid wine, for the acid helped the retention of their uric acid, and they did not get rid of it by exercise. A sensitive nervous system reacted to uric acid very easily. In a paroxysm of a aute gout, salicylates were too late, for it took them some time to penetrate to the cartilages where the uric acid already was, but taken as a prophylactic ther did much good, in his opinion. The relation of uric acid to rheumatism still needed to be worked out.

## MEDICAL SOCIETY OF LONDOY.

## Monday, January 9th, 1588.

J. Hughlings Jackson, M.D., F.R.S., President, in the Clair.

The Reflex Inhibitory Action of Cucaine as a Diagnostic Factor. Mr. Herry Fenwick read a paper upon a long series of cases in Whish pain in various parts of the body hal been temporarily relieved in 30 to 180 seconds by urethral injection of 20 per cent. solation of cucaine. Cases of its action in neuralgic pain of the cranial, cervical, intercostal, renal, and lumbj-sicral nerves were mentioned, and the reasons for this power were roughly demonstrated to the Society l.y mean? of decapitated frogs. Thus, without a vesico-rectal injection of cucaine, the leg of the decapitated frog was rapidly jerked out of a meak acis solution in some fraction of a second; but after cucaine hal been injected into the bladder or rectum, the leg was not withdrama untii after 20 to 30 or more seconds. This remarkable inhibitory power was only obserred when weak acil solutions (that is, reak irritations) were used. Cacaine possessed no porer of delaying the reflex excitability consequent apon stronger acid solutions. The following propositions were formulated:-1. Slight nerre irritations (as neuralgias) of any part can be relieved by injection into the urethra of a few drops of a 10 or 20 per ceat. solution of cucaine. 2. Sovere nerve irritation, as in the pain of carcinoma, inflammation, etc., cannot be thas relieved. Mr. Fenwick has used this knowledge largely in the differential diagoosis of urinary disease. Thus, if a reasl pain was immentately relieved by cucaine, he judged the nenralgia to bo due to a slight irritation, such as that experienced iu lithiasis, congestion, or grit. If unrelieved (aud cases were given) he disgnosed moro serious cases (for exsupple, stone, dilatel pelvis, etc.) He then drew attenticn to the valuo of cueaine in operations upon the bladder and urethra iu preventing damage to an unhealthy kiduey. M. Tultier's experimeuts upon renal congestion produced by distendiug the hladder or iujuring the walis were mentioned, and it was submitted that this flooling of the kidzes-which, if the orgau was damaged, led to rigors, suppressions, and suppurations-might be partialiy or wholly prevented by the iuhibitors action of cucaine upon the renal circula-tion-Mr. James Black askel whether Mr. Fenwick had noticed auy serious toxic symptoms after injectious of solution of 20 per cent. of
cucainc. He hinuself land used a 20 per cent. spray to remove growth from the inferior turbinated hone, and the patient becano collapsed, livh, cold, and almost pulseless. A second case had exhibited the same alarming symptoms. - Mr. Bowreman Jessrtt said he had removel nu enlarged gland from thoneck after tho injection of 10 minins of a 20 per ceut. solution, hut serions symptoms had followed. He added that it was rery dilicult to oltain relief from pain ly means of cucaine in removing polyni from the nose.-Mr. Bensard l'itts asked Mr. Fenwick whether ho had tested remote body sensations in a healthy suliject after urethral injection. In a easo of his own faintacss had supervencel, with goucral numbness and coldness of the surrounding surfece- Mr. Wafter lye sail he hall seeu many casos of fainting following the use of cucaine. ITo himself had felt faint after a 5 per cent. solution.
On the Triatment of Curotid Tremerfhage.-Mr. Fienenick Treves real a paper ou a methol of controlling hemorrhage from branches of the carotid arteries. Ile said it was usual to ligature the caretid trunk in hamorrbage from sinall vessels, but much juight bo done by teruporarily compressing tho main trunk. Temporary pressure, hewerer, could not be applied with success in the neck, and he proposed to isolate the commoncarotil, and pass a eatgut leop around it, Which could lo pulled unon aud so check the passage of blood. He guoted from cases in which ho lad resorted to this procedure, only one case-that of a child-proring fatal ; and in all the lamen of the artery was ultimately restored. IIo added that no local inflammation or other ioconvenience was to be feared as a result of the operation itself. - Mr. Bernard Pitts askod Mr. Treves what he considered the best plan to adopt in cases of hemorrhage from the internal carotid artery. In a case under his care, where there was copious hemorthage from a tonsillus abscess, lie tied the common carotid. The hremorrhage, howerer, recurred, and the patient succumbed to the loss of blood. At the post-mortcon examination a large opening was found into the internal carotid in the vicinity of the abscess. He had made a series of experiments since, and he found that blood eseaped much more freely from such an opening when injected into the external carotid. He asked whether there ras a prospect of permanent plug. ging from the temporary ligature. - Mr. Harrison Criprs observed that the mortality in punctured wounds of the carotids was due partly to deficiener of the cerebral blood supply, and partly to recurrence of the hemorrhage. II $e$ thonght it was better to ligature the external carotid rather than the common carotid. It most Erequently happened that the hemorrhage canse from tousillar branches of the external carotid.-Mr. Treves, in reply, said the loop was in do sense a teruporary ligature. Eren io the child wha died the lumen was not obstructed. The surgestion to ligature the artery at the site of the wound would not be possible in a deep punctured wound.

A Case of Gastro-enterostomy and a Case of Duodenostomy for Carcinoma of Pylorus.-Mr. Bowprmas Jfessett rearl the notes of two eases in which he lad operated for pyloric ohstruetion due to cancer. The first case was that of a woman who suffered from exceeding pain and persistent vomiting. There was a tumour to the left of the midule line, in the eqigastric region, Freely movable. The stomach was washed out, and on June 4th be operated. Owing to the patient's failing strength be contented himself with suturing the luodenum to the ablominal parietes, the wound being treated as in gastrostomy. The pain continued for some time, the patient being fed with beeftea, zymiuised beef snppositories, ttc. The patient ultimately died on July 3rd, one month after operation. The sceond case was that of a man who suffered from melaucholia. He was extremely emaciated, and only weighed 8 atone 4 lbs. He complained of great pain, relieved by vomiting. There was dulness below the ensiform cartilage; the stomach was not appreciably dilated. Ife was operated npon, the jejunum boing stitehed to the anturior wall of the stomach. He died ten dags after the operation. At the post mortem examination the cicatrix of an old uleer was found near the pylorus, the walls of which were thickened. He recommenderl that dnodenostomy should be performed while tho patient's coudition was still such as to alluw of it.

## OUSTETRICAL SOCIETY OF LONDON. Wednesmay, Jasuary titi, 1888.

John Whalass, M.D., President, in the Chair.
Specimers. - Mr. Sinsey llaryey showel a specimen of Interstitial Cestation.-Dr. Carter exhibited Draries and Tuhes removed for Nouble Mydrosalpinx.-Dr. W.S. I. Grifeith showed (1)a specimen in which there rras a Tuboovarian Cyst of the Right, and Mydrosalniox of tho Left, Tabe ; (2) a case of Cystic Adenoma of the Anterior Lip of the Cervix; (3) a Parametric Abscess.

Post-mortem Appearances of Phlegmon of Broad Ligament.-Dr. Lriwers read a note on this suliject. The patient was admitted into the London Jespital a few dys alter her confiomeut suffering from mania and parametritis, and died of brenchitis. On post-mortem examination, the layers of peritoneum forming the riglit broad ligament were found scparated by exulation, measuring from before backrards one inch and a half, aud bonndod above by the liallopian tube stretched over the conrex surface of the swelling. The external surface of the peritoneum was somewhat granular, with here and there flakes of recent lymph about $1-16$ iuch thick. On cutting into the awelling the cut surfaces had a coarse, sponge-like appearavee, the largest holes being the size of a No. 16 catheter, and all the cavities wers filled with a scro-sanguinolent fluid, but nono of them contained pus. Tho right ovary measured 21 inches long, $1 \frac{1}{2}$ deep, and $\frac{3}{8}$ thick. It was allherent to the adjacent surface of the broad ligament by recent lymph, and on section au abscess containing half a drachm of pus was found. The author said that the specimen illustrated a phase of parametritis rarely met with; and was interesting as bearing on the jathology of ovaritis. He theught it was difficult to conceive of oraritis occnrring as a primary affection, while it was easy to see how it might be secondary. Periovaritis was produced by extension of inflammation along the Fallopian tube to the pelvic peritoneum, producing pelvic peritonitis involving the ovary. Interstitial ovaritis might be prodneed by extension of inflammation from the connective tissuc between the peritoneal lajers forming the broad ligament along the connective tissue in the hilum of the ovary, and so to the parenchyma of the ovary-that is, interstitial ovaritis mas secondary to parametiitis. In the specimen, while the inflammation in the broad ligament was still in the stage of phlegmon, the inflammation in the sobstance of the ovary had gone a stage further aud caused a small abscess. - Dr. Matheiws Duncan regarded the disscetion as of great interest. Dr. T. Kcith bad mentioned a case of an allied kind observed during ovariotomy. So great was the swelling that he eould not pass a sponge into the pelric cavity. In Dr. Lewers's, as well as Dr. Griffith's ease of parametric abscess, there was room for beliering that septicromia was present, and this might be the explanation of the situation of the disease betreen the folds of the broad ligament, a situation not commen, even if it occurred at all, in simple tramatic parametritis. In pucrperal septicemia or pyæmia phlegmonous masses, as distinguished from abscesses, were not rare. They were generally sitnated on the limbs, and often multiple. They might or might not be superficially red and more or less tender. He had lately seen a case with redness, aud with two small, deer, punchedout ulcers the size of a split pea. He had seen also two such cases of phlegmon where eminent surgeons had diagnosed abscess, and operated, finding no matter. Such cases, even when accompanied by bad symptoma, did not all end fatally.-Dr. Graily IIewitt thought Dr. Lewers's contribution mas very valuable, as the opportunity rarely offered of substantiating the actual locality of effusions in this situation. He had frequently met with cases sinilar to Dr. Lewers's. He was of opinion that presence of effusion indicated a localised septicarmia. The septic material entered by way of the lymphatics or by the blood vessels, and the effision in the broad ligament was the result. - Dr. Carter had been present at a neeropsy of a patient who died of septic parametritis. The Lroad ligament of ono side was enlarged, and appeared as though soure plastic matter had been injected betreen and separated the parts. The veins were distended, and the lymphatics were embedded in plastic material and kept fixed and patent.-Dr. Lewers replied.

Searlatine during Pregnancy and in the Puerperal State. - Dr. loxall read a series of papers on this subject. He briclly referred to some of the anomalies which existed in ordinary scarlatina, and suggested that further deviations from the usual type might be expected under the special conditions which appertained to pregnancy and to the puerperal state. He mentioned some of the moro recent literature on tho anhject as containing the raried and frequently diametrically opposed opinions expressed by different observers, and, in passing, drew attention to the coufusion which had arisen through the loose application of the terms "puerperal ferer" and "puerperal scarlatina." He theu described a sories of sixteen cases of undoubted scarlatina occurring during pregnancy and iu the puerperal state, with special reference to the facts of exposure as far as they could be aspertained in each case. The clinical history of the same cases was presented in a tabular form for further consideration. 1. As regards the liabulity of pregnant and parturient women to srarlatinal infection, and the duration of the incubation period, Dr. Boxall referred to the raro ocenrrence of scarlatioa during pregnancy, and its almost invariablo aprearance during the first fow days of the puerperium. Bearing in mind the alteration in the existing conditions which took place
at delivery, he insisted that the two classes of cases must be kept separate, and that a dietinction must be drewn $(a)$ between these cases which received infection prior to delivery, and those which received infection during or after labour; (b) between those cases which failed before delivery, and those in which the disease did net make its appearance till after the onset of labour. He further pointed out that the duration of pregnency had an important bearing on the question of incubation. The following inferences were drawn: (1) As regards the time, with refereace to labour, at which the disease showed itself : (a) that scerlatina alnost invariably occurred within the first week of the puerperium, and its occurrence at a later period was extremely rare; and $(b)$ that in exceptional instances scarlatina might show itself during pregnancy, shertly before the onset of labour. (2) As regards the liability of pregrant and parturient women to scarlatinal infection, and the reciprocal influence existing between the latter and parturition: ( $\alpha$ ) that a woman expesed to the disease might become infected with scarlatina during pregnancy, during or after labour; (b) that the lisbility to infection was especially marked shortly before, and during the first few days after, delivery, but did not extend far into the puerperium ; (c) that, if infection occurred during pregnancy, the onset of labour might be thereby precipitated; (d) that when in. fection took place during or shortly after labour, the incubation period might be shortened; and, finally, (e) that the forgoing considerations were in themselves sufficient to explain the frequent onset of scarlatina during the first week of the puerperium, without the necessity of ascribing to scarlatina in preg. nancy an incubation period exceeding that of ordinary scarlatina. II. With regard to the relation of scarlatina to meastruation, Dr. Boxall pointed out that an apparent snalogy with regard to the onset of scarlatina existed hetween labour and the menstrual periods. Care. fal observations were made on a separate series of sixteen cases of scarlatins in non-pregnant and non-puerperal women. Upon this evidence it appeared that women usually failed with scarlatina shortly after, during, or just before a menstrual period, as in the case of labour. In conclusion, the author suggested that the following considerations (exactly analogous to those which referred to the intimate connection existing between the time of the onset of scarlatina and delivery) might serve to explain these facts: (1) That the liability to infection was especially marked shortly before, during, and immedistely after a menstrual period, (2) That infection occurring shortly before a menstrual period might precipitate the flow. (3) That, when infection took place during or shortly after a menstrual period, the incubation period might be shortened. III. With regard to the clinical course of scarlatina during preguancy and in the puerperal state, Dr. Boxall, before entering ints a consideration of the clinical features of the disease, reitcrated the necessity of dissociating those cases in which the attack began before delicery from those in which it commenced after the onset of labour. The initial symptoms were discussed, and attention was directed to the special character of the throat affection. The following observations were presented: (1) That during pregaancy the throat symptoms were unmodified, but that after delivery angina was rare; (2) That in scarlatina after delivery (a) snbjective soreness was usually absent at the outset, and even at a later stage rarely caused much distress; $(b)$ signs of slight inflammation, though generally absent at the outset, might usually be observed on the second or third day of the attack; (c) the cervical glands were usually affected, whether any change had been apparent in the throat or not. The fallacy of adducing from the diminished intensity of the throat affection an argument in favour of direct inoculation of the poison throggh the parturient uassages was pointed out. Attention was also directed to the slight intensity of the tongue affection, and to the marked flushing of the face which preceded the rash. These also appeared to be features of scarlatina developed post-partum hut not of ante-partum scarlatina. From these observations it was concluded that some modifying influence, the nature of which was mnknown, was called into play at the time of delivery. The peculiarities of the eruption were discussed, with especial reference to site and intensity. Its modifications were attributed to the altered circumstances of the patient after delivery. The frequent occurrence of sudaruina and urticaria was also noted. A summary was given of the various complications which the scarlatinal patients presented. Nention was also made of the influeuce of a previous attack of scarlatina, and of the lapse of time after delivery in diminishing the soverity of the disease. IV. With reference to tho effect of the scarlatinal poisen on the conrse of lebour, Dr. Boxall gave an epitome of the course of the lahour, both of those patients who were delivered during the incubation period and also of those who were delivered during the actual attack of scarlatina. The following conclusions were adduced: (1) When labour occurred during the incubation period of scarlatina, it ran for
the most part its usual course, bnt the pains might exert a greater influence than usual on the raental condition of the patient; inertia, if induced, set in late in the course of labour, and a peculiar and almost characteristic odour might be present. (2) When labonr occurred during an attack of scarlatina, the pains were apt to be feeble throughout, incrtia set in early, and post-partum harmorrhare was liable to occur. The same peculiar odour might be prescnt. T. Respecting the effect of the scarlatinal poison on the puerperium, Dr. Boxall gave two tables, one representing the effect of scarlatina on the nterus and lochia, the other showing its effect on the mammary secretion. Thenature of the slight and evanescent tenderness orer the uterus, frequently noted quite at the outset of the attack, was briefly discussed. Particular attention was directed to the character of the lochia, and a suggestion was put formard that offensireness might have occupied a more prominent position if local antiseptic measures had been admitted during the puerperium. In the majority of cases an increased flow was observed at the onset of scarlatina. The cause of this was discussed, and a similar increase of the menstrual flow on the supervention of scarlatina was noted. A brief review of the mammary function was given. The liability of the infant (when the mother was affected) to take infection was discussed with special reference hoth to the question of suckling (which recessarily implied direct contact with the mothor) and also to the stage of the disease at which delivery of the mother took piace. The following conclusions werg offered: (1) That inrolution of the uterus was not much, if at all, retarded. (2) That the slight and eranescent tenderness ofer the fundus, occesionally present at the very outset of the attack, was often due to incressed sensibility of the pelvic organs, and was rarely an indication of pelric inflammation. (3) That, provided antiseptic precautions were taken, lacerations healed withont difficulty, and the locbia as a rule did not become offensive. (4) That in some esses a peculiar, unpleasant odour might be obserred. (5) That the lochia usually proceeded naturally and ceased about the usual time, but in. many cases becane red and free at the outset of the attack. (6) That the mammary secretion was frequently diminished and sometimes arrested, as the result of the illness. (7) That infants kept at the breast were especially prone to scarlatina, probably from the mere fact of contact with the affected parent. (8) That when scarlatina showed itself in the mother during pregancy, the foetos might or might not be affected in utiro. (9) That when the mother received infection shortly before delivery the infant more generally escaped, thongh it might be subsequently infected.
[As there was not time to finish the reading of two more sectious of this paper, the discussion was deferred till another meeting of the Society.]

## ROYAL ACADEMY OF MEDICINE IN IRELAND.

## Surgical Section.

Friday, December 9th, 1887.
A. H. Corley, M.D., President, in the Chair.

Penctrating Wounds of Stomach and Traisecrse Jeso-colon successfully treated by Abdominal Scction.-Dr. Charles Ball brought forward the case of a boj, aged 15, who Tas admitted into Sir Patrick Dun's Hospital on March 29th, 1887, immediately after having accidentally stabbed himself with a half-inch chisel. The blade perforated his abdomen about half way between the tip of the ensiform cartilage and the umbilicus, and about a quarter of an inch to the right side of the linea alba. Dr. Ball saw him four hours after the injury; he was then profoundly collapsed; he vomited blood at frequent intervals, and at each effort to vomit a stream of blood spurted ont from the abdominal weund. The whole abdomen was dull on percussion. An incision about three inches long was made in the middle line, betrean the ensiform cartilage and the umbilicus, and the chisel wound connected with it. As soon as the peritoneum was opened, a considerable quantity of blood gushed out. The stomach was found to be woonded. A clean cut existed in the great curvature, about half an inch in leogth; it was not bleeding. The mucous membrane, thongh perforated, was not prolansed, and none of the contents of the stomach were foand extravasated. The wound was sutured by passing a fine catgut suture, after the method of Lembert (but continuons), four times across the wound, ouly including the serous membrane; the ends were then tightly tied, thus absolutely closing the opening, and at the same time puckering up the sereus membrane and bringing a considerable area on each side of the wound into appesition. The omentam was reflected npwards and scarch made for other wounds, as copious bleeding
continuod. An opening in the transwerso meso-colon, near its spinal atta hment, conld bo felt with the finger; and, upan spouging away the blood, it wes found that a large voin was woundel, to which, with sone little difticulty, a catgut ligature was applied. Tho paticut romited shortly aiter the operation, but the vomit was free from blood. Ifo was allowed nothing by tho month, except smal! pioses of ice, for six days, and way fed by nutrieut enounata of artificially-digestod food. From tho sixth to tho fourteenth day, ho was allowed gradually.increasing quantities of boef-tea and milk, and he thon was allomed solid foul. On the third day, ho vomited somo pieces of anion, quite unchoged, which ho stated he had eaten the morning of the accidont. Fuur weeks after tho operation, ho was discharged from hospital quite well. - The Iressinesit pointed out that Professor Otis, writiog on tho aurgery of the great American war, had emplissised the necessity of opening the abdomen in cases of gunshot wounds, while he disparaged the old mothod ns ostrich surgery. Dr. Ball deserved praiso for having the intelligence to conccive and the conrago to carry out the operation.-Mr. Hetstos aud Dr. Atreill took part in the discussion ; and Dr. Ball replied.
Fureign Eody in the Esophrgus.-Mr. W. Tuosson read a paper on two cases of foreign body in the oisopharus. In one, the patient tried t) swallow a quarter of a pound of beef, and was bronght in dead. In tho second, the patient felt a piece of beef stick in tho cesophagus, whon ho went to a hospits! and had a tube introduced. He went hoone ; suffered much pain; theneck and fnce became emphysomatous. Ho was admittod to the Richmond Hospital, suffering trom dyspnoca and dyshegi.s. An attempt to explore bronght on such a spasm that it was necessary to desist. Later in the day, tracheotomy was done with great relief. It ras determined to explore the cesophagas subsequently, but next morning the pationt said the lump had passed down, aud that he was able to srallow freoly. IIe died that night. Opposite the cricoid cartilage the cesophsgus mas transfixed by a bone, Which passed formards at the left of the trachea for a quarter of an inch. The posterior end also transfized the cosophagus, making a rent through which Ilaids passed freely into the posterior mediastinum. A piece of beef, tro incines long, hung from the bone, like a morbid proparation in a jar. - Irr. Tobis had had a similar case under bis caro in St. Vincent's Hospital. A woman, aged 57, was admitted, having a fow days before srallowed a piece of meat and bone. She could not sws?low fluids. Esophagotomy was performed on the fourth day after the a cident, and a large triangular bit of bone was remored. On tho sixth day a!ter the operation the patient died, partly from exhaustion and rant of food, and partly from djspncea, due to the extravasation of pos and fluids, and perhaps from septicemia, which the jus add fluids set up.-Dr. Wheeler, Mr. Mrles, Sir Williay Stukes, Dr. GưNe, Dr. Lentagne, Dr. P. Moloney, and Mr. W. Tuspiles Sroker took part in the discussion; and Mr. Thomson rerslied.

## MANCHESTER MEDICAL SOCIETY. Wednesdiy, December 21st, 1887.

Jases llardie, F.R C.S., President, in the Chair.
Congenital IIearl Discase. - Dr. HuTtos showed a loy, aged 8 years, the subject of congenital heart diseaso, and described the hearts of two aisters of this boy, bath of whom had congenital heart disease. 2. Obe of the bearts was also exhibited. The main malformation was in both eases due to arrest of development of the interventricular septinm, leaving an opening betreen the ventricles just below the points of attachment of the aortic valves and the tricuspid valves. In the case of the boy there was scon to bo great hypertrophy of the heart, and a loud systolic marmur was heard most plainly over tho third left costal cartilage.
Epilepsy after Injury.--Dr. Morgan showed a patient at present under bis care in the Manchester Infirmary, in whom an epilontic attack immediately followed an iojnry of tho ulnar nervo. About eight months ago the man was struck by a stick on the left "funns boce." He fell down anconscious, and remained in that state for some donrs. Sines that time similar attacks had occurred periodically, sometimes as often as eight times in a week. Theso seizures commenced with a feeling of coldness in the left, arm, followed by clonic spasms; next, the little and ring fingers became flexed, while the wrist was bent ous tho forearm, and tho latter on tho arm ; the loft corner of the mouth and the left tae wero then successively "drawn op ${ }^{\prime \prime}$ unconsciousness follared, and conjugato deriation of the ofes towards the ripht side. As there hat been partinl left hemiplegia ese: eince the brat atta:k, as likowise the tendon reflex on the left
side was exaggeratod, and the deviation of the eyes during the att leks was towards tho right side, Dr. Morgan looked upon the cnso as one of Jacksonian opilepsy, due to somo gross cortical lesion (probably syplilitic) in the Roloudic area of the right side, and not as ono of mero retlex epilepsy.
Suture of Tendons.-Some cases of suture of tendons wore related by Mr. T. Joves. They will bo published in full in tho Joursal.

## CLINICAL SOCIETY OF MANCHESTER. <br> Tursday, December 20th, 1897. <br> S. WOodcock, M. D., President, in the Chair,

Edeme of Larynx.-Dr. G. H. Darwin related the history of a case of cedema of the laryas, etc., produced by the action of rave epirit (braady), which had accidentally entered the glottis during syncope. The patient ras a widow, aged 45 , who, while suffering from an attack of diarrhees, fainted at stool, and her sister, who was attending, ponred some raw brandy into her mouth, where it remained for a fer seconds, and was drawn by the next inspiration into tho laryax and bronchi. Here it cansed immediate and alarming dyspuce , followed by spasmodic cough and great pain in the ears. The throat was seen to bo intensely red, and the voice was reduced to a mhisper. Thers was found grest congestion and swelling of the ventricular bands, whieh partly hid the vocal cords; and the whole of the lining mombrane, so far as could be seen, was intensely red and smollen. Bronchial rêles were heard all orer tho chest and back, and fremitus mas distinctly perceptible over a large area. There was much pain behind the sternum increased on inspiration, and incessant coughing, with expectoration of frothy mucus tinged with blood. The treatment consisted of ice to suck, hot fomentations to acck and chest, and nutritive suppositories. On examination twelve hours afterwards the whale throat and largux were covered with straw-coloured blisters, and there was great uneasincss, to relieve which steam inhalations wers nsed. The following morning the cefema was much increased and the breathing very difficult, with gasping and crowing inspiratiou. The patient gradually recovered.

Reflex Paralysis. - Mr. Herrert Lund read notes af tro cases of so-called reflex paralysis, occurring in two women, aged respectively 23 and 27 years. The exciting cause in both was carious molar teeth in the lower jaw, prodncing sulden weakness in the right arm, the weakness increasing gradunily to a maximum, so that the arm could only by a great effort be abducted and raisod, and dissppeariag abruptly on remoral of the teeth. In the second of the tro cases the weakness hat existed for three months, snd disappeared in a few haurs after extraction of the teeth. Similar cases had been published by Mr. Salter (Guy's IIvspital Rieporls, 186S). Mr. Lund then mentioned the theories as to the pathology of theso cases: 1. Dr. Brown. Séquard's, that peripheral irritation of a sensory nerro proluced anæmia of the cord and impuirment of nutrition and fuaction. In the Guy's Hospital Reports, 1S61, Sir W. Gull refutes this opinion. 2. Lemisson's "inhibitory theory," demonstrated by his experiments npon rabbits; squeezing the kidney, uterus, or intestines of a rabbit produciog paraplegia, the paralysis disappearing at onca when the pressure was relicved. The three classes of "urinsry paraplegias" of Professar Charcot were uest enumerated: (1) Paraplegia in which the spinal cord is the sest of an inflammstion. (2) Paraplegia, invasion rapid, cessation sudden, spinal cord nnafected. (3) Paraplegia depeading upon direct propagation of morbid process from bladder, along nerves, to the cord. The secend class Prafessor Charcot calls "reflex paraplegis," and under this heading Mr. Lund submitted that his two cases night be included.
Enchondroma of Finger.-Mr. E. S. Brsmor shamed a caso of siogle enchondroma of a finger. The patient was aged 29, and the growth had lasted twenty-five years. He painted nut that chondromatin of the hand were usually multiplo, and sprang from the medulla ; this, on the contrary, was single, and arose from the deeper layers of the periostenm, thus resembling the tumours of this class springing from near the articular ends of long bones.-Mrr. Joyes doubted the peripheral origitu of the chondroma; bat Dr. Harrits confirmed Mr. Bishop's abservation that the phalanx from which the tumour had sprung was intact, excent as to its periosteal covering.
Alopecia--Dr. Eames showed a collier, aged 21, affected with complete alopecia. The patient's hair began to fall oll about four years before. A wash of hyposulphite of soda was used, and the dieease appeared to be cured. Twelro months aro tho affection returned, aod by April last all hnir hail disappeared from the body, except in the axille. It remained in this sta"e until last September, but hair was now again appesring.

## ABERDEEN, BANFF, AND KINCARDINE BRANCH. <br> Wednesday, December 21st, 1887.

Charles Suith, M A., M. R C.S., President, in the Chair.
Ophthalmoplegict Externa.-Dr. McKenzie Davidson shorred a case of bilateral ophthalmoplegia externa. The patient was a healthy woman, aged 26, of good family history. Eight years previously she began to complain of pain in the eyes, and discomfort, as if there were sand in them, with slight watering. At the present time the patient had double ptosis. On lifting the eyelids bath eyes were Eeen to look outrards. The right eye could follcw the finger inwards to a certain extent, bnt the left had no power of movement inwards at all. Otherwise the condition of the eyes was normal, nor did the discs show any trace of previons nenritis. These symptoms-almost complete paralysis of both third nerves-pointed to a central lesion locsted at the lower part of the third gerve nacleus. Dr. Davidson could not discover any obvious csuse. Though her appesrance was snggestive of syphilis, no history of that discase could be elicited. The treatment consisted in the exhibition of iodide of potash gradually increased.

Retention of Urine.-Dr. Urqueart read notes of some cases of retention of urine.

Cancerous Uterils.-Professor Ogston showed a specimen of cancerous uterus which he had removed through the vagina. The cervix shered a distinct rim of healthy macous membrane surrounding the "cauliflower" vegetations. The patient got up eighteen days after the operation, and left the hospital in three weeks.

Intra-alveolar Fracture of Central Incisor.-Dr. W. H. Willjamson showed a specimen of intra-alveolar fracture of a right central incisor. There was a double fracture of the dentine at one point and of the cementum at another. The cementum had evidently nnited after the first fracture, and long after had been fractured at a different point. The pulp had been completely calcified.

## REVIEWS AND NOTICES.

On tee Animal Alealoids, tee Ptomaines, Leucomaines, and Eitractives in their Pathological Relations, being a Short Summary of Recent Researches as to the Origin of Some Diseases by or through the Physiological Processes going on during Life. By Sir William Aitien, M.D, F.R.S. London: H. K. Lewis. We have given in full the title of this little book, as it states exzetly what the contents really are. Its pages, the Professor states, owe their existence to a lectare delivered by him introdnctory to the course of instruction at the Army Medical School at Netley.

The investigations underlying the most important practical mork of the military medical efficer relste, we understand, especially to the causation of diseases, with a view to their prevention. There is no disease which spparently acknowledges a single cause ; but rather there are many and ever varying factors or conditions which, as antecedents, combine to produce disease. Many physiological agents undoubtedly aid and abet these factors; but we must regard the phy; siological agencies thernselves as competent, under certain abnormal conditions, of generating many forms of disease.

The author deals first with the elaboration of toxic alkaloids and of azotised uncrystallisable extractives from proteid substances, and shows how they are the necessary products of rital physiological processes. He next deals with the pathology and symptoms of poisoning by these bodies, poisoning as the result of an accumulation of normally elaborated but toxic products; and he thus accounts, after a careful study of the physiology and pathology of fatigue fever, for the origin of certain constitutional diseases, such as the typhus of armies and of camps. What is true of fatigne fever and of typhus ferer, Sir W. Artken says is equally true as regards typhoid, and he is convinced of its occasiooal spontaneous origin.

The researches of Professor Gautier and others have now abundantly proved that not only alter death, but even during life, the animal organism, by virtue of its physiolegical powers, is able to elaborate the alkaloids to which the name of leucomaines has been applied, bodies which are, many of them, esseutially toxic io their properties, and which resemble so closely tho poisonous cadaveric alkaloids to which Selmi first called attention. This subject receives due attention at the author's hands, who treats the whole question from its cliuical aspect in a most creditable manuer. The book, indeed, is well worthy of perusal, not only by the army surgeon, but also by
every fhysician who is interested in sach an important problem in medicinc.

The work that has been done and the discorerics that have ' een made in connection with these animal alkalcids are rery extens: re, but we carnot yet comprehend their full significance, far less fore ast the numerous and important results to which we have every resson to believe they will lead. Therefore it is that, filled with hope and assurance, we look confidently formard, with Sir William Aitken, for more of the same thoughtful work, so as to accelerate those dis. coveries which promise anch a great and glorious future for patho$\log y$ and practical medicine.

The Natural History of Cow-pox and Vaccinal Sppeilis. By Crarles Creigeton, M.D. London: Cassell and Co., Limited.
It is importent for the candid reader of this mork to bear in mind the elementary and well ascertained facts as to the formation of mattcr. However much the cosmogony or creation of the world had pazzled philosophers of former ages, a fresh departure, made in 1797, placed the qnestion in so clear a light that it makes a fit preface to the argumenta of Dr. Creighton. At that date we learnt for certain that a primæval point, or punctum saliens, of the universe, evolving itself by its own energies, mored forward in a right line, ad infinitum, till it grew tired. After which, the right line which it h3d generated began to put itself in motion in a lateral direction, describing an area of infinite extent ; and, further, that this area, as soon as it became conscious of its existence, sncceeded in forming a solid space, filled with vacuum-a suitable nidus for the generation of chaotic matter; from the accumnlation or deposit of which, as a centre, suns were projected, and from them planets, resulting eventually in organisation. And as with the creation of other matter, so it has been, we nor learn, with the creation of vaccine lymph; it had its own origin, end has sirce demonstrated its own inherent porers. Though discovered about the ssme time that the cosmogony was explained, we have hitherto been in the position of a Sanchonisthon, Berosus, or Ovellns Lacanus abcnt its nature. And now Dr. Creighton has removed the veil which, for many years, had obscured its origin.

Thsnks to an inspired d. volution from Professor Hirsch, Dr. Creighton was able, some years ago, to assure us that small-pox was the linear descendant of an oriqinally innocent eraption, occurring in piehistoric times, among dirty Indians and Africans; and had a aquired its specific snd communicable ability by powers, nowise originally pos. sessed by it, but yet inherent in it, and depending upon circumstances frr their development. To this luminous doctrine the present work is a seqnel. Vaccinia, however, differs from small-pox in not haring yet attained the ability to disseminate itself atmospherically ; it is, indeed, within measurable distance of its origia, and cannot be sapposed at present to possess its final powers. It has grown, however, from an antecedent alcerative process in the cow-not, indeed, prehistoric, but in onr times. Harmless pimples (harmless, but potential for harm) forming on a cow's teats become nlcers by the merciless manipulations of milkers; those pimples, instead of dying sway as pimples should, obtain in their alceratien as specific, transmissible quality; and go on to become inoculable from cow to cow, from corr to man-in msn commonly being vesicular, but always having a tendency to revert to the origical nlcerative process of the com. It is that reversion that constitrtes "vaccinal syphilis." This "syphilis" has no concern with venereal syphilis. The ulcerated arms of individnal children, and the gronps of syphilitic inoculations that re read of, are alike manifestations of this reversion to type. As with "vsccinal syphilis" so, re know (on Dr. Creighton's authority), with veceresl syphilis; it has originated at some time in a simple scratch or sore, and by degrees, as time and opportunity have been given it, it has become a transmissible disease.
All this is very conclusive and satisfactory; of eridence we have none; nor do such theses stand in need of evidence. In its place Dr. Creighton bases his claim to the verdict of the profession and the public largely upon abnse of the plaintiffs attorney. He shows up with much detail what he characterises as Jenner's sophistries and falsehoods. Readers who have not got at hand a library of early vaccination literature have scant means of learning the facts ot that period for themselves : but we may observe in passing that they will do wisely to verify each statement of cur anthor before sccepting him. His chief claim to be heard, however, is based on his own certain and infallible knowledge ; and he kindly rarns the "apologists of a contrary doctrine that he, appeals to facts that are as well authenticated as any fscts can be;" and sach people
mant beware how they attempt to wrap themselves in any "mantle of ertholoxy." Ho does not rttempt to add to our knowledge of the protective porers of Facciantion; and ho gires us no assistanco towarde reducing whatever of risk thero may be in the operation as nowadays practised.

We coull hare wished that it hall fallen within tho scope of Dr. Creighton's essay to notice a hynothesis of Dr. 13irdrood, of the ship hoppitals, another recent contributor to the literature of small-pox. This disease, being primarily a skin affection, and caused by germs that reach the sasecptible indiridual through tho atmosphere, is confloent or discrete, severe or slight, according as more or less of the germinating matter bappens to fall unon the skin of the individual. This is, of course, why a person living near a amall-pox hospital is more liable to attack than a mocre distant person-; this is no doubt the reason why the face gets most pustules; and this (thaugh we never heard of the fact) is why persons of large superficial ares obtain more nutuerous small-pox pustules than amaller persons. As the conatitutional effoct of small-pox results from the local complaint, a certain security against death as well as against attack should be pos. sessed by persons having small dimensions. Dr. Birdrood's eridence on this point is not yet forthcoming, but for the present we may conimend Dr. Creigaton's book to his study, and bid him bewere of holes, exposing ueedloss skin, in the mantle of his orthodoxy.

A Manuil of Bandiont, adapted for Self-Instruotion. By C. Hexrl Leosard, A.3., M. D., Michigan. Second Edition. Bsillière, Tindall, and Cox.
A Handbook of Roller Bandaing. By Fanny E. Fullafer. Grifith Farran. 1887.
dmaulanoe Lectrres. Dy J. M. MartiN; M.D. J. and 4 . Churchill. 1887.
Acoidental Isiurtes, teeir Relief and Immenlate Treatmpit. By Jabes Castlie, M.A., M.B., F.R.C.S. William Clorecs and Sons. 1SS7.
Tur lirst of the abovementioned morks by Dr. Leonard, of Michigan, is one of the clearest and best manuals of the kind we have seen. Certsinly the proface tarnishes, to our mirds, the brightness of the work itself, for it is truly, as he allowa, a chapter of preliminary egotism to which we ara nuused in onr sober ways. But the material contained in the book is so practically laid before the reader and so clearly givan that we cannot help being more than pleased with the work. We do not know any mannal on the suhject so rell illostrated, and the author bas adopted a method which we recognise as extremely raluable and originsl. All his diagrams-and they number 139-are done in white lines on a black gronnd, with the result of making them. far clearer than the nsual diagrams. But not only are the diagrams clear, they aro correctly drawn, and oxplain themsclves in a way Te rarely see.
Moreover, the explanations and directions for nae are particnlarly good-concise, clear, and practical-and are eridently the ontcome of a large experience in the manipulative mork of baudaging. They are expressed with the domnightaess for which our American brethren are proverbially famous, and we have here many common-sense remarts which will be neefnl to learners and to practitionore alike. In a small mannal of 150 pages it rould bo diffeult to find practical in. fomation an clearly and folly fiven.

It woald be unreasonable to expect tho work to give everything that conld be giver in a subject which allows of so many little fada and jreferences according to such manipulator's lanciee and dexterity; bat the author has tried to include many other applicationa of minor surgery, and the first twoaty.five pages aro devoted tc poultices, the use of charpie or cotton wool, and the different kinds of compress, While the last fifty pages ioclude chapters on immorable dressings, atrappings, and the different kinds of knots. J3nt we would recommend the anthor to give the plan described in Ileath's Minor Surgery as hy far the best direction for tying a reef koot, and ono which every dreaser ought to be aware of.

The work has deanredly reached a second odition, and we feel it can bo cordially recommondod as a sonnd aud useful guide for English atadents and for rursos, and those wishing to learn more of bandaging than is uenally learned in ambelance clesses.

The second is a small sixpenay pamphlot of trenty pages, meant for pupila attending ambulance clacses. It has a large number of i. lustrations, which certainly do not reflect credit on the draughts. man fur their leesuty, clearness, or correctness. We do not cxpoct a
little book of this kind to contrast farourably with snch a work as has been noticed above, but we feel that a simple work for heginnera should be writton clearly and illustrated well. I'upils of the ambulance classes will be wiser to get a better, if rather more expensive, bandbook. Thore is oue pice of advico the authoress gircs, which is good if papils will give themselves time to practise it, and which few refer to on teaching handaging, and that is to be ablo to uso the right and the left hanl in applying the bandage to opposite limbs.
In the ambulance lectures of Dr. Martis will be found very soand advicoclearly given, and well illustrated. We have hrre six lectures which will serve as an excallent guide to those giving such \& course, and at the same time they will be acceptable to pupils as a reference book of immediate aid to the injured. The language used is clear, and the advice full of common sense, which will bo found useful, while the illustrations, which number fifty-three, are many of them very practical, as showidg how to utilise simple means at had. The lectures include (1) Aı Outline of the IIuman Body, with a description of the simplest or most necessary appliances ; (2) Hemorrhage and its Treatment; (3) Fractares; (4) Shock, Choking, and Suffocation; (5) Methods of Lifting and Carrying the Sick and Injured; (6) Nursing, and an Appendir on Foller Bandaging. The work can be strongly recommended.

In the small mannal of Mr. Castlie, on Accidental Injuries, we have a fuller work than the last; and the fact that this is the twelfth edition is an eridence of its popularity. The name given to the subject is a rather faulty one; for whether the injuries are accidental or intentionsl can make no difference in the treatment to bo adopted. It is not often that a work runs to trolve editions in four years, and we must congratulate the anthor apon his rell deserved saccess. In the present edition he has added a chanter on the systematised ferms of loading, carrying. and unloading stretchers as adapted to civil lifo, and recommended by the St. John Ambulence Association, and as many as forty-tro new roodcuts appear in the work. The style is clear, and the directions for the different kinds of baudaging, carrying, lifting, and improvising surgical appliances, are jnst what will provo nseful to those wishing to profit by ambulance classes. It is, however, more a work of reference for beginaers than the lectures previously noticed, and has evidently been extensirely used by those who have had to prepare such lectures, as well as by the classes attending them.

Ueber den Einfluss des Kochsalz und Glatbersalzialtigen Mineralwassers aut einige Factoren des Stoffwechsrls. Vod Dr. B. Londos, Carlsbad.
THE action of mineral waters containing chloride and sulphate of soda npon the nitrogenous exchanges in the body, as well as on the excretion in the urine of the sodic chloride of the food, has received mach attention of late years ; but the results obtained by different observers cannot be said to agree very closely. Seegen, for example, in some papers of his we reviewed some time ago, maintained that the ingestion of sodic sulphate diminished the nitrogenons waste of the tisstres, the bely thus becoming rioher in nitrogenons compounds, but poorer in the non-nitrogenons, particularly the fats. In the excrements, however, he found no diminution in the amount of nitrogenons substances, but the water of the freces was increased, and the amount of aripe either unaltered or diminishod in quautity. Other obserrors, on the contrary, such as Bischoff, Voit, and Pettenkofer, etc., have obtained different results. Bischoff, for instance, foumd that a large addition of sodic chloride to the food increased the urea excreted, the quantity rising in pronortion to the colume of water poured oat; the ingestion of mach water also causing a similar increase. And according to Voit, an augmented nitrogenous tissue-waste occurs in consequence of the itgestion of sodic chloride, a decided diuretic action also manifesting itself. The endosmotic equivalent of the sulphate he further found to be greater than that of the chloride.
The results of a great many other observers are siven as to the incressed consumption of albumen in the tissue cells when water is imbilued in considerable quantities; and reference is made to Professor IIay's conclusions that a rery slight increase in the urea excretion occurs then sodic chloride and sulphate are largely taken, and that after some hours diuresis sets in with consequent concentration of tho blood.

Althongh the suthor, as the result of a series of carefully conducted aud laborions experiments with Carlsbad mineral waters, was unable to arrire at any positive concluaions as to the excretiou of nitrngen aod the albumen exchaogea in the organism, yet be uniformly found that the ingestion of these waters incresses the excretion of the urine, the increase following very rapiully on the iogestion.

Ho likewise observed that where the body is methodically flooded by the mineral water, the circulation of the lymph in the tissuas is quickened, the organic activity is increased, and in the more copious amounts of fluid poured out at the kidneys, concrements of different kinds may be eliminated. Further, the peristaltic activity of the intestines is heightened in a painless fashion, leading to more copioue motions without diarrhea.

Ignaz Philipr Semiselweis: eine Geschichtlich-Medicintsche Studie. Yon Dr. Jacob Bricek. Wien : Karl Prochaska.
In the first chapter of this monograph a sketch is given of the early history of puerperal ferer as it occurred in some of the chief lying-in bospitals in Europe, so far as any reliable records are available ; and we learn that the mortality from this csuse varied greatly, sometimes being as low as $1 \frac{1}{2}$ per cent., and sometimes as high as 26 per cent. Till Semmelweis's time the theories held as to this disease were of the vaguest and most varied kind. He appears, however, to have been really the first to regard it as the result of a wound infection, and as a process identical with pyemia. Indeed, he laid it down as a fever produced by the absorption from the inner surface of the nterus of decomposed animal matter, generated in the patient herself, or conveyed to her hy unwashed hands or instruments.
Semmelweis's life was really a short one, for, born in 1818, he died in 1865, at the early age of 47 ; but short as his life was, his energy and genius enabled him to accomplish much.

The eril effects produced by the contact of dead animal matter with the genitals of pregnant or lying-in women, convejel on the fingers of students or medical men from the dead house or dissecting room, were clearly racognised by him, aid we find him in 1847 recommending the handa of all who had to do with the lying-in room to be thoroughly washed in chlorine water. By this means he was ahle greatly to roduce the mortality in his mards. Not only did he recognise the poisonous character of putrid animal matter, but he likerise regarded the living secretions as being capable, under certain cenditions, of producing puerperal fever; and he pointed out the dangerous qualities of the lying-in chamber, if tainted with animal exhalations. We notice further that he brought his views formard in London in 1848, and a paper of his is to be found in the MedicoChirurgical Transactions (vol, xxxiii) "On the Causes of the Endemic Puerperal Fever in Vienna." But little attention, we are sorry to aay, appears to have been paid to his theories, although their truth we are now bound to acknowledge. Semmelweis was certainly, in some respects, in advance of his time, and this led altimately to his, withdrawal from Vienna to his native Pesth. During his six years' superintendence of the St. Rochus's Hospital in that city only eight deaths occurred from puerperal fever in 933 deliveries. In 1855 he was appointed professor of midwifery at the high school. His prophylactic measures against the occurrence of puerperal fever consisted, as far as possible by the means at his command, in hindering the entranee of decomposing materials from without, in preventing internal decompositions, and in remoring at once any products of these de compositions. He further tried to introduce these antiseptic measures into operative gynecology. In some measure we may therefore say, withont detracting in the least from the honours so deservedly due to Lister, that Semmel weis anticipated some of the antiseptic methods of that distinguished surgeon.
The whole monograph muit prove most interesting to all obstetric physicians, and the anthor deserves every credit for the shle manner in which he has advanced the claims of Semmelweis, a physician who certainly deserves to have his name held in thankful remembranco by his fellow citizens.

Maternity, Infayet, and Childiood: Alapted especially to the
Use of Mothers, etc. By Jonn M. Keeting, M.D., Visiting
Obstetrician, and Lecturer on the Diseases of Women and Chil-
dren, Philadelphia Hospital, etc. Ediuburgh : Young J. Pent-
land. 1887.
The supply of works, large and small, on the hygiene of rregnancy and the caro of iufauts is certininly, so far as number goes, in excess of the demand, and an addition to the number is only justifable if the work is oue of decided merit. The author really appears to have complied with this condition; tho mumerous practical suggestions distributed throughont the book testify to his experience of the subjects he treats, and his style is pleasing as well as clear. It is obriously difficult to say anything new with respect to the precantions to be taken during pregnancy, or the management of the nerr-born infant; but there is scope for observation and improve-
ment when we come to the question of rearing infants by any other than the naternal snpply.

Mlothers and nurses can never be too strongly impressed with the necessity for caution in the preparation and administration of the artificial food to which recourse mast be had. A number of useful formule are given for making cow's milk resemble the human secretion; but they all contain milk-sugar, a substance which, as the author himself informs us, is peculiarly liable to turn acid. We may note that the author prefers the "arerage" mixed milk to that obtained from one cow, except in the country. The directions for peptonising milk are quoted from a lecture by Mr. Fairchild, and cover the whole ground; but the author abstaing from offering any opinion as to the ralue of this method of feeding-an unfortunate omission, even if intentional, for it is a department which is just now to the front.
The lists of different foods comprise many not known in this country. With reference to weaning the child, Dr. Keeting is of opinion that, after four or six months' nursiog, the gradual addition to the dietary of a bottle is of advantage, and he gives some useful hints as to the choice of season. Dr. Keeting sets his face against the indiscriminate use of perambulators, the evil results of which ", any mother can see for herself by going to one of the city parks," and mothers would do well to bear his remarks in mind.
The author disclaims any intention of countenancing the administration of drags, except when ordered by medical men ; bat he is too liberal in his allusions to the eilects of this or that drug, items of information which directly conduce to that undesirable resnit. It seems extraordinary that he should find it necessary to warn parents that "it is a very great mistake" to procure sleep fer their children by means of "bromide, valerianate of ammonia, brazdy, or gin." Is it not rather an exaggeration to ascribe rickets in the chil.; dren of the mell-to-do to "high pressure and nervous exhaustion," etc.? High pressure is the fashionable bogey just now, but it can scarcely operate at an age when rickets is to be feared.
Chapter xii, on Diseases of the Ear and Eye, is written by Dr. Turnbull. Both Dr. Keeting and his colleagues attach great importance to children being taught to blow the nose properly, and allude to this rery frequently. Dr. Tarnbull relies on Yalvalva's method for the relief of many aural symptoms, but ho omits to conrey the necessary caution as to its nse. He trespasses a good deal on what should be the exclusire domain of the medical man, but in other respects this chapter is rery recommendable. The chapter on Nasal Affections, by Dr. MacCoy, of Philadelphia, is rather too technical for the ordinary reader. The chapter on Throat' Diseases is not equal to those which precede it, and the anthor's classification is obscura indeed. Nerertheless, the book as a whole undeniably attains a high standard of excellence, and may safely be recommended as a reliable and comprehensive gnide to the management of childhood.

## NOTES ON BOOKS.

Sprains, their Consequences and Treatmont. By C. N. Maxsell Moullin, M.A., M.D., F.R.C.S. 18S7. (H. K. Lewis : L.ondon). We have in this polume a carefnlly written essay on the subject, rather dealing with it from a philosophical point of riem than from the practical view of the lecturer to popular ambulance classes, or even as adapted to the wants of the busy practitioner. The general principles of treatment are very carefully and fully considered, but it would bo dificult for student or practitioner to laarn what the author would recommend as the most appropriate treatment in sprain of any particnlar joint. It should rathicr be read by the strdent before he begins to see the practico of surgery, and much as we recognise the soundness of the views held by the anthor, we do not think the work so likely to be.popular as the more practical ones which are now issued. And yet there is very much that is practical, rather hidden away in the masses of this volume, for the clapters on treatment by heat, cold, pressure, rest, forcible manipulation, and massage, are rery complete, and make up a large proportion of the book. The whole is carefully written, and will repar thoughtful perussl, for the author, thongh strongly in favour of active measnres of manipulation when joints have become fised, is inclined to the simpler forms of treatment iu ordinary cases, and the bolder methods of some modern writers are looked upon with only partial farour. The chapter on massage is particularly good, thoush it assumes more knowledge of the process than is often possessed, and its mode of application to different limbs is not sufficiently described. There is, however, much
in this book that does not readily aprear, and we would recommend a mach fuller index than at prescut exists, for the ruder loses much that would ${ }^{\text {prove }}$ useful to him for reference.

The Asclepiad. Nic, 16, Yol, iv. -This number begins with a lengthy article on the Clinical History of Scarlet Fever, in which Dr. litemardson discnsses sereral questions of special interest at the present time, when the recont epidenic of the disease in the metropolis seems to bo on the wane. As to the occurrence of scarlet fover at different periods of life, he shows that it attacks most frequently in the third and fourth years of lifo. In London the chicf incidence of tho diseaso is in the four monthe from September to Diecmber, inclusive, whilst in New York, during the months from July to Norember, inclnsive, the death-rato from the discase is below the averege. As to the recurrence of scarlet fever in the same iadividual, the author states that he can discover, neither in litersture nor in general oxperience, a caso in which a second attack of scarlet fever has proved fatal. The mortality from the disease, its types, idiopathic and rheumatic scarlet fever, the pathology and poison of the disease, and its treatment, are headings of ecctiens of this useful article. The Physiology of Gocd and Evil, forms the subject of an article, which is closed with the following dictum, that "Emphatically, science re echoes the saying in all its solemn import ; 'The wages of sin is desth.'" A biograr.hical sketch of John Brown, M. D., aud the Brunonian system follows, in which the traits of character and person of that physician are well portrayed; Whilst a portrait of him accupies the place of hecour at the beginning of the book. A few other short articles go to make $u p$ the substance of this numbar, which, with the inder and table of contents thereto appended, completes the fourth volume of a work which, whstevcr else may be thought of it, still maintains the character for industry and speculation of its author.

Dermatitis Venenata: an Account of the Action of External Irritants apon the Skin. By James C. White, M.D. (Boston, Mass. : Cupples and Hurd. 18S7).-Under the title Dermatitis Venenata Dr. White has given the profession a book which, as a work of reference, will be useful to all those engaged in the practice of medicine, and will be indispensable to all those who are more specially interested in materia medica. He has discussed in a clear, concise, and systematic form the action of all substances belonging to the vegetable, animal, and mizeral kingdoms which are known to produce dermatitis when applied to the hnman skin. Dermatitis of this kind is common among djers, printers, chemists, silk-weavers, manufacturers of coloured papers and cloths, soap-makers, ctc., snd amongst a different class of persone, those, namely, who not infrequently irritate their skin by the nse of cosmetics. The list of substances whese action is discussed by Dr. White is very large. The work is entirely systematic, and is mritten in a scientific apirit. As a solid contribution to practical medicine, wo cordially recommend it to our readers.

The Diamosis and Treatment of Eczema. By Tom Robinson, M.D. (London: J. and A. Churchill. 1SS7).-Dr. Robinson has had considerable experience in observing and treating eczoma, and has assimilated with more or less success the ideas of Professor Laycock, Sir James Paget, and Mr. Hutchinson ; we fear not always with complete success. Dr. Robinson believes that eczems is due to a physical peculiarity is the structures of epiblastic origin, and that persons who have the eczematous liathesis have certaia peculiarities, namels, "a tendency to become bald or grey carly in lifo; their teeth degenerate early, somotimes the incisors are pitted or marked transversoly, they wear down and fall out in some instances in the most unexpected way. The nails are also of great interest in thoee pationts, and present many forms of malformation; in some instances they are marked by white spots or whito transverso lines, they are pitted with small circnlar depressions, or they ara marked by transveree farrows; the longitadial flutings are exaggerated in others. The shapo of the asil is also of importance. It is often flat, sometimes even concave in its upper serface, and is frequently shaped like a aluiell, and they are offen the aubject of fatty degeneration of the cornea, constituting the state which is called arcus senilis." The chapters on the diagnosis and treatment of eczems contain nothing thet calle for remark.

Letls's Medical Ledger. (London: Cassell and Co., Limited.)This bandy volume has been arranged with the object of facilitating book-keeping, nad lessening the troable which the practitioner incars in keeping his ledger. It is arranged for nse in conjunction With Lelus's Medical Diary, and is calculated to render the keeping of accurate acconnts, without unnccessary detail, a matter of easy attainment. When the diary bas been use 1 as a journsl, the data
are then postel to their respective accounts in tha le iger. The use of abbrovistions in thiso books materially lessens the amouut of writing which is required whon ordinary dayboaks and ledgers are used. The publishers of the Ifcdical Iedger state that they will be glad to reccive suggestions for the impravement of the work, which, we may remark, is published in foolscap size, with 100 or 500 pages ; also in quarto, with 200 or 400 pages.

The Climatic Treatment of Thithisis in the Statc of Colorado. By M. Charteris, M.D.-Iu this littlo pamphlet Dr. Cnarteris gives the results of an autumn risit to Colorada, with some remarks on the climate of that picturesque State and ita adaptability to the case of ${ }^{3}$ tho consumptive. He claims for Colorado that it possesses all the advantages wiich have made Davos famous, with the additional recommendation that it is suitable for continuous residence throughout the year, and offers the prospect of remnnerative employment to those who are sufficiently recovered to resume their avocations. These are solid advantages, and in view of them, and in the grawing popularity of high altitudes io phthisis, it is not surprising that onr Americsa brethren unhesitatingly give the palm to Colorade among the maltitude of compating sanatoria for phthisis. Dr. Charteris advises that the consumptive should pass the winter at one of the heslth resorts in Colorado, of which Colorado Springs seems the most desirable, and then proceed to a ranche in the spring. By this means the essential point of continuous open-air lifo may be secured, and well-paid though rather rough work may be obtained by those who desire it. We are somewhat surprised that Dr. Charteris should include Denver, a tomn with 80,000 inhabitants, among the desirable places for the consumptive, as the noxious influence upon phthisis of the air of large towns is now well understood ; and his own fignres show that in 1886, of 991 deaths in Denver, no fewer than 186 were doe to phthisis-a proportion higher than that of some English cities. He shows, however, that of this number only twenty contracted the disease in Colorado, which confirms the growing impression that the air of high altitudes is infinitely more eflicacious far prophylaxis than for care. It seems not improbable that in the case of persons with hereditary consumptive tendency, or who are otherwise threatened with the disesse, the routine treatment will one day include resort to one of the high-altitude stations. Dr. Charteris gives a few cases irs illustration of his views, but the clinical details might have been more fully given. His viewe generally on climate are up to date but some questionable statements are made, such as the remark that a sea-voyage tends to preduce hæmoptysis. It would be a misfortunu if the idea should prevail that hemorrhage was any decided contraindication to allowing the consumptive the excellent chance of recovery which a prolonged residence on shipboard in some easee affords. There is really no evidence to prove that this opinion is correct.

Outlines for the Management of Dict in Health and Disease. By Edward Tunis Bruen, Physician to the Philadelphia and University Hospitala. (Edinburgh: Young J. Pentland. 1887).-This. book is one of the "practical lessons in nursing" serios, and its substance was originally delivered to the nurses of the training schools of the Philadelphia, University of Pennsylvania, and women's hospitals. The first chapter takes up the eiementary physiology of digestion; but, bearing in mind that the work is presumably destined to educate and instruct non-medical persons, the author has failed to place himself on a level with his readers. He talks of "metabolism" and "assimilation," "succus entericus" and "arterial tension," without reflecting that such terms mast be difficult of comprehension to persons outside the pale of the profession. The same fanlt pervades the subsequent chapters. The information, for example, that nitrogenous principles underga resolntion into urea and a "complementary hydrocar-. bonaceous product " is of doubtful value. There is an extensive tabulated list of food substances arranged in the order of their digestibility, in which black tea is classed as "easy of digestion," aud applee rank with coeked fruits. With due allowance for individual peculiarities, however, such lists may doubtless serve a useful purpose. The author very properly objects to the habitual use of alca-holic beverages, except when prescribed by the physician as medicinea, but it is onen to doubt whether the cocoa milk substituts mill become popular in licu thereof. His advice to elderly people to partako. of brandy, whisky, or gin " just before or with the meals" aavours of physiological heresy, as docs the permis iou given subsequently that. tea may bo used "Fithout detriment if taken without food;" but in justice to the author, it must be remarked that he inculcates tho: greatest cantion and reserve iu the use of stimulants, whether alcoholic: or otherwise. Water is evidently the author's favourite beverages.
and "should be freely nsed between meals." We cannot subscribe, moreover, to the assertion that "inorganic substances in drinking water, unlcss they carry with them sewage matter, are unpleasant rather than harmful." It is hardly correct either that charcoal is the only deprative substance which can be safely and yet effectively mingled with water without communicating taste or hurfful properties. Ran. dom ststements of this kind do not add materially to the value of the book. Allusion is made to the "popular fallacy" of supposing that better milk can be obtaised from one cow, and the mized supply is preferred, but it is a most dangerous fallacy on the author's part to assert that placing milk on ice "obviates any probability of the transmission of I risc nous microbes into the aystem." The addition of two ounces of lime water to half an ounca of milk is certainly exces. sive, though this mixture is credited to Meigs. Perhaps two ounces is a misprint for teaspoonfnls, which is ample. On the whole the book of a ip to the usual mark, although it contains much information of a practical kind.
Tae Diary for 1888 of the Sanitary Record and London , Hedical Rccord goes far tomards attaining the object which has been held in view in its preparation, namely, to provide a handy and compendions vade mecuin for the professional man and sanitary official-a book in which he may not only record his appointments and doings of each day, and be reminded of daties which the recurrence of particular dates imposes apon him, but to which he can turn with confidence for facts, figures, statistics, suggestions, instructions, references, addresses of societies, and manifold other hints and helps for which he must otherwise have reccurse to a whole library of books. Besides the Diary proper the volume contains a full and careful review of the Acts on sanitary matters passed during last session; an account of the various diplomas in public health which exist, and how to obtain them ; an article on the duties of househelders; instractions as to raccination. both with human and with animal lymph; abstracts of the statute law as to various sanitary subjects; an interesting article by Mr. Goschen on the reform of local gorernment ; and a quantity of other generally useful information such as is continually wanted. Such a book is of constant value to persons engaged in sanitary work.
Medical Diagnosis : A Manual of Clinical Methods. Bx J. Grahass Brown, M.D. (London : Simpkin, Marshall and Co. 1887).-Dr. Graham Brown's work has reached a third edition in a very short time, and the present issue fully justifies the farourable notice we gave of its predecessors. The book is admirable, full of valuable information, Which is given in the most conciss and yet intelligible manner. It is primarily, of course, a stndent's handbook, bat the student's teacher also will find it a useful book of reference to remind him of methods not in every day use, and to refer him to authorities where fuller details mayy he ubtained if desired. The style is so condensed as to recommendations easy reading. This however is, in our opinion, a bedside and in the clinical laboratorr, where the facts themselves may be studied with its assistance. It were ungracious to find fault where nearly everything is excellent, yet we may be allowed to point out that in estimating the high tensien of the pulse, no warning is given of recurrent pulsation. This is a matter of impertance, but almost invariably omitted from clinical handbooks. A little fuller account of Ehrlich's method of staining the tubercle bacilli is desirable ; in our hands this has provod by far the most reliahle method, but it will certainly not be fonnd satisfactory if employed exactly as described by Dr. Brown. We would suggest, too, that Sir William Roberts's simple and essentially clinical methods of estimating albumen and sugar in the nrine might find place in the book. Dr. Graham Brown is to be congratulated apon the success of his book, and we recommend it strongly.
Donations and Bequests. - The Earl of Derby has given $£_{\text {greave to }}$ St. Mary's Hospital, Manchester.-Mr. Anna Maria Hargreaves bequeathed $£ 500$ to the Halifax Infirmary- - "A. F. F." has given $£ 300$ to the Hospital for Sick Children. - The Misses Fairfax have giren 100 guineas to the Great Northern Central Hespital, to name a bed.-The executors of the late Mr. John Heary Smith have given $£ 100$ to the London Hospital. - The Hereford General Infirmary has received $£ 100$ under the will of Mrs. Ann Powell, of Whitecress Lodge. - The Roys Mospital for Diseases of the Chest has received as a Jubilce Donation to the British Home for Incurables. - "A Friend to the Hospital" has given 50 guineas to the Dental Hospital of Londen. - The Goldsmiths' Company have given $£ 50$ to the Metropolitan Conralescent Institution.

# REPORTS AND ANALYSES 

DESCRTPTIONS OF NEW INVENTIONS,
in MEDICINE, SE゙RGERY゙, DIETETICS, AND THE ALLIED SCIESCES.

ORO-NASAL VEIL ESPECIALLY ADAPTED FOR OPHTHAL. MIC PRACTICE. ${ }^{\text {² }}$
By JOHN WARD COUSINS, M.D.Lond., F.R.C.S.,
Senior Surgeon to the Royal Portsmouth Eospital, and to the Portsrouth"and
South Hants Eye and Ear Infirmary.
The veil represented in the engraving will bo found very serviceable and convenient by many practitioners engaged in ophthalmic
 work. During the examination of the
fundus of the eye, especially by the direct method, the faces of the surgeon and the patient are separated by an interval of only a few inches, and the respiratory exhala. tions of many patients under such close adjustment are often rery unpleasant and disturbing. The veil is suggested as a simple protection against the expiratory interchanges which occur during close examination ; and, from personal experience, I can recommend its use to any of my professional brethren who possess a sensitive olfactory organisation, and who are called upon to labour frequently in
the out-patient department of an ephthalmic hospital. It consists of the out-patient department of an ophthalmic hospital. It consists of a silk curtain, suspended from a frame of silver wire, which is shaped to rest upon the nose and over the ears in the same way as a pair of spectacles. The nasal loop is curved downwards for the parpose of contact with the respiratory ore and keeping it from coming into direct of fexible wire, and can be bent to fit the fere accuratels is made exclude the direct passage of air. Many of my friends have alre to
of used this simple contrivance in their practice, and they have alrealy to be a surgical comfort of great utility. Sometimes I use it durin laryngoscopic examination. The veil can be obtained, very neatly made, from Messrs. Maw, Son and Thompson, at a trifling cost.

## van abbott's gluten preparations.

We have received from Messrs. Van Abbott, 5, Princes Street, Cavendish Square, the well. known manufacturers of glaten bresd for diabetic patients, samples of gluten butter biscuits, gluten buns, and almond cakes, sweetened with saccharin.
The butter biscuits and buns contain only as small a percentage of atarch as is abselutely requisite to hold the glaten together-namely, 1.6 and 1.9 respectively. The almond cakes have 3.8 per cent. of starch, with 4.1 per cent. of sugary matter.
The preparations are flaroured with saccharin, the new sweetening principle, which thus finds its most legitimate application. Unfortuarticles, its taste is so persistent as to outlast for hours that of the ceedingly minte fisonred with it, even if the quantities used are exened gluten minnte. Nevertheless, we doubt not that these new sweetoned gluten preparations will find favour.

## G. AND G. STERN'S "PUMILINE."

Tre Pinus Pumilio is a species of pine growing at various altitudes among the Alps. It is a fairly large tree on the lower lerel's, but above the line of porpetual snow it never reaches a condition beyond that of a small tree or shrub. It has long been observed that patients suffering from diseases of the throat and lungs, or from rheumatic and similar affections, derive benefit by residing near or amidst pine forests, and it is claimed for the Pinus Pumilio that it has more medicinal activity than other pines. The use of the products of this tree, apart from residence near pine woods, has been shown to be of rery considerable ralue in the treatment of the diseases ahore-mentioned. The yolatile oil obtained from Pinus Punilio certainly differs in its peculiar fragrance and in other physical properties from oils sielded by most other coniferous plants. That obtained from the trees groming abova the snow line is stated to be superior in medicinal activity to that obtained from trees growing in the valleys.

1 Exhibited in the Ophthalmic Section. st the Auntal Meetiog of the Association Dublu, 1E8\%.

Spocimens of pmailine essence, pumiliae oxtract, and pumiline jujutes have bean aubinitted to us hy Messrs. G. aud G. Stera, of 11, Hilliter Syoare. The essonce is the volatilo oil obtaineal only from trees growing above tho snow line. It is very fragrant and agreeable, and can bo employed in a great varioty of ways, either internally or externally.

The extract is obtained from the needles and young shoots, and is of the consistenco of thick trencle. It is used for baths, aud as an external application 10 gout, sheamatic, and neuralgic affections. The jajobes aro vary palatable, aud possess a most agreeable aromatic lis your.

MACKESSON ANDD ROBBINS'S CAPSULED PILLS. We havo received from Messrs. Mackesson and Robbius, of New York, a annple of their caprulet pills containing one-sixtieth of a grain of strychnine. They are recommended as being nseful in the cure of dipromania. They are, like all the pills maido by the frus, ovoid in ehape, and heence can bo more readily swallewed by many patients than those of the ordinary round ehape. They aro elegant in appearance, and tho covering is tasteless and jerfectly soluble.

## DAHL'S DISPEPSIA CAKES.

Drapersla Cake Mlangfacturing Company, Drooklyn, N.y. Tupes biscuits are prepared from the outer layers of cereal graing, in which a considerable proportiou of albuminoids, fat, and phosphortc acid are contained, and which, in larger or less proportion, enter into the composition of brown or whole macal bread.
In spite of the somembat unprepossessing and woody appearance of tho dyapepgia cakes, we fonnd the percentage of indigestible fibra (cellulose) to be only 4.4 , whilst there are no less than 13.5 per cent. of alhuminoids, with upwards of 4 per cent. of lat. The cakes are, therefore, highly nourishing.

## LIO. CAULOPMYYLIN ET PULSATILLE CO. (OPPENHEIMER).

This preparatiou is recommended by the makers (Mesirs. Oppen. heimer, of Sun Street, Finsbury Square), as well as by iadependent medical testimony, as being a good uterine tonic, and useful in the treatment of painful, suppressed, and excessive menstruation. It is also stated to restore tone to tho wholo genitourinary system. It is a well-made preparation.

## THE ICHTHYOL COMPANX'S PREPARATIONS.

Ichrnyor is a substance obtained by processes of distillation from peculiar fossil deposits, consisting largely of fish. It has an odour not wholly unlike that of cabbage, and contains a considerable proDortion of sulphur, much of which is unoxidised. A few years ago Dr. P. G. Unna, of Mamburg, called attention to the therapentic properties of ichthyol. Siace thon its effects have been tried by many medical men, chiefly in Germany. Wo believe that it has not been extensively employed in this country, bat the Ichthyol Company (Cordes, Ifermani and Co.), of Famlurg, now offer several of its pre-
parations both for interoal and estensl use. It has been advanced parations both for interoal and extcrnsl use. It has been advanced with great weight that ichthyol is curative in many akin diseases, for example, eczema, psoriasis, ichthyosis, etc., and that it is of great Falue in rheumatism, lumbago, ard similar affections. Ichthyol can exist in combination with many bases, but the armmonium sulphichthyolate is generally recommended. This, however, has a somewhat nupleasaut taste, and ia therefore best taken internally in the form of pills and capsules. It is also put up ia the ferm of ointment for external use, as rell as of a soap for rough skin aud chapped hands.
An alcolol-ethereal solution can be nscd as a spray in headache, nearalgia, and an ichthyol planter and waddling aro also emplojed. The rarious preparations forwarded to os by Cordes, Ilermanni, and Co. form a most excellent and couveniaut sories.

CASCARA SACRADA FIUUT LOZENGE: (SACKER'S). One disadvantaze in preacribing liquit preparationy of cascara sagrada is that they impart to mixtures containiag then a very bitter and napleqsant taste. The lozeares malle by Mr. WW. E. Sncker, of 79, Fencharch Strcet, contain the active matter of the bark of rhamnus purshlana (cascara sagrada), raixed in anch a manaer with a froit pasta that the bitcerness of the drug is very well diagnisell. Wa have found by experiment that they arc effoctual as an aperient, and at the same time they are fairly palatable. The dosc for an adult is from same to three lozenges.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTION 3 FOR 1858.

Sunscrirtions to the Aasociation lor 1888 locame due on January 1st. Members of Branches aro requested to nay the same to their respective Secretarics. Mernbers of the Association not belonging to Branches are requested to formard their remittances to the Gencral Secrutary, 429, Strand, London. Post-office orlers should bo made payable at the West Central District Office, High Holbora.

## (The British) flediad Journat.

## SATURDAY, JANUARY I4th, 1888. <br> THE UNIVERSITY OF LONDON AND DEGREES FOR LONDON STUDENTS.

The Senate of the University of London had under consideration, on Wednesday last, the question of opposing the granting of a charter to the Royal Colleges of Physicians and Surgeons of London, for the purpose of conferring degrees of zoodicine and surgery. The Senate discussed this question in a large spirit, concerning itsclf only with its position as an University of London, and whether the principle of granting degrees in medicine and surgery by a body other than itself should, as such, be oprosed or accepted without opposition, It resolved that neither its own interests nor the public interests required that it should offer such opposition, seeing that there was a general opinion in the profession that increased facilities for graduating in medicine and surgery in London should be se. cured for the students of the metropolitan medical schools. The resolution to this effect (which was carried only by the casting vote of the chairman) was accompanied by the expression of an opinion that the degree should not be granted cxcept opon satisfactory evidence that the preliminary education was not inferior to that required by the Universities generally, and that the charter should not confer retrospcctive porters of granting degrees. These, of coursa, are only pious opinions; and inasmuch as the: Universities of Durham and Aberdeen, as was nointed ont, confer their degrees, the one after a very moderate amount of eridence of preliminary education, and the other on the production of the ordinary cortificate of registration as a medical Atudent, this recommendation has no vers stringent or leterrent character, and loes not involve even any hypothetical difficulties. Thus far the way has boon cleared in a very satisfactory and encouraging manner for the acceptance by the Privy Council of the rriuciple of granting increased facilities for the obtaining of higher molical titles by the students of the great metropolitan and other schools in England. The University of London is the body most directly concerned in the application, in so far as its nrivileges and monopoliea might have been supposed to be attacked by the new propoails. In the general interests of the profession they havo waired any such claims, and have not stood upon their special or selfish interests. OD the other hand, it is to be feared that the creation of a taaching aniversity will be very prejudicislly allecter unless those who are more immediately concerned in the creation of the new degrec-creating power conbiue to give that attention to the details of the new scheme for which the way is now cleared. The Scoatc of the University of London is quite outside the discussion of the question of tha constitation or scheme of the newly propesed graduating body of the Colleges, and
theys have merely signified that they do not consider that their interests cell upon them to interfere with any such scheme. Obviously, however, the profession must now look alter itself. The crudities and injustices of the scheme of the two Colleges remain untonched. With the principle of the creation of such a body we are all agreed; and the manner of its constitution and government are the points at issue. The University of London has behaved with atriking magnanimity and wisdom. The rest mast be done by the profession itself. The Privy Council will meet on January 16 th formally for the purpose of taking cognissace of such petitions and opposing clauses as may have been lodged ; but we understand that no sctive steps will be taken in the matter till after the meeting of Parliament.

## COLLEGTATE GOVERNMENT.

THE recent address of the President of the South-Western Branch of the Association deals usefully with the pending questions relating to the constitution and government of the Royal College of Surgeons of England. Such addresses and disenssions enable the Branches of the Association to fulfil one of their most valuable functions-the discussion of principles and details affecting the duties and privileges of the profession in their relations to the State, to the great corporste bodies, and to the public. Mr. Swain is one of those public spirited and able provincisl practitioners who turn occasionslly from person3l cares and local occapations to the contemplation of the larger profession3l interests and relations of the body to which he belongs; the practitioners, removed from the immediate porsonal influence of the metropolitan circles which arc constantly engaged in the conduct and government of the corpora. tions seated in London, are able to bring to the discussion minds uninfluenced by the peculiar assumptions which naturally pass, current in official circles and among their junior sarroundings, of the divine right of hospital surgeone sud physicians, belonging to the "grest hospitals," to govern the whole profcssion. In earlier times, this cxcessive preponderance was gained by the isolation of provincial towns and districts, the diffeulties of transit, the absence of opportunities for literary intercommunication by means of widely-read journals, the force of old central and narrow monopolies, the relatively low level of medical education amongst all but a very limited number, and the absence of any efficient organisation or representation of the great mass of the profession. The growth of higher education, the rapid and essy communiestions of modern times, the crestion and urganisation of the British Medical Association and its Branches, tho part of modern journalism, and tho universal acceptance of tho principles of fair representation as the ouly true basis of governnuent have altered all this. But, not unnaturally, those in posscssion are slow to recognise and loth to accept the inevitable reforms which such chayges bring. Without any charge of abuse or nepotism, it is plain that the distribution of the large annual income divided by the Council anong its members in their other capacity of examinors self-appointcd, so to spoak, in itself gives an insensible bias to regard with complacency a state of things which brings about not unpleassnt results. The rich prizes which are thas dangled before the ejes of the younger members and those sble outsiders who are on their probation are not withont their legitimate and, necessary influence. The atmosphcre of the Council chamber and its ricinity have a placating influence which not all can resist. All this is not specielly and
peculiarly applicable to the existing circumstances of the College of Surgeons ; it is the universal experience of history, snd spplies to the beat of men in the best of worlds. The somniferous content of the possessors and incumbents of power and place is historical, and belongs to ham3n nature, of which it often nourishes, assimilates and digests some of the best qualities. Mr. Swain assigns their due part to these inflnences and characteristics of humanity, sbstaining, as is meet and just, from making any personal imputations. He summarises gencrally the facts, figures, and srguments which we have recently submitted to the profession as the bases of the demand for collegiste reform ; and we are glad to see that he and his andience are, like the rest of the profession, generally in accord with them. As a Fellow of the College he fails in sympathy with the Members. It is a not uncommon weskness-in fact it is that which he protests against in others-that he does not feel the pinch of the shoe on any other corns then his own. He is fully conscious of the pablic mischiefs and peculiar injustices of the insdequate powers of the Follows in the government of the College; but, although the Fellows are in a very small minority, and the Members sre the overwhelming majority, and furnish the great bulk of the revenne, he, as \& Fellow, thinks the Members may be very well left without any representation st all, or that the Fellows should be asked to represent them. He repests the old fallacy, that the man who passes a higher examination in surgery, gets his certificate accordingly, and his passport to whatever professional distinction and public and private employment it may secure him, not for these purposes, not for that which the certificate and title represents to the public and profession, but for s political pur-pose-" the sole remsining privilege," whatever that may mean, of sitting on the Council. In other words, the certificate of a further and final examination in surgery has, in this absurd hypothesis, its value more ss representing a possible political monopoly. Even if this extraordingry contention were acceptable to reason and experience, as a judicious suggestion of motive, it would have neither logical nor political validity in the case. It is of course' 3 far less disputable or imaginative proposition that the freemen of the old limited boroughs paid their fees and took up their freedom with the view of obtaining the "sole privilege," as it actually was, of having a very influential and profitable vote for a member of Parliament, a privilege for which some of them obtained much emolument and received many benefits. That was not held to be a valid reason against a great extension of the franchise to its natural constituency. Mr. Swain may be sure that the Fellows will not succeed in their owa clsims by depreciating the far larger and more obvious constitutional claims of the Members. The two canses are really one, and by endeavouring to separate them he is only weakening that in which he is more particularly interested.

## A NEW HIPNOTIC.

A New hypuotic, which appears to possess oertain advantages, has been recently introduced by Professor v. Mehring; it is said to occupy in its physiological effects an intermediate position between chloral and paraldehyde. It has beeu called smylene liydrate, and is sold under that name, but chemically it appears to be tertisry amyl alcohol ; it was originally discovered by Wurtz, and in constitution it is ssid to bo dimethylethyl carbinol $\left.\underset{\mathrm{C}_{2} \mathrm{H}_{5}}{\left(\mathrm{CH}_{5}\right)_{2}}\right\} \mathrm{C} . \mathrm{OH}$. It is a clear,
colourless, slightly oily liquid, which floats npon wator, haring a sfl. gr. of 0.81 ; it boils at a littlo abore the boiling point of water, 10ㄴㄷ. It hay an odour rosembling paraldehyde, with a faint suggestion of camphor; it is warm in the month, and has a hot aromatic taste, with a slight pangent aftor-tasto. It is only slightly soluble in water, though freely in alcohol, and $v$. Mehring recomuended it to be given with extract of liquorico, but Dr. Scharschmidt, who has rocently reported on an cetensive trial of the drug in Professor Jolly's Fards, states that a satisfactory mixture is made by adding it to a little red кine, sweetened with sugar.
Experiments on doga showed that the first effects of the drug were on the cerebrum, the aninals falling in ten minutes or half an hour into a deep sloep; as tho dose was increased the medulla oblongata became affected, respiration became slower, death being brought about by arrest of the heart, reflex action having previously disappeared. In doses sufficiently largo to 1 rocure deep and prolonged alcep, however, these effects on the heart and respiration were not produced. In the dog, he respiratory movements fell from twenty to sixteen, a fall which is not greater than that which occurs in normal sleep; the differences in the pulse rate and blood pressure ware hardly perceptible. v. Mehring gave the drug to sixty patients in doses varying from 46 to 77 grains, he observed no unpleasant after-effects, no nausea, headacho, or digestive disturbance. Scharschmidt found that so large a dose mas not necessary, althoogh he corroborates v. Mehring'a statement that even then there was no appreciable distarbance of the re:piration or pulse-rate. In 80 per cent. of the cases sound sleep of from five to s9ren hours' duration was procured by doses which did not exceed 45 grains, and wers in some instances as low as 20 grtins ; bs repeating the do3e, or giving a larger one, sleep was, in all the cases where failura was at first noted, subsequently obtained. In $2 f$ of Scharsclinidt's cases thero was much excitement, and by producing sleep under such conditions as mania, delirium tremens, and epilepsy or hysteria with delirium, amplene hydrate appeara to have proved itelf superior to arethran. Too large a proportion of pharmacologival discoveries have eaded in disanpointment, and it would be rash, in the face of recent experience, to express a confident opinion that the new hypnotic will prove as useful and as harmless in the hands of other observers as it has done in those of r. Mehring ant of Scharschnidt, but, as oar contemporory the Therapoutic Guzette, which has published an excellent epitome of the papers in tho Therapeutische Monatshofle, observes, its prospects as yet appear very promising.

THE QUEEN'S JUBILEE GIFT.
Tre Queen has often ahown her keen sympathy with the poorer citizens of this country when some great calamity has shecked the pnblic mind ; and in the manner in which she has decided to dispose of tha surplas of the Women's Jubilee Offering she gives evidence of her helpfal asmpathy with the industrial classes in those domestic calamities, less extensive indeod, but in their incidence on the indiridual not less severe, which are the common lot of every houschold. Such calamities, while they do not spare, as the Queen has so often sailly experienced, the most elevated social situations, bear with peculiar harduess on the classes in which health and the power to prork are their only wealth.
The Queen has taken connsel of experienced counsellors, and has been wisely adrisel. She has approved the recommendation of the Duke of Westmitater, Sir James Paget, and Sir Rutherford Aloock
that tho surpilus of the Women's Jubilee Oforing, whicis was a personal prosant to the Queen herself, should be devoted to the fonndation of an institution for promoting the education and maintenaneo of nurses for the sick poor in their own homes. Gnarded by reasonable safeguards againast abuse, such a syatem of home nursing is calculated to confer enormous and as yet inestimable benefits upon the artiean elass. The scheme is merely sketched in the letter which wo publish in another column, but its general scope may be well perceived. It is none tho less likely to be popular and nseful becanse it does not betray a disposition to seek novelty for novelty's sake. The plan has beon tried ou a fairly extensive scals in saveral districts of London, and in certain provincial towns, and has been found to work on tho whole most satisfactorily.
The ralue of good nursing in the trestment of serious illness is now nniversally recognised, and some special organisation is needed to place it within the reach of the artissn, whose weekly wage, even when he is in good work, does not enabla him to defray the expenses of a trained nurss. Sickness in such a family brings in its train many dis. comforts to the other members, and increased danger to the anfferer ; When the father or mother of the family is prostrated by illness, the condition of the household is traly pitiable ; it is not merely or chiefly a want of appliances, but a lack of knowledgg to appreciate the needs of the invalid, and to maka the best use of existing matarial. Under sach circomstances a nurse trained to her duties as a sick-tender, and possessed of the special tact which teaches people to help themselres, may rork a marvellous change, not only in the surronndings of the invalid, but in the general comfort of the home. That this is no exaggerated statement will be freely admitted by those who have seen what has been done, what is being done day by day, by the agencies which, with limited means, are already at work.
We pointed oat, in an article on the work of the Metropolitan and National Nursing Association published some years ago, that a thoroughly well-organised syatem of nursing the sick in their own homes might go far towards relieving the hospitals from some of the strain now put npon them. The artisan has been really aducated to look upon the hospital as his onls resource in aerious illness; no alternative has been offered between the skilled unssing and comfortable surroundings of a hospital, and tha untrained attentions of well-meaning relatives, generally sufficiently taxed already to meet the ordinary daily round of household duties. Thus it is that, in spite of the separation from friends and relatires which removal to a hospital antails, patients who hare once experienced the advantages of skilful narsing are generally anxious again to enjoy them when again suffering from disease. Ilosjitals aro thus often morally forced to admit a large proportion of patients, because it is felt that they cannot be nursed in their own homcs, owing to thero being no one to organise the willing services of anzious but untrained friends.
The hospital of St. Katharine mas founded and richly endowed by Queen Matilds in the year 1148, and was originally served by the Auguatine monks of the neighbouring monastory of the Holy Trinity. Tho hospital was dedicated by this Queen to St. Katharines. in pure and porpetnal alms, for the repose of the souls of her son Baldwin and her daughter Matilda. Queen Eleanor, widow of Henry III, after a long struggle with tho monks, bucceeded in regaining control of the hospital for tho Crown, and in 1273 fonnded the bospital afresh for a mastor, three brother-chaplaina, and three sisters, ten poor woman called bedeasomon, and six poor acholars; the right to nomioate the
master, chaplains, and sisters was reserved to herself and the Queens of England, Ler successors; among subsequent benefactors of the hospital, which appears to have hitherto been a parely religious and charitableinstitution, we find Edward III and Philippa, his wife, who granted certain lands in Kent and Hertfordshire, and a new charter which specially prescribed visitation of the sick as one of the dnties of the commnnity. Richard II, Henry V, Henry VI, Edward IV, and Henry VIII and Qucen Katharine, were benefactors of the hospital, which escaped extinction when the ather religious houses were suppressed, owing, it is said, to the personal intercession of Anne Boleyn. However this may be, her danghter Queen Elizabeth toek some interest in the hospital, and preserved it from deatruction. In consequeace, we are told, ${ }^{1}$ of " many heavy complaints made against the Master," Lord Chancellor Somers visited the hospital in 1698, reformed many abuses, and prepared the way for the establishment of a charity school in 1705. When St. Katharine's Docks were built, the hospital was removed to Regent's Park. The revenues of the hospital, it is provided, may be applied to such good and charitable purposes as may be directed by the royal potroness for the time being.
"The Royal Hospital of St. Katbarine in the Regent's Park, in the County of Middlesex," is at present governed by rules made in July, 1878 ; the community consists of a Master, three resident brothers, three resident sisters, three extern sisters, ten nurses, ten bedeswomen, and ten bedesmen. 'there is also a school in which twenty-four girls and thirty-six boys are clothed and taught, and afterwards apprenticed. The only persons directly charged with the duty of tending the sick are the nurses; they are called "the St. Katharine's nurses," and must bo connocted with societies of bodies for training, superin tending, or employing nurses; the stipend paid to each nurse is £50. There is also a Chapter Clerk, the presont incumbent of the office being Sir Arnold White. The Queen is patron and visitor, and the rules appear to provide that almost every question which is likely to ariso shall be refersed to ber ; for instance, it is provided that the extern sisters and nurses shall only be appointed to the full number " when the income of the hospital, not otherwise appropriated, in the judgment of the Patron admits." It would not be difficult to graft upon this scheme the new features which would be required to give effect to the Queen's wishes. The buildings for a central office exist in St. Katharine's Hospital, a grey stone edifice Fell known to persons who traverse the eastern side of Regent's Park; thero are resident and non-resident sisters, to whom salaries are paid out of the funds of the haspital, and who may, in proccss of time, all bo required to have had special training in the nursing of the sick.

The Leeds Workpeoplo's Hospital Fund for 1887 amounts to $£ 3,555$ \& 5 against $£ 2,000$ in 1886 .

Botir at Doncaster and at Thetford steps are being taken to provide temporary hospitals for the reception of cases of infectious disease.

The Turin Academy of Sciences has awarded the Pressa prize of 12,000 francs to M. Pasteur.

The death is announced of Mr. Peter Henry Maclaren, L. R.C.P., of Sedlington, from a fatal dose of chloral, taken to procure sleep.

[^10]
## LEAD-POISONING IN SHEFFIELD

The Sheffield Corporation, which has just taken over the water supply of the town, is called upon to deal with an epidemic of lead-poisoning that is very prevalent in some of the high-lying districts of the borough. Sheffield is supplied with water from two sources, and it has been proved with regard to one of them that there are certain vegetable acids in the water which take up lead, and render the water to some extent poisonous.

## THE MORNING BATH

Tre Englishman's love of his "cold tub" appears to be a standing puzzler to persons not to the manner born. Professor DujardinBeaumetz, the eminent Paris physician, in a learned lectnre on hydrotherapy, published in the Therapeutic Gazette, makes the following observatione, which show that he labours under a slight misapprebension: "Lotions of cold water and sponge baths have passed from the domain of medicine to that of hygiene, and the people of the North practise them constantly, especially the English, who, in their fond ness for their bath-tubs, are in the habit every morning of taking thorough rub down with a sponge dipped in cold water."

## REVACCINATION.

The Local Government Board are about to issue an order reducing the minimum age at which revaccination may be performed at the public expense from fifteen years to twelve years, in ordinary circnmstances, and from twelve years to ten years in the case of "any immediate danger from small-pox." This is astep that might with adrantage have been taken long ago, as much of the so-called successful primary vaccination is not sufficient to protect beyond infancy, andmoreover, the period between 10 and 15 years of age is the one during which revaccination is most likely to be sought. If the opera. tion is delayed until after the ordinary school age, it is likely to be deferred altogether, or nutil a small-pax panic arises.

## REGISTRATION OF NURSES.

A meeting was held this week, at the residence of Mrs. Bedford Fenwick, Mr. Savory in the chair, at which Her Royal Highness Princess Christian, Sir Joseph Fayrer, Dr. Quain, and some other members of the medical profession were present, as well as leading members of the nursing profession. Resolutious were passed approving the formation of an association for the registration of nurses, and a series of rules proposed for the censtitution of the association were presented, discussed, and approved with slight modifications.

MEDICAL SICKNESS, ANNUITY, AND LIFE ASSURANCE SOCIETY.
The monthly meeting of the Executive Committee of the above Society, and the quarterly meeting of the General Committee will be held on Welnesday next (January 18th), at 38, Wimpole Street, W., the former at 4.30 and the latter at 5.0 P.M. The report for the quarter and accounts for the half year to December 31st, 1SS\%; will be presented.

THE HEALTH OF NEWCASTLE.
The high death-rates that have recently been visible in the mortality raturns of Newcastle-on.Tgne have drawn special public attention to the sanitary arcangements of the town, with the result that room for considerable improvement has been disclosed. The Sanitary Committee of the Town Council have been exceptionally active of late, and their personal inspections in various localities have led them to pass a sovere vote of ceusure on the Chief Sanitary Inspector. This is certaioly not altogether surprising if the statements recently pub. lished iu the Neucastle Daily Leader be accarate. It would appear that the tenement dwellings of the poor were found, on personal insp=c'iou, to be in a disgracelul and filthy condition; that many of the courts and yards mere covered mith buman
excreta and refase, one street "praseating the "sppearance of ono common ashpit;" that ashpits have been allowed to become filled to overllowing with putrefying garbage; and altogother, that clenuliness and fith-removal have beeu greatly diaregarded. Tho reports of the medical ollicer of hoalth have not given quite such a gloomy acconnt of the city's condition, lot acattered through thom are to be found continnal condemations of the open privy system, and complaints of defoctive closet accommodation, of foul privies, of unpared and dirty yards, etc. It is to bo hopod that the increased vigour which seems to have boon imported into the work of suppressing filth nuis. ances will have a good effuct upon the general health of the town. The authorities might well consider whether a system of "trongh" waterclosets conld not be alrantageously encoursged in the districts inhs. bited by the poorer and more caroless sort of people.

## NULLIFYING THE ADULTERATION ACT

Dr. Sedowick Sacximers, the nedical officer of health for the City, has complainel in his report of the glaringinadequacy of the penalties inflicted in the City for offonces under the Sale of Food and Drugs Act, as comparel with those imposed elsewhere; he doubted the wisdom of trying to protect the public from systematic adulteration if prosecutions ouly resulted in the infliction of insignificant and merely nominal penslties. In one case of milk adulteration 33 per cont. of water had been added, and in another 30 per cent., and the alderman imposed in the former a fine of 20 s . and costs, and in the latter 10 s . and costs.

## ROYAL VICTORIA HOSPITAL, MONTREAL.

We are informed that Mr. H. Saxon Suell, F.R.I.B.A., of London, has been commissioned by the Board of Governors of the Royal Victoria Hospital, Montreal, which was constituted by a charter obtained daring the last session of the Dominion Parliament, to prepare plans for the building, and to direct its construction. It rill be remembered that two distinguished citizens of Montreal-Sir George Stephen, Bart., President of the Canadian Pacific Railwsy, and Sir Donsld Smith, K.C.M.G., of the Hadson's Bay Company-gave one million dollars for the foundation, and that the Corporation of the City have granted a plot of land, sbout twelro acres in extent, situated st the northeast angle of Mount Lioyal Park, at an elevation of 300 feet above the St. Lawrence river, as a site. The hospital is to be designed to receive 300 in-patients, and, in addition to a commodious out-patient department, is to be provided with accommodation for the medical school, and for s training school for nurses.

## STRYCHNINE IN ALCOHOLISM.

Tue good results obtained from strschnine in dipsomamia by N. Mr. Popoff, I. A. MIanasseinn, Partzersky, Tolvinsky, and Z svadsky, have indaced Dr. S. Jaroshevsky (Mcditzinskoië Obozrenii, No. 4, 1887, p. 332) to nndertake an experimental inquiry into the antagonism between the alkaloid and alcohol. From experiments made on dogs Dr. Jaroshersky feels justified in Jrawing the following conclusions: 1. Strychnino ondoubtedly neutralises the intexicating and narcotic effects of alcohol. 2. It enables large quantities of alcohol to be taken for a considerable stretch of time without causing the usual organic lesions which follow the ase of alcohol alone. 3. There are, however, limits beyond which the alkaloid itself becomes injurious to the organism. 4. Therapentically, strychnine ahould be nsed in all forms of alcoholism. 5. It may be regarded as a powerful prophylactic against alcoholism.

## BENZOATE OF SODA IN UREMIA.

Starting from Cohnheim's theory of urmmia and from the fact that benzoats of soda inhibits tho formation of nrea within the systern, Dr. A. S. Partzevsky, of the Basmannaia Infirmary for Iabourers, in Moscow, administered benzoate of aoda (Mectiezinstioie Obozrenie, No. $5,188 \%, \mathrm{p} .608$ ) in ten cases of aremia, in seven of whigh the patients
wore sulfering from parenchymatona, and in three from intoratitisl, nephritis. The drug was given every hour, in daily doses varying between one and two drachms. It was given either in a solution or in wafers, in capsules, and, whero the internal administration was impossible, in cnemata. Nino patients recorcred, one died. Analysis of tho cases laas led Dr. Partzersky to the conclusion that bonzoate of sodn cuts short uremic attacks, tho convalsive phenomena gradually disappesring and giving place to a deen sleep. The latter, in "s majority of cases, terninstes by passing into full consciousuess.' Given on the first appearance of symptoms (headache, sickness, dilatation of pupils), the salt msy prevent any further development of the fit. Albuminuria mostly disappears altogether.

THE ILLNESS OF THE CROWN PRINCE.
We are pleased to be able to state that Sir Morell Mackenzie continues to receive highly satisfactory reports concerning the Crown Prince from the physicians in attendance. The condition of the illustrious patient is still better than it mas last meek. Farther absorption of the amall vegetation which recently appeared has taken place, and the slight geueral thickening of the left ventricular band bss dininished. There is nuch less secretion from the larynx, showing that the catarrhal condition of the left side, which has from time to time caused a good deal of trouble, is also greatly improved. The Prince's iroice, though rather hoarse, is fairly strong when he naskes an effort, but in obedience to the advice of his physicians His Imperial Highness speaks as little as possible. Whilst, therefore, reiterating the warning we have already several times given as to the imprudence of placing too much reliance on the preseut favourable aspect of the case, it is, we think, fairly permissible to hope for the best. We bare already called attention to the peculiarly anomalous and perplexing naturo of the case, which will, no doubt, apsrt from all points of extra-medical interest, remain as a causc celibre in laryngological literature. As showing the extreme difficulty frequently met with in the diagnosis of tumours of the laryor, we may refer to a case related by Dr. Eugen Hahn-whose authority in questions of this kind no one will deny-before the Berlin Medical Society last month. A young man, aged 28, was suddenly seized with acute spasm of the glottis, apparently without any previous symptoms whatever. The presence of a tumour being suapected, tracheotomy was performed, and the larynx was afterwards extirpated. On admission an abscess associated with perichondritis of the cricoid cartilage was fonnd, but no malignant tumour was discovered. This case, so frankly reported by Dr. Hahn, affords further justification, if such were needed, for the caution which has led the Crown Prince's present advisers to discountenance severe operative procedares, for which there was no decisive indication, while the danger directly attending them was only too obvious.

## JAPANESE ART EXHIBITION AND MEDICAL COLLECTORS.

Tire Fine Art Socicty opon on Monday to the public, at 148, Bond Street, what is claimed to be the finest loan collection of the works of theancient masters of Japanese art which has ever been brought together. Among the finest specimers of old lacquer are a series of the miniature medicine cases, in compartments, formerly carried by overy gentleman in Japan at his girdle; the doctorg' (sham) swords, worn to assert their position as belonging to the noble classes, are also of interest. The well-known collections of Mr. Anderson, of St. Thomas's Hospital, of Mr. Eraest Hart, and of Sir Trevor Lawrence, are largely drawn upon for this remarkably beautiful and intereating display, as well as those of II.R.H. the Dake of Elinburgh, Mr. Gilbertson, Mr. Salting, and some thirty others. The catalogug, with introductions by Mr. Katsoka, is a valuablo art document, worth preservation as the work of a clever native expert, whe has had the advantage of a European edacation. It is not uninteresting to note that while the carliest authorities on Japancso arts and products were medical men, Dr.

Kampfer and Dr. Siebold, so at this moment the chief literary authoritics and the possessors of the most illustrative collections of the works of the old masters of Japan in this country are also medical men ; Mr. Arderson's splendid work on The Pictorial and Clyptic Arts of Japan, and his catalogue raisonne of the picture collections of the British Museum, and Mr. Eruest Hart's lectures on Japanese Art, published by the Society of Arts, with a historical index of Japanese artists and the glossary of their seals and signatures, being the standards of existivg knowledge ; whilo in America the collection of Dr. Bigelow, of Boston, is of vast extent and unsurpassed beauty.

## POISONOUS FOOD.

In December some paragraphs appeared in the Journal on cases of poisoning by unwholesome mackerel. The two patients, who had severe peritonitis, fiecal vomiting, and violent dehirium, arc both convalescent, yet remain very weak. In both these cases peritonitis and delirium, almost maniacal, were the most marked symptoms. This fact is noteworthy, for in the great nejority of instances of poisoning by unwholesome food, the paticnt is seized with symptoms of enteritis, cholera, or collapse, or at least one or two of these three symptoms predominate. It will be remombered that, in the case of the yonng gentleman at Bayswater, the two other members of his family who partook of the same mackerel had severe choleraic diarrhea within a few hours, and felt perfectly well next day. Dr. George Johnson, F.R.S., has collected some interesting cases of collapse from poisonous food, which are published in his Medical Lectures and Essays. A woman had collapse and other choleraic symptoms twice in three months-first, after eating pungent decayed cheese ; and on the second occasion, after eating tinned lobster. A case of the poisoning of a mother and three children by decayed American cheese is recorded; there were symptoms of gastro-enteritis, and the mother had several fits, to which she had never previously been subject ; she and one child died. Some Irish peasants, in 1826, made a stew of the flesh of a dead calf which they fouud on the sea-shore ; choleraic symptoms, followed by coms, as in opium•poisoning, occurred and proved fatal. Still, the ocenrrence of collapse, choleraic symptoms, and even coma, after poisonous food, is well known even to the non-medical public. The recent cases of mackerel poisoning show what is not known to all medical men, and is certainly not taught in the schools--namely, that poisonous fish may cause acute peritonitis, with symptoms suggesting strangulated hernia or rupture of intestine, and acite delirium after the peritonitis has abatcd.

THE FUTURE OF GREAT CITIES. Mr. Frederic Harrison's address at Toynbee Hall on the sanitary bortcomings of London is suggestive, eloquent, and forcible. Every year 70,000 souls are added by immigration and births, the excess of births and of immigration being chiefly among the poorest classcs, and thoso who swell the number of the unemployed. The rich fly from its vast dreariness and its atmosphere of soot, and largely console themsilves with frequent or general residence in purer air. Its municipal arrsngements aro sadly dislocated and chaotic. The mortality of tho poorer neighbourhoods is fearfully in excess of normal rates. Its housc-room grows largely by the malign and imperfectly supervised activity of the jerry builder. The supervision of drsinage and plumbing ceases at the strect-kerb, so that a large proportion even of its best houses, and even of those most recently built, are mere receptacles of sewer-gas and traps for fatal disease-gorms. Of this some melancholy examples, showing unusual carcelessness of architects and neglect by vestry officers of even the nominal precautions which they might enforce, have recently been brought to our notice. The water sup. ply of Loodnn is, next to the purity of air aud soil-if, indeed, second to it-of the highest importance to health. Of this Mr. Harrison speaks with just horror and indignation. "It is masgre in quantity, inconrenient in supply, very various in quality ezd exposed to one or two
immense risks of pollution. We are actually drinking water that ie minutely, but sensibly, infected with poison and excrement." So that London stands always on the vergo of a catastrophe. The rich aro able to secure themselves from danger by specially providing themselves with potable waters above suspicion; 50 that no wonder the Apollinaris Company now boast of en authentic record of an annual sale of twelve millions of their pure table-water imported from Germany, and to this has to be added the salcs of other natural and artificial waters employed by the cantion of the well-to-do classes for the same purposes of health and luxary. But pure table-water should also be the heritage of the poor. London, we fear, will never cease to be the city of soot, and of the unsolved problems of adequate prevention of fire, provision of open spaces, sanitation of houses, and disposal of the dead, until a really earnest generation of sanitarians shall arise, who will insist npon improved municipal government, and attention, above all things, to the physical necds of hes1th and happiness for the four millions of Londoners.

## FATAL AFTER-RESULTS OF CHLOROFORM INHALATION.

Dr. Uxear has recently published in the Vicrteljahrschrift für gerichtliche Medicin an account of some researches which he has male in order to determine precisely the effects of chloroform on the tissues. He kept a large number of rabbits and dogs under chloroform for many hours, with intervals of suspension of the anæsthesia. After death, mazked changes were discovered in the tissues. The muscular tissue of the heart was very fatty, and unmerous points of fatty degeneration were found in the endocardium. Similar fatty changes were found in the epithelium of the larynx, trachea, bronchi, pulmonary alveoli, and gastro-intestinal tract. The epithelium of the convoluted tubules of the kidneys was either full of fatty granules or was in process of breaking down. The liver cells and the epithelium of the smaller biliary ducts were affected in a similar manner. Fatty changes were also detected in the striated fibres of the diaphragm, and, though less marked, in the rectus abdominis and the extensors of the thigh. In nearly every case these appesrances were most marked the longer the animal had been kept under chloroform. Dr. Ungar observes that the animals were healthy, whilst in the case of patients fatty changes due to illness, cachexia, alcoholism, etc., often exist before the narcotic is given. In such a case the chloroform may do much harm even when the patient recovers. Some of the animals died more than twenty-four hours after coming to from the final dose of chloroform. Dr. Ungar is therefore induced to believe that death shortly after operations may be more often due to the narcotic than is generally supposed. His researches do not confirm Nothnagel's theory that the fatal action of chloroform consists in the disintegration of the coloured corpuscles of the blood. He believes that the anresthetic acts directly on the chlorine and chlorine salts diffused through the tissues. The successful administration of chloroform during labour, to which Dr. Ungar refers, appears to prove that the anesthetic acts less seriously in our species th30 in animals, yet his paper contains important suggestions which should not be overlooked.

A CASE OF HERMAPHRODITISM.
In the Rüsskain Meditima, November 27th, 18S7, p. 710, Dr. Lükomsky, of Prilikiki, in the Poltara (South Russian) Government, describes a case of true herusphroditism, which is specially intercsting from the fact that the sabject of the anomaly has been known to the writer from its childhood. In 1557, at the village Kraslopy, near Prīlukï, a Cosssck's wife, was delivered of a child, which, about a week later, was baptised, and christened "Melania." The child grew up, remaining always healthy and strong, and doing female rustic nork. On her deathbed Melania's mother adjured her husband never to allow their daughter to marry. In 1887, horterer, Melania married
a peasant residing in the samo village. Shortly afterwards both Melania and her hnsband came to Dr. Liikomsky, urgently besoeching bim to examine her, and to tell thens whether she was a woman or a man. Dr. Lukomsky's report was as follows:-"Melania is a tall, powerfully built, and woll made person, aged abont 30 , the general outline of the body not preseating.the usnal rounded contour seeu in women. The head is fornished with long flaxen hair, while the opper lip and chin are covered with scanty, short, bristle-dike hairs. The voico is rough and deep, tho neek long, the ' $\Lambda$ dan's apple' fairly prominent. The bresats are ill-developed; the pelvis has rather the male configaration; the pabes is covered with thick curly hair. Just below tho pubic arch there is a penis as thick as a man's thumb; it measares shout $4 \frac{1}{1}$ centimetres in length when Maccid, and has noither prenuce nor urethral orifice. Under sexaal excitement complete erectiou takes place. Just below the penis there is a normally devoloped scrotum containing troo teaticles, freely worable, both aomewhat larger than a pigeon's egg. Below the scrotnm there is a slit measuring about 7 contimetres in leagth, with major and minor labia on each side, with a small clitoris and arethral orifice benesth it, as well as with carunculæ myrtiformes, at the site of a bymen, which has been ruptured after Melania's recent marrisge. The vagina is fairly spacions. On examining rith a speculom a aterine cervix is secn, somewhat smaller than the average. Melania has never menstruated. 'She' hates the male sex, bat is highly rolaptoous in regard to women. In coition with women a whitish fluid is ejaculated from the vaginal slit. The hermaphrodite dresses like a roman, but is fond only of male occapations." A divorce $\pi$ ras obtained from the Holy Synod on the medical evidence. It will be noticed that nothing is said as to the nterus and the ovaries. In the interests of science Dr. Liikomsky shonld furnish some details on those points, and should gire a more detailed description of the ragina and breasts.

## THE ETIOLOGY OF INEBRIETY.

The first of a course of three lectures on Inebriety was delivered by Dr. Norman Kert, President of the Society for the Stndy and Cure of Inebriety, on January 11th. Inebriety, as distinguished from the act of drunkenness, was defined as a disease of the higher nerve centres, characterised by a very strong ersving for intorication. Under the head of predisposing canses, sex, age, religion, race, climate, oducation, pecaniary circumstances, occupation, marriage relations, bereditary (the insane), temperament, associated habits, boad and other injuries, diet, and intoxicsting agents were considered. The male sex predominated, bat the proportion of females was increasing rapidly in England, where it was mach larger than elsewhere. The greatest liability was between 30 and 40 years of age, but juvenile inebriety was extending fast, both on the Continent and at homo. The Jerws showed less lisbility than other religious communities. Religions hysterical excitement had an influence. The Italians and the Spaniards oxhibited a mach amaller tendency to inebriety than other people, and cold climates prediaposed more than hot climates. Refinement and enltare wero serions predisposing caases. In malcs, marriages made little difference; bat in fumales, married inebristes were five times as numerous as the unmarried. In 703 cases at the Dalrymple and other homes, 308 had a family history of inebriety. The phleginatic was the temperameat least liable. Though the alcohol and tohaeco habita were frequently asseciated, Dr. Kerr bell that tobacco did not, to any grest extent, predispose to inebriety. Syphilis, cerebral, cheat, and other diseases markedly predisposed thereto. So did head injories, bad feeding, and bat hygienic conditions. The chief exciting carses were nerre. shock, head sud other injaries, sex, pregnancy and maternity, occapation, idlencss, climate, overstrain, sociability, and intoxicating agents. Domestic worry, finsncial tronbles, hercarement, unexpected good fortune were all varietics of ahock which had operated considerably. Tramatic inebriety was a common phase.

Inebricty was often excited by gout, dyspepsia, and epilepsy. Soxual physiological crises were a prolific cause. Among the predisposing occupations mere thoso of commercial travellers, borsekeepers, daily newspaper work, and liqquor traflickers. A marine climate excited some; Ytalians, sober in Italy, became drunkards in England. About one half of the cases at the Dalrymple and other Hames had been excited to inebriety by association. In other cases the excitant had been an inebriant. If these and other exciting causes were the occasion of inebriety in some individually, why not all? Because, unless there was an inebriste diathesis, there mas no response in inebriate manifestation, and the storm of excitement passed barmlessly by, after having exbausted itself.

## SCOTLAND.

## PERTH SICK NURSING SOCIETY.

Attention being directed at present to the nursing of the sick poor through the proposed scheme in connection with Her Majesty's Jubilee offecing, it is interesting to notice that the Perth Sick Nursing Society has, by means of its nurses, been able to make 4,500 risits to the sick poor in 1887, its total income having been 1144 , and total expenditure only $£ 135$.

THE CHAIR OF BOTANY, EDINBURGH.
Notwithstanding the ludicrous article in the Standard on the subject, the Chair of Botany in Edinburgh University bas tempted a number of eminent botanists south of the Border to become anxions inquirers on the subject. It is not possible yet to name all the prospective candidates, still less those most likely to be seriously thought of ; but a sufficient number will be at the command of the patrons to cnable them to fill up worthily so raluable a chair.

COTTAGE HOSPITAL, KIRKCALDY.
The mant of a cottage hospital in Kirkcaldy has been long felt, and more especially since the multiplication of large waxcloth and linoleum manufactories has rendered the occurrence of serious sccidents and injuries more frequent. This want is likely to be satisfactorily supplied by the eatablishment of a cottage hospital, and last reek Mr. Michael B. Nairne, of Rankeillour, ofered, through the magistrates and Town Conncil of Kirkcaldy, a sum of $£ 3,000$ for the erection of a hospital for non-infectious diseases.

## ABERDEEN AND INFECTIOUS DISEASES.

In Aberdeen, last week, a man who had wilfully exposod himself so as to be a source of danger to others, while he was sufferiag from scarlet fever, was charged with a contravention of the Pablic Health Act, having pleaded grilty; he was fined a guinea, with costs, or in defanlt imprisonmeut for ten days. It was reported, at a mecting of the Aberdeen Tomn Council Health Committee, that the entire cost of the new pavilion, which has been erected for receiving patients suffering from infectious diseases, mas $£ 1,062$. At the ssme meating a commuisation was received from the Trales Couacil, referring to alleged carelessness on the part of officials in the transference from the hospital to their homes of convalescent patients.

## NORTH BERWICK DEATH-RATE.

Tref following statement regarding the mortality of North Bersick (which bas been termed the Biarritz of Scotland, and which is so largely favonred by members of the profession from England), will be of some interest; it is taken from the registrar's return. "There has not been a death in the district since September 24th. The tomn has been quite free from epidemic disense, and bas been exceptionally healthy. Only thirty deaths haro been registered during the yoar, being 11.1 par $1,000 .{ }^{\prime \prime}$ These statistics refer entirely to, the resident
popnlation, and not to the host of visitors during summer and sutumn ; among whom five deaths occurred, of which tro were sudden deaths and one suicicial.

DEATHS FROM INFECTIOUS DISEASES. AT a meeting of Edinlurgh Town Council, held on Tuesday, the convener of the Public Health Committee, Bailie Rassell (MI.B. and B.Sc.) made $3 n$ interesting statement with regard to the mertality in Edinburgh during 1887. The general death-rate had been 18.65 per 1,000 , which was slightly greater than in the two previous years. The chief item to be considered in this mortality was that due to infectious diseases, from which thiere had heen 599 deaths, equal to 12.4 per cent. of the entire mortality. Of these 599 desths, 275 were registered as due to whooping-cough ; 145 were due to scarlet fever, of which 2,587 cases had been reported, and 42 were due to messles, of which 2,369 had been reported. During the year there had been two marked outbreaks of typhos fever, but these they had bsen able to deal with effectively and promptly, and although they had been able in recent years to keep typhus under control by improved sanitary conditions, these outbreaks showed the disease had lost none of its former power when it had made a little headway. Bailie Russell also gave some statistics regarding the work done for infections diseases in the city hospitsl. At the cnd of 1886 there were 128 inmates of the institution, at the end of 1887 there were 181, while during the year 1,500 patients had hzen treated in it. He alao made a statement as to the seizure of material intended to be used as food, but which the anthorities had condermed as unfit for such a purpose, no less than seventy tons of meat haring been seized and condemned as unfic, and $£ 102$ 10s. obtained as fines from those who had tried to pass such food on the public. At the same meeting the Dean of Guild gave notice of a motion of some interest and importance to the effect that the Health Committee consider the expediency of the medical officer of health reporting the death-rate in the several wards of the city separately, and also stating the death-rate according to the rental.

## IRELAND.

Several parties in Nemtownards, last week, who all partook of a chesp fruit bread, were taken seriously ill with romiting and disrrhea. A portion of the bread has been sent for analysis.

Dr. Humphrex J. Broompield, F.R.C.S.I., Lecturer on Anatomy in the Carmichael School, has been appointed Assistant Fisiting Physician to the City of Dublin Hespital.

## PORTRAIT OF DR. BANKS.

AT the conclusion of the busiuess of the annual meeting of the Dublin Branch of the British Medical Asseciation on January 25th, the portrait of Dr. J. T. Banks, the President of the Association, will he presented to the President snd Follows of the King and Queen's Collego of Physicians by the President of the Branch, Dr. Mapother, on behalf of the subscribers to the reception fund of the annual meeting in Dublin. The annual dinner of the Branch will be held in the Hali of the College of Physicians on the same erening, snd it is anderstood that many distinguished guests will be present.

BOYLE UNION: MEDICINE EXPENSES.
A specral meeting of the Boyle Dispensary Committee was held recently, on the suhject of the great increase in the medicines nsed, ss compsred with former periods. The committee came to the conclasion that this increase was due to the great abnse in the issuing of red (or visiting) tickets, to parties who, to say the least, are net entitled to medical relief under the poor law. One of the Boyle guardians has suggested that whoever issued a risiting ticket to anyone not eligible for it shonld be made to pay for the visit himself, and
also for the medicine supplied from the dispensary. If this could be carried out, it would at once put a stop to a crying evil, and be a great boon to all dispenary medical officers. The expenses for medi cines for the past half year, for lBoyle, with a population of 41,215 , were $£ 2455$ s. 6d., aud of Castleres only $£ 149$ 118. 7 d ., with a population of 43,442 . It is the practice in Bojle Dispensary, once a patient gets a visiting ticket, to bo attended for twelve months withont a second being issued; s strange arrangement; and one which must necessarily give greater trouble to the dispensary medical officer, than if the ordinary procedure was adopted.

## bELFAST NATURAL HISTORY AND PHILOSOPHICAL

A VERY successful lecture in connection with this Society was given in the Ulster Minor Hall, on January 2nd, by Dr. A. W. Hare, ol Edinburgh. The subject was "Facisl Expression," snd it was bandled with a force and lucidity that held the attention of a large and distinguished audience. The lecturer illustrated his remarks by a series of excellent lime-light views, many of which were drawn from the morks of Sir Charles Bell and Duchenne. Dr. Hare will have a hearty welcome should he return to Belfast in the capacity of lecturer.

## A STRANGE STORY.

AN evening paper published on Monday a "romantic story," which has since been copied into other jourasls, and which has, of course, excited a good deal of netice. It relates that in a certain family, well known in a suburban district, one of them, wha had always been regarded as a roman, one day appeared dressed as a man, and was introduced to the friends as a man. The story is true, and it was consequent on the discovery of the real sex by a medical man in the city. But the fact might have been allowed to rest there. Now, for the sake of an attractive " mystery" paragraph, the whole town-and par ticularly the female portion of it-is set talking over a matter whic' mast involve sexual topics that ought not to bo so discussed.

## ULSTER HOSPITAL FOR CHILDREN AND WOMEN, BELFAST.

A "Fairy Tea and Christmas Tree" was given in connection with this institution on January 4th. The hospital was tastefully decorated, and numerous presents were provided for the youthful patients. A large coucourse of visitors assembled at $40^{\prime}$ clock, and refreshments were served in the operating theatre. The chief festure in the entertainment was the apparition of Father Time, laden with gifts for the children. The success of the afternoon was mainly due to the active exertions of the lady superintendent, Miss Moore, to whom the hospital ores so mach of its efficiency. It is now in a very satisfsetory financial condition.

FALSE CHARGES AGAINST MEDICAL MEN.
Dr. Dayt, of Tercnure, may be congrstalsted on the triumphant issue of the action brought against him, involving charges to which medicsl men, however innocent, are peculiarly liable. His character, it will be seen, was completely vindicated, and the Recorder described the case as an atrocious one, snd ordered criminal prosecation for perjary agsinst the prosecutor. The risks of medical practice are seriously onhanced by the perils disclosed by such a report, and Dr. Davy must be condoled with for his misfortune in having to incur this unfertunate attack as hesrtily as he must be congratulated on the triumphant issue from this unmerited ordeal.

## HEALTH OF BELFAST.

For the past tro wreeks the death-rate in Belfast has reached the abnormally high figure of 41 per 1,000 , almost twice the arerage. It is singular that with this heary death-rato there shonld not be associated some special eridemic, but such is the case. The deaths are fairly distributed amang the varions diseases usually prevaleut in
winter, and the specific fevers do not clain more than their share of the mortality. Scarlatina, measles, typhoid, aud whooping.congh aro all well represented in the doath returns, but without a remsrksblo preponderance on the part of any of theso diseases. Another sign which indicates the present unhoalthy stato of Belfast is the wide prearalence of epidenic and contagious sore-throat. The cascs haso been onusually severe, and havo often closely simulated sesrlatins, bat in no instanco coming under our notico has there boen auy qubsequont desqnamation. The high mortality in Belfast is currently attribated to the scarcity of water, which still to somo extent propails. The year 185 r was ono of the driost years over recorded in tho north of Ireland. In estimating the gravity of the Belfast deathrate, it is well to romember that during tho antumn the town was excentionally hoalthy, tho death-rato for some time being as low as 19 per 1,000 . On the mere principle of averages, it is alwsys probable that a period of exceptionally low mortality will be followed by one of somewhat high mortality, as during the former period many persons, especislly the aged, livo on who in the ordinary course would have died. At the same time, the high desth-rate should be a warning voice to the corporation to expedite the drainsge sohomes which they have in hand. The urgent necessity is universally admitted.

## CORK DISTRICT LUNATIC ASYLUM.

AT a meeting of the governors last week Alderman Dale said he wished to take the opportonity of saying that the present satisfactory condition of the asylum was due to the management of Dr. Dwyer, the resident medical superintendent. At the same meeting the refusal of the Cork Guardians to pay for paticnts sent to the asylum wss under consideration. It appears that the former had agreed to pay for the maintensnce of the lnatic panpers admitted to the asyluin, and they further passed a rote of thanks to the asylum board for reliering the innatic ward of the union at a time when it was over. crowded. By the asplum rules it is in the power of the governors to soek for payment at sny time for any patients transmitterl to the asylam, if the medical officers certify such patients as not dangerons, st the cost of the guardians. After a long discussion it was detormined to make another application for the amount due, and if not paid to tako proccediogs for the recovery of the same.

## THE EXECUTION OF SURGEON-MAJOR CROSS

Stroeon-Major Puilip Eustact Cross was hanged st Cork on Tucslay last, for the marder of his wife. We havo slresly given a sammary of the evidonce produced by the prosecution. There could bo no doubt that the cause of his wife's death was arsenic; and when it ras pat to tho jurs by the judge that if they belicred Mrs. Cross died of poisoning by srsenio they should find the prisoner guilty, there was little difficulty in determining what the verdiet woald be. Since tho date of tho conviction an increasing number of persons had formed the opinion that tho extrento penalty ought not to be carried out, the cause of that belief being that there were some elements of uncertainty in the case, and that tho rrisoner dirl not seem to havo got much of the "benefit of a doubt" recngnised in criminal cases. Wo commented, at the time, on the character of tho judgces charge, and in the ermo day's issue of the Salurikey Revicio a sepcre srticle on the sobject appeared. It said: "The manner in which Mr. Justico Marphy sddressed tho jory was a manner very much to be avoided br judges, and might rery well have led to the conriction of an innocont man...... $\Delta$ julgo having to deal with a capital charge against such a. msn was bound to pat away all indirect considerations, to shstain from angthing like tho language of passion or emotion, to content himself rith a close analysig of the facts before him. It is not too mnch to say that Mr. Justice alurphy didexactly the contrary." The memorial to the Lord-Lientenant, whioh we publishad in the Jo cerana of January ith, was influentially aignod, and rarious reasons Fere auldaced in favonr of a mitigation of the capital sentence. Bat it did not seem from the first that anch an appeal was likely to
result in success. In theso cases tho judge is alwaye consulted, and his opiniou was already settlel. Then the cxtremo jourbals protested against any leniency. It was asked: "Is tho suggestion this, that Mrs. Cross was poisoned by her ucighbours, or by those who had boycottel her husband, or is it that a man who is boycotted and a membor of the Propcrty Defence Association may piison his wifo with impunity?...... Fow atrango that these adrocates of justice nndefiled havo found a tongue to condenn judicial speeches for tho Crown, only when a wife-poisoning cmergoncy man has been sentenced to hang? A great public question, of vital inoment to every person in Irelsad, has boon raised by this Cross memorial. It is whether tho administration of the law, the machinery of Crown prosecution, the partisanship, snd all tho rest of it, shall grind to powder all the sccused of one class, marked for destruction, and leare unhurt all of another class claiming immunity as 'loyalists,' and so forth." Thus the bitterness of political strife was sleo brought into the question, and Dr. Cross was between the hammer and the anvil. Reprieve would have been real as a yielding to tho clamour of "loyslists," no matter what new facts might havo been brought forward. Tho wrecched msn protested lis innocenco of the crime. He left no "confession," bat went to the scaffold with absolute fearlessness. Dr. Moriarty, the prison surgeon, is represented ss saying, "I have scen many execntions, but nevor such bravery as exhibited by Dr. Cross. He was a grand old man. He walked erect and without faltering." Still the question, Wiss Dr. Cross gailty of murder ? romains unsolved. Thatever his moral failings in regard to the unhappy woman ho hss left $s$ widow, there was no necessary outcone of morder from them. They wore useful in his trial only ss supplying a rootive. Fet motivo may be discerned where it has really no active force at all. Lawyers hare the knack of building un, a caso from facts which have no cohesion except that which is provided by their orfa imaginstion. Therein lies thoir art. So far as the present case is concerned, the question bas passed beyond the region of disputo. Whather Dr. Cross was a callous murderer or not, we hare the verdict of a jury ss answer ; bat beyond that we have tho dying man's solemn declaration that he did not kill his wife.

ROIAL COLEEGE OF SURGEONS OF ENGLAND.
A quarterer meeting of the Council was held at the College on the afternoon of Thursday, the 12th instant. The minutes of the Extraordinary Council, held on the 5 th instant, Were read and confirmed. leports were receired from the rarions Committces.
The Secretary reported that four dissertations had been receired on The Pathology, Diagnosis, and Treatment of Tumours of tho Bladder, the subject of the Jacksouian grize for the past year, bearing the respectire mottoes or dorices, "Veritas," "Thorough," "Totis Viribus," and "Falstafe: What says the Doctor to my watcr? Pace: The water itsalf was a good heslthy water, but for the party that owned it, he might hare more diseases than he know of."
The President reported to the Council that Mr. Henry Power had consented to deliver the next Inunterian Oration, and accordingly doclared Mr. Power appointed Hunterian Orator for February, 1589.
The Council resnmed the consideration of the proposed reply, prepared by the President aud Vice-Presidents, to the lettor from the Priry Council and tho statement presented to tho Lord President on behalf of the Association of Fellows on the subject of the supplemcutal College charter.
Alter a long discussion on suggestions and additions, it was resolved to hold another extraordinary meeting of Council on Thursday next for the furthor consideration of tho letter to be soat to tho Lord Preeident of the Council.

A letter of Dccember 13th from tho Lords of the Council forwarding, for the information of the College, a printed document purporting to he a report of the statement made by Dr. Eruest Hart, as spokesman of the doputation of tho Association of Jlembers of the College, to tho lord President on the subject of the spplicstion for a supplernental chartcr was reall, but its consideration was again postponod.

Tho Council, in pursuance of the resolution of the Council of Decomber 8 tha, elected, as a Committee to consider and report to the Conncil on the regulations relating to tho election of mombers of the Conrt of Examiners, Sir James Pagct, Mr. Marshall, and Mr. Hutchinson, togother with tho Iresident and Vice-Presidents.

THE BRITISH PHARMACOPCEIA OF 1885.
By TVILLIAJI CRAIG, M.D., F.li.C.S.Ed., F.R.S.E., Lecture: on Materia Medica and Therapentics, Elinburgh Schoof of Medicine.

The first edition of the Rritish Pharmacopaia was published in 1864, the second edition in 1867, to which an "Addendum" was sdded in 1874, and in 1885 the third edition was published. This book, for several yeara to come, must be of the deepest interest to every member of the profession, and, therofore, a few remarks regarding its merits and demerits may not be altogether devoid of interest.
It is now fully two jears since this odition was published, sud teschers and others have had time to estimate its true worth.
I frankly admit st the outset that this edition is, in many respects, superior to all previous ones, but notwithstanding many excellencies, it is not without very serious defacts, some of which I will endesvour to point out.
Foremost amongst these I place its great size. The volume consists of $56 \pm$ nages, wheress its predecessor, including the "Addendnu," extended only to 488 pages. We have thus an increase of 76 psges in this third edition. This great increase in the size of the solume has been caused mainly hy tho introdew of many nerv partly also by the reintroduction of old remedies that had been st one time officinsl.

It is a matter of grost regret that the British Medical Council should have increased the size of the volume so much. Whether the responsibility for this rests with the Medical Council, the Pharmaconceia Committee, or the editors, I sm not in a position to say, but andoubtedly it is to be regretted that all the three editors were connected with the Pharmaceutical Society, and none with the tesching of materia medica in sny of the medical schools of this country. It is hardly possible to conceive that any teacher of materia medica in any of our medical schools could have sanctioned the retention in our Pharmacopecia of the numerous officinsl drugs snd preparations which are seldom if ever used in the treatment of disease. Be that as it may, all must admit that the book is too large, and the importsnt practical question is, How conld it have been made less? Thst question I will now endeavour to snswer.

I have not much to say against the introduction of new medicines into the present edition. Many of these medicines were already officinal in America and other countries, and deservedly so, hecause they had proved themselves worthy of a permanent placs in all Phermacopacias. On the other hand, it may ve fairly questioned if there was much need for such medicines being made officinal as capri nitras, potassii cyanidum, sodium, etc.
It is only, however, to a small extent that the size of the volume could have been lessened by this method. There was ample room for the insertion of all nceded new medicines withont increasing the size of the volume. Nay, might have been the best and yet the smallest of all the editions of the British Pharmacopocia. There are many medicines and preparations in this edition whicl are seldom if ever preacribed in the treatment of disease, and certainly there is no beneficial effect to be obtainad by their employment which would not be more readily obtained hy other and more useful drugs.

We have far too many officinsl medicines, and also too many preparstions of even most aseful drugs. Surely we could do fith less than thirty-two preparstions of iron or twentr-nine preparations of mercury

The Pharmacoperia could be rednced in size by at lesst one-third, and yet no patient would suffer in consequence. Nay, more, were the volume greatly reduced in size, students would be enabled to master their materia medica much more efficiently, and consequently the members of our profession would possess a better knowledge of the actions and uses of romedies.

I shall now mention a fer of the medicines which might have been excluded.

Scammonium has no virtues not possessed by scammonire resina, and is three or four times dearer. I am aware that it is stated in the Pharmacoperic as a source of the resin, but this is not done on account of the price.
Cambogia is another medicine which can well he dispensed with. It is ant to irritate, and possesses no properties not posscssed by elaterium. Cerevisiæ fermentum might have been omitted without any loss to our patients; so, too, with mezerei cortex, rhozadns petala, and ssmbuci tlores. Laricis cortex possesses no properties not possessed by oleum terebinthiuæ. Papsveris capsalæ have no properties not possessed by opiam. Laurocerasi folia are only useful for the hydrocsanic acid contained in them. Hemidesmi radix is not of saf-
ficient importance to be still officinal in this conntry. Moschus might have been consigned to the same nosition as castor. Elemi, mastiche, and manna are not worthy to be retained ; so, too, with saasafras radix, aerpentarie rhizoma, sumbul radix, snd many others which could easily be named. The omission of these and snch like medi-cines-and, of course, the preparations derived from them-would have materially lessened the size of the volume.
The real question is not-Has the drug any rirtue? but-Has it any rirtue not alresdy possessed by other and more useful medicines? The size of the volume might have been still further lessened by the oxchusion of many needless preparations of several useful and highly important drogs. To this class belong os nstum, zincum, zincum granulstum, bismuthum, bismuthum purificatn,m. Wo have far too many preparations of iron, mercury, lead, antimony, etc. Ferrum redactum possesses no properties not possessed by other aud mors important sulphas ; ban. Ferri sulphas granulata is twice the price of ferri copera, seeing it possesses no medicinal properties not possessed by the cheaper salt. Vinum ferri is a farourite with many, bat it by useless preparation; it possesses only traces of iron, and the aherry it contains is not necessarily the best. In like manner, the preparations of mercury are far too nnmerons. It is to be hoped that in the nest reduced.

Another defect is in regard to the nomenclature of drugs. This might be greatly improved. The present edition is much better in this respect than its predecessor, but even yet there is room for im. provement. To call acidnm phosphoricum concentratum is very misleading, especially when omitted in connection with other strong
acids. Acidum aceticum glaciale, acidum sulnhuricum, cum, acidum nitricum, have each a higher percentage of scid then Ergotinnm should be cxtractum crgotac. Extractum filicis liquidam is a misnomer, for it is not a liquid extract in the trie sense of that term. As well call "oleo-resina cubebre" a liquid extract. Gelsemium should be gelsemii rhizoma. Many simular examples might be given. More niformity in nomenclature mould be of much ad. vantage to the student of materia medics.
The doses
The doses given in the Pharmacopara might be revised with advantrge. Some druge should have no doses ascribed to them, inasmach as dose of 10 to 60 ver be given internally : for exsmple, santonica has sonrce of santoninum, which is thbstance shonld be rased only as a properties, whereas santonics is tasteless, and has sill the medicinal regard to cusso. Surely it is not expectel disagreeable ; so, too, with half an ounce of this substance. I suppose it is meant that fusion prepared from this quantity is to be taken as a dose. Conii folia is $s$ bsd form for internal administration. I sappose fer practitioners, if any, give the powder of the dried leares. Other similar examples might be given.
In some cases there is a want of consistency in the officinal doses; srsenii iodidum has the dose of ${ }^{\frac{1}{6}}$ th grain, but in the liqnor arsenii et hydrargyri iodidi the dose is given as 10 to 30 minims, which is equivalent to $\frac{3}{3^{3}}$ to $\frac{9}{82}$ grain, or nearly from three to nine times the dose ; and that notrithstanding the fact that this liquor contains an equal quantity of another very powerful substance-the mercuric iodide.

After what I hsve said about the size of the volume, it may seem out of plsce for me to complain about the exclusion of drags from the present edition ; and yet 1 regret to miss such substances as digitalinum sud stramonii folia, for the former will still be prescribed in the ing their of disease, and the lstter smoked in asthma, notwithstanding their exclusion from the Pharmacoparia.
ion, as are other defocts in the volume to which I might direct attonattention of the profession and of the General Medicsl Council to the demerits of the Pharmacopacia of $1 S 55$; and I hare also endeavarred to point out the direction in which amendment is to be looked for in any subsequent edition. Above all, it is to be hoped, for the sake of the already overtsxed medical student, not to spaak of the adrantage to our patients, that the next edition will be greatly redaced in size.
Notification of Infections Disease at Bolton.-The report sent to the Local Government Board by the medical officer of health for Bolton, approviug of the compulsory notification of infections disease, was discussed at a mecting of tho Town Council on Wednesday, and disapproved by twenty-seren to twenty-four.
Dr. Garrfe, whose name is 80 well known to stulents of bacteriology, has been appointed professor in the Unirersity of Bale.

## HOSORARK DEGREES FRON UNIVERSITIES.

A correspondest writes to us uuder the titlo, M.A. and M.D. : It is interesting to ascertsin in how far the universities apprecinte and recognise literary and scientific rork done by medical men. The two ollost and greatest unipersitios in England have, uutil very recent years, troatod medicine in a most unkind and unbecoming manner, and only now havo they secured to awake to tho knowledge of this fact; and they haro, by strenoons efforts, began to attempt to call their medical facnlty into lifo, and to tako means to establigh a properly equipped macdical school, and to attract students. Hitherto their gra. dutos in medicine haro been very few, and oven theso have roceived, iu most instances, much of thoir ingtraction at other schools of medicitue.

The Oxford University grants four hozorary degrees, nstnely, D.D.; D.C.L ; M.A.; and Mus.D. From 1870 to 1SS5, it has conferred the following number of honorary dogrees: 82 of D.D., 142 of D.C.L. 26 of M.A., and 5 of Mas.D. So far as can be made out of the 142 D.C.L. degreea, 9 only have been awarded to distinguished medical men.

Cambridge, according to its Calendar, has conferred titular degrees on 169 persons; so far as can be ascortained, only 11 have been conferred on medical men. Perhaps the absence of ritality in the medical faculties of their universitics is the true resson why they hare not shoma a keener appreciation of the labours of men who bave attained emineneo in medicise.
Tho University of Dutlin confers no fewer than ten honorary degrees; the last Calcndar shows that, up to this date, it has not been very liberal with its D.D. degrees ; 12 ouly have been conferted. The degree of Doctor of Laws has been conferred on 284; only 4 medical men are to be found in this list, but 37 distingaished medical men fignre as honsrary Ductors of Medicine, 3 as Masters of Surgery, and 3 as Masters in Obstetric Science. Considering the high repute of her medical faculty, the fulness and excellence of her course of stndy, the number and eminence of many of her medical slumni, 1 think this University cannot be accused of lavishly awardingher honours. In Scotland, most of the medical tesching is done at the universities, and a large proportion of those who register as qualified men sre graduates in medicine.
The Universities of St. Andrews, Glasgow, Aberdeen, and Edinburgh grant two degrees as honours to persons selected by the Senatus Academicus : the D.D. degreo for distinction, the LL.D. degree for literary or scientific eminence. In the Faculey of Divinity the D.D. can nor be obtained by B.D.'s of a certain standing, who adopt prescribed forms for proceeding to this degree, but hitherto most, or, in fact, nearly a!l the degrees of D.D. conferred by the Scotch Universities have been honorary. The Calendars of the Scotch unipersities are now very completc, and give useful informstion concerning courses ot stady and all university matters. Those of St. Androws, Aberdeen, and Fdinburgh have a list of the honorary degrces given each year, and I certainly fail to see why the Calcndar of the Glasgow University should not also give this information. Tho Senatne Academicus of each University rields this great honour-giving power, and douhtless a keon and scrutinising acumen discovers those apparently deserring of such degrees. $\Delta$ wise impartiality weighs in the balance the merits and clemerits of those at first glance considered wor thy of the honour; and a carefnl estimate of their work, professional, literary, or ecientific, is, of course, made by such competent authorities as for the time sway the councils of their national seats of lerning.
Sight variations seem to cxist in the difforent universities that I have record of, as to the ratio in which these two honorary degrees are given. Taking St. Andrews from 1860 to 1885 inclusive, it has conferred $55 \mathrm{D} . \mathrm{D}$. degrees, while it has during the amme time given 87 LL.D. degrees. Aherdecn has sinco 1851 and ul to 188 G given 91 D D. degrees, white in the same time it has given 122 Ll. D. ilegrees. Tho Edinburgh Caleadar states that the list of D. D.'s now inclades over 300 names, and the sume is suid about tho degree of LiL. D. from 1847 to 1874, a ncriol of twenty-geven yeara; $10 \%$ LL.D. dogrees were given, and only 10 foll to tho lot of medical men.

At St. Androws daring the twenty years ending 1876, no modical man was deemsil worthy of the Lh.D. degrec; and evon thongha little more liherality has of late jesrs been shown in acmording this degree to madical men, only 10 medical men at present find a placo among tho list of St. Androws homorary graluates. Aherilecu has sinco 1860 given its LL. D. to 14 me lical men out of in tot ! of 87 .

Ediahurgh, whoso l'acalty of Sedicinc, from its cminonce, from the proponderanco of its students and its inedical graduates, almost overshalows the other laculties in tho University, seoms in this matter to do them scant jastico.
Dawn to that supreme effort at degree.giving which took place at
the celebratiou of tho tercentenary in 1884, only 29 LL. D. degroes foll to the lut of medical men out of tho 191 conferred. That those who have to do with conferring the degree of LL.D. must at times have qualmas of conscience and take a fie of secing merit evou ia medical meu is quite apparent, for in somo y cars medical men figure in a fair proportion.

In the list of 1875 this is acen moro markedly than in any other year, for of 14 LL.D. degrces conferred, 8 fell to medical men. At the tercentenary celebration $124 \mathrm{LL} . \mathrm{D}$. degrees were conferred, 42 on distinguished modical men ; at such a time medicine was cridently duly recogrisod, but sinco that period only 4 medical men have roceivel this honour, thongh 24 degrees have been a warded. Even in this University the highest hononrs are given with grester spareness to medical men than to those of some other professions, and yet her medical sons have done, and are doing, as much to increaso the lame of their Alms Mater as any of her chililren.

Now if honorary degrees are given at all on fair and equivalent frounds, a perusal of the Calendars and the list of honorary degree holders would lead one rather to tho belief that the clergy, withont any comparison, are the most distingnished of the profestions; that they should bo the best, aud probsbly are, I admit.
That nearly all prolossions are distinguished by honorary degrees is legitimate, but that lawyers and medical men ahould be so unworthy of honour from their university is rery sad indeed, and yot we hesr of medical graduates of all the Scotch nniversities doing good work, and some even attain the highest eminence.

In Glasgorr in 1886 six D. I:'s were given, thirteen LL. D.'s, three only of the lattor were given to medical men. It is very seldom that oue uotices a medical graduate of Glaskow University receiving further honours from his owu university. Fet there are 1,596 medieal men among the 5,848 who constitute the members of Council of that University.

Ot the twelve professors in the Medical Faculty only four are themselves students of, and graduates in, mediciue of that University. It is highly probable, and ! oller it as a possible explanation of the facts that a perusal of the Uuiversity Calendars has forced upon me, that in all seats of learning, old customs, old fashions, and old beliefs linger long. The Church at one tima was the learned profession, lswyers and doctors of medicine are of yesterdsy; the Church gave legal advice, dispersed medicine, and np to a given dato oven acted as chirurgeon.

Though matters have changad the belief in the profession still holds good, and D.D.'s are common in Scotland, and thouge at times and in certain cases those in other professions wonder what their old fellowstudent has done to be so graced by his Alma Mater, age, a certain pulpit success, and a lucky avoidance of the pitfalls which beset clergymen, seem often to the uninitiated mind to be the principal ostensible reasons of the decoration of the dostorate. It is very possible that the niedical professorate are not so much in toach with the graduates of their Univereity, who live at a distance from their Unirersity, and that thicy are in most cases in a minority at the meetings Which select those to be honoured, and that it is owing to this that I gee clergy, rectors of schools, and school examiners in a very much higher proportion than lawyers or medical men in tha lists of honorary graduates.

## THE WOMEN'S JUBIIEE OFFERING.

The Queen has expressed her approval of the scheme contsined in the following address from the Cummittee nominated by Her Mijesty to consider and report unan the best means of effecting her wish to bonefit nurses as well as tha nursed by devotiug to this object the ourplus of the Women's Juvilee Otfring.
"Eaton, December 26 th, 1887 .
' In obedience to the dosire which your Majesty has graciously expressed to us, that we should consider and report on the method by Which the surplus of the Womeu's Jubilee Olfering acay be best applied for the promotion of narsing, we havo the honour to state to your Majesty our belief that the best method, and that which will be most gratifying to those who contributed to the funl, will be by the fonndation of an institution for promotiug the edncation and maintenance of nurses for the aick poor in their own homes. We believe that the institation shonld haro its chief centre in London, but that aimilar contral iustitutions should be in Edinburgh and Dublin, and that with one or all of them should be affiliated any institutions desiring such affiliation, and satisfactorily fulfilling, in any part of the kingdom, the feneral porpose of the foundation.
"We would recommend that the narses shonld all he duly ap. proved women of excellent personal character, aud of good education,
similar to that of well-trained nurses in hospitals, and a specisl training in district nursing and in msternity hospitsls, so that they may bo fit to attend poor women after childbirth.
"We hope that your Majesty would give to the institution a neme indicating the occasion of its foundstion, and to the nurses autherity to wear an appropriate badge or other decoration. We believe, also, that it rould be very useful if, with your Majesty'g anthority, the nurses were classed in two or more ranks, the higher of which wonld indicate, hy name or decorstion, length of service, or remarkable akill, or devotion to daty. Further, we venture to suggest to your Majesty that it would add to the esteem and utility of the proposed institution if its official work could be done in St. Katherine's Hospital, or if it could be in some manner connected with that ancient foundation; for that hospital is one of the oldest benevolent institations in the kingdom. Ever since its fonndation in 1148 the Queens of England hare been its patrous; and the charter granted in 1351 by Queen the sick and poor. We among its chief purposes, if it be your Majesty's pleasure, to consider, or to take part in considering and reporting in detail, on the means by which the institution which we commend to your Majesty's favour may best conduce to the end proposed.
" Westminster.
"James Paget.
"Rutherford Alcock."

## PSYCHOLOGICAL MEDICINE AT THE NINTH INTERNATIONAL CONGRESS.

A well-known alienist physician has sent us the following observations on the Section of Psjchological Medicine sud Nervous Disease of the International Medical Congress:-The President of the Section showed in his address how rapidly the urbau population are developing insanity, se that rery soon the Americans will not only be in adrance in progress, but also in the ratio of their insane to their sane popalation. Their healthiest population is that of the advancing new States; their worst the New York State. With the negroes civilisation increases, but inssnity outpaces it. It was shown that the American ideal in asylums is as good as possible, and that the newest plans for the treatment of patients are to be found in the States; erin seem doctors and pathological laboratories are being introduced, but it seemed that the former were not app
been expected hy the superintendents.
Discussions took place on treatment, but, as a rule, this was not from the therapeutical, but from the humane, standpoint. Restraint or non-restraint, that was the question; whether it was the duty of the saperintendent to have a non restraint shibboleth, or not. In the Ssetion it was decided to the satisfaction of all, that a good deal of liberty should be sllowed, even to medical officers.

Dr. Mendel, of Berlin, read a paper on the Origin of tke Fasial He slso with some clinical facts supporting his physiologicsl observations. He also read a paper objecting to the neo of the term "moral insanity;" in America it may well be believed that feeling is streag as to the use and misuse of the term. Probably no other nation in sametime has so many persons who are morally insane, and, at the of something-persons who would pe only too glad to give up self-con. trol, if assured no punisbment would follow. The nation is seething in its development, and with its great possibilities of good are also great possibilities of evil. It was generally felt that the nse of the term "moral insanity" must be retained, but its use limited.
As might have been expected, there were one or two papers which were not up to Congress pitch. Either they were crude or they were ill thought-out, being but the outcome of fevered imagi. nation. Such a one was by a superintendent, on Remissions of Insanity, who appeared to hold that a force allied to spinitual force had a good deal to do with the diseaso. No such thing as complete cnre or recorery betwenn attacks seemed possible to him. This, coming from one of the frieuds of the insane, was too terrible to leave unchallenged.
There are certain moot points in each Section, and one sure to crop up in l'sychological Medicine is classification. It wonld be well if in future Congresses-for the rext hundied jears, at least-a netice were given that no such lapers could be recoived; for they all come to the same thing; they add one more pariety to the list already too long.
A rery interesting paper Fas read by Dr. S itzka, of New York, on a New Disease, the symptoms resembling very nearly those of insular sclerosis, and the pathological chauges being due to multiple anea. rysmal dilatation throughout the nerrous system. In the caso
described there was a history of similar symptoms baving occurred in other members of the family, and Dr. Spitzka pointed ont the fact of inheritance of special vascular tendencies. Other pathological snbjects were considered, and some original work was ahown by Dr. Homan, of Helsingfors, who had been for somo years working at the effects of esrly smputation of limbs in the lower animals, not only on the higher nerve centres, bat on the peripheral nerves themselves. It secms that too much has been made of the easily-spokenabout bat not yet proved conduction of degeneration. Several writers devoted their attention to single symptoms, to the clesring awsy mystification in the nse of terms; but we were astonished that no one took up the word "paramois," in all its glory, and descanted upon it.
The English Section was henoured by the selection of Dr. Blandford to reada naper before the General Congress, and the large andience spoke well for the spprecistion of our countryman, and the attention displayeatmeroved the justice of the selection. The paper being on the Houses, was, of conrse, of more practical interest to us; bat it showed the Americans our methods of dealing with the insane better than a more elaborate essay would have done.
Special papers were read, as we have said, on particular gronps of symptoms, but these were not of any grest novelty, and were, as a rule, the careful arranging of the anthor's experience according to his idea of order. Such contribations are good for reference, bnt not for cursory notice. The best attended meetings of the Section were those devoted to the papers from British contributors on the Relationships of Syphilis to Neuroses, and it will suffice here to say that papers were contributed by Drs. Shuttleworth and Beach on ldiocy and its Specific Relationships; by Dr. Wiglesworth, on Acnte Syphilis and its Relations to Mental Disorder; by Dr. Mitchell, of the Royal Asylum, Edinburgh, on the Statistics of Syphilis among the Insane
Population of that Population of that city; by Dr. Warner, on some of the Epileptic survey of the ground traversed by the former speakers, and ageral tributed a paper on the Connection between General Paralssis of the
the Insane and Syphilis. The discussion merits further notice, and we shall hope to give it in more detail.
The Section did mach practical work in visiting asylams, and we bare no doabt that the meeting of men from distant countries started some friendships and cemented more, which will he for the advancement of psychiatry.

## REGISTRATION OF FOREIGN DEGREES.

Jtdaing from some of the letters which have been addressed to us, it mould appear that there are still considerable doubts as to the right of registered medical practitioners who have recently obtained, or may in the future obtain, foreign degrees, to register those degrees. Certain questions raised by cerrespondents have been submitted to a competent legal anthority, whose opinion is subjoined. The MI.D. Brussels was selected for convenience, and because, after admitting many persons having the degree of M.D. Brussels to register that degree, the General Medical Council will, of course, acknowledge it to be a degree obtained after a proper exsmination, and snfficient guarantee of the possession of the requisite knowledge a skill for the efficient practice of medicine, surgery, and midmifge and required by Section 13 of the Medical Act, 1886. I.-B. C. is a registered medical practitioner who has continuonsly practised medicine in the United Kingdom or elsewhere for a period exceeding ten years immediately preceding the prescribed day, he was practising medicine in the United Kingdom on the prescribed day, and is a British subject. He obtained the degree of M. D. Brussels after proper axamination, on a date after the passing of the Medieal Act (1886), but before the prescribed day. If an Order in Council (1886) apnlied declaring that the second part of the Hedical Act 1. Conplied to Belgium-

## qualificatiou?

If not-
2. Could he cause his name to be inscrted on the separate list of names and addresses of the foreign practitioners? If (2) is answered in the affirmative, wonld his name be withdrawn from the general list on which it now appears in virtue of the registration of his English diploms?

* (1) When an Order in Council applyiag the second part of the Act to lhelgiam is issued, it scoms that I3. C. will bo catitled to to regia terod under Subsection (3) of Section 12 as a British sulject practising medicine in the L'uitad kingdom on the prescribed day and for ten years preceding, who will shom that ho holds what should be a recog. nised foreign diploms, assuming that tho Brassola M.D. entitles ita bolder to prectice in Belginnr.
(2) The separate list doea not secus intended to superaede an ordinary British qualiticatiou.
II. - D. E. ia a regiaterol medical practitioner, a British subject, who has continnously practised medicine in the United Kingdom or elsewhere for a periou exceoding ten years immediately preceding the prescribed day. He obtnined the M.D. Brissela, after proper examina. tion, on a date subsequent to the preacribed day. If au Order in Coancil were to be iassued declaring that tho second part of the Melical Aet ( $1 \$ 86$ ) applied to Belgium-

1. Could D. E. regiater the M.D. Brassels as an additional qualification?
If not-
2. Conld D. E. cause his namo to be inserted on the special list of the namea and addrosses of tha foroign jractitioners ?
*(1) Yea, it seems 80. The prescribed day, by Section 17, is the lay on which the Act is declared to arply to the forcign country.
(2) This is alrealy answered in I (2).

THE CRIMINAL RESPONSIBILITY OF THE INSANE. 11.

Dr. Harbisgton Triee sends us the following commenta on the case of the Rev. G. C., in continuation of those published on November 20 th, p. 1175.

The summing up of Mr. Justice Field was strongly adverse to the prisoner. I do not impute any blame to the judge, whom I know to be as humane and benevolent as he is jnst and learned. The fault seeme to be in the present test imposed by the law as to the reaponsibility of an insade criminsl. This test, in my opinion, often, as in this case, involvea the manifest injustice by procuring the condemnation of an obvious lunatic. The judge, in the diacharge of hia duty, several times impressed npon the jury thet they were to first conaider whether the prisoner knew the nature and quality of the act be bad committed, and, if ao, they must find him guilty of nurder. Now, it would aeem to me, and I should think it would strike every reader of the evidence adduced in this trial, that the prisoner knew well the "nature and quality" of his act. He got a razor from his case, Walked to the door of the ricar's bodroom; when admitted, after a short delay outside the locked door, be walked to that aide of the bed in which his right hand would have the most porver to use a razor as a weapon, and with the candle still in his left hand fatally wounda hia rictim in the throat. The question addressed by him to the vicar "That do yon mean ?" would appear to indieate aome latent delusion as to an imsginary wrong, hut that only strengthens tho hypothesis that he knew the nature of the ghastly deed be was perpetrating.
Twice his victim's wife came to his room ; on the second visit he noticed the blood of the mardered man on ber dress, send desired her to go and change it. The marder was a mad act, yo doubt, but the history I have given from the testimony of an eye-mitneas shows it was done by a man who poasibly well knew the "nature and quality" of the crime he had committed. Tho nnataral calmness and composure of the prisnger during the whole time is worthy of notice.

The second question, "Did the prisoner at the moment of marder know that he was doing wrong?" a queation the careless answer to which has often led to the "miserablo apectacle," as Sir Edward Coke calla it, "of the execution of a madman," which, as he goes on to say, ia "against law and of extreme inhumanity and cruelty," was frequently and impressively put to the jury, and also dwelt upon by ih; connael for tha prosocution.

In this extraordinary trial we have materials for a more minate examinstion of this question than are usual' $y$ a vailablo in casea of murder in which inasnity is pleaded for the defence. Wo hare in eridence that at ten o'clock on the aight of the murder the prisoner read family prajers in the presence of the lady whose husband he killed before her eyes two boura afterwards. Ie had probably his own prirate devotions; unleas we presume his prayers to have been meroly mechanical, he mat, when he uttcred the anpplication, "Deliver ua from evil," have known right from wrong. Ho apoke rationally, and, at all epenta, there then appeared no reason to doubt his inental capacity or his moral reaponsibility. That the prisoner knew right
from wrong the uext morning early is shown by his ready acquiascence in the remark of the policensan who arrested him, "that the murder of the vicar was a bad job," and his unresirtingly allowing bimself to be sreated. According to the evidence of the next witness, be admitted that the murder whe a sad sifair.

It is seldom that an oye-witneas can describo an act of murder, and is abla to do so, by her waut of knowledge that a murder had been committed. The prisoner carefully concealed the razor from the wife; the way be held the candle in his left hand seems to have prevented her seeing his act of desperate violence. She did not believe her hasband when he says, "He has ent my throst!" and went at once to the prisoner' room. The prisoner had hidden the razor benaath his looking-glass, and to the question whether he had anything in his hands, showa them, and answers, "Nothing."
The wife roturned to her hnsband, whom, in the sgonies of death, she found lying on the floor in a pool of blood. She went a second time to the prisoner, and said, "What have you done? Come and help me." Her nightdress waa stained with blood. The only reply she obtaiaed is, "I have done nothing. Go and change your dress."
The concealment of the razor in the firat instance, the hiding of it afterwards, and the denial of the crime seem to point to at least some feeble knowledge that he had committed an act which was wrong, and which be naturally shrank from admitting.

It must be perfectly uaderstood that Iand all the other medical witnessea present at the trial, and probably nost of those who may read this account of it, believed, and atill believe, that the prisoner's murderous act was that of a madman-that it was a recurrence of the same "homicidal manis" that had suduenly appeared at the same season nine years before, when, as Dr. Wright tolu the jury, Mr. C. had made an unprovoked attempt to cut the throst of an aged patient, view apparently held by the jury, who refused to trouble themselvea more than was absolutely neceasary with either of the purely legal questions which had been dwelt upon, in the strict discharge of their
duty, by the judge and the Crown counsel duty, by the judge and the Crown counsel.

This and other trials show the disagreement that exists between law and psychological medicine as to the responsibility tor crima. The lawyers apparently do not understand that a perfect knowledge of right and Wrong is quite consistent with even bopeless and dangerous insanity. I had frequently recognised this difficulty, and in giving evidence before the "Rogal Commission on the Abolition of Capital Panishment" I was much struck by the incredulity of Lord Derhy, the Chairman, and other members of that distinguished Committee, as to the fact which I stated from my own experience, that I had heard an insane man condemned to death, who was afterwarda execated, on the ground that at the moment of the murder he was able to distinguish right from wrong.

At a fully representative meeting of the Medico-Psychological Association held at the College of Physicians in $186 t_{\text {, several foreign }}$ nlienist physicians being present, I brought forward a resolution as to the point whether the presence of the knowledge of right and owrong is any proof of sanity. The resolution was in these terms:
"That so much of the legal teat of the mental condition of an alleged criminal lunatic which readers him a responsible agent, because he knows the difference between right and wrong, is inconsistent with the fact, well known to every member of this meeting, that the power of distinguishing between light and wrong exists frequently among those who are undoubtedly insane, nod is olten sssociated with dangerous and uncontrollable delusions."
In the course of the debate that ensued, Dr. More], of Rouen, s well-known French paychologiat, expressed his surprise that the law of England should zake an insade man responsible for hia acts becanse he has a knowledge of what he has doue. The best way of ascertaining if the acts of an insane person correspond to a particular trouble or disorder of the mind was to study the nature of the act in relation to the particular malady. The reaolution was carried unanimously. It may bo taken, then, that an insane man, in the opinion of conpetent judgea, may be irresponsible, although knowing right from wrong; and it appears to me that the verdict of the jury in the case of tho Rer. G. C. Was consistent with this opinion, aud inconsistent with the doctrine that the knowledge of right and wrong renilers an insane man liable to capital punishment; but that le should be confined and prevented from further miachiof, is consonant with right and justico.
Menichli Magistratrs.- Mesars. Richard Hingaton, L. R. C. P. Lond., William Nottle, M.I.C.S.Eug., and Charles Bainbridge Kendle, M.R.C.S. Eng., have bean placed on the Commission of the Peace of the Borough of Liskeard.

## ASSOCIATION INTELLIGENCE. <br> COUNCIL. <br> NOTICE OF MEETING.

mebting of the Council will be held at the Offices of the Assoiation, No. 429, Strand (corner of Agar Street), London, on Weduesay, the 18 th day of Jannary noxt, at $20^{\text {a clock in }}$ in the afternoon. The following Committees will also meet:Tucsday, January 17th , 1888.-Habitual Drunkards Committee, 30 P.M. - Therapentics Committee, 3 f.M. - Premises and Library jommittee, 4 T. M. - Relative Rank Committee, 5 p.s.s.-Fees to WitConumitteo, 6 2.M. Wednesday, January 18th, 1888.-Arangement Committee, 10.30 A.m. - -Journal and Finance Committee, 1.30 A. M.

Francis Fowere, General Secretary.
December 24 th, 1887.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELEOTION OF MEMBERS.

Awr qualifed medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.
Meetings of the Council will be held on January 18th, April 18th, July 18th, and October 17th, 1888. Candidates for election by the Council of the Associatiou must send in their forms of applieach to the General Secretary not later than twenty-one days before each meeting, namely, March 28th, June 27th, September 26th, and December 2sth, 1888 .
Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council nnless his name has been inserted in the circular summoning the meeting at which be seeks election.

Franois Fower, General Secretary.
COLLECTIVE INVESTIGATION OF DISEASE.
Tre Report upon the Conneotion of Disease with Habits of Intemperance, which was presented to the Section of Medicine in the Annual Mieeting of 1887, and a further portion of the Report upon OLD AOE have been completed, and will shortly be published in the Journal.
Reports unon the two remaining inquiries, namely, that into Diphtheria, and that into the Groaraphioal Distribution of oertain Diseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etionoor of Yhthisis.
A fresh inquiry into the Origin and Mone of Propagation of Epidemics of Diphtheria has just been issued.

Memoranda upon these subjects, and forms for recording observations may be had on application to the Secretary of the Collective Investiga. tion Committce, 439, Strand, W.C.

## branch meetings to be held.

Metropolitan Counties Buasce: East London and Soutr Eisex District. -The next meeting will be held, by the kind invitation of Dr. Adams, at Brooke Honse, Upper Clapton, on Thursday, Janaary 19th, at 8.30 r.m. A demonstraHonse, pinteresting cases of eye disease will be given by A. Q. Silcock, Esq. Visitors will be welcomed.-J. W. Husr, Honorary Secretary, 101, Qucen's Road, Dalston.
Metropolitan Counties Brayoh: Western District.-The next meeting will be held on Friday, Jauaary 27th, at St. Mary's Hospital, Paddington (by kind permission of the medieal stain). The chair will be taken, at s.s0 P.M., by H. Chariton Bastian, Esq., M.D., F.K.S., the Vlce-President of the Distriet. Busiaess: 1. Minutes of preeeding meeting. 2. Clinieal remarks on Chronic Diseases of the Finec-joint in Toumg Prople: by Edmuud Owen, Esq., M.B., Fiseases of Surgeon to St. Mary's Hospital and the Children's Hospital; several filustrative cases of patients will be shown. 3. Dernonstration of cases of illustrative cases of patients Will he shown. ${ }^{\text {Chronic Diseases of the Spinal Cord: by D. B. Lees, Esq., M.D., F.R.C.F. Phy- }}$ Chronic Diseases of the Spinal Cord: by D. B. Lees, Esq., M.D., F.R.C.F. Whller,
sician to St. Mary's Hospital 3vd the Children's Hospital. 4. Drs. Wial sician to St. Mary's Hospital 30d Naguire, will exhibit ruicroscopie specimena, and give short demonstrations, etc.-C. A. PATIEN, Honorary Secretary, Marpool House, Ealing, W.

Norm of Taeland Branch. - A general mcetiog of the North of Ireland Branch Fill be hold in the Inoyal Hospital on Tharsuay, Jannary 26th, 1889, at 12 oclock when Gentlemen desirous of reading papers, exhibiting cases, specimens, etc., will kinuly communicste as early as convenient with the Secretary, Jown w. Byers, M.D., Lower Crésceat, Belfast.

Debliv Beanca,-The eleventh annual general meeting of the Dullin Branch Dcblin Branca,-The eleventh andual the kind penaission of the President of the British Medical Association will, ayary $25 t h$, ot 4 P. Mo, in the hall of the and Fellows, he held on Wednesday, Jantary sist, at the The officers and Council King and Queen's College of Physicians, hinare slach other necessary uasiness for the ensuing year will be elected by ballot, and avy other necessary dasiness transacted. Edward D. Mapother, Esq., M.D., President-elect, will deliver the annual Address. At the conclusion of the basiness of the annual meeting, the portrait of the President of the Association, Dr. Banks, will be preseated the PrePresideat and Fellows of the King and Queen.s Collerge of Physieians by the PrePresideat and Fellows of behalf of the subscribers to the Reception Fund of the sident of the Branch, on behali Mresal Association in Doblio. Subscribera to late annual meeting of the British anedeara of the Braneh, are invited to attend the Reeeption Fund, although not members of the the meeting. Members wishing to briog any subject as an offeer or on the Conneil fore the ueeting, to nominate any member to serve as an of the Association, or of of the Branch, or to propose any genturmau as a member before Jannary 13th. The the Branch, nust inform the Hooorary Secretary onall, at ? P. 3s, on the day of the anonal dianer of the Branch will be in the College hall, at ; P.3L, on tue day of thets meeting. The eharge for dinuer tielets for members who purehase their thekets on or before Tnesday, January 24 th , is 1 is. 6d. ; for nembers purcbasiag pame tiekets after that date, and the guests £I. Applications for tickets and the yame and address must be forwarded to the Honorary Secretary. Members guests are not limited to their
Secretary and Treasurer.
Oxford and District Branof.-The next laceting will be held at the Radlitie Infirmary, Osford, at 3 o'clock on Friday, January $2 \pi$ th. Notice of papers clite be read and cases to be shown must be given to either of the Honorary Seereto be read and cases on or bere Monday, Jannary 23 rd . Members are requested to send their taries on or before Monday, Jannary annual subseriptions to the Association and the Braneb, W. Lewis Mobcest, to, Darbishire, 97, Holywel, Oxiord.- Sore Staries.

ABERDEEN, BANFF, AND KINCARDINE BRANCH.
Tre December meeting of this Branch was held at 19S, Union Street, Aberdeen, on Wednesday, December 21st, at 8 p.M.; the President of the Branch, Dr. Ssirt, of Kinnairdy, being in the chair.
Minutcs and Batlot.- The minntes of the last meeting were read and approved, and Dr. J. J. Y. Dalgarno, Royal Infirmary, Aberdeen, was ballotted for and admitted a member of the Branch.

## SPECIAL CORRESPONDENCE.



Sweating fever appeared in Poiton last summer for the first time since 1845. The opinions concerning the origin and nature of this affection differ greatly. The Poitors Médical has published a volnme containing the works of different anthorities upon the epidemics of 1845 and 1887 . Dr. Gaillard, who wrote a complete clinical description of the epidemic of 1845 , remarked that it principally attacked. porsons in easy circumstances. He employed sudorifics and tonics. Dr. Gaillard noted that it was more serious when it appeared daring pregnancy or delivery. He regarded sweating fever as non-contagions -an opinion which was shared by most of the medical men of the locality in which it appeared. Drs. Thandiére and Litardière reported the opidemic at Sillars in 1887; 244 persons were attacked. Measles was obserred at the same time as the sweating fever. Dr. Gnillé, who observed both these affections simnltaneonsly at Montmorillon, regarded the epidemic as miliary measles, or measles accompanied br sweating fever. This opinion was shared by Dr. Brouardel, who was sent by the Academy of Medicine to investigate the nature of the epidemic. Dr. Guille believes that the affection is not directly contagious, but is transmitted by the air. Dr. Coutancin remarked that in the same district the affection followed the direction of the wind. Dr. Bernard observed that in several patients the number of bloodcorpuscles was reduced by one-third; this accounts for the long daration of couvalesconce and cousecutive snæmia. He regards sweating fever as a contagions affection of malarious nature. Dr. Ponteil observed that the affection usually proved fatal in the case of pregnant women. He attributed the disease to infection. M. Parnentier distingnishes tro clinical aspects of sweating fever. In the first the number of white and rod corpuscles in the
blood is not modified. In the second the number of white corpuscles is doubled, while the number of rel corpuscles is reduced by one quarter. The proportion of hamoglobin is dimiuished. Dr. Brouradel gaso a detailed doscription of sweating fever in his roport to the Academy of Dledicino. The first period is marked by necturnal awests, ferer, sutfocation, epigastric constriction, barre, palpitations, delirim; and in some cases opistaxis aud cough are present. The second period, which begins on the second or third day, is characterised by itching and pricking, followed by the appesrance of a miliary eruption, which appears on the surface of an exanthem, which assumes three forms-those of measles, scarlatina, and puerperal fever. This mah appears on the face and extends to the neck, trunk, and limbs. The sweats and nerrous distarbances aro modifiel. The third period is constituted by desquamation. Convalescence is exceedingly tedious. Dr. Brouardel distinguishes tro forms of sweating fever-1. A serious form, followed by death in forty-cight hours, decomposition taking place rapidly. 2. A mild form, in which relapse often occurs. This rabeolic sweating fover (suclle rubiolique) described by Dr. Bronardel is principally observed in children who have had messles. The incubation period is twenty-four hours. Dr. Brouardel has shown that sweating ferer is eminently contagions. The nature or pathological anstomy of this affection is at present unknown. He recommends isolation and disinfection.
At a recent meeting of the Biological Society, M. Leven presented a commanication on the treatment of obesity. He holds that it is principally due to nerrous disturbance, which canses the food to be iransformed into fat. Treatment which aims at curing the neurapathic phenomena should be adopted. Irritation of the solar plexus should be guarded against. A diet which is easily assimilated should be employed, such as eggs, soup, sad plenty of milk. It is well to aroid intellectual or physical fatiguc. M. Grimaux stated that he had employed a dict composed of eggs, potatoes, and milk rice, and found himself benefited by this system.
M. Dastre, who has continued his investigations on the influence of bile on the digestion, described the results of two experiments he had recently performed. He made a fistula betreen the gall-bladder and the intestine. The animals operated on recovered four months after the establishment of the fistula. A meal composed of meat, fat, and milk was given to them, and, while the digestive functions were in action, M. Dastre ascertained the following facts. The chyliferous vessels were only transparent between the stomach and the fistula, where the pancreatic juice had acted alone. Beyond the fistula, where the bile and pancreatic jnice had acted, these ressels were white and milky. M. Dastre concludes that bile aids in the digestion of fatty substances as mach as the pancreatic juice, but that bile or pancreatic juice, acting separately, fails to promote the assimilation of fat.
M. A. Robin read a note by M. Lemoine (of Nancy) on the treatment of epilensy by antipsrin. It appears that this drug relieves the beadache and neuralgic pains following epileptic attacks, but does not care the disease.
M. Laffont, who has becn studyins the phenomena of cucaine poisoning, states that this affection is characterised by a tendency to sensory hyperesthesia, and tachycardia which often ands in collapse. M. Dejerino stated that ha had observed similar phenomena. In a ase which he had aeen, the patient eeemed to feel the contact between his fingers and an extcraal object, bat he appeared to be iusensible to pain when his fingers wore pinched. Scabs resembling syphilitic rupis wers ohserved at the spots where the injoctions had been made.

At the Surgical Society M. Poncet lately showed a bullet weighing 22 grammes, which was extractad from the laft carpus, where it had remained during seventeen years. Since 1870 the patient remarked that the lower portion of his hand projected, and that he could not u98 it frecly. In 1880 he suffered from severe pain in this limb after a fall. A movable body could be felt insicle the carpus, between the pisiform bone sad the styloid process. An incision was mado ; pus escajed, and a cavity was discovered in which the ballet had lodged uuder the nlns. The bones of the carpus were laid bare, and wero observed to be necrosed; these were cleansed. Six days later thero was no more pas ; the cavity hat almost disarpeared. M. Poncet concludes that largo ballots should be immodiately extractod. In the present case the patient would haro been sparod five years of suffering and twelve years of functional disability if surgical intorference had been immediately hal recourse to. M. Reclus observed that he did not share this opinion. He cited two cases in which bullots had not beon removed. The pationts cxperienced no inconvenience; one of the ballots was 11 millimetres in diameter. 31. l'oncet replied that it was only in the caso of rillo bullets that be cousidered Eurgical interference necessary.
MM. Straus and Dubrouilh, by thoir recent experiments, hare confirmed the atatement that the air expelled from the luags is free from nicrobes. They saturated some broth propered for the purpose with e portion of air expolled from the langs. On examination the broth was found to be almost free from microbes. This result proves that the lungs act as a filter, and parify the air which passes through them from micro-organisms. The bresth of human beings crowded together in a confinel spsce is only deleterions ou account of the noxious gases it contains. The microbes found in the air under such conditions are due to the clothes, sputa, dust, etc.
In the Union Mélicale of December 11th Dr. Durrant describes the effect of Dr. Albin Meunier's entiseptic lozenges in the trestment of pulmonary tuberculosis and other affections of the respiratory organs. The discovery of the pathogenic microbe of these affections suggested that they might be completely cured if an efficient agent could be found to destroy the microbe, or render the organism impervions to its attacks. The antiseptic trestment of affections of the respiratory organs was a method in accordance mith the most recent scientific theories; its practical application was, however, rendered almost impossible for the following reason. It would only prore effectual if the antiseptic remedies were administered in large quantities; these in strong doses exercised an injurious and cren dangerous action npon the cells of the organism. Dr. Albin Meunier has discovered a means by which antiseptic remedies which destroy the pathogenic microbe of pulmonary phthisis and other broncho-pulmonary affections may be administered in active doses mithout any danger whatever to the organism. Dr. Meunicr's antiseptic lozenges are composed of carbolic acid, eucalyptol, iodoform, creasote, menthol, etc. ; ono to three lozenges are given at each meal. The beneficial effects of volatile essences in the treatment of broncho-pulmonary affections hare been demonstrated by nuncrous observations. They arrest the evolution of the bacillus, modify the character of the sccretions, and diminish the fits of conghing. Dr. Meunier's lozenges are rapidly absorbed, and the organism is quickly and thoroughly imprognated with the antiseptic substances. Their odour is observed in the breath, in the urine and perspiration of the patient shortly after the lozenges hare been swallowed. Owing to the purity of the substances cmployed, this treatment never disturbs the digestion. The action is prompt and effectual ; tonics and strengthoning medicines may be combined with this treatment. Under it the patients incresse in weight, diarrhcea and night-sweats disappear, and the local symptoms are modified.

## VIENNA. <br> [fron our own correspondent.]

The Carlsbad "Cure."-Hypodermic Injections of Antipyrin.General Niees.
Docens Dr. Jaworski, of Cracow, gives, in the Pracglad Lekarski, under the abore title, some interesting details respecting the influence of the springs of Carlsbad on diseases of the stomach. The author first emphasises the fact that the majority of gastric disorders are due to an increased activity of digestion, and not, as had long been thought, to impairment of the secreting porer of the crastric mucous membrane of the stomach, or to complete destruction of the digestire action. He rufers to the publications of Ruchmann in 1852, in which increased sccretion of tho gastric juice was sail to be the cause of the disease, and also refers to rusearches on the diseases of the stomach by Jarrorski, Gluzinski, and others, which illustrated this statement by sercral facts. Further investigations had shown that, in ulcerations of the stomach, hydrochloric acid was increased, and that hamatemesis, as a result of ulcus ventriculi, was obsetved when the secretion of hylrochloric acid had risen to the highest point. The diminution of the secreting power of the stomach greatly lessened the danger of gastric ulcer. The springs of Carlsbad had boen said to stimulate the secretion of the stomach, and to quicken the digestion. Dr. Jaworski, however, obserfed that, although the mater and the dried salts of Carlsbad increased the secretion of the gastric mucons membrano when given iu small doses, when used in largo doses, or when taken for a long time, they lessened the secretion both of acids and pepsine, so that, after prolonged use of these remedies, the secretion was completely arrested without any great disturbances in the mechanism of the stomach. Out of 232 cases which Dr. Jasorski had axamined, in 156 he found the cause of the gastric disordor to be increased secretion of hydrochloric acid. The gool effect of the springs of Carlsbad in alnost all diseases of the stomsch was thas explained. With referenco to tho indications for tho uso of the waters, Dr. Jaworski, as the result of numerous interoal examinations of the
stomach, distinguishes the following stages and forms of gastric diseases. The use of the springs of Carlsbad is indicated: 1 . In increased secretion of the gastric acids during the time of digeation only (hypersecretia digcstiva transitoria). In euch cases the use of the Carlsbad waters lessens the sensibility of the mucous membrane of the stomach. 2. In incressed secretion of the gastric acids when the stomach is empty (hyperscerctia hyperacida continua simplex). When the Carlsbsd waters are used in such cases in smsll'quantities, not only the normal, but the functional and structural conditions were reestablished. 3. (a) lo the third stage, which had been called by Jsworski catarrhus acidus vo gastrorrhea hyperacida continua, where the secretion of hydrochloric acid bad attained the highest degree, 60 that the acidity of the non-digesting stomach was scarcely less than it is at the period of active digestion. In these casce, disturbances of the chemismns of digestion and anatemical changes of the glandular apparatus, and even in the muscular layer of the stomach, were already present. The use of the Carlsbad water, in large doses and for a long time, will diminish the acid secretion to a high degree, end produce a considerable improvement in the disease; (b) As, according to all the experimental results which had been hitherto obtained, the round ulcer of the stomach ( $u^{\prime}$ cus ventriculi rotundum) was attended with the acid catarrh just mentioned, and was probably preduced by it, the favourable effect of Carlsbad water in cases of gastric aleer was satisfactorily accounted for. 4. Besides the continual increase of the acid gecretion, there was still another abnornal and periodic hypersecretion of hydrochloric acid of nervous origin. The difference between these forms consisted in this, that in the former the increased acidity was met with at each internsl examination, whereas in the nervous form, the iocreased acidity was only occasionally observed. In this latter the Carlsbad water might be advantageously employed. 5. In certain nearoses, sensory (hypcresthesia, cardialgia) as well as motory (vomitus nervosus), Carlisbad water is not less useful. Dr. Jaworski does not remember any single case in which the water had been vomited, and this was also true of cases in which no other liquids, and even no medicament, could be retained in the stomach. In such cases the good result was to be ascribed to the mild effect of the warm and diluted alksline solution and the free carbonic acid on the mucous membrane of the stomach. The use of the waters of Carlsbad is contra-indicated in : -1 . The foutth stage of the secretory debility (insufficientio secretionis aciddce), when the acid secretion was insufficient even during digestion. 2. The last stage, which had been called catarrhus mucosus, when hydrochloric acid and semetimes even pepsine was quite absent even during digestion. Even in these cases it was worth trying whether the glandular apparatus could not be irritated to secretion by small quantities of Carlsbad water. Dr. Jaworski further points out that the effect of Carlsbad water was not only a symptomatic one, as was believed by many, that it not only neutralised the hyperacidity of the gastric contents, bnt that it also produced permanent anatomical and functional changes in the glandular apparatus, by which the power of secreting hydrochloric acid was diminished, and thus a permanent benefit obtained. Whether Carlsbad cure was indicated in a given case should be learned from the internal examination of the stomach. Duriog the time the water was used the progress of the case must be determined from time to time by internal examina tions. It had been proved by seversl experiments that a too protracted use of the Corlsbad water and salt finally led to complete loss of the power of secreting hydrochloric acid. On the other hand, it was a known fact that there was no strict causal connection between the subjective disturbances and the objective changes in the stomsch, so that no sure conclusion could be drawn from the former as to the condition of the stomach. It was therefore absolutely necessary to examine the centents of the stomach chemically from time to time in order to obtain a true idea as to its aecreting power, so that it might not be completoly deatroyed. It should also be borne in mind that atrophy of the glanduler apparatus prediaposed to the development of neoplasms in the atomach. Korezynski and Jaworski had shown (Klinische Befunde bei Ulcus Carcinoma und Magenblu. tungen, Berlin, 1887) by statistics that maligaant neoplasms of the stomach coincided with the above-mentioned condition of mucous catarrh, and that there was probably a more or less close causal relation between them.
Subcitaneors injections of antipyrin are now used at the clinic of Professor Drasche in the general hospital with much success; 0.25 gramme ( 25 centigrammes) in a Pravaz syringe were used with the best results in cases of local pain, where injections with morphine were also indicated. In tha same way they were used in cases of ulcerating tumours and cancers with rery beneficial effects.
Dr. Edward Albert, ordinary Professor of Surgery in the Vienna

University, has recently had the title of "Hofrath" conferred on him by the Austrian Emperor. Docens Dr. Jarisch, who had hitherto been connected with the Vienna Polyclinic, has been appointed Extraordinary Profassor of Dermatology and Syphilis in the University of Innsbruck, in the Tyrol.

## SAN REMO.

[FROM OUR OWN CORRESPONDENT.]
The Croven Prince at San Rems.

SAN Remo has fortunately escaped the severe downfall of snow with which Genoa, Nice, and its immediate neighbours have been visited ; but the weather has been very cold, and almost, in an Eoglish sense, seasonable. The Crown Prince, though debarred from much outdoor exarcise, continues to make progress, and has in no way suffered from the change in weather. Sir Morell Mackenzie, on his return from Algiers, expressed himself satisfied with the improvement that had taken place, and confirmed his opinion that the small growth and thickening thst had been observed was not of a serious nature. The Royal party at the Villa Zirio have had a happy if not a merry Christmas and New Year, and the Princesses declare it to be one of the happiest they have ever held.
Ou Christmas Day the Crowa Prince himself, with all the famils, was at the German church in the merning, much to the delight of his compatriots. In the afternoon, the Crown Princess sud four Princesses, with Lady Ponsonby and ladies of the suite, attended a
carel ser carel service in the Enclish church. Some very pretty German carols
with Italian words were slso sung at the mith Italian words were also sung at the Villa Zirio by the boys of one of the gevernment schools, the Crown Prince coming out into the
garden and inviting the garden and inviting the Syndic of the town into the Villa and show. iog him the innumorable Christmas presents he had received.
The Cromn Princess, through Dr. Freeman, sent Christmas congratulstions to the ladies of the Home, and intimated her intention
of pasing the of paying them a risit in the course of the week.
Prince Henry is still here, and a tennis-court as well as a small amateur theatre at the Tilla have been arranged for the young people.
Dr. Krause gave a luncheon to Sir Mereli Mackenzie, at the West End Hotel, before his departure, and invited Drs. Freeman, Heryng, Hovell, and Count Seckendorff to meet him.
Many people have arrived within the past week. Yillas are being let and the hotels filling, and there is no doubt that the spring season will be an exceptionally good one.
The Crown Princess attended the monthly ordiaary committee meeting of the Ladies' Home, and showed an active interest in the working of tine institution.
The last few days, the weather beiog perfect, the Cromn Prince has been out a great deal, on Sunday taking a walk of over two hours in the morning, and again walkiog in the afternoon, lookiog, at any rate, in perfect health.

## GLASGOW.

## [from our own correspondent.]

The University Council Registor. - The Merical Charities Committec.Hospital Entertainments.-Friendly Socicties' Medical Association.The Pathological and Clinical Society.—Qucen Margaret College.
The Register of the General Council of the University for 1888 has boen made up, and shows a total of 4,562 names, that of 1887 having been 4,416 .
The Medical Charities Committee at a recent meeting decided to make an attempt to arrangy a conference with the managers of the various medical charities in the city for the discassion of the whole question of medical charity, snd the securing, if possible, of united action. Hitherto the Committee has confined itself chielly to compiling reports and statistics and collecting information regarding methods used in various institutions for diseriminating between the deserving and undeserving. If the subcommittee appointed to memorialise the managers on the pronosal of a conference succeeds in its object, a rery important formard step will have been achieved.
The varions hoapitals have held this year, as usual, their seasonal entertainments. At the Roval Infirmary the annual meeting of nurses was addressed by Professor Jack, of the University. It was mentioned that, at the beginning of 1887, 501 ,pstients were present in the institu-
tion, 196 on the Year 4,789 he medical and 305 on the surgical side, Daring the surgical gide. At present thero were 13 more patients under treatment than at the begioning of last year. The mortality of 1887 hadjbeen 8.8 , as agaiust 9 in 1886, or exclading deaths within 48 honrs of admission,
6.3 as agaibst 6.0. At the Weatern Infirmary nu entertainment was proriled for rhildren, and also at tho sick Cbildren's Hospital, and the Glasgow Melleal Mission. Besides these, a very largo number of instintions promidod dinner or supper for the poor on one of the first days of the year, 5,000 at least being thus entertained. During the holidays the work of the Ambulance Association was largely increased. This is due not only to the value of the Association becoming more widely appreciatel by tho public, bnt also to the skill and celerity With which the officials respond to calls upon them. Their ambulance Waggons are constantly ready;and are usually despatched within two minutes of the receip t of a mussage.
The Coumittee appointed by the rarious fricadly societies to consiler the formation of a Medical Associatiou for Glasgow and district have issuad their report. They report in fayour of such an association, which would appoint medical officers who shonld derots thomselres exclusively to the work of the association. Upwards of fifty sach friendly socitty medical associations alresty exist, having a membership of nearly 211,000 , and the charges vary from 2 s . 6 d. to 3s. 6il. per menber per annum. A meeting to consider the whole question will bo held in Febrnary:

Of the recent rucetiogs of the medical societies of Glasgow, probably the most intereating was that of the Pathological and Clinical Society, held towards the eud of December. Dr. William Mascren occupied the orening by shoriog cases of cerebral abscess that had been operated on, and an epileptic, from whose brain a small tumour had been rem oved, Whose presence in the motor ares had been the source of irritation. Dr. Macerren also discussed the elicitation of a differentisl cranial percussion note, and its aid iu diagnosis, showing patients in whom the note was abuormal, and sectione from a case mith dilated ventricles, in which during life a distinctive note was produced. At the Jenuary moeting of the Society, specimeng of cervical dislocation of the spine, ossification of the choroid, and a diphtheritic cast of trachea, bronchi, and bronchial tubes, obtained from a tracheotomy woand, were shown by Mr. Maylard, Dr. Reid, sud Dr. H. C. Cameron respectively. The latter showed, also, a specimen of subperiosteal sarcoma of the humerus.

At Queen Margaret Collere, a course of evening lectares las been arranged, each of the College lectarers deliveriog one of the course. The coarse includes ten lectures, and amoug them is one on "Metamorphosis and Mimicry," by Mr. J. H. Fullarton, B.Sc., and one on "Disease and Atmospheric Particles," by" Dr. McGregor-Robertson. The other anbjects belong to litersture or art, such as that of Professor Caird on "The Genius of Carlyle," Professor Nicol on "American Pocte," Professor Veitch on "Border Song.

## CORRESPONDENCE,

## ELECTROLYSIS IN TKE TREATMENT OF UTERINE FlBROIDS.

Sur, -In yonr Hospital Ieports in the Journal of Janabry 7th is publiahed a case of "enucleation by electrolysig of a large uterine fibroid," occurring at the Soho Hospital. As this case has already been quoted as an example of the risk attending Apostoli's treatment, it secms only fair to point ont thas the electrical applications were condacted with a frequency and intensity which certainly were in excess of a aything recommended by him, avil that the slongling Which followed may prebably be roferred to this, and not to the in. herent risk of tho method itself. Apostoli's galranomoter is only graduated up to 200 milliampèros; he never exceeds this, and generally works with lower intensities-at least with the negative pole. Moreover, he nsaally applies the electricity once a week. In this case the applicatlons were nuch more frerrient and severe. Thas, on August 12th, 15 th, 18 th, and 20th, the pegative polo was iutroduced into the nterine cavity four joches and a half, and eurrents of 250 , 250, 300, and 235 milliampéreg were used for ten minutes ; and it was after this euergetic action that sloughing occurred, happily termiasting in the recovery of the pationt. In promoting the absorption of fibroids, Apostoli recommends the puncture of the tumour per vaginam to the extent of a quarter to half an inch, not the canterisation of a large ourface, as in this iastance, in which tho negative pole was introduced into the uterine cavity.
This pols is described by Eugelman as " the irritating pole which promises the highest potence of the destructive and denitritive setion of the galvanic curreot." There is probably a considerable difference botween the action on a tamoar through a puacture, and the applina. tion of a long onprotectod electrode in the uterine cavity. When I visitad Apostoli's clinique, I particularly inqnired as to the occurreace
of accidents such as that described in this case, which struck me as not improbable; aud I was assured that notting of the kind had boen observed, nor doos Engelman refer to any instance of the sort in his many cases ho has treated. In a recent case of my orn, in which I have uade fivo uegative electro-punctures of a large fibroid, rapidly increasing in size, two of them of 200 milliamperes, there has beon a tolerably free and somervhat offensive nterine discharge, not provionaly existing, and the tumour has pari passu diminished from the size of an adult hesd to that of an orange; but thero has been no sloughing, and no discharge of any subataace, the trunour haring apparently simply alsorbed. Tho action of the negative galvanic current in electrolysis is probably simply that of a strong atimulus to aboorption, not of a cantery, as is proved to be in this case, the lesson to be learnt from which is probably that very high intensities should be avoided, and that its applicstion should be madc at longer intervals. The hopefulnese of this treatment has alwaye scemed to me to lie in the well-know clinical fact thet uterine fibroids often undergo spontaneous absorption-as, for examplo, during the iavolution following labonr ; and it seeme not unressonable to suppose that we may find a means of doing by art what is eften done by Nature, under conditions as yet but little understood, but well worthy of further study. - 1 sm , etc.

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\text { George Street, Hanover Squaro, January } 7 \text { th. }
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## HOW SHOOTING ACCIDENTS OCCUR.

Sir,-Sir W. Dalby's paper on this subject is worth resding and considering by evcryone who finds excrcise aud ploasuro in shooting. I can homologate sll his sentiments, but I would like to point out that here, at any rate, in Scotland, on some moors and covers, some of his precantions are quite impossible; for iostance, that of never getting over a fence or ditch without taking ont your cartridges. Last week I was one of a party where the ground was so broken with hedges, ditches, fences, and obstractions ionumeriable, that if we had abstracted our cartridges on . each occasion wo would have had pretty good exercise and plenty to do. In a case like that it is conough to exercise care, sud see that your gun is at balf-cack.

Most of the accidents in the field rhich I have seen have occurred from shooting in line. This is en sccident which cught really never to occur, and still it is not al ways duo to ignorance on the part of the sportsman. Some men get so excited that they forget exerything but the game and the gun. As a rule they aro poor shots, and no amount of experience would ever make them either careful or good shots. A sportsman is born, not made, and 1 should not like thas a law would be passed that nobody bo allowed to shoot unless he has as a boy been taken out alone. Most of us as boys have had very little chance of using a gun. The fact is, that nohody should try shooting who, after the first trial or two, finds he has not a "linack" for it. I was myself bronght op where there ras plenty of fishing and shooting. I could never learn to fish, although 1 tricd hard, and 1 think that sportsmen should only exercise that sport which they find they arc best snited for; mobody certainly ought to lift a gun who knows nothing about it. If anyono wishes to leara let him study his gun first, and the first time he goes out he shonld let that be known, so that the others way keep'out of his range. There ought to be rery little danger in shooting, and I thiak if men of inexperieace, and experience too, would be content to " keep cool" in spite of losing a "chance," there would be none at all. -1 am, etc.,

Crosshill, Glasgors.
Stuart Nairne.

## TIIE ERGOSTAT AND LATERAL CURVATURE.

Sir, - I was very much interested in reading the account of the ergostat in the Journal of Janasery 7th, and cenvot bnt think that its nsefulness will become recognised, and is sure to extend in,the future.
Amongst tho various calisthenio exercisos I recommend for patients sulfering from lateral carvatnre of the spine is that which bas received the appollation of the "top-sawyer movement," from the position of the neen when sawing through blocks of wood, etc. The use of the ergostat wonld csuse similar movements, but apparently would throw the shoulders further back at esch tarn of the handie, and thusiuduce much fuller respirations; but what is more ditlicult to acquire, and yet of the ntmost importance is the treatment of delicate patients, is to regulate the smount of exercise, and this probably can only be dene vory accurately by the employmeut of the machine ander con. sideration.

I have frequently watched chaff-cutters at work, and, thought how beneficial some similar exercise would be to scoliotic girls. In presforming many exercises, the breath is rather apt to be held for a longer
time than is desirable, and especially is this so in the slow movemeats with dumb.bells, snd no doubt would be so at first with the ergostst. In giving the rules for the employment of this apparatus, it is recommended that speaking should be abstained from. This may be a wise precaution when the patients have become mechanical enough to conduct the revolutions withont auy epecial mental effort but uatil they have becomo sufficiently educated to continue the free respiratory morements while their attention is directed elsewhere, I think it a good plan to iustruet the patients to count audibly.
I should like, slso, to eay that it is important to have the handle of a carefully provided length, in order that the hands msy be plsced a fair distance apart, and so allow the chest to expand fully; while at the same time the arms should be extended as much as possible duriag the wholo time. It would be a valnable addition if (withont interfering with its stability) the props or uprights of the machine corld be constructed so that the height mosy be regulated according to that of the patient using it.-I am, etc.,
augustrs Clay, Assistant.Sargeon Orthopredic

## Birminghsm.

 and Spinal Hospital.ST. JOHN'S HOSPITAL FOR DISEASES OF THE SEIN.
SLe,-Macaulay's "every schoolbyy", knows that even a breath of suspicion with refereace to the financial department of any charity is immediately succeeded by a lamentsble dearth of contributions by the public. I noed not therafore proffer any additional justification for trespassing upon four raluable space with this communication. When I sssert that one of the medical officers present at the meeting recorled in the Jocrnal for December 24th, andibly regretted "that the meeting was not a legal one," it will be seen how far the interests of the hospital were intended to be promoted by the small band of some twenty governoors constituting such meeting, ont of a roll-call of about 800 subscribers we claim the distinction to moster. But there is a far more serious feature arisiog out of these proceedings. The persons convening the meeting were informed of the impropriety and illegality alike of their proposed venture, and were entreated to abandon their project. They knew that when the tressurer rejected tho date improperly fixed by the requisition, and substitutted in lien thereof January 18th, he was wholly influenced by a desirs to place before tha governors the officisl audit up to December 31st, 1887 . The board of mansgement, after mature deliberation, regarded the acquisition of this andit ss the best grarantee that the accounts were above suspicion. At any rate, the anditors, beiag wholly unconnected with the management of the institution, bat jealous to a degree of their professional status, wonld be present to deal with all mstters provoking either inquiry or investigstion. The reductio ad absurdum is reachod when one reflects that the persons who refuse to a wait the rasult of the andit are identiesl with those who are persnaded that an inquiry into the accounts is an nrgent necessity.

The board of management, as may be assumed, took no part whatever in the meeting. They could not well arrive at any other determiation, with any regard either for consistency or for the best interests of our hospital. Oa Januarg 18th the management will be completely vindicated in the eyes of the public, but I should hesitate before predicting how long it will be before the mischievous effect of the meetiog held on December 20th will be removed, and confidence in the hospital fully restored.-I am, etc., Thos. J. Sarage,

Homorary Solicitor to tha Hospital.
57 and 59, Lodgate Hill, E.C.
metropolitan provident medical association.
Sin, - In raply to your two correspondents in your last issue, I shall be glad of your permission to say that $I$ hare no alteration to make in my ststement to you on December 31st, which was simply a record of fact.
Sir Spencer Wells, who was in the chair, held in his hand two dispensary circulars, which had been enclosed in the letter sent to him by Dr. R. H. S. Carpenter. He comniented upon tho letter, bot did not read it, though requested to do so by that gentlemsn. Shortly afterwards Sir Speucer left the meeting, and Mr. Bousfield presided in itead. It was duriog this timo that the "disorder" took plsce, and it commenced in this way. Mr. Holmes, who like several others of the committeo had recoived a copy of the letter and two dispenssry circulars which accompanied it, followel Sir Spencer's example by commenting upon the letter and declining to raad it, although requested to do so by Dr. Carpenter, who sccusod Mr. IIolmes of misrepresenting its contents. Subsequently the letter was read ly Mr. Hentsch, on behalf of the Medical Alliauce Association, and the dis-
turbance which followed arose, I repeat, from those on the platform and their supporters in the body of the hall, endearouring to overcome by noise, which included stampiog of the feet, what Dr. Carpenter said in reply to Mr. Holmes, and in s deauncistion of some of the members of the committee who were present
The proceeding, which was a lamentablo exhibition of nufairness, it is to be hoped will not be valued by thonghtful men of the profession, and the sooner it is forgotten, in my opinion as an ontsider, the better it will he for those originating it. For that reason, if for no other, I decline any further correspondence upon the snbject.-1 am, etc., Towry Pifer,

> Pridham, Fiper and Co., Solicitors to the
> Medical Alliance Association.

1, Old Serjeant's Inn, Chancery Lane, London, W.C.
Sre, - I was present at the meeting, and am astounded to read Mr. Timothy Holmes's insinuations in the Jour.nal of December 24 th, to the effect that the disconrtesy arose from general practitioners opposed to the scheme. It is trua that the scheme met with determined opposition, and it is likely to do so from general practitioners, whose very living is pat in peril. (I may say tbat a strong association is now in process of formation to oppose it step by step.)
The meeting may not havo been pscked, in the ordinary acceptation of the word, but it is curious thst I and two other practitioners to whom I have spoken received no notification of its being held. I went through the inritation of a friend, and was shocked besond conception to see the manner in which a gentleman-whose white hairs alone shonld have been a guarantee for indulgence and reverent respect-was hooted down and interrupted by cries of "Tarn him out!" etc., by men who must have been in the nursery at the time when he had had a large exparieace of general practice.
At the next meeting, should due notice be given, it will be apparent that the main body of general practitioners are conrinced that the
existing supply the needs of those fees to their private medical attendants, and that this long-suffering body are determived to oppose any further attempts to provide certain influential poople with cheap philanthropy at the expense of their pockets.-I am, etc.,
F. H. Conern.

18, Abercora Place, N.T.
Sir,-The letter of "A.S.R.W.," published in the Jotryal of December 24 th , on the above subject, appeazs to take far too gloonay
a view a view of the consequences resulting from the establishment of local "provident dispensaries." That they mas possibly absorb some members who would otherwise be prirate patients at low fees, is doabtless true, bnt is not the disadvantage more than counterbalanced by the gain of having on your list a number of "provident members," whose periodical subscriptions fully make up for the occasional loss of a low tee, to say nothing of the chance of makiog a doubtfol debt (if you give cradit) amongst a class of patients whom it is both undignified Ind unprofitable to give to a collector, or to sne in the County Conrt!
I consider also I consider also that it is not justifable to lay the bnrden of a debt mand a ccady-morning class, or to do whst is now frequently done, deevery penuy they can get for extras and comforts for the patient. To ohviate these erident aifficulties and disadvantages, the best remedy is undoubtedly a well-conducted prorident dispensary. I think the scheme adopted by the Mctropolitan Prorident Medical Association in starting local dispensaries is worthy of the support of the general practitioners, first, because it invites the co-operation of the local medical men, whom it consults before startiog a nem dispensary; secondly, the medical officers attached (and all local medical practitioners c3n be so) have a seat on the governing committee forming the rules for admission and payments, etc., of members; thus comparing most favoursbly with the old clab and one doctor system, which is only the provident system in an inferior degree, and under no control from the professio. -I am, etc.,

A Dispensary Doctor Sbnt to Prison.-At the Brndon Quartcr Sessions last Tucsday the appeal Was heard of Dr. Msgner from the decision of a Crimes Act Court at Ballinspittle, Co. Cork, sentencing him to two months' imprisonment for language used at Ballinadee last October. The sentence was confirmed, snd an spplication to have the sccused treated as a first-class misdemeanant was refused by the County Court Jodge.

## Naval and military medical services.

## TIE NAVr.

The following appoidments have been male at the Admiralty;-John C. B. Mae-
 SEatr-surveon, to the Agiscourt; Raneat F. Yoo, surgeon, to the Hyacinth Jasks W. U. Cinnembri, Surgeon, to the Duncan, additional, for temporary ser-
 Sargeon, to tha Hye; E. C. Warb, M.D., Surgeon, to the Roval Adelaide; MOBnoch Mackenzie to be Surgeon and Azent at Stornoway; J. K. Somenvilale to be surgenn anf Agent at Swanage; J. F. Bate, Surgeon to the icarus; Roneat Habmir, surgeon to the llercules, idditional; James O'Cosnacl to be Surgeon and Agent at Crookhaven; G. G. Jowrs to be Surgeon and Agent at Amlweh.

We toderstand, the U'nibed Service Cinselle says, that the Medical DirectorGeperal of tho Navy. Sir Julnı Reld, K. ©. B., whi bo sneceeded on Fobruary 1st by Iespector-General JAMrı N. Dics, C. B., Senior Medical Offieer on the Active by
List.
Staf-Surgeon Micharl loonas, B.A., Jate of the liover, god formerly Surgeon at Chatham Duckyard, who has been sotne time in hospital, is ordered to be dlacharged and placed on half-pay.

## THE MEDICAL STAFF.

Bacade-icrnzon W. R. Last has retired with the honorary rank of Deputy Surseon-Gederal. He entered the aervice as Assistanat-Surgeod December 2oth, 1sj1; became Surgeon Janary 4th, 1811 ; Surgeon-Major Mareh 1st, 1813 ; BrigadeSingeon, Noveniber 5th, ISS:. Beginning his career in the 2nd Grenadier Gnards, be continued with this battalion as Assistant-Surgeon, Surgeon, and SurgeonMajor sueceasively till May 25 th , 1877, when he was transferred to the 1st Scota Gusrls as Battalion-Surgeon, and remained with this corpa till November 5 th last, when be was appointed Brikade-Surgeon to the Brigade of Foot Guards. He crved with the Ist Scots Guerds io the Egyptian war in 1882 and was at the battle of Tel-el-Kebir; he has the medal and elasp and the Egyptian brosze atar for this campaign.
Sargeon-General H. T. Readz, V.C., C.B., is granted retired pay. His commisLons are dated :-Assistant-Surgeon, November 8 th, 1830 ; Surgeon, November 3rd, 1857 ; Surgeon-Major, September 7th, 1871; Brigade-Surgeon, November 27 th, 1979 ; Deputy Surgeon-Gederal, March $27 t h, 1590$; and Surgeon-General, November soth, 2ssi. We learn from Harts Army List that he served in madical charge of the 6 ist Regiment at the sipge of Delhi from July 1st, 1857, to the flual capture of the city ou September $20 t h$; he was present at the repulse of the sortiea of July 4 th, 9 th , ISth, and 23 rd , sccompanled the regiment at the assault of the city on Scptember 14th, and anbsequently with a small party of tha 6Iat repulsed an attack of about 800 Sepojs on some wounded men, whose lives were chereby saved; on September 16 th be was one of the first uI the breach at the storming of the magazine, and with a sergeant spiked a gnn-mentioned in despatches, snd reeommended for promotion for "nnwesried exertions and gallant condact in the field "during the slege and assault of Delhi (medsl with clasp, and Vietoria Cross) ; he was a warded the V.C. for the following aervlcea: "Doring the siege of Delh, on Sertember J4th, $185 \%$, while Surgeon Reade was attending to the wounded at the ead of one of the atreets ot the city, a party of rebels ad. venced from the direction of the $B 3 n k$, and having eatablished themselves in the houses in the street, commenced firing from the roots. The wounded were thas in very great danger, and wonld have fallen into the handa of the enemy, had not Surgcon Reade drawn his aword, and, calling upon the few aoldiers who were near to follow, aucceeded, under a very heavy fire, in dislodging the rebela from their posillon. Surgeon Resdo's party consisted of about ten in all, of whom two wera cilled and tive or six wounded. Surgeon Beade also accompanjed the regimeat at the assault of Delhi, and, on the morning of September 16th, 185\%, was oue of the arst np at the breach in the magazine, which was atormed by the sist kegiment ad Belooch Battalion, upon which occasion he, with a sergeant of the 61st Regiment, ailked obe of the unemy's gune." He was nominated Companion of the Order of the Bath on Juve 2lat last. He was Principal Medical Ofticer at Porta. moath.
Gargeon-Major J. D. Caown has alen been granted retired pag, with a atep of bonorary rank. Kis commiasion as Asoistant-Surgeon beara date October Jst, $186{ }^{\circ}$; as Surgeon, Mareh Ist, 15:3; and Surgeon-Major, October 1at, I 979 . He has no war record.

Quartermaster Fredzrick Philpot also has gone on retired pay, with the henorary rank or Major. Ho entered as Apothecary, September 21st, 1560 ; was made Captain of Orderlies, June 25th, 1873 ; graoted the honorary rank of Captain, Eeptember 21st, 1800; and became Quartermaster Bedical Staif from July 1st, 1531. Ife was in the Crimesn war In 1854-56, Inclnding tho battle of Inkerman and the fall of Sebastopol (Crimesa and Turkish medals). He was alao engaged in the war In Egypt In 1S82, snd has the medal and Egyptian bronze star.
Thaname of Sargeon-Major P. II. E. Cross has been removed from the list af Re tired Departmental oflcers. He was convicted of the morder of his wife, and was hanged at Cork on January loth. Hla aervice as Absistant-Surgeon in the ariny dates from April $3 \mathrm{rd}, 1849$; he was promoted to be Surgeon May $15 \mathrm{th}, 1555$, and Bufheon-Major Februsry 2 ith, 1872 ; he retired on haY-pay April 14th, 1875 . IIe
received the medal and clasp aad the Turkialu medsl for he Crimean campalcn, inreceived the medal and claspand the Turkishmedal for the Crimean campalinn, inclading the alege and fall of Sebastopol; snd he had also the medal t
Deputy Surgeon-General Hemar Mantyo Fraser, ML. D.,whodied at Leamington on December \$1st, was theson of the late Rev. Ingh Fraser, M. A, of Ardchattan, Argyleahbre. IIe entered the Army Medical Service as Asaintant-Snrgeon September 11th, 1519 ; becarne 8argeon Oetober 2nd, 1857 ; and Sargeon-Major Jnne 15th, 1862 ; he retlres on half-pay July 20th, 1874, with the honorary rank of Depnty 8 orgeon-General. He served In the Indian 3 intiny eampaign, and was at the siege and captnre of Lncknow, where be aetnd as Sanitary Officer to the forcea nnder the Comemander-in-Chief. ire was also present st the taking at Sandee in October, 1853, when he was Cliel Medical onter with the force nuder Brigadier Hale.
Depraty Iospector-General Enward Branrord, F.R.C.S., F.L.S., died on Manary fth, at Harrow, at tho alvance, age of $\$ 6$, Ha entered the Army Medical Service as Inspital Assistant, December sth, 1 Sob ; became Assistant Snrgeon Mareh 20th, 1825 ; Snrgeon, September 24th, 1841 : Surgeon. Major, Aprll 1 lith, 18.52 ; and retired on half-pay lecember Tth, 18 ss, with the honorary rank ni Deputy Inapector. General. Ie was appolnted IIanorary Surgeon to the Qneen Angrist Jeth, 1559. Ue had no war record, bat was tn recelpt of a leward for dis. tirgulahed and merthorious oervice.

INDIAN MEDICAL SERVICE
mozor A. II. Ililson, M. W., Bengal Estrhishment, is promotel to le bepnty Suricon-Gederal with temporary rank, vice W. R. Rice, M.D., contirmed. Deputy Surgeon-General Hilson's enmmission as Assistant-Surgeun bears dato Jannary 29th, 1857, and he attained the rank of Brigade-Surgeon September 9th 155.f. Ile served in the Indian Mutlny eampatgn in 1557-59, and was present in numerons engagenents with the rebela, at one of which he was severely wounded - Dientioned in despatches (medal). He was alao with the Bhontan expedition in $1865 \cdot 60$ (tuedal with clasp). The services of Brigade-Surgeon A. II. Hilsoo are temporarily placel at the diaposal of the Military Department.
Brigade-Surgeon N. R. Brce, M.D. Bengal Establishment, is promnted to he Deputy Surgeon-General, vice R. F. Iutehinson, M.D., whose term of service has expired. Duphty Surgeon-General Rico entered tha service as Assistant-Surgeon November 20th, 1856, and becaue Brigade- צurgeon April 10th, 18S4. Ile has the medal for the Indian Mintiny eamaraion in 1 Sis .
Surgeon J. Macorboor, M.D., Bnmbay Establishment, is appolnted to the medical charge of the 20th Native Iafsotry, vice Surgeon II. V. Dimmock, mp pointed Civil Surgeon of Shikarpore.
The services of Surgeon.Major C. T. Peters, M.D., and Surgeon D. C. DatidSon, both of the Bombay Establishment, are placed at the disposal of (Goverament in the Civil Department
Surgeod-Major W. Grar, M.B., Boubay Establiahment, is allowed furlough to Europe for one year on medical eertiticalo with the necessary subsidiary leavo.
Surgeon G. M. Nixos, Bengal Establishment, oe return from depntation in the Gsol Department, is appointed to the civil medical charge of the Furruekabal
district from the date of taking charge.
Sargeon W. G. M'Evor js admitted to the Maras Establishment from November 5 th, the date of his arrival nt Bomhay.
Surgeon A. V. Annmbson, Bombay Establishment, is ordered to offeiate in medical charge of the 3rd Light lufantry.
Surgeon C. H. L. Mzrer, Bombay Establishment, is directed to officiate in nedical charge of the Sth Nistive Infantry.
Surgeon-Major C. J. W. Beadows, Bengal Estahlishment, nfficiatiag civil abrgeon of Patna, is appointed to act as civil surgeon of Mozufferpore, during the absence, on deputation, of Surgeon-Major R. G. Mathew.
Surgeon-Major D. N. D. Cosiss, Bengal Establishment, nfheiating civil surgeon, Burdwan, is appointed to act as civil surgeon of Mymensingh, during the absence, Burdwan, is appointed to act as civil
on deputation, of Surgeon F. S. Peek.
Surgean M. O'DwYER, Bengal Estahlishment, on return from furloagh, ia appointed to the civil medical eharge nf the Goojerst district.
Surgeon G. A. Emersos, Depgal Estahlishment, on return from deputation in the Gaol Department, is appointed to the civil medical duties of the Boolnadshuhar district, pending the depntation of Surgeon-Major J. Armstrong.
Deputy Inspector-General J. W. Winchester, IJombay Establishment, retired, died on Christmas Day at Edinburgh
Surgeon J. C. Masspen, Madras Establishment, Medical Officer noth Native Infantry, ia appointed Civil Surgeon of Coorg.
Sargeon B. SHore, M.D., Bengal Establishment, is appointed to officiate as Residency Surgeon in Nepaul.
Surgeon-Major J. M'Conagery, M.D., Bengal Establishment, on return from furlough, is posied to the civil medieal duties of the Bari Banki district.
Surgeon D. B. Spencer, Bengal Estahlishment, is appointed to the civil medica? charge of the district and palice of Bhamo, Burmah, in addition to his military Inties, vice Surgeon-Major F. F. O'Connnr, Transferred.
Surgeon N. Chatreruie, Madras Estsblishment, is appointed to the civil medical charge of the police and district of Yamethin, Burmab, in addition to his nilitary duties, vice Surgeon J. Crimmin, relieved.
The services of Surgeon-Major E. Levinge, Madras Establishment, are permenently placed at the disposal of the Commander-in-Chlef.
The services of Sorgcon J. W. Evass and II. K. Folirer, M.B., both of the Madras Establishment, are permanently placed at the disposal of the Pablic Department.
Smbeon-Major D. F. Bateman, Madras Establishment, Medieal Ofticer 3rd Light Cavalry, has leave of absence for one year on private affairs.
Surgeon-Major P, MURPHY, M.D., Bombay Establishment, Snperintendent of Mahableshwur, in the district of Sattara, is appointed to be a magistrate of the first elass.
Surgeon-Major J. 8. Wilkins, Bomisy Establishment, is directed to officiate in medical charge of the 21 st Native Infantry.

The aervices of Surgeon Major J. Daridson, M.B., Bombay Estahlishment, are replaced at the disposal of Hia Royal Highness the Commander-in-Chief.
The following is the allotment of sumnities for 1888 from the Bombay Medical IRetiring Fund; Deputy Surgcon-Gencral J. F. SaEkleton, M.D. F.R.C.S., f25s; Bricade-Surgeon J. P. Stratton, MiD., L210*: Surgeon.Gederal C. G. H. Ross, £210*; Surgeon-Genersl L. S. Brucer, £168; Brigade-Surgeon H. ATKiNs, £l68** ("Lapsed to Governmeat, these officers having reccived a refund of their subscriptions,

## TIE VOLUNTEERS.

Mr. Mugn Prythench has been appointed Surgeon to the Liverpool Brigade of the Royal Naval Artiltery Volunteers.
The undermentioned Acting Surgeonsare promoted to be Surgeons in their corps apecifled: J. A. Grar, ist Millothisn ; K. C. Wicks, M.B., 3rd Jolunteer Rat Chlina Northumberland Fusiliera (late the Ist Newcastle); H. R. KEr, Ist Volunteer Battallon Worcester Reginent (late the Jat Worcester).
Acting Surgeon G. 1. Ghipririm, of the 1st Cheshire and Carnarvon Artillery, bas resigned hia appointroeet, which Lore date September IIth, $18 \%$ S.
Surgeon J. Lewis, M.D. and Volunteer Battallon Welsh Regiment flate the 1st Glamorgan) has resigoed hls commission, which was dated September 2Sth, 1876 he in granted the honorary rank of Surgeon-Major, and is persaitted to retain bls uniform.
Surgenn and Honarary Surgeen-Major T. W. Trend, M.D., and Volunteer Battalinn Hanuphire Regiment (late the znd IJamphire), has alan restgned hia commassion, dating from February 15th, 1865 ; he is allowed to retain his rank mod oniform.

Ir is reported that Professor Kiessmanl, of Strsssbarg, will retire st the end of the suminer session, and will be succeeded by Professor Naumyn, now of lionigsberg.

# MEDICO-LEGAL AND MEDICO-ETHICAL. 

DISGRACEFUL ACTION AGAINST A MEDICAL MAN : VINDICATION OF CHARACTER.
AT the Kilmainham sessions on January 6th, before the Recorder and a jury, the action of George Devlin against Dr. Davy, Terenure, to recover $£ 1,000$ damages for alleged crim. con. with plaintiff's wife, was heard.
Dr. Smyly, LL.D., appeared for the plaintiff; and Mr. Campbell represented Dr. Davy.
The plaintiff, a gardener, deposed that he was married in the year 1866, and in 1874 went to live at Terenure. Dr. Dary's visits to his wife then commenced, and from the first he suspected that an undne intimacy existed between thern. In cross-examination be admitted that he was in prison several times for assuulting his wife, and that she had obtained a divorce from him on the ground of cruelty.

Mr. Campbell read Mrs. Devlin's evidence in the Divorce Court, which detailed the shocking brutality she received at the hands of her husband. He was an habitual drunkard, and kicked her ond beat her a number of times. Counsel also read a letter from the plaintiff to his wife when he was in gaol for assaulting his wife a short time after the alleged occurrence in August, 1885. The letter was couched in the most affectionate terms, and asked that she wonld get Dr. Dary to come to court and give evidence that she was out of danger from the effects of the injuries he (the plaintiff) bad inflicted upon her.
To the Recorder-He never, when before the magistrates for assaulting his wife, said he did it because she had misconducted herself.
Mrs. Susan Devlin, daughter-in-law of the plaintiff, was examined for him. She, however, said she never saw the defendent in her life. The plaintiff had offered her money to swear falsely.
Mrs. Mary Anne Purcell, servant to the Devlins for eleven years, stated that there was no truth in the plaintiff's allegations. Mrs. Devlin was always a most respectable woman. The plaintiff had offered her money to swear falsely.
Mrs. Mary Tills, daughter to the plaintiff, gave similar evidence. The plaintiff had also offered her money to owear falsely. She said: My mother has a little shop, and has kept us eight or nine years by her own industry. My father is a villain and a ruffian. Ho treated us shamefully.

Dr. Davy was called, and denied all the allegations made.
At this stage the jury stopped the case, and returned a verdict for the defendant. The verdict was received with some applause in Conrt.

The Recorder said not the slightest stain could rest on Dr. Dayy. In all his experience on the Bench and at the Bar he never heard a more atrocious or more infamous case, or a more scandalous attempt on the part of a man to destroy the reputation of his wife and obtain money. The Recorder made an order that the Crown Solicitor should institute a criminal prosecution against Devlin for perjury.

ARE MEDICAL PRACTITIONERS "TRADERS ?"
In a case of Hance v. Harding, which was decided by Baron Huddleston without a jury shortly before Christmas, a point of some interest as regards the status of members of the medical profession was raised and discussed. The validity of a post-nuptial settlement made by Mr. Alfred Peskett, a general practitioner, M.D., and Licentiate of the Apothecaries' Society, in 1882, was in question. He became bankrupt in July, 1883, and the settlement was impeached under Section 91 of the old Bankruptcy Act of 1869, which provides that any settlement made by a trader shall, under certain circumstances, bo void if the settlor becomes bankrupt within two Jears of the date of such settlement. In determining the action it therefore became important to see whether Mr. Peskett was a trader within the mesning of the then Bankraptcy Act. Miedical men are generally considered to belong to one of the learned professions, and not to be, strictly speaking, traders. But it appeared that, in an affidsvit sworn in the bankruptey, Mr. Peskett had described kimself as a surgeon and apothecary, and, further, that he had on some occasions given his patients receipts for "a attendance and medicine ;" and it was contended that these facts were sufficient to constitute him a treder. It was bowever, shown that Mr. Peskett's practice was to charge his patients per visit, supplying them with medicines, but making no separate charge for them. Baron Huddleston held that there was no proof of any trading in drugs, so as to make Mr. Peskett a trader in the ordinary sense; and the question thereforo narrowed itself to this, whether the description as en apothecary was sufficient to constitute Mfr. Peskett a trader, and this le decided it had failed to do It is
carious that the law reparts aro almost silent on the question whether medical practitioners are to be deemed traders. Under the former Bankraptcy Acts, the distinction between traders and non-traders was of importance. The only case cited was Palmer's, decided in the year 1856, where the Conrt of Appeal in the case of Mr. Palmer, of Rngeley, otherwise notorious, decided that a sargeon who practised as an apothecary was a trader who could be made bankrupt. The facts of that case on which the decision was based are not, however, teported, and Baron Haddleston distinguished it from the one before him, where he found, not as a mstter of law but as a fact, that Mrr. Peskett was not shown to be a trader. As far as legal authority, thercfore, goes, it seems that a medical practitioner who dispenses medicines, and makes a charge for oo doing, is to be considered as carrying on a trade ; but that, if he merely supplies medicines as part of his a ttendance on his patients, and without charging separately for them, he does not. The question now is one of theoretical rather than of practical interest, because the legal distinction between traders and non-traders has, for most purposes, ceased to exist. It mar, however, be a source of gratification to some mombers of the profession to know that they may dispense the medicines they prescribe without necessarily by oo doing constituting themselves tradesmen.

## PROSECUTION UNDER THE DENTISTS' ACT: A LEGAL POINT.

An important case was tried at Wisbech on Tuesday, when Frederick W. Bradley was charged with infringing Section 3 of the Dentists Act, 1878, which provides that any person calling himself a dentist, or dentel practitioner, or any name implying that be is registered under the Act, unless he be so registered, is liable, on summary conviction, to a fine not exceeding £20, Mr. R. E. Melsheimer prosecuted on behalf of the British Dental Association, and Mr. S. D. Waddy, M.P., defended. The prosecuting connsel said defendant had described himself on his cards and plate as "F. W. Bradley, A.P.S. Eng.," and had carefully avoided nsing the word "dentist." Two clerks were sent from London as patients, and the charge was based on the novel ground that the defendant used the title "dentist" in connection with these patients. These witnesges were examined, and deposed to visiting the defendant, and being advisod by him as to their teeth, and to the fact that the defendant-said he was a practical dentist. Mr. Waddy, for the defence, submitted that the defendant did not use the title "dentist" or "dental practitioner," and that the Act was not intended to apply to efficient practitioners. The Bench, after consideration, found defendant had infringed the law, and fined him $£ 5$ and costs, at the same time consenting to state a case for the Divisional Court.
M.R.C.S. -Theright of M.R.C.S.England, legally, is to practise surgery only, and not medicine. The right of M.R.C.S. to practise midwifery does not depend any more than that of L.S.A., on whether a person holds only one qualification, and both are equally entitled to practise it legally.

## AGREEMENTS WITH LNQUALIFIED PRACTITIONERS

Assista writes. $3 m$ in commanication fith a gentleman whose bame appears解 anc him an annuity ont af it. Thera seems to be a medicsli practitioner in the ing him an annuity oatace. What should I do? I mant a situstion and must keep myself same safe.
** In reply to the inqniry of "Assistant," the Conrt of Appesl decided, in the case of "Daries v. Maknon," that no ralid agreement for disposal of prsetice can be made except with a duly qualifed medical prsctitioner. Of course the gentleman to whom "Assistant" rafers mas be gnch, thongh be does not appear in the Register or Directory.

## BONDS WITH ASSISTANTS.

A Membea asks for information as to the kiod of bond to be signed by an indoor assistant in the country. Is there a form to be bought, or must $s$ lavjer be employed?

* Forms of bonds may, we believe, be bought, bat probably they wonld no express the intention of the psrties. It would be ssfer to employ a solicitor in such a matter.

THE NATIONAL MEDICAL AID COMPANE
CORRESPONDENT gends us a circular of s society calling itself the Sational Sledical Aid Company, Limited.
Fe consider the scale of remuneration simply disgraceful, and times must be bad indecd when highly educated $\|$ medical prsctitioners ara offerad 3abe bad indecd when highty educated mers over 14 Jesrs of age, and is. 10 d per anoum for melical aid to sick members over ander i4 yesrs, and even in se per annom for stmalar 3ttondance of tha nermbars being in srears, as pro. liberal fecs are dependent on none of tha mermbars beill only be "seotitied to draw fession are frankly told that in those cases they will on
on those weeks" for which payments have been mada.
Wc believe that in the metropolis, at all events, small ase the fees ofter

Twild to the hant worked practitioner of medloine, there are few If any elubs that otficr lesa than fs. Jor annum for bealthy male allults, and no society up to the fresent has oftored the muniticent 8 nim of $3 s, 10 \mathrm{~d}$. per annum for stendance on present bitar ontie mernhers"
We shonld cirdlally recommend all memhers of our profeation to have as Litile as ponible 10 do with tho Nationat Medical Aid Conipany, Lurited.

# PUBLIC HEALTH <br> AN <br> POOI-LAW METICAT SFILVICJFS. <br> <br> DISMISSAL OF A PUBLIC VACCINATOR WITIOUT <br> <br> DISMISSAL OF A PUBLIC VACCINATOR WITIOUT INQUIRI. 

Tere Foard of Guardisns for Cardiff Lsvo decided to terminate the contract of Dr. Horder, the public paccinator for the town. This decision of the guardians appears to have been at the least precipitate. In his capscity of public vaccinator Dr. Horder was askod by three medics] raen to snpply them with lymph. Even had he refused to oblige them he would have been perfectly within his legal rights, but, as a matter of fact, be complied with two of the requests, though be was unable to supply lymph to the third, ofing to his shortaess of stock. At a meeting of tho gaardians on Decembor 15th a chargo mas brought against Dr. Horder of refasing to supply lymph to three practitioners, bat the guardians neithcr informed Dr. Horder that he had incurred their displeasnre, nor that they intended to discuss his condnct ; an amendment "that Dr. Horder be heard in his defence". was negatived; and notwithstanding that Dr. Horder has beld the post of public vaccinator for ten years, and has slways obtsined the Government grant for successful vaccination, the original motion, giving him twentyeight days notice of the terminstion of his contract, was carried. Unless a serious and not a frivolous charge can bo brought against Dr. Horder, snch action on the part of a board of guardians is nnjust, and prejudicial both to their own anthority and to the pablic service.

It is to be hoped, therefore, that, if only in their own interests, the gusrdians will take the carliest opportanity of reconsidering their dotermination, sad, by institnting a proper inquiry into the whole matter, restore pablic confidence in their decisions.

Health of Enolish Towns.-During the week ending January 7 th, 6,238 births and 4,279 desths were registered in the twenty-eight large Eoglish towns, inclading London, which havo an estimated popnatation of $9,398,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had been 20.8 and 24.8 in tho two preceding weeks, was 23.8 dnring the reek ending Satnrday, January 7 th. The rates in the several towns ranged from 14.8 in Brighton, 17.7 in Bradford, 18.8 in Huddersfield, snd 19.5 in Birming. ham, to 29.3 in Preston, 31.9 in Wolverhampton, 35.6 in Manchester, and 40.3 in Plymouth. The mean death-rate in the twenty-seven provincial towns was 24.6 per 1,000 , snd exceeded by 1.8 the rate recorded in London, which was only 22.8 per 1,000. The 4,279 deaths registered daring the week under notice in the twenty-eight towns incladed 493 which were referred to the principal zymotic diseases, against 457 and 503 in tho troo preceding meeks ; of these, 183 resalted from whooping-congh, 90 from scarlet fever, 67 from measles, 53 from "fever" (principally enteric), 42 from diphthcria, 30 from omsll-pox, and 28 from diarrhoss. These 493 deaths wero equal to an annnal rate of 2.7 per 1,000 ; in London the zymotic rate was 3.1, while it averaged 2.4 per 1,000 in the twenty-serca provincial towns, among which it ranged from 0.4 and 0.7 in Portsmouth and Bristol, to 5.1 and 6.2 in Bolton and Sheffield. The highest proportional fatality of measles was recorded in Birminghsm, Nottinghsm, and Bolton; from scarlet fever in Sheffield, Inddersfield, and Blackbnrn; and from whooping-cough in Salford, Leicester, Norwich, and Wolverhampton. The 42 deaths from difhtheria included 28 in London, 2 in Birming. ham, 2 in Derby, 2 in Leeds, and 2 in Cardiff. Of the 30 fatal cases of small-por recorded in the twenty-eight towns, 27 occarred in Shoffield, 2 in Leeds, and 1 in Bristol. The number of small-pox patients in the Metropolitan Asyluma Ilospitals was 8 on Sstarday, Jsnoary 7 th, and 2 casee were admitted to these hospitals daring the week. These hospitals also contained 1,259 scarlet fever pationts on Satardsy, January 7th, against numbers declining from 2,602 to 2,049 in the fisce preceding weeks; the admissions Ferc 147 during the week. The death-rsto from diseases of the respiratory organs in London was equa! to 4.8 per 1,000 , and was below the average.

Healit of Scoten Towss. -In the eight urinciral Scotch towns, having an estimated aggregate population of $1,814,274$ persons, 804 births and 685 deaths were registeicd during the week ending Saturday, Jaduary 7 th. The annual rate of mortality, which had been 22.4 and 243 per 1,000 in the two preceding weeks, further rose to 27.1 during the weck under notice, and exceerled by 3.4 the mean rate for the same period in the twenty-eight large English towns. Among these Scotch towns the rates ranged from 20.3 and 23.1 in Leith and Aberdeen to 29.5 and 303 in l'aisley and Eilinburgh. The 685 deaths registerod during tho week in these torny included 89 which resulted from the pribcipal zymotic diseases; of these, 30 were reforred to whooping-cough, 23 to messles, 18 to diarrhoes, 7 to scarlet fever, 7 to "fever," 4 to diphtheris, snd not ono to small-pox. These 89 deaths woro equal to a rato of 3.5 per 1,000 , the highest zymotic rstes being recorden in Elinburgh, Dundce, snd Ieith. Whooping-congh caused the highest proportional fatality in Aberdeen, Greenock, Leith, sud Glasgow; measles in Dundee, Edinburgh, and Leith ; and "fever" in Dundee and Puisley. Of the 4 deaths from diphtheria, 2 occurred in Edinburgh; and the 7 fatal cases of scarlet fever included. 2 in Glasgow, 2 in Dundee, and 2 in Porth. The mortality from diseases of the respiratory organs in these Scotch towns was equal to 6.7 per 1,000 , against 4.9 in London:

Healif of Irisi Towss. - In the week endige Ssturday, Jsnusry 7th, 469 births and 592 deaths were registercd in the sixteen princips] town districts, which have an estimated population of 871,128 . Tho average snoual death rate was 35.4 per 1,000 . The rstes rsaged from 5.2 in Armagh to 45.7 in Newry ; in the latter town, 7 out of the 13 deaths were due to measles. In Delfast, measles and whooping-congh both showed a decrease. In Cork the deaths from measles rose to 15, and the same disesse cansed 3 deaths in Limerick and 2 in Kilkenny. The deaths registercd in Dublin and suburbs represent an annusl rate of mortality of 38.5 in every 1,000 of the cstimated popalation ; omitting the deaths of persons admitted into public institntions from localities outside the district, the rate was 87.5 per 1,000 . The zymotic deaths rose to 37 , and inchaded 2 from measles, 9 from scarlatina, and 9 from whooping•cough.

Healin of Foreign Cities.--It appears from statistics published in the Registrar-General's return for the week ending Janusty 7th, that the desth-rate recently areraged 33.0 per $\mathrm{I}, 000$ in the thrce princinal Indian cities; cholera caused 32 deaths in Madras and 15 in Calcutta; and 3 deaths resulted from small-pox in Bombay., Accord. ing to the most recently reccived weekly returus, the mean annual death-rate in twenty-one of the largest European, cities was 24.4 per 1,000 , and slightly exceeled the mean rate in tho weok under Dotice in the twenty-eight large Eoglish towns. In Paris the death-rato was equal to 24.8 , agaiest 22.1 in each of the two preceding weeks, and exceeded by 20 the rate in London; the 1,070 deaths included 60 from typhoid fever, 37 from diphtheris and croup, 6 from scarlẹt ferer, and 3 frem small-pox. In the three principal Dutch citiesAmsterdam, Rotterdan, and thic llagno-the niesn death-rate was 21.1 per 1,000. In Berlin the rate of mortality was only 17.6 per 1,000; of tho 478 desths, 24 resulted from diphtheris, 5 from scarlet fover, and 6 from measles. The death-ratc in Vienna was equal to 26.0 per 1,000 ; the 395 denthsincluded 11 from scarlet fever, 5 from measles, sud 5 from diphtheria, In St. Potersburg the 497 desths gave a rate of 27.9 per 1,000, and included 20 from typhus and typhotd fever, 11 from scarlet fevor, and 89 from diarrheeal diseases. The death-rate in Rome was equal to 27.7 per 1,$000 ; 4$ deaths resulted from small-pox and 10 from typhoid feror. In four of the largest fmerican citiee the rato of mortality averaged 22.2 1 $\mathrm{er} 1,000$, varyigg from 17.6 in Baltimoro to 24.7 in New York. The 677 deathy iu New York included 51 from diphtheria and 25 from scarlet fever; 32 fatal cases of diphthoria were recorded in Brooklyn; and typhoid fever mas somewhat fatally prevalent both in l'bildelphia and in Baltimore.
Tue new asylum which tho managers of the Royal Edinbnrgh Asylom for the Insane have decided on erecting, and which is to cm brace all modorn improvemente, and intended to form a model institution in crery way, will, it is understood, cost $£ 60,000$.

College Politics. - After tho address resd by Mr. Paol Swain (sce page 65) befere the South-Western Brench, the following resolation was passed : "That this ineetiog desires to endorso the opinions expressed by the l'residont of the Branch in the paper resd by him, and requests him to publish it with a view to a copy being formarded to the Lord President of the Conncil and the l'resident of the Rogal College of Sargeons."

## OBITUARY.

HUGH MILLER, M.D., F.F.P.S.GLIS., L. M. We annonnce with regret the death of a prominent obstetric physician of Glasgow, which took place on January 6th. Dr. Miller graduated at Clasgow in 1864, where he began practice, devoting himaelf specislly to midwifery. He was for a long time obstetric physician and lecturer on clinical obstetrics to the Glasgow Materaity Hospital, to which, at the time of his death; he was consulting physician. He was also examiner in midwifery to the Glasgow Faculty. Hiscontributions, some of which appeared in this Journal, were all on subjects, connected with his specialty. It is only about a year since Dr. Miller returned from a sojourn abroad in search of health, overwork having, for a time, broken him down. His death was the result of pnenmonia of a week's duration. He leaves a widow, a son, and four daughters.

## UNIVERSITY INTELLIGENCE,

## MELBOURNE UNIVERSITY.

It has been decided to erect new biological and physical laboratories for the use of the University of SLelbourne, Australia.

OTAGO UNIVERSITY, NEW ZEALAND.
At the last degree day, the degree of Bachelor of Medicine was for the first time conferred an a student of Otago University, Mr. W. Ledingham Christie. Dr. Coughtrey, who gave an address on this occasion, urged that the aingle chair of anatomy and physiology, which he had formerly occupied, should be replaced by two separate professorships of anatomy and physiology respectively.

## INDIA AND THE COLONIES. INDIA.

Ceylon Medical Servioe.-Dr. J. L. Van Der Straaten has been appointed to act as principal civil medical officer of Ceylon. He is a Fellow of the Medical, Obstetricsl, and Chemical Societies of London, and Honorary Treasurer of the Local Branch of the British Medical Association. He has visited Europe twice.

Arsenio in Beer. - A number of men belonging to the Manchester Regiment stationed at Agra have narrowly escaped being poisoned by drinking beer from a cask, which has since proved to have been previously used for storing arsenic. The beer dramn from the cask Was, it was atated, comparatively pure, but the dregs contained enough arsenic to poison a whole regiment.

Bequests:-Mr. Joseph Nicholson, of Sheffield, bequeathed $£ 525$ to the Geveral Infirmary, and $£ 105$ to the Hospital for Women. - Mrs. Louisa Webber, of Upper Wobnrn Place, bequeathed ' $£ 500$ to the Royal Free Hospital, £300 to University College Hospital, and £300 to the St. Pancras and Northern Dispensary.-Mr. James Wishart, of Leith, merchant and ahipowner, bequeathed $£ 300$ to the Edinbnrgh Royal Infirmary, and £250 to the Leith Hospital,-Mr. Joseph Aley, of The Hough, Stafford, bequeathed $£ 400$ to St. George's Hospital. The Quon's Hospital, Birmingham, has received £250 under the will of Mr. William Slaney Lewis.-Mr. John Endell Powles, of Newton Court, Monmouth, bequeathed $£ 100$ to the Monmouth Hospital and Dispensary.
The Hospitals Association.-Dr.J. S. Bristowe, F.R.C.P.Lond., F.R.S., Senior Physician to St. Thomas's Hospital, has accepted the Presidency of this Association, vice Sir Andrew Clark, M.D., resigned. Sir Edmund Hay Currie, Mr. E. H. Lushington, Trcasurer of Gny's Hospital and Mr. F. C. Carr Gomm, Chairman of tho London Hospital, have also joined the Council of the Hospitals Association.

Fatal Football.-During this season the number of fatal injuies at football has been very great. Two deaths from this cause are reported to have occurred in one week.
Tae Duchess of Albany has consented to act as a Patroness of the Fancy Dress Ball to be held on February 9th, at the Hôtel M6tropole, in aid of tho fuads of the North London, or University Col. lege, Hospital.

## MEDICAL NEWS,

Examining Board in Esgland by the Royal Colleges of Perriotans and Surgeons. - The following gentlemen passed the Second Examination of the Board in Anatomy and Physiology on January 9 th.
J. Atcberley, J. A. Abbott, and P. Gross, starleats of Yorkshire College, Leeds ; P. I. Mehta, of Bombay; *T. Ohlmus; "O. R. Lewiq, and "T. Lawson, of Edinburgh University ; H. G. Barlow, of the Bristol Medical School ; O. L. Robiason, of Dublio; R. C. McCullagh, of Belfast; A. E. Davis, of Newcastle on-Tyme ; E. L. Rowse, of Cbaring Cross Hospital ; C. W. Vernow, of St. Bartholomew's Hospital.
Passed in Anatomy only.
C. F. Sutton, R. A. Burdett, and A. H. Aldridge, of Owens College, Manchester; W. Hutchinson, of Michizan ; A. F. Gervis, of St. Ihomas's Hospital; R. H. Heptinstall, E. T. Hollings, F. P.. Shackleton, T. W. Swales, and O. F. Rowley, of Yorkshire College, Leeds; is. Greenwood and J. F. Atkins, of Birmingbam; and C. Bernard, of Bristol Lfedical School.
Passed in Physiology only,
A. Shanks, of Glasgow University ; F. T. Jaekson, of Liverpool ; J. A. Bell, of King's College; E. J. McCardell, of Kingston, Canada; A. B. ©. Stewsrt, of Yorkshire College, Leeds; A. E. Lathbury, of st. Bartholomew's Hospital ; C. I. Blakeman, of St. Thomas's Hospital ; J. H. Dempster, of King'z College; J. Hall, of Loador Hospital ; and *W. R. Willey, of st. Mary's Hospital.
Passed in Anatomy and Physiology on January 10th.
W. H. Kershaw and F. J. W. Porter, of London Hospital ; "R. E. Weigall and *A. A. Parry, of Helbourne University ; +W. E. West, I. F. Nall, F. I. Rawlingon, W. W. Kenoedy, J. Monre, aud W. B. Curgeoven, of St. Bartholomew's Hospital ; H. Fairfax, of Chating Cross Hospital ; E. J. C. Tyler, of St. Thomas's Hospital ; J. D. S. Nodes, of University College; E. J. T. Crutchley and R. A. Earlo, of Middlesex Hospital ; aod W. F. L. Green, of King's College.
Passed in Anatomy only.
W. White, of Midulesex Hospital ; E. G. Boon and F. J. O. Stephenson, of St. Mary's Hospital; T. Prescatt, of King's College; H. I. A. Kellar, of St. Thomas's Hospital ; J. R. Daly and H. F. Ransume, of Owens College, Manchester; F. Winnett, of Toionto; E. ©. Ryall, of Dublin and Mr. Cooke's; J. L. S. Sherlock, of London Hospital ; and R. H. B. Dudgeon, of Liverpool Infirmary School of Medicine.
Passed in Physiology only.
J. T. Barrow, of Chariog Cross Hospital ; M. Jenkins add F. D. Lumjey, of Guy'z Hospital ; F.H. Lewis and A. Addie, of St. Bartholomew's Hospital; C. U'Sullivan, of London Hospita]; and G. T. K. Maurice, of St. Mary's Hospital.
Passed in Anatomy and Physiology on January 11th.
E. W. Witham, of Westminster Hospital ; S. Share-Smith, of St. Bartholomaw's Hospital ; J. Spurr, of St, Mary's Hospital ; T. Bamford, of Uñiversity College ; W. W. Wingate and W. E. S. Cobb, of Guy's Hospital.
Passed in Anstomy only.
F. W. Gattey and W. A. Mercer, of Kiog's College; *W. W. Lacey, \#W. M. Kesl, of St. Bartholomew's Hospital and Mr. Cooke's School; H. H. Brind, of St. Mary's Hospital ; A. W. Sturdee, S. R. Strouts, H. E. Burch, and Y. H. Mills, of Loddon'Hospital; E. H. Cireaves, of Guy's Hospital: A. H. Reinhardt, of Yorkshire College, Loeds ; P. T. Ludo, of Middlesex Hospital; "A. M. Ewing, of Toronto and Mr. Cooke'a School.

Passed in Physiology only.
A. E. Price and R. H. D. Mabon, of St. Thomas's Hospital ; C. S. Bowker, of Middlesex Hospital ; H. S. Archdale and W. D. Spurrell, of Gus's Hospital; R. Jackson, G. Lys, A. Greenwond, and W. H. fruodsom, of Gay's Hospital; H. C. Powell, of Charing Cross Bospital ; B. W. Longhurst and P. La Webster, of King's College; E. A. Brown, J. H. Mortimer, and W. J. C. Keats, of St. Bartholomew's Hospital ; W. L. Deut, of King's College; ${ }^{*}$ G. R. Bickerstaff and J. R. Fidler, of St. Mary's Hospital.

* Vider Old Regulations of College of Surgeons.

Royal College of Suroeons of England. - The following gentlemen, having passed the necessary cxamination in Surgery for the diploma of Member, and having since obtained a medical qualification, were, at a meeting of the Council on January 12th, granted their diplomas.
O. W. Aodrews, M.B.Dir., 11, Addison Terrace, Notting Hil]; T. N. Greeves, L.S.A., 53, South Hill Park, Hampstead; and T. Lakeman, L.S.A., 24, Claylands Road, Clapham Rosd, S.W.

## MEDICAL VACANCIES.

The following vacancies aro announced :
BELGRAVE HOSPITAL FOR CHILDREN, 79 , Gloucester Street, S.W.House Surgeon. Applications by Jannary 31st, to the Honorary seeretary.
BIRKENHEAD BOROUGH HOSPITAL.-Seoior House-Surgeon. Salsry, £90 per annum. Applicatioos by January 30th, to the Chairman of the Weekly board.
BIRMINOHAM GENERAL HOSPITAL.-Tivo Assistant Honse-Surgeons. Applications by Jaonary 2 sth, to the IIouse Governor.
BRIGETON, HOVE, ASD PRESTON DISPENSAKT. -TW Honse-Surgeons. Salary, El40 per annum, with apartments, etc. Applicstions by Jannary 3Ist to the Assistant Secretary.

DRISTOL GEAEEAL IIUSIITAL．－Assistaut Physician．Salary，e50 per annum，with lward，etc．Applications lyy January E3rd，to the Secretary．
ERISTOL IIOSIJTAL FOR SIOK CIILDEES AS゙D WOMEN：－IDDUSESUF geon．Lalary，玉l00 per annum，with apartaments，otc．Apylfeations lyy Janu－ ary ：3rd，wo the Tressurer snd Committee．
BROBLEE USION，Kunt．－Medical Oflicer for No． 5 District．Salary，Leo per sanum，vaccivation fees and extran．Apylicatious by Jsouary lyth，to §．O．Jailion，Esq．，Local Ulices，Bromaley，Keat．
ESSEX AND COLCHESTER IIOSPITALATlugsiclan．Salary，fion per annum． Applications by January 16 th，to the Secretary．
Hosplral for sick cirldorex，Great ormond strect，W．C．－Medical Registrar and r＇sthologist．Honorarium，ess 10s．Applications by Jasuary 94th，to the Secrutary．
IICDDERSFIELD INFIRMARY，－Junior ISouse．Sargen．Salary，fio per moanm，with board，etc．Applications by Jauuary ：7th，to the Honorary Secretary．
MACCLESFIELD GESFiRAL INEIRMARI；－Jnnior House－Surgeon．Salary， tion per annum，with board，etc．Appllations by January 21st，to the Chairmsa of the Housa Committe
S゙ATIONAL HOSPITAL，FOR DISEASES OF THE HEART AND PARA． LYSIS．－llonorary Annesthetist．Applications to the Secretary，3s，Soho Square，W．
RADCLIFFY：INETRMARY，Oxford．－Honso－Surgcon．Sylary，fso per annum． Applications by Janusry ISth to the Secretary．
ROYAL COLLEGE OF SURGROSS OF ENGLAND．－Assistant in the Patho Iogical Department of the Musoum．Applications by January elst，to the Secretary．
ROYAL HOSPITAL FOR DISEASES OF THE CIEST，City Road，E．C．－ Scuior Ilousb－Physician．Salary，eso per annnm，with board，etc．Applicn－ tions by Jenuary lth，to the Seoretary．
ROYAL NATIONAL HOSPITAL FOR CONSUMPTION，Ventnor．－Aasistant Resident Medical Otficer．Applications to the Secretary，34，Craven Slreet， W．C．
ROYAL SURRET COUS゙TY HOSPITA1，Guild Pord．－Honse－Surgeon．Salary， £so per anoum，with board，ctc．Applications by February 15th，to the Assistant Secretary．
STOURPORT FRIENDLI SOCIETIES MEDICAL ASSOCIATION：－Resident Bledical Othecr．Salary，itio per annnm，nud extras．Applications by January 2 lst，to A．Bouckley，Esq．，Areley Kings，Stourport．
SUSSEX COUNTY LUSATIC ASYLUM，Hajward＇s Heath．－Junior Assistant Medical Officer．Salary，Eli00 per annum，with hoard，lodging，and washing． Applications by January 14 th，to the Superintendent．
SCSSEX COUSTI LUSATIC ASILLUM，Hayward＇s Heath．－Medical Superin－ tendent．Salary，$\pm 600$ per annum，with furniahed house，etc．Applications by Janaary 20th，w J．H．Sclater，Esiq．，Chairman of the Committec of Visitars．
USIIVERSITY OF EDIN゙BURGH．－Examiner in Anatomy．Salary，e75 per snonm．Applications by Jantary 16th，to the Secretary．
USIIVERSITY OF EDINBURGE．－Examiner in Chemistry． znoom．Applicationa by Jsnusry 16th，to the Secretary．
UNIVERSITY OF EDISBURGII，－Examiner in Midwifery．Salary，ets per annam．Applications by January 16 th to the Secretary：
UNIPERSITY OF EDINBURGH．－Examiner iu Practice of Physic．Salary，むits per santun．Applications by January 16th to the Sceretary．

## MEDICAL APPOINTMENTS．

Andarson，Jemen，M．D．，F．R．C．E．，appointed Assistant Physician to the National IIosplal for the 「aralysed and Epleptic，vice J．A．Ormerod，M．D．，resigned．
Bastian，11．Charlton，31．D．，F．R．C．P．，F．K．S．，appolated Physician to the Nationsl Mospital for the Taralysed and Eplleptic．
Benvar，C．E．，M．D．，M．R．O．P．，appolated Physician to Out－patlanta，to the National Hosprital for the Pralyaed and Epileptic，vice K．O．Bastian，M．D．， F．R．C．P．，F．R．S．，reslgned．
Boxalle，Robert，M．D．，M．R．C．P．，M．R．C．S．，appolated Physiclan to the Sama－ ritan F＇ree Hospital for Women and Children，vice W．S．A．Grimth，M．B．， F．R．C．S．．resigned．
Bechas，W．A．M．R．Edin．，appointed Asqistant Physician to the Flymouth Public Disponsary，rice T．E．White，M．It．C．S．，resigned．
Glanville，St，31．R．C．S．Eng．，L．S．A，appoiated Housc－Surgenn and Secretary to the Dorsel County Ilospita！，Dorchester，rice F．J．Malden，M．B．， 3．B．C．S．，reslgued．
Lrwis，Lewis，L．R．C．P．Lnni．，M．R．C．S．Fag．，appointed one of the Vissting Bedica！Uificers of the South Lambeth，Stockwell，and Niorth Urixion Dis－ persary．
Mackerzie，Arthur C．，L．İ．C．F．ad S．F．，L．E．P．S．G．，appolated Honse－Sargeon to the General Ilospital，Birıalagham．
Mantland，T．，3．R．C．S．，L．IR．C．P．Lond．，appolated Medfesl Offleer and Public Vaccioator to the Wigan Union，rice ti．G．Tatham，M．D．
McMorray，J．，M．D．，B．Clı，appolntel Visiting Medical Omeer to the kirkdale Industrini schuols．
Ormenad，J．A．，M．D．，E．R．C．P．，sppolated Physician to Out－pratients，to the Nistional Iloghtal for the Paralysed and Epiloptic，vice Thomay Buzzard， 3．D．，restgned．
Phowsr，Whlliam IIyas，M．R．C．S．，L．S．A．，appointed Medical Oflleor of Health to the Acton Loca！Bnard，vice C．N1．Frralvall，reslgned．
Herserble，W．B．，M．13．，R．A．，appointed Ilonac－Surgeon to the Scarborough Ilos． pital and Disprasary，vice 11．O．1．Wbarry，M．R．C．S．Fng．，L．S．A．，resigned．
Tootr，Howarl，3．D．，M．R．C．Y．，appointed Assistant Physician to tho Arstooal Hospltal for the Paralysed and Eipileptic，vice C．E．Decvor，31．D．，resigaed．
Williams，F．M．，M．IR．C．S．，L．II．C．P．，zppointeil Medleal Offeer to the Tavistock Calon（Mitton Abbey Disirict）rice II．Swale，31．B．，31．R．C．S．，resigned．

Willitasa，W＂．B．，appointod Resident Medical Oftcer to the Royal National Los． pital for Consumplien，Ventnor，vice D．J．Mason，M．B．，C．M．，resigned．

Bequests and Donations．－Mrs．Mary Ellis，of Cadogan Place， has bequcathod $£ 100$ to the Chelsea Home for Men in Con－ sumptiou，and one－third of the＂residue＂of hor estate（which is likely to be of very large armount）to be divided in such proportions and in such mauner as her trustees shall，in their discretion， think proper，among certain charitable institations，including the Royal Free Hospital，St．George＇s Hospital，the Earlswood Asylum for Idiots，the Hospital for Consumption and Disesses of the Chest， the Cancer Hospital，the Chelsea，Brompton，and Belgrave Dispen－ sary，the Chelsea Hospital for Women，tho Victoria Hospital for Children，Qucen＇s Road，Cholsea，and the Royal Hospital for Incur－ ables．－The Children＇s Hospital，Birmingham，has receivod $£ 250$ under the will of Mr．William Slancy Lewis．－The Sheffield Public Hospital and Dispensary and the Sheflield General fufirmary have each received $£ 103$ 17s．Sd．，being legacy and interest under the will of Mrs．E．M．Beaumont，of Kenwood Park．－Mr．H．E．Wright has given 100 guioeas to the Chelsea Hospital for Women．－The Dake of Bedford has given £100 to University College Hospital．－＂J．T．T．＂ has given $£ 100$ to the Paddington Green Children＇s Hospital．

Pasteurism in Hayana．－The following statistics of the Labors－ torio Histo－bacteriologico（Pasteur Institute）in＇Harana，from April to December，1887，are published in the Revista de Ciencias Medicas： The total number of patients was 181，of whom 75 underwent the treatment．In 14 of these cases the animals which had inflicted the bites were proved to be snffering from rabies，by the result of inocu－ lations made on rabbits in the laboratory．Of the 106 persons who Were not treated， 61 are stated to have been bitten by＂suspected＂ animals．In these cases the animals had not been sent to the labo－ ratory，or had arrived there in a state of decomposition．No infor－ mation is rouchsafed as to the results in the cases trested，nor is it explained why so large a proportion was left untreated，in spite of the ＂suspicion＂sttaching to them．
Small－pox in Hayana．－The Revista de Ciencias Medicas for December 20th states that from the beginning of May to December 16th there were 1，436 deaths from small－pox in Harana．From an analysis made by Dr．Vicente de la Guardia of 298 fatal cases regis－ tered in the month of November，it appesre that 201 occurred among the white and 97 among the black fropulation．Of the whitee， 118 were males and 83 femsles； 67 of the former were under and 51 over ten years of age，the corresponding numbers in the females being 61 and 22．Of the negroes， 51 belonged to the male and 46 to the female sex；among the former 26 were under and 27 over ten，while among the females 27 were under and 12 over that age．Unfortunately，no particulars are gircn as to the proportion of vacciuated to unvacci－ pated persons in these lists．The epidemic is at present more widely prevalent than ever，but the mortality appears to be diminishing．An exhaustive official inquiry is about to be made as to the causes which bspe led to so severe an outbreak．

Clinical Society of London．－The following are the names of the officera and Council of the Clinical Society of Luondon， proposed for election for the year 1888，who will be balloted for at the meeting to be held this（Friday）erening．The gentle． men whose names are marked with an asterisk（＊）were not on the Council，or did not hold the same office during the preceding year． President：W．H．Brosdbent，M．D．Fice－Presidents：W．H．Dick－ inson，M．D．；Sir Dfee Duckworth，M．D．；J．Hughlings Jackson， M．D．，F．K．S．；＊J．Warrington IIsward；＊Sir William Mac Cormac； Howard Marsh．Treasurer：Christopher Heath．Council：F．G．D． Drewitt，M．D．；J．K．Fowler，M．D．；＂T．Colcott Fox，M．B．；W．B． Haddeu，M．D．；＂Stephen Mackenzie，M．D．；Angel Money，M．D．； ＂Isambard Owen，M．D．；F．C．Turner，M．D．；W．J．Tyson，M．D．； Samuel West，M．D．；W．Halo White，M．D．；W．M．Cripps ；H．T． Butlin ；Rickman J．Godlee，M．S．；C．H．Golding－Bird，M．B．；W．A． Mercdith，M．S．；＂C．W．Mansell Mouillin ；＊F．Shirley Murphy ； Walter Rirington，C．M．；${ }^{*}$ C．J．Symonds，M．S．Honorary Sccretaries －Thomas Barlow，M．D．；R．W．Parker．

Onontological Society of Great Britain．－The followidg members wero electod on January 9th es officers and councillors for the year 1889．President：Daniel Corbett，Dublin．Vice－Presidenls （resident）：S．J．Hutchinson ；J．H．Mummery ；W．F．Forsyth； （non－resident）Richard Fogers，Cheltenham；G．C．McAdam，Mcre－ ford ；J．Cornelins Whecler，Southsca．Trcaserer：Thomas Arnold Rogers．Librarian：Felix Weiss．Curalor：W．C．Storer Bennett． Editor of the Transactions：Erederick Canton．Honorary Secrelaries：

Willoughby Weiss (Council) ; C. J. Boyd Wallis (Society) ; E. G. Betts (Forcign). Councillors (resident): J. F. Corbett; J. Smith Turner Sir Elwin Saunders; John Fairbank ; David Hepbnra ; Ashley W. Barrett; Walter Coflin; Thomas Gacdes; R. H. Woodhouse ; (nonresident F. II. Balkwill, Plymouth; George Bronton, Leeds; F. Apperley, Stroud ; J. H. Redmen, Brighton; W. Bowman Macleod, Edinburgh ; R. Wentworth White, Norwich.
Leprosy.-Dr. N. Pringle (Lewisham), in announcing that he has received the promise of a donation of $£ 100$ as a commencement for "The Indian Jubilee Leper Fund," adds that he is so perfectly satisfied that scientific and of course sympatbetic voluntary segregation is not only possible, but perfectly feasible, that he will gladly commonicate his views to those interestod in that line of treatment.

A Singular Case of Glanders in Man. - According to the Syn Otchehestra (December 10th, 1887), a man has just died fiom glanders at one of the St. Petersburg hospitals. The deceased never kent, and never came in contact with, any horses in his life. Symptoms of glanders made their appesrance in him shortly after his face and eyes had been profusely bespattered with foam from a passing cab-horse, the patient being in the act of crossing the street at the time.

Seaside Convalescent Home for London Workmen. -This home, which was established at St. Margaret's Bay in 1883 by the agency of the Hospital Saturday Fund, received during the past year year 370 patients, as agsinst 302 of the previous year. Through the generosity of the late Lord Wolverton, the committee were enabled, in Angust last, to open a new wing, a portion of which is reserved for London postmen.
The Salford Town Council has resolved to purchase a site for the sum of $£ 7,000$ on which to erect a hospital for the treatment of infectious diseases. The Wilton Hospital has been hought hy the London and North. Western Rsilway Company for the sum of $£ 21,000$, and it is stated that the cost of erecting the hospital will probably be about £14,000.
The Missing Journalist.-The fate of Mr. McNeill, who disappeared so mysteriously at Boulogne on h1s may from Paris to London, has been explained by the finding of his body in the barbour, with wounds ou the head clearly pointing to murder.
Miss Oxley, of Guy's Hospital, and Miss Loch, of St. Bartholomew's Hospital, have been appointed by the Secretary of State for India to the charge of the purses which it is intended to introduce into the military hospitals in India.
A large new pump-room is to be built at Puxton. The iron water hitherto supplied from the well will in future also be supplied in this room.
Medical Magistrate.-Mr. George Artbur Phillips, M. R.C.S.Eng., has been placed on the Commissiou of the Peace for the Borough of Walsall.

## MEETINGS OF SOCIETIES DURING THE NEET WEEK.

## MONDAY.

Medical Society of London, S. 30 P.m.-Lettsomian Lectures, by Mr. Reginald Harrison. Lectnrs II: The Pathology of the Enlarged Prostate viowed in respect to its Causation snd Prevantion, and the Trest ment of some Complications arising out of it.

## TEESD. F .

Pathological Society of London, 8.30 p.m.-Dr. Normsn Moote: Csrcinoma of Gall Duct. Mr. W. K. Sibley: Abscess in Ling and Brain and Tumour of Pituitary in an Ewe. Mr. Symonds : Epitheliomatons Cyst in Neck. Mr. H. Fenwick: Etiology of Vesical Growths. Dr. Collier: A Recent Specimen of Charcot's Disesse of the Knee. joint. Professor Crookshank: Further Inquiries into the socalled Hendon Cow Disease and its Relation to Scarlatina in Misn. Mr. R. W. Parker: Speciuens of Bons Disease. Mr. Godlee: Specimens of Ricketty Bones.

## WEDNESDAY.

Royal Meteorological Society, \& f.m. - Annual General Dleeting. Peport of the Council. Election of Officers and Council. Mr. W. Ellis (President) will deliver an Address. i P.s., Ordinary Meeting. Mr. G. M. Whipple : The Non-Instrumental 3letcorology of England, Wales, snd Irelsud, 18:S-1885.

THETRSDAE.
Harveian Society of London, 3 p.m.-Address by the President (Mr. Edmund Owen). Conversazione.

## FRIDAX:

Bociety of Medioal Officers of Health, 7.30 r.31.-The Conncil will present reports on: 1. The Publication of the Society's Transactions. 2.

Proposal of the Manchester and Salford Sanitary Association for the Federation of sanitary snd kindred Societies. 3. The Disjosal of Books belongiog to the Society. Tha discassions will be continuer on Mr. Wynter Blyth's paper on the Contazion of Cancer, and on Mr. G. Bixchofs paper on Extension of Time of Culture in Dr. Koch's Bacteriological Wiater Test by Partial Sterilisation, with special reference to the Metropmitan Water Supply. Dr. Rawland: An Improved Methof of Dewer Venti. 1stion.
BIRTHS, MARRIAGES, AND DEATHS.
The charge for inserting annonramonts of Births, Marriapes, and Deahs is Ss. Cd., which should be forwarded in stamps vith the announcement.

B1PTH8.
Baprett.-At 13, Rillbank Terrace, Edinburgh, on the 9th lastant, the wife of Willism H. Barrett, M. B., of a son.
Morpay.--On January 7th, I6\&s, st Belmont, Queenstomn, County Cork, the wifo of E. H. S. Murphy, Esq., M.D., Surgeon, M.S., of a danghter.

DEATK.
Lyali.- At l, George Square, Edinburgh, on the 10 th instant, Andrew Lyall, M.D., late of Leven, aged 41.

## OPERATION DAYS AT THE LONDON HOSPITALS.

YONDAY - - -10.30 A.M. : Royel London Ophthsimic.- 1.30 p.m. : Gny's (Of thalmic Department); and Royal Westminater Ophthsimic. - 2 P.M. : Metropoliten Free; St. Bark's; Oentral London Ophthal. mic: Royal Orthopædic; snd Hospitsl for Women.-2.80 p.Y. Chelsea Hospital for Women.
TUESDAY - $-\mathbf{- 9}$ A.M. : St. Msry's (Ophthalmic Dipartment). -10.30 A.m. Royal London Ophthalmic. -1.30 P.M.: Guy'a ; St. Bartholomew'a (Ophthalmic Department); St. Sary'a; Roysl Wextmin. ater Ophthslmic.-2 p.M. : Westminster ; St. Mark's; Central London Ophthalmic.-2.30 r. M. : West London; Cancer Hospital Brompton. - 4 p.m. : St. Thomss's (Ophthalmic Department).
WeDNESDSP - 10 A.M. : Nstionsl Orthapredic. -10.30 4. 3. : Royal London Ophthsimic.-1 P.M. : Middleser.-1.30 p.m. : St Bartholo-
 London: University College; Westminster ; Geeat Šarthern Oentral ; Oentral London Ophthalmic.-2.30 p.M. : Samaritan Fres Hospitsl for Womon and Children; St. Petsr'a. -3 to p.m. : King's Collegs.

THURSDAY $-\mathbf{- 1 0 . 3 0 \text { A.m. : Roysl London Ophthalmic.-1 P. M.: St. Grorgeia }}$ -1 30 P. M. : St. Bartholomew's (Ophthalmic Depsrtmant); Gnys (Ophthsimic Department) ; Roysi Weatminster Ophthsl. mic.-2 p.M. : Charing Cross; London ; Oentral London Oph thalmic: Hospital for Disesses of the Throst; Hoapital fi: Women -2.30 F . North-weat London; Chelses Boapitsl far Women.
FRIDAF - - - . 0 A.m.: St. Mary' (Ophthalmic Department). 10.30 A. m. Roysl London Ophthalmic.-1.15 p.m. : St George's (Ophthslmic Depsrtment).-I.30 P.A. : Gny'a ; Royal Westminster Oph thalmic. 2 P. M.: King's College; 8t. Thomss's (Ophthalinio Depsrtment) ; Central London Uphthslmic ; Roysl South Lmadon Ophthalinic ; East Iondon Hospital for Ohildron.-2.30 p. צ. I West London.
SATURDAY - 9 a.m. : Royal Frse.- 10.30 a.m. : Royal London Ophthsimic1 f.m.: King'a Colleg9.-1.30 f.m.: St. Bartholomew's ; St. Thomss's; Roysl Westminster Ophthsimic.-2 P.M. : Chsring Cross; London; Middlessx ; Foysl Frea; Dentrsi London Oph-thslmic.-2.30 p.m. : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Ofarino Choss.-Madicsl sud Surgical, dally, 1; Obstetric, Tn. F., 1.30; Skin, M. Th., 1.80 ; Dentsi, M. W. F., 9.

Guy's.-Mredical and Surgicsl, daily, 1.30 ; Obatatrlc, M. Tz. F., 1.30 ; Eys, M. Tc. Th. F., 1.30; Ear, Tu. F., 12.30; Skiu, Tu., 12.30; Dental, To. Th. F., 12 Kino'g Colleor-Medicsl, dsily, 2; Surgicsi, dsily, 1.30 ; Obstetric, Tu. Th. S. 2; 0.p. M. W. F., 12.30; Eye, M. Th., 1 ; Ophtbalmic Depsrtment, W., 1 ; Esr Th., 2 ;' Skin, Th. ; Throst, Th., 3; Dental, Tu. F., 10.
London.-Medical, daily, exc. S., 2 ; Surgical, daily, 1.30 snd 2 ; Obstetric, M. Th. L.30; o.p.W.S., 1.30 ; Eye, W. S., 9 ; Esr, S., 9.30 ; Skin, Th., 9 ; Dental, Tu., 9 . Minnlegex. - Medical sud Surgical, daily, 1; Obstetric, Tc. F., 1.30; 0.p. W. S., Mnnlegex. -Mredical snd surgicsl, Throst, Tn., 9 : SkIn, Tu., 4 ; Dentsi, daily, 9. 3t. Bartholomews.- Medical and Surgical, dally, 1.30 ; Obstetric, Tu, Th. S., 21 T. Bartholomew s.- Madics1 snd ${ }_{2}^{0 . \text { P., W. }}{ }_{2} .{ }^{2}{ }^{9}$; Orthopedic, M., 2.80 ; Dental, Tu. F., 9 .
 Th. 2 ; Eys, W. S., 2 ; Esr, Tu., 2 ; Skin, W., 2 ; Throst, Th., 2 : Orthopedic, W., 2 ; Dental, Tu. S., 9 ; Th., 1.
St. Marr's.-Medical and Anrgical, dsily, 1.45 ; Obstetric, Tn. F., 1.45 ; o.p., M. Th., 1.30 : Eyg, Tu. F. S., 9 ; Ear, M. Th., 3 ; Throst. Tu. F., I. 30 : Skin. M. Th. 1 9.00 ; Elactrician. Tu. F., 2 ; Dents1, W. S., 9.30 ; Consultations, 3., n.30; Operations, Tu., $1.30 ;$ Ophthalmic Operations, $F$., 9 .
Srathonas's.-Medicsl and Surgical, daily, ercept Sst., 2; Obstetric, M. Th., ${ }^{8}$; o. p., W., 1.30; Eyg, M. Th., 2 ; o.p., daily, sxcep: Sat., 1.30 ; Esr, M., 12.30 Skin, W., 12.30; Throst, Tu. F., 1.30 ; Ohildren, S., 12.30 ; Dentsi, Tu. M. Tr. Th.
 Th. 2.30 ; Dentsi, W., 10.30 .
Wearmanatsr.-Medical and Surgical, dally, 1.80 ; Obstetric, Tu. F., 8 ; Eye, M. Th., 2.80 ; Ear, M.. 9 ; 8kin, Th., 1; Dental, W.S. 9.15.

# LETTERS，NOTES，AND ANSWERS TO CORRESPONDENTS． 

Oommanioations respecting editorisl metters should be addressed to the Editor， 4．9，Serand，W．O．，Londoo；thoso canceraling basinase matters，moa－delivery of the Joerrat，ote．
ly order to avold delay，io in particalarly regnested that ell letter an the editorlal businens of the Joursal bo addreesed to the Editor at the oftce of the Journal， and not to his private house．
Acteors desinag reprints of their articles pabisbed in the Britisa Madioal Jodrat，are requented to commanicato boforoband with tha Maneger，429， 8trand，W．O．
Corarypordesty whs wisa notice to be taken of their commonicatlons，shonid sachenticate them with their uemos－of course not nacessarily for pablication． Connmpondersis not anewered wre requested to look to the Noticeato Oorre． apondeate of the followiag werk．
Mantscripts yoswarded to tee Ofrice of tims Joornal cannot under any ciacematances me returned．
Penlic Hralta Defartaent．－We shell be much obllged to Medical Offcera of Health if thog will，on forwardiag their Annual and other Reports，favour va with Dupilcals Cories．

## ets To Correapondents．たた

Oca correspondents ara reminded that prolixity is a great bar to pallicatton， anl，with tho constant pressare npon every dapartmeat of the Jocrnal，brevity of atylo and conclseness of statemant greatly facilitata early insertion．We wo compelled to return and bold over a grest number of commanicatious，chielly by resson of their anaecessary length．

## CEERIES．

S．K．asks how a large croop tent can be rigged np？
3．S．C．wishes to hear of a good Roman Catholic boarding achool in England， where two brothers，agad is and 15 years respectively，would betaken for about £ 10 per anauxa

Climate for Phthisis
M．S．saks to ho informed as to the presumptive relative value of Texas and Finrida for a case of phthisis with early azemantysis，and the parts generally visited？Are the States equal to Naw Zealand？

Batas gor Country Houser．
Baicy，asks members to give their experience of tha differcat haths advertised． He is in ecarch of a full－gized bath to be leested with oillamp beneath；he lives in a house where no water can be laid on．

L゙sDescenden Traticlea．
Ferchitas writes：A family medical attendant diseovers incilentally in the conarac of examining boy，$s$ or 10 years old，that the testes are undescended． 1．Is it his duty，twenty yesra afterwards，whea the zuan may be coutemplatide marriace，to sugsest an examoioation of the scrutum，in case msters should still leas before，and the patient unaware of any defect；and 2 ，snpposing the scrotum ntill crapty，would it he wrong for the man to marry in view of steri－ lity，both dixappointiag and perhaps proviag injarious to the licalth of the wife？

## AN心WEIt．

＂Alpma＂should apply to Dr．Corfield，Hygienic Laboratory，Uaiversity College， Gower Street，Jondon，W．C．；or Dr．W．Blyth，offices of the medical ollleer of health，St Marylebane Vestrj，Marylebone Ianc，W．

A Youso Apothecary probably refers to raricocelo，a condition which he will noul fully discussed in sll the texthooks of surgery．

## E：сгвма．

W．J．C，－The causes of echema vary so much in different persons，that the treat． ment and preveation must be decided In esch case secordiag to the special characters．The chmpter on Eczema，in Dr．Mccan Andersons rccenty pannater Work on Disenses of the Skir，is unasually f．
＂Wister Climate of Florince and Oenon．＂
Dr，At．Clair Tnomyus（Florence）writea：Horcnce has，emplicsilly，a repata tion as a cltrate for cases of aythma，and experience tends to confirm thils． I know ei several asthmatles who have fonad ont for themselves the sultability of thls elimato；amongat them being sime who have been told by Loedon physiclens that they would become confrmest bronchlsl－asthmatics nnless they lived in Algiarm，or even firther afteld．The collt is very wharp in the shore witer：sill at all times the difference between ath and shade iempera－ thre is enamilerable．Consequently，it la not suited to most phehistcal Invalidy uatil the sjuiag．Tho dryness of the climate sunte people of s gonty diaposition． Alchough there are secreral villagea near to Florence which would suit＂11．A L．＇y＂patient，nonc of thein aford sutnciently comfortalie acemmmotation．
I can maly speak personally of Cipnos from monge short visits in the winter． l Conuil it as cold as Florence，hleaker，nud with much less nun．I fon＇t know that it has any rephtaifin an a climate for nathma；and mont certanly＂I1．A． L．＇s＂patime woald not ind therv the convealences for stodying art，which aro ensily olitained at Ilorencu．
Mrs．Lasbept（Tavistock Placo，Sunderland）writes：In Tcply to the quiry of ＂H．A．L．，＂in the Jouriar of December 3lat，I heg to lororm him that a friend of mine，a yongs lady of 25 （who ie this country suffered terribly from asthma and bronchltis，ont was nesrly coostantly contined to her room）bas foupd a
residence in Leghora most henencial；Indeed，while there or any place rons shout she is perfinctly well．I shall he pleased to forwaril her widress if meoes． sary．She will， 1 am sure，bo glad lo give any information．

## NOTEA，LETTEAEA，ETC＇，

lianatun．
Is the Jounsst．of December 3lat，p．1t20，owing hat an accldental transposition， it was erponeonsly stated that lir．Arehibald Macdomald had mado soma re－ marks on the treatnent of tubal fretation by gslvanopunctats ；his paper dealt with tha provention of puerporal avplicicum．

## Rriciprocity，

Mr．Tnomas A．White（LiAhri，Territef，laud）wites： 1 remark in the Jorrnat． of December 24th a paragraph reloting to the registration of foreign diplomas， lo which a lady M．D．of Zurich wishes for registration in England．I would wish to inform you of what has just happened to me here．I have bern in practice at Montreux for the past niacteen years，without Eederal diploms， lint nanifestly with the connivance of the cantonsl authoritics，and，since Jantury lst，ISS3，have ha！the sanction of the municlpal suthotities．
1 say with tho conaivance of the cantonal anthorities．Some yesrs ago 1 attended，at one of the mountain summer resorts，a casc of fracture， and nue of the medical men thare had mes summoned for practising the case was reforred to Lausnnne，and they ordered the proceedings to cease ； anl at \＆Jedical Conforance held suma tine sgo st Lamsaone，a ojedical man who has not been here so very long was making such a violent tirade againat we that the President ordered hima to desist．This same medical mnn，Joined by the netwest nrrival（whom I nelthe！know ot have met），las rasde a pollic complaint sgainst me as prsctising medicine here，and the esutonal authoritien had to take the atatter up，and，ordered the Prefect at levey to inflict the highest the they can upon me，nemely， 300 frances，hut he，under the peculiar circum－ stances of the case，has reduced the sum to 200 fraucs．I smat iresent，through my ayocot，appealing to the cantonal authorities against this decision．The matter is under doe consideration here，wut whether the Federal authorities will reject or accede to our Medical Act add cstablish reciprocity 1 am not suf－ ficiently sdrised to jaform you．
I give you this letter，as the reciprocity question is before both Governments， and not as a complsint ；for if 1 live in a comntry and break its laws（though under most peculiar circumstances）， 1 must be jurlged hy its laws．You will see from the forecoing how importanot it is to members of our professinn who are liviug abroad for variens reasons that reciprocity shonld be established， and thst wo should not be subjecterl to the effects of the ill feeling of $8 n$ Individual，evea If，as I am，geperously treated by the medical men of this phace．

## Porgoxing by Nitre：Treatment with Abomorphine，

Da．II．W．Peand（Coole Abbey，Fermoy，1reland），writes：A farmer＇s wife，aped 60 ，took a very large dnse of uitre，mistaking it for sniphate of magoesia，This was taken on an empty stomach．When 1 got to the houge 1 found that she had swallewed some bread and milk，she bad also swallowed some warm water， wut conld not excite vomiting．Her pulse was about 38 ；she appearell very snllow and pale．and complained of some eplgastric pain，bat her；chief eom plsint was of cold．＂Oh，the colll，the terrible cold is killiag me！＂Ifer hands and feet，however，did not feel culd to the tonch，and she had a considerahle covering of blankets．I st once dissolred one of Messrs．Burronghs and Well． cone＇s bypodermic tablaids of 1－10th krain apnumorphine，and infected the same intuherarm，In threemioutes and a lalf emesis tonk place withoul ajparent efrort on the patient＇s part，aud over a pint of the contents of the stomach nos vamiced． I then got her to swsllow sheut bslf a pint of warm milk，which sgain was ejected，After this there was a little retching．or rather I might esll it a fow involuntary contractions of the stomach，and then the setion of the drug seemed cuded；there was little prostration，though there was some purging witl！bloon？in the stools，but no blood，as well as I could ascertsin，in the urime．An opistc in fome bracdy and water，and a little good chicken broth had made her all right by next lay，and she went about har houscheld work as asual．When I was leaving her，about two hours and s hslf after her takiog the nitre，the pulse was abont 60 ， and colour had reapeared to face and hisnds．She hal taken alout 亏̄li of and colour hard reappeared in face surne water，sind drank it in sDspension，hefore nitre，bs wing stirred it in somelved．I anly applied a very rough test to the vomited matter， it was half dissolved．I only applied a very rough test to Whe romited matter， merely dippipg a bit of cotton－wool in it ansl dried it．Whan this was he，in
burued in the characteristic way shoh sulustances do whea impronated with a stroag solutlon of the salt．Thia case seoms to me to spesk well for a ponorphine． dennieally injected if，with marked fuccess，un a former oocasion，where a chitl had swallowed some spirits of turpentine and on two oceasions when I ihought my dogs had taken poison．

## Palpation of thf Thoras．

Dr，Frppermek A．Floygh，M．B．Camb，writes：A method of diagnosis has recently cone under ray olservation which I beliese has not hitierto recolvdit the attention it deserves，The ranc or tactre smastinn in the examination of the abiomon is alrauly well known，bit that it is porsible to diagaoso by the lingers varions conditions of the hung in disease，has not， 80 far ss i am sware，
liecen dwelt npon．That this is posifible，eccording to scientalc laws，is easily been dwelt npon． dennonstrable．
In auscultation the impresslons received are those produced by the vibrations originsted in the movemonts of the air along the air－passages，or of the laog， retc．；thess movements and intpresslona Leing altered according to morhid in－ shenecs．Grest differences in the wave－length of vilrations are capable of luing appreclated hy any sensitivo conductor．The tingers，leing extremely gensitive，ean readily apprectate ribrations over a larce gamut，snd the rari－
 anditory nerre，except that in the nur esse the expression is tone，and in the other ractile spmastion．The high degree of jerfection to which this method can le brogght has ween denonstrated to ine ly a fractitions whose hingers， by long experimee，are far more sennitive than hivanditory herves．lis interv protation of various intas－thoracic combitions is quite gual to that arrived at by anseultation．Moreover，his deseription of what hef fepls is precistly the by anseuldinon．Motreover man with the stuthescone．Ur．W．11．stone，of st． Thotosa＇llospital，in writing to rae nil the subject，says，＂thla method is especially gond for slow vibrations，less thst 10 fes seeend，which to the ear are diffictilt．

Gemeral Blefinge in Local Inflamatohy Swellinges. Mr. G. P. Arkivson (Pentefraet), writes: On April 20th, 1856 , I wascalled in consultation to a condeemeat case, where I found an arm presentation with the fotal hand protruding beyond the vulva, apd tha vagioa so awollen as to maka turnipg aa Impossibility. I bled the patient to $\overline{3} x$ x, and gave a soothiog draught, and we
left her quletly for fifteen migutea; on ra-exsmination, I found all swelling had subsided; turning was readily affected, and delivery completed within ten minutes; and ahe raade a good recovery. Wonld not bleediag be likely. to be followed by similar eflects in casee of physical obstruction, with an indammatory constitution of surroundiog walls of other natural passages; for example the larynx or trachea containiog oue or more cumours in sach diflienlt cases as that of the Crown Prince of Germany, and would not its effeets be likely to prove more thorough aad durable ; aad attended with little risk to the patient compared with a serious operation? I make these remarks with all due respect to others for professional consideration.

## 'A Docton's Present.

E. B. writes: I excised the shoulder-joint of a little sailor boy, at the hospital I havo the honour of belonging to; all went well, and agod from under hi One day I told the little nian he might go hame; he pulled out from under his pillow, a spherical box, elaborately ornamented, and as he told me contaiaing didn't open thia before the students, but took it bome for the surprise of my ittle ones ; when, lo, behold, the two rubies were thera; and I had them set in ittle ones, whor a young puss, who thinks the posseasion of a riug will put her a gipsy ring for a young puss, who thinks the posseasion of a

## Anti-Tansige Infuser,

AMeminer writes: Like your correspendedt of Jaouary ith, 1 was much taken With the idea of an anti-tannic iafuser; I tharefore mads some tea with one,
followiog strictly the directions. The infusion looked like the ordiaary beverage, except that it was weaker; but, on adding a few drops of weak perchloride of iron solution, it unfortunately turned to ink.

## Squint.

Mr. Robefr W. Doyne (Oxford) writes: Dr. Bell Taylor's reply surprises me nore than his first letter. The direct deduction from taken with his previous letter, is that no hypermetrope, unless he squints, ever has vision of normal acuteness, that is, observation. The very existence of what is known as relative accommodation disposes of the argunent. With referance to the next point, I do not believe that anyone, except for a few noments, can use his maximun of accommodation, and the proof that he gives to the contrary is certainly startling, for he insinuates that, whenever a extent oi his maximum of accommodation.
He next proceeds to contradict his first statement, by demonstrating a hypometrope who does not correct his hypermetropia for parallel rays without squinting and only squints, as certainly is often the case at first, when looking modation that is given by the normal convergence for near ahjects.
mis next statement gues further than his first, and he implies that all hypermetropie childrens squint whose hypermetropia does not exceed 12 D or $1+\mathrm{n}$. For having clamed that they can by convergence make in effect says that of aecommorlation (and this in children is 12 D or 14 D ), he in enect says that only thoso do not sijuint whose hypermetropia is हreater than this. 1 nagy ineidentally mention the very extreme rarity of such a degree of hypermetropis. In his remarks on diplopia, he appears to maintain that it does always exist at brst, notwithstauding that most observers (I would have said all) agree that it is the exception to liud it in coacomitant squint, and that nsually it dis only by forced upon the miad. In conneetion with this point his assertions are completely ningalified, and, if true, would prove that in all cases withont diplopis pletely nugnalifed, and, if true, would promes a moncular affection, and gets well without treatment so far as parallelism of the visnal ares is concerned.
As regards the cure hy glasses, I believe that, if this mode of treatment is adopted at the very ontset of the squint, nearly all cases of alternating periodie,
most cases of periodic, and a few cases of recent permaneat squint will get well most cases of periodic, and a few cases of recent pernaneat squint tomy will be very greatly reduced. Ne doubt a few get well without any treat ment at all.' He concludes this subject by drawing attention to the well-known fact that the use of atropine will revesi thase cases of hymermatropis that simulate my opia,
ophthalmoscope.

## Tenariffe and its Satellites

Mrg. Olivia M. Stone (Kensiagton), author of Teneriffeand its six. Solellites, writes: Now that the Canary Islands are rapidly becouing better knowu as one of the nost advantageons kealth-resorts within easyreach of England, it may he of some interest to mention a fet facts concerning diseases in the arehipelago.
The one pre-cminent fret is that the climate seems to modify the virulence of the worst, the most dangerous diseases. Puerperal fever, whe though rather prevalent, is seldom, I may almost say never, fatal, though I kion of cases where the palient has been neglected for several days before ucdical alvice was obtained. Diphtheria ia nlsc very prevalent in the large towns, owing to the total absence of the most urdinary sanitary precautions, but it seems always to frequently, bnt thils terrible disease seems to be only fatal where the minst elefrequently, bnt this terrible disease seams to Fovers of all kinds are lighter in mentary knowledge of nursing ta absent. Fovers of ail kinas are the treatment recommended there by the profsion is diferent to character. The treatment recommencled there by the in vogue in Eugiand. For example, it starts by arough clearing out of that in vogue in Eugland. For example, it starts by a thorough
Equable as is the climate by day and night, the natives suffer most from chills, whiol often end fatally. This, 1 thiuk, may be in a great measure accounted for by the absence of woollen or silkell clnthing. Thuse who visit the Cauaries from colder northern latitudes where wool is worn next the skin, and who must wisely coutinue this habit, do not sutfer iu this way. It is advisable that every article of elothing worn in the islands be either made of wonl or ailk. Thus armed one is almost impreguable to the attacks of any diseaso of a catarrhal nature. Malaria does not axist. Precautions as to hours of recrea-
and one may be ont on the hottest day at its hottest hour withont any fear of sunstroke.
The only diseass which in aes way can be sald to be peculiar to or prevaleat in the Canary lslands is elephantiasis, Which, as your readers well know, does not affect well-nonrished inhabitants, and is neither contagions or infons. In Gran Canaria dlseages of the stomach and intestines are common among the peasants ; such are elearly tr
Por phthisis tha Canary Islands bare beeo proved of inestimable ralae, and therefore on this point nothing more need be said. The temperatare throughout the year by day and hy night varies exceedingly little. In fyy receatly putlished work on these islands I have gone so fully into this qquestion that I need not recanitnate it here.
I should not have thus ventured to trouble you had I not been acked by some leading members of the medical profcssion to summarise facts scattered fritahh for pages of my book,

Metropolitan Provident Medical Aspociation.
A. S. R. W. Writes: Mr. Timothy Holmes's remarks on my letter of December ¿ith prove cooclusively the offensive natore of this scheme. He says: The dispeasary and the general practitioner are the same, or are inc movement." Has he considered that if every medical msn in a working-class district was to joit the newly-eatablished branch every family in the same district would join for the sake of getting their medical atteudaut for 2 s . 6i. a week; also has he calculated that the medical man wonld have to visit thiry patisens. per week?
 general practitioners to attend the meeting? I for one received co in
and I could aama several more who have never even heard of existence of these There will be three courses open to us: 1. To ignore the and aftend as a slave onr hitherto private patients ; 3. To still remain independent and anderaell the dispeosaries, which would require axtensive advertising. I sm sure all wil dispee it will be better to accept 2s. per week and remain our own masters, than to take this beggarly 2 s . 6d. and be at the beek and call of the capricious chub patient.

This is what I mean by a packed meetine: "An assembly of a few men who it is known will give their at a certain time and place." Mr. Holmes mns that a meetiog will be held at a certain time snd place. . Nr. Hemercularly Dr admit that those.gentlemen who were in favour of tha scheme, particularly Glover aod himself, were awarded a patient hearing, whilst those gentiemen derlding jeers.
Mr. Albert Kisck (Abingdon Hoase, Sutherland Avenue) writes: In reply to a writerintio and Assooistion, and pith it Mr. Holmes suggests that all general practitioners conl ing to conpeto with it, Mr. Holmes suggests thatiation. For the benefit of an cerned should cooperate in the work of the Association. For the some data lusitaving gentlemen, permit me to place hefore your readers sona data Whicone if he were to accept Mr Holmes's cordial iuvitation.

In my interview with Mr. W. G. Bunn, the secretary, whose conrtesy and frankness L gladly acknowledge, that gentleman informed me that a dispensary of the Association comprishgergetic man, in a workiggelass distriet, miyht doctor ESO per aanum. an energe dispensaries, earn the magnificent income of £260 13s. Ad., by accepting the entire medical charge of 3,000 persons, or, in otber words, that sum represents what he might expect if he cast in his sut with the Association, by joining the branch dispensary of bis aistrict, which wauld naturally absorb all his clientele.
Has Mr. Holmes any ides of the amount of work involved in the medical charge of 8,000 persons? A personal experience on a sumaller scale enames me ta many as 150 visits on a day. The remuneration swarded ia so ludicronsly insuffimany as 150 visits on a day. Therem. If Mr. Holmes would bat try the work ciebt, that commeat is superd certainly appreciate the inagnitnde of the monury hitnself for ona year, ho would with tha best intentions, intlictiug on the whieh he nnd his colleagues are, with the besting this pseudo-philanthronic achenie upon thens.
Mr. Jorn H. Gray (St. James's Road, C"pper Tootiog) writes : As I was one of those prestee on Deeme canyeued by the Nedca will allow ma to cenfirm most mittee, on mphar in the Jourse of January ith. By those vers accurate statements, Mr. phear the Jor "the responsibility for the irregnlarity which occurred may be oll the proper shoulders," has been fulfilled. I think 1 am able to speak as an impartial observer, for although sympathising generally with the object of the promoters; I considered that there was need for furthe scussion of the sehame, and lor amendrient of soute of its provisions, and therefere I was oue nf the very small minority who voted for an adjourmaent of the meeting. But, if time is to be wasted (as it undoubtediy was wasted the other dag) by what Mr. Bire justly ternu " puerile all irrelevant remarks never be anything like Thir and reasonable discussion. If "Dla. Holmes and others of the committee" fair and reasonable discussion, shemo fur their own suecial ungrandisement at lad been guilty of hatchinga schemo fur their own specialyngrandiset with a the expense of the geveral $1^{\text {rra }}$
une discourteous oyposition.
What your correspondent, "A.S. R. W.," could mean by saying that it $\$ 33$ "a packed meeting," I an at a loss to imagine, spaing that it wasted ; but so comparatively suall was the attendance, that il anyone lad. canse to complaiu of want of support, it mast have heen those who are anstions to secire the active interest of the general body of metropolitan practitioners in this refnrnlation novament
Mr, F. E. Cociscle, Jum. (09, Forest Road, Dalston) writes: Like four correspondent. "J.H." I have expected a more geveral outcry egainst the scheme of unirersai
establishment of provident dispensaries. I am inclined therafore to hopa that tha bulk of gencral practitioners ara suficiently prosperous not to fear the rwalry of, or aeed consection with, the Association. The schene is undonbted. ly must milvantageous to tho suliscribers, and pussilily (but very doubtfully) may relieve solvewhat tho congested state of the oat-patiant departments ; but 1 camot, for the life of me, nederstand how the nedical members of tha com inittec can attempt seriously to nrgua that such a schema caan tend to raisa the self-respect of tha general practitioner, or becomo in any way pecuniarily beneficial to him. Moreover, I do not believe it can be satisfactorily shown that it will lessen the number of aham dispensaries. Ous of your correspondents atates that nipe out of every tea dabts frons thia class of patients appearing on the ledger are bad debts. If ho can prove his assertion, 1 truly commisserate the practitioner, who is so unhasidesslike, and advise him forthwith to join this Association. Allowing, howavar, a large margin for bad debts, I cannot realisa how the payments made by the Association cao compare in any way with thosa received trom purely privato practice. To reducs this latter statemant to some degree of certainty, I have compared the paymants mada to ma during tha last trrelve months by one hundred patients who would be eligible for membership of the Assaciation, and find tha actual receints bear most satisfactory comparison with the amount I should hava received from a corresponding number of Assaciation subscribers. I hopa other general practitioners will institute a similar comprisison, and, looking befors they leap, will hesitate long befora they sect to join the madical staff of tha Metropolitaia Provideat Medical Association.

## Rapin Staining of the Conjenctiva by Nitrate of Silver.

F.R.C.S, writes : In the case reported in tha Jounval, vol. ii, 18S7, p. 1320 , under the heading of Therspentic Memoranda, there is nothing is the meagre details to show that the conjuncliva was not stained prior to a onc-grain solution being prescribed as an eyedrop. Tha report merely states that the patient was aftected with chronic ophthalmia, a term that may ennbrace a rather wide pathology. The nuthor gives no particulars as to whether the conjnnctiva was :bickened, villons, granuIar, or cicatricisi; nor any information relating to the state of the excretory trar canals, a point of aoms importanca in datermining tha probability of rapid staining from the use of silver eyedrops. I have little doubt that tha discoloration under discussion existed at the time the man came under treatiment, and was not discovered until his second visit, when a more careful axamination of tha case, inclading eversion of the lids, revaled tha alterad colonr of the conjanctiva. The reporter naively remarks that at the end of three months the stainiog was unaltered. How conld it ba otherwise?

The Contagiotsness of Leprosy.
Obsenfen writes: In a leading article, dated December 15th, on the spread of leprosy, yon remark that in countries whera leprosy is common its contagionsnrss is smpetimes not recogaised or is denied. Whila it would be interesting to leard the whereabonts of these countries, I would point out that such is not the case in regard to Burmah, where, as far ss my experience extends, the view taken by medical officers is, that the malady is, undar certain conditions, certainly communicable from person to person. In all the gaols, hospitala and asyiums, lepers are segregated. Among the criminal classes lepers are common, and a special gan has been provided for their accommodation at a place called Myanoung, on the right bank of tha lrrawaddy.
So deeply-rooted in the minds of the peopla is the belief that leprosy is contacious, and with such aversion is the disease regarded, that thosa afficted ara often cast out from house and home, and left to live, or die, in tha public thoroughfares. And pational prejodices are sometimes founded on truths which hava beon investigated without being proved. To anyone who has been in Bormah, the spectacle of lepers beggiag by the roadsides, at pagoda gateway $s_{1}$ and other public places, creates a painfui impression that cannot easily be forgotten.
Surue time back a Burman, abont 25 sears old, applied to ma in consequence nf twn smali patches of tubercular laprosy, first noticed a year or so previously, one sitnated on the ball of the left thumb, 8 nd the other not far from it, on the anterior and onter aspect of the forearm. Thera was not a traca of the disease to he found on any other part of this man's body. He bad been living for the three preceding yeara in marital relations with a woman who, when ha marricd her, was the subject of incipient bnt unrecognised laprosy, and from inquiries made at the time, the conclusion that the diaease was commnnicated by tha wife, was irresistible.
Since it has been demonstrated that a very definite bacillns, cultivable on Hood sernm, is constantly present in leprosy, scepticism as to tha contagiousness of tha malady will in due coursa doubtless disappear. I would not troubla you with these remarks wera it not that 1 think they may convey naws to some of your readers, for a distinguished medical officer speaking, mot many years ago, in tha course of a debate following a paper by Mr. Hutchinson, on tha subject of leprosy read before ona of tha medical societies, is reported to have said that among the Burmesa, who were larga consumers of fish, both in tha fresh and putrid atata, leprosy was practically unknown, or elsa non-axistent; I forget what the exact words used were.

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## BOOKS, ETC., RECEIVED.

Translations of Foreign Biological Memoirs. Edited by J. Rurdon Sandarsou, M.D., F.R.S.L. and E. Oxford : at the Clarendon Press. 1887.

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The Children; How to Study Them. By Francis Warner, M.D., F.R.C.P., F.B.C.S. Lendon: Francis Hodgson. 18s7.
The Pathology of Intra-uterine Death. By William O. Priestiey, M.D., F.B.C.P., LL.D. Landon : J. and A. Churchill.
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Memory; What it is, and How to Improve it. By David Kay, F.R.G.S. London : Kegan Paui, Tranch, and Co.
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The Nervons System and the Mind. By Charles Mercier, M.B. London: Macmillan and Co. 1885.

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By JONATHAN HUTCHINSON, F.R.C.S., F.R.S., LL.D., Emeritus Professor of Surgery at the London Hospltal.

Lecture III.-On the Various Forms of Lupus Vulgaris and Erythematosus. - [With Lithograph.]
Difficultics of Classificalion. - The Bacillus in Lupus Necrogenicus. -Acne-Lupus (Lupus Follicularis Disseminalus of Tilbury Fox). A Mixed Form of Chilblain-Lupus.-Iupus-Psoriasis (Dr. 'Stephen Mackenzic's Case). -Lupus in Relation to Port Wine Stains. -Lupus Lymphaticus.-Rupia-Lupus of Young Children.-Narus-Lupus.-Alliances of Rhino-Scleroma and Sycosis"with, Lupus.Kaposi's Diseasc.-Hebra's Xcroderma, a Family Form of Lupus. -On the Varicties of Lupus Erythematosus.-On Lupus.Canccr.On Syphilitic Imitations of Lupus,-Concluding Remarks.
Tue classification of diseases is easy if we permit ourselves to keep aside unusual and ill-marked forms. If, however, we endeavour to comprise all, it hecomes sufficiently difficult, and to lookers-on it may sppear thst needless complexity and useless detail are introduced. There is, however, a great and obvious gain in the conscientious admission of all witnesses, for very frequently we find unexpected testimony borne which proves of great value to the discovery of truth. The rare and the minor forms of disease are precisaly the connecting links between the larger groups, and they enable us to see their continuity and to trace their relationships.

In our lest lecture I had to bring before you the subjecte of strumslupus, eczems-lupus, lupus matilans, necrogenic lupas, and some others. Most of these are rare, but still very real, sub-species of tha disesse, and I shall be obliged, on the present occasion, to trouble you with the description of others some of them of even greater rarity in practice, but sll of equal importance, to complete the picture of the group of diseases which we are investigating.

Before proceeding to frash topics, 1 wish to supplement by a few worda what I said last week as to lupus necrogenicus. I omitted to mextion that observers have found the tubercle bacillus in great abundance in the granulation growth which attends this malsdy. I make this statement chiefly on the authority of Riehl and Paltsuf, who found the bacillus more easily in it than in sections of common lupus. This is interesting becsuse, in the first place, this is the only form of lupus in which contagion seems at all probable. The others, it is true, often begin from local irritation, hut it is usually of a kind not in the least likely to convey infective material (chilblains, insect stings, and the like). We know nothing of lupus as a disease capable of spreading by contagion from one person to snother. In the necrogenic form, beginning as it does from dissection pricks, it is easy to suppose the transference of bacilli possible. It is remarkable, howerer, if that be so, that it is precizely the form of lupus which shows the lesst tendency to spread. It rarely prodnces satellites, and I never in a single instance knew it followed by patches on other parts of the body, nor by saything indicating viscersl tuberculosis. In our last lecture I ingtanced a case in which it had been present for forty years without doing any harm. On the other hand, lupus erythematosus, in which, so far as I know, the bacillus has not been found, is very infective, and is very frequently associated with a tuberculous family history:

I give the name acnc-lupus to a disease which wss, I believe, first described by the late Dr. Tilbury Fox under that of lunus follicularis disseminatus. ${ }^{1}$ I am sorry to propose a change from that used by a dermatologist so distinguished, but I believe that mine expresses more with greater brevity, and will be more easily remembered. It is obvious that they imply the same thing. The disease is a combination of acne with lupus, or rather, perhsps, it is lupus attacking acne spots. I have seen but very few good examples of it, but it is a very definite variety of the disease. In the case of a young mad gamed S ., whose sister's case I have already detailed to you, both cheeks showed acne spots. On the left cheek, however, many of the spots had enlarged, and were ohviously of the apple-jelly structure. There could be not the slightest doubt that they were lupus, and equally little that they were

[^11]arranged like acne, and occurred in connection with aebaceous fol licles. This young man had also lupus of his alae дasi and of his palate. As already recorded, two of his sisters had somewhat similar affections, and the family was decidedly strumous. Acne-lnpus is a form of common lupas, and not of the erythematous division. It is, ou far as I have seen, never symmetrical, and the apple.jelly is very characteristic. It is of interest to note that it never attacks acne spote on the back, bnt occurs, I believe, on the face only, illustrating What we bsve had so frequently to ask attention to, the inflaence of cold and expesare as canses of lapus. I show you portraits taken from another casc, but in it the conditions were not 80 definite as in the lard S .

The group of cases which I have next to describe is one to which I find it extremely difficult to give any concise name which shall, st the same time, be sppropriato and descriptive. It is lichen, acne proriasis, eczema, chilblains, and lupus altogether. Yet it is a def nite disesse, and one case is like another. It begins in early child hood, and it sffects the parts which sre exposed. Thas I have nn doubt that it has affinities with Kanosi's disesse, but I have not as yet seen it in more than one member of a family. If it happened in soveral brothers and sisters, it would be st once accepted as a modifi. cstion of Kaposi's dicease. In my own notebooks, in default of any name, I have been in the habit of classing its cases as belongiog t "the Philip Holmes series." Now "Philip Holmes" was the youth whose condition is depicted in the portraits which I now show. His wha not the first case that I had seen, but it is one of the best, and it is the only one of which I have preserved an illustration. Holmes' grandfather had been the subject of psoriasis. Tho boy in infancy had a rash which was called red-gum, sud which never quite left him. I saw him first in 1874, when hewas 11 years old, and tbe portrais before you was taken in 1877, whan he was 14. He was florid bur rather delicste, and had a cough. Yon will eee that his cheeks (the conditions were quite symmetrical) were covered with acno-like pas. tules, some of which spread at their bases, and sra exactly like scaelupas. His whole ear was in a condition of eczema-lupus, and on his forearms and hands Fere ulcerating pustules and patches of various sizes. Everywhere tho eruption was leaving scars when it receded, and the largest scars were on his elbows and backs of foresrms (the psoriasis positions). A tendency to produce stigmsta (a prominent feature in Kanosi's discase) was very marked. There had been bad chilhlains on the feet. This eruption was, howerer, mucli more than mere chilblains. It had then been persistent for years, and i: remained so during the five years more tbat tbe youth was under my observation. In some respects it was worse during cold weather, but often, like psoriasis, it relapsed "in spring snd fall." It was not a disesse of the sebaceous follicles only, for there $\overline{\text { ere scars also in the }}$ palms. I find in the older atlases one or two portraits which bear upon this malady, so far as to show ulcerated and lapoid ernptions on the elbows and forearms, srranged like psoriasis, but none of thent either delineate or describe the patient's f(8^e.

I possess the notes of seversl cases like that of Philip Holmes, and have seen several others of which I have preserved no notes. The cases constitute very important connecting links. I bave no doubt that the eruption results from inherited peculiarities in the organisa. tion of the skin snd the general health-status of the pstient very similar to those 80 wonderfally displayed in cases of Kaposi's disease.

Closely allied to the cases just mentioned, but with important dif. ferences, are the forms known as psoriasis-lnpus, and well illustrated in the fnll length and excellent portrait which 1 now disnlay, sad which has been lent me by Dr. Stephen Mackenzie. There is no doubt whatever 89 to this case being one of lupus; probably the case of Dr. Jamieson's, from which we borrowed our microscopic illustration last weok, was very like it. The question is whether it should be called vulgaris or ercthematosus. You will see that it bas notched the nostrils like vulgaris, and that it presents definite thickening of the skin, not easily distinguishable from apple-jelly growth. Still, as it is arranged with symmetry, I prefer to consider it as erythematous, and as it affects the exposed parts and began in youth, I most again call your attention to its similarity to haposios disease. Indeed, if I place side by side Dr. Mackenzio's portrait of lupus-psoriasis and Dr. Radeliffe Crocker's of Kisposi's malady, you woyld be puzzled to distinguish them. A sister of the subject of this psoriasis-lupus patient had common psoriasis, a fact of much importance in reference to my assertion as to hybridity. The disease began at the age of 16 all over the face, and subsequently affected the neck, forearms, and arms. Finslly, and this is very unusual, it even involved to somo extent the truak, abdomen, and chest. You will see thst the eruption is dusky and erythematous, that it lesves scars, and
that, ma slready roied, it has taken aray the ale nasl. This case is in some respecta better illustration of ps,riais-lupus than the'one whioh I publishol under that name many years ago in the New Sydenbans Sowicty's Allas.

I almont fear that 1 may incur the clazgo of audacity in auggesting such a nome as nevus. hipus. My meaning is, eot tbat lupus-sornctimes bocome urvoid, nor'that a neerus may sometimes looks like lupus but simply and definitoly this, that skio in a , uevus coullition may beconie affectol by the lupus grow $h$, oud I assert that thers are certaiu very rare cases in whirh the on process does really beceme eugrafted on the other, -The combination may ocour with different results, the latter varying with the kind of navus which is attacked. Spmotimes it is the thick, mixal nevas oo commonly seen in infancy, and sometiples it is tho port wine stain; if the former, it is always in' rery early life; if the lattor, it may not be till puberty or after. 3 J attention was first attracted to this aubject by a ease which my friond Mlr, Miggins was kind enough to transfer to my charge at Moorfields many years ago. Itg subject was an incant who had been born with provis on the zide of the heal. At the time of birth the pavous was'so small that it, Fas not noticod, but it developerl as sanall red apots on the tomple at a week old, which spread and nlcersted nutil \& considerable part of the face was covered with soar, and the lips and nose were attacked. Part. of the nese and of itse septum wro deatroyed. In this instance sat-llites were produced near to the odce of the parent nervus. Thas we hal'serpiginous apreading, infoctiop by contiguity, nlceration, anil scarring-the charaoteristies of the lupus proces\%. It was not without great interest that I discoverel, a few duys aro, amongst tha plates fublished by Dr. Authony Tolll Thompson; the portrait which I now produce. It shows a nevens of con. siderable thickneas and of vary large extent, covering oue side of the head and a consilerable part of the fice. It was still spreading when the child diad of meniogitis, and Dr. Thompson notes especialiy that it pot only crept on at its edge, but that it showed a tendency to produce little islands of Drevus atructure in the skin dear to it-satellitap.: We hare in this iastance proof only of infective tendencies, for I halieve there had been no spoutzueous ulceration. The important paint is that the child st the time of birth hal no nevus at all, at loast nope large enough to attract its mother's attention.
$M_{y}$ next case is one for the opportunity of seeing which 1 was iudebted to Sir William Gall. The child bad beer the sabject of careful observation from the time of ber birth. She man. a young lady of 17 whem 1 baw her. Within a week $o_{i}$,her birth, an exceedingly slight port wire..ntaia was ob. sehted on the right arm, a litule above the flbow. For/some yedrs nu change oceurred, and then the stain began, to spread at its edres, promincing abruptly margined riugs, near to the edgen of whieh minute satellitos woulh appear. In this way gradually a lafyo part of tho hack of the armand forearm became covered, wind the conditiou was proluced which is shown in the drawiog which I hape placed before yous. Where the disesso had receded thero were iadications, slight I must admit, bat definite, of scarring. Thus the diseaso proved its aftinity ta lupns by a stoaly, slow, infective epreading, and by disorganising the tiwoue in which it hal, oreurenl. If anyone should in: chree to olject that-my, casqs nre, after all, only examples of nacvi showing a teadency to mproald at their edgt, and to leave scars, 1 have anly to reply ts him that, our diuferevon cooceras only mords. An infective scar-learing, ulcerating narsus differs widely from what is u\$pal ia common wevus, and sss:amps tho charaoteristics of lupus. If What ifase to recogoise it as one of the lipas group, we shall lose, I beliere, au in postant link of conneotion betwern, ibe latter and certain other maladies, which. I am-about to describe
I porseas a porrsait, datod exrculy 50 yulrw ago, adil bearing tha - igaaturo of Willisas Buwman, now Sir Willam, which furmed part of a collection of drawiogs made by the late DIr, Patridga. I aq1 not in a porition to give any tacts as tu the case; exceptlyg such as, the portrait itself puta io evidenca. It ahow, a child with a large thmour under the skia of the cheat, in all prolmbility one of, the cotagepital cyatic a ad nævoil furms, On the surfane of the tameur are a puphber of little, appzrently vericular, nutgrowthe, whioh show
 trait without any cotamporny doscriptas, weps it not that I havo mpra than once eeeran exactly similar state of things in the livige eub. jegti': At the College of Surgoone, not long ago, Mr. Bryant' showerd equ 2. pafignt who hal had from hirth ous of these subsutaneous maymid turaours, and over it quite recently. a small developmant of mipule sarqua eyst, (tymphatic 3) had been furumect, orma of which shoped minuto capillary, tufts. At a meting of the Pathnlogical Society, now nearly, ten years ago, the late Dr. Tilbary Fox, brought for denoonstration a young raan upon whobe thigh: a lacge fort witu
stain had beea present from hirth. Near to this ataiu, theugh not actually upen it, there had recintly biou developed a number of 8-rous cysts, just like those which i have mintioncl. With these cynts were aminute calillary, taft(8.] Dr. Tilhury Fox by microscopic examioation, proved that the cysf's had been doveloped from lymphatics. The diseagel was on infective one, and its patches wero spreading at their edges and producing satellates, Althongh in this irstance the morbid conditions which had receutly occurred were not actually on the port wios stain, still they were so near to it that I have little dopbt that it had bean the cause of thoir development, and that tho case might ba claiued as being closely allied to oxpus lupus. I feel sure that thero woro only differences of degreo betweon it and Sir William Gull's patient.

The statements whioh I bave just made lead me by a short step to the description of a variaty of tho lapus process, in which I betieva that the lymphatic spaces in the skin aro the parts chiefly involved, or at any rato which has for its chief feature the productlon of llttlo resicular outgrowthe, which contain a lymph flund: This is the disesse to which some years ago I gavo the name lupua lymphaticns. It is a very well-characterised malady. One case is exactly like soother, and there can be no question as to itg individuality. All my dermatologigal ricuig sdmit this, although some-for whaso juignuent in this matter I have the greatest possiblo respect-donbt whether it ought to be called lupus. Nearly a dezen g ooil examples of thig disease have now been identified. Cariously enough the disoase has not aंs yet, an far as I am arrare, been recognised either in America or on the Continont. Fur the present it is a Loudon disease onls. ${ }^{17}$ Y'frel sure that it will not long remain so.
Brichy, the characters of this maledy are the follonvog: It slo most always begin's in childhood. I hare onlf once known it or ginate fo an adalt. A number of lithle persistoatrosicles arranged in a confuent group are it Grst stage. By an infective process, which travels probpdbly along the lymphatic walls, it very slowly advances. The original metch grows larger, and yumerous satellites are developed near to it. The patches' sometitries ivifíme, and become covcred with scab, dind uow and then attacks of erssipelas occur. I have several times known "the patct spread ithtil it was as large as an outspread band, but'I hive ncrer as yet seen tho patches raproduced on different parts of the body. Scars are left when the proces comes, to an end, but I bave not as yet cxcepting under the influence of treatinent, nitnessed anything rery definite in tho way of spontaneous cure.
The chin the nose, the shoulder, and the shite of the trink are the parts ou which it has bean observed. In tho cese of Dr. Tilbury Fox, and 'in" that of Mr. Bryant, conditions prccisoly the same as 'those which I hare not? describel occurted in counection with congenital nervi ; but in not one of my orn cases bad anything of the nature of merus preceded tho disease. The latter, indeed, did not begin in apy of them uatil the child was sevoral years old., In one case, which Tms stiown me by 3frs. Garrett Andcrson, M.D., the patient was a lady of ahout 50 , and the disease hal not been present more than six or oight,yers. The facts; which seem to me to require that this disesse
shorld be placed in the lupas fanily, are the following. It becins nsuall shorth be placed in the lupas famity, are the following: It begins usually in the jound it streads by infcction of contiuuity and contiguity; it spreads very slonly, but mas io the courro of timo involve large arase, it learees scars, and it is liable to orysipolas. I have, hotvover, an item of cridence to offer which for some will perhaps, be more; conclusiret. I mean that of the mictoserpo.
Some sections of skin, which were cut for me ' by my son, showod
such a large amount of cell crowth' in the corium that they were indis. such a lafrge amount of cell growth' in the corium that they were indistioguithable from lapis. 'There secmi's to me nothing whatover improhable in the supposition that lupus should, in some instances, iofect the lymphitic syatem chietlr, jnst as it does, we well know in others, the blood-vessels of the sebaceous glands. I ilo not believe that in these cascs the process is confoed to the lympatic versels, but eimply that they take the chiof share. I may ask' attention to the "fact that tho cure of the diseaso is to be effected by precisely the same remedies a, those which wo should employ against common lupug.

I now have to ivivite your attention' to a very extraordipaijg and in. portant case which throws, if I mistake not, a flooll of light upon the life-history of hupas in' (eners) al mitht lilace by ils side scroral "uthers of a somewhat similar kind, "But I, think we ohall, lirabably get the lesson twhech I'think the case thaches mine clearly, if for the Inesent We restrict our attention to it. At the conclegion of the lecture I shall Have tha pleasure of brian in the paticnt before you, and may eay, in ariticipation, tliat sint one of jon will have the slightest, besitation in
admitivg that' trie disease in its prowent stage is common lopus. The poor hoy is literally coyercd with, large patahes of what wonld formerly havo heen oulled lapas exioliativus. $n$ Ov'his cheeke, forehead, limbs, and prois these patchas occur. Some of them are as large as 'the palm
of the hand, many of them show the apple-jelly growth in great perfection, and all of them are still spreading more or less at their edges. The trunk is the only part which is exempt. The case would be of interest were it only as an example of extreme multiplicity and of unisual size of patches. Its chief Interast is, however, not in the present condition, but in the history of its origin, and of the mode of progres.. The boy, who is four years and a halt old, is, na you will see directly, appareutly in excellent health. His parents are in good health ; there is no history of scrofula, and there is not the slightest reason to suspect the inheritance of syphilis. The disease begau by a patch on his forehcad, which inflamed and ulcerated. Then in the course of a few months others developed on various parts of the limbs and face. All of these inflamed and became covered with thick scabs. In some instances the scab was heaped up in a conical form, almost shown in the rupia prominens. These conditions you will see. well disease as: it was at that stage. There was certainly nothing, then, which would have justified the use of the term lupus, and the boy had been under the care, before I saw him, of very skilled observers who had not used it. I' ought to have said that in addition to the large patches which 1 have described, the whole of the back and parts of the belly were covered with an lofiamed dichenoid éruption, amounting in some instances almost to small boils, 1 ought also to have laid especial stress on the fact that the large patches, although very numeruas and almost covering the limbs, were nowhere arranged rith عymmetry. The treatment under which these large rupial sores healed year passed into a characteristic condition of lupus occupied about a year, and was for the most part of a, vory mild character. Jlercury rather than good. We were content afterwarde to give bark harm a weak tar lotion end olntment. Uuder these remedles the patches skinned over, but you will note that they are still spreading serpiginously as a quiet, non-uleerating forta of lupds. Tha chief interest of the case seams to be in its being an example of extreme activity of the infective process in the first instance, and also in its. making it probable that the early stages of lupus are thoee of inflammation rather than of, new growth. It. illustrates, also, what 1 have repeatsdly asserted, that activity of infection.processes io greatest in the young. It is bcarcei'y necessary to remark on the lesson which it toache日 as to the paramount necessity of destroying, by the most onpr getie moans, the initial patch when the patient is a young child. We racters as lupus, hut, if a young child de gets an ung unealthy ulceration of
Ind untroual eharacter, causties or eseharotios must be used at once with the greatest freedom, the great' danger of sygtenic infection being kept clearly in sight.
A case instructively illustrating these remarks has. recently been uader the ljoint care of Dr. Percival; of Northampton, and myself. Only by the most energetic measures have we succoeded in getting the original sore to heal. Ae in the case just recorded, the patient is a young ohild and appareatly in excellent health. I must not, how. ever, venture to trouble you with details.
I would call the disease which the case just narrated illustrates rupiallupus, for the reason that it begins with, all the appearances of a rnpial eruption and ends by becoming definitely lupus. I am par. tionarly anxious' to assert and illustrate this transition in the case of common lupus, because it is of . Fery frequent occurres, and beyond a
litic form. Rupia always constitutes round sores, cortain and very limited extent its patches do not spresd at their adges. The patches of lupus, on the contrary, are never round, but by sproading at their edges constautly tend to assume irregular forms; and in the case of syphilis crescantic olten horse-shoe shapes.? Nom, it is by no means uncosamon in the case of syphilitic rupha, beginning acterised as anyone could well wish to see it, for the eruption to undergo \& sort of partial cure and to slide gradually from rupia into lupus.: In these cases most of the patches heal, learing the well. known shilling.like scars; whilet a few of them heal only partially and take to apreading at their edgea after the manuer of lupus.
Let ns next glance at the pathological relationships of the curious disease whieh Hebra and K aposi have dascribed under the name of rhino. bcleroma. "This malady affects in the first instance the nostrils and upper lip, and is attended by great thickeuing of the parts. The
nostrils may be plugged by a very firm and remarkably indoleve grawth, which ulcerates but slowly, and which resents injury buth little.' If you cont it or sorape it away, it quietly grows again. By elow degrees the disease may extend into the nostril, periorate the septum, and destroy the soft palata. It keaps to skjn and muccus membrine; and does not involve musole or bone. It does not cause
gland disease. Its subjects are young adnlts. So s'ow is its progres? that ita final stage has, as yet, scarcely been ot served. Excepting in Vienna, where a series of examples of it have been recorded, rhuoscleroma would appear to be of the most extreme rarity. In this conntry only a single case of really typical character has been observed. It fortunattly fell under the care of Dr. Payne and Dr. Semon, and was by them carefully studitd, as it had indeed already been by Professor Cornil in Paris. You will have noticed in my description that this malady resembles lupus iu many features. It occurs in young adults, it begins in a part liable to irritation, the outlet of the nostrils, and I might have said, it apparently somotimes is excited by the irritation of discharges it spreads by contagion of cou-
tinuity and contiguity, it keeps to skin and mucous mentran tinuity and contiguity, it keeps to skin and mucous membrane, and elows none of the more marked characteristics of malignancy. It differs from lupus in that it has no apple-jelly growth, that it
occurs in oae particular part only, and occurs in oue particular part only, and that it but rarely inflames or
ulcerates. Finally, we have as yet no proof that it can infect the blood and produce distant growths. To con:e to ito histological features, we have excellent data from several dilferent sources, and the reports, are with some mioor exceptions, very unanimous. Kaposi, Geber, Mikulicz, Cornil, and, lastly, Dr. Pajne, agree in re-
porting the preser able from that of granulation tissue. The small round cells making up this tissue are very, numerous, and are often collected around blood-vessels. A fow large and peculiar cells are to be found, and in some parts the interpapillary prolongations of the Malpighian layer ap-
peared to phese features have been observed repeatedly, in lupus. It remains to be added that Frisch in Vienna, Cornil ia Paris, and Dr. Payne in Londan, have succeaded by et zining processes in proving the presence of bacili ic connection with the larger calls of rhino-scleroma. They bodies those of tubercle or lupus, but and colourless in the midule" (Payne).

It is very cloar that rhino-scleroms differs from lupus, but by no means 60 certain that it, is not a closely allied malady. Hebra thought it a sarcoma, Geber and Mikulicz a kind of chronic inflammration. Cornil in the main, aprears inclined to class it with lupus That it may: conveniently and quite correctly be placed in this association, I cannot. nysself feel any doubt, and I have great confidence that the future will disclose connecting links even if such are not
already on record. I may just remark that shonld, in certain ca already on record. I may just remark that shonld, in certain cases, that acconnt dissociate itself from lupus, siace it is well-kn not ou cancer is occasion 3 ly the fiual result of the latter. Although shiua scleroma probably acquires part of its peculiar character from the palt in which it begnns, yet it will be very exceptional to what we know of other maladies if it should prove that it is absolutels restricted to the nostrile. We shall probably find that similar condior less distance from the nose. Its peculiar features are at greater no tendency to inflame even after partisl operations, and the hard, bossy induration which it causes. In a lecture which I published more than ten years ago, with the design of drawing attention to Hebra's observation of this remarkable malady, I recorded three cases more or less resembling it. In two the palate was affected, and I have since been inclined to regard them as forms of adenoma, though by no means certain that they are not like the palate-attack-
iog form of rhianoscleroma The third and most import cases was exactly like rhino-scleroma in all its features, with the exception that it began on the cheek, and did not iavolve the nostril. I will here repeat the particulars of this case, for 1 nover saw any other exactly like it, and it is of great value as proof that a chronic inflammation new growth of the kind described nuay, after a series of sears, assume some of the features of lupus.
care by Mr. Dukes, of Canonbury, for a bossy mass of growth in the skin of her left cheek. It did not involve the nose, nor was it quite in the upper lip, but was placed just over and external to the outer angle of the mouth. Thus it was very near to, but not actually in, the rhino-scleroma territory. Its characters were alonot exactly like those described by Hebra, and its behaviour under treatment also
agreed very closely. Miss B. attriboted the growth to awasp-sting agreed very closoly. The mass was almot the growth to a wasp-sting rupliy defined, a quarter of an jnch thick, glossy on the surface, and of rodeinh-brown tint. There was no ulceration. For want of a better name of afse it lupne, and treated it, as I alwass do upus, by free canterisation TVe used both the actual cantery and the acid nitrate of
merchry. Theso did little or no good. The sores we caused healed quickly, and the mass soon resumed its original state as to density, thickness, and suoothness. I next, a year later, appliod a pasta of chloride of zine, and took amay a thick leathery slough. A very con. sidorablo depression resulted from this, for wo did it noost liberally, as I was determined, if possible, to cllect a curo. We were, however, again disappointed. No soouer was the sore healod than it again began to indurate, and a year later Miss B. retnrned to me again with the rease not so thick as formerly, but atill very conspicuous. I now persuaded her to come into the London Hospital. She did so, and I put her under chloroform, and destroyed the gromth very freely indeed, with the actual cantery. Her condition was much improved when she left the hospital.
'A year later (in November, 187\%), I heard from Miss B. that her face was still uncured. She mrites: "The Isst operation did a great deal of good, for when healed the mark was quite white, with the exception of tho centre, where a mmall red spot remained, which has since spread to the top and bottom, leaving the sides clear.' Miss B. com. plaived that the part woull flush and burn after taking food, and that, on taking the slightest cold, it becime much swollen and painful. The tendency to recar is, therefore, rery strongly marked.

Now, althongh I called this lupus, I certainly never saw any examplo of lupus exactly like it. Its bossy hardness, its elevation, its frecemom from ulceration, and its rapid healing and re.indaration after hesling, are all polnts in which it sgrecs with rhino-scleroma, and does not agree with lupus. Had it been on the nose, it would have agreed in all respects with Hebra's description."
I have quoted the above as I published it in 1879. I am now in a position to give the sequel to the case, and to say that it subsequently appronched much more nenrly to lupus.
Miss B., now Mre. L., came to me in July, 1883 -that is, about six yesrs after my former treatment. I then found that the result of our deep cauterisation with the actual cautery, as described above, had heen a cure so far as the central part of the growth was concerned. A soft white scar remained over the site of the former disease ; but, during the last year or two, there had been spreading at the upper angle of the scar. The disesse had, however, taken on a new type of growth. It was no longer bossy, thick, and smooth as at first, but presonted a rough dry surface, like some varieties of lupus sebaceus. Its edgo was a brupt and slightly raised; it had spread in a long irregular patch ontil it had almost reached the inner angle of the eye. There was no production of lupus elsewhere, with the exception of two or three other small spots, near to the margin of the scar on the lower part of the cheek. The precise form finally taken on in this case is a rery exceptional condition of lupus The patient spoke of being able to pull little roots out of it, by which she meant portions of dry epidermis, which dipped down between equally dry papille, like granulation growths. With this, howrever, there was not, and never had benn, any moisture or formation of pus scab.
Everyone will recogniso this description as being applicable, with the cxception of the absolute dryness, to what happens in many forms of lupus on the hands and feet, and now and then on the face. The bleeding of the lopus patch, when its epidermic investment is pulled orf, is a featuro which has attracted the nttention of all observers. Usactly, however, the epidermic investment makes the surface of the patch sinooth. In this case it did not do so, but left it rough aud as if papillary.
Thero is a not nrcommon form of the disease known as sycosis which is certainly nearly allied to lopus; it is locally infective, and sprcads by contagion of continuity and contigaity. It destroys not only the hair-follicles, but the intervening skin ; and it leaves a scar where its action comes to an cul. Like lupas, it results in spontaneolls cure when the tissues in which it began have been destroyed. It certainly occurs most frequently in association with evidences of struma and feoble circulation, and occasionally it resnlts in conditions which creryone would recognise as common lupus. It is, however, quite correctly named sycosis, since it is in the beginning a suppura, tive inflammstion of tho hair-follicles, and is always restricted to bairgrowing regions. As a rule this form of aycosis.lupus affects the whiskers or chin, and levelops symmetrically. It io very chronic and very difficult of cure, Not infrequently it is coincident with oph. thalmia tarsi, which is in fact the same disease attacking the eypelashes. It has long been recoznised that ophthalmia tarsi deatroys the skin aroond the hair. follicles and leaves a scar. In this way it frequently canses disfiguring lippitado, and displaces the edges of the lids into a mioor kind of ectropium. In very exceptional csses the Inair of the scalp may be affected as well os that of the parts s amed. I have known the cotire scalp rediced to a condition of tight scar in a patient in whom the ejelashes and whiskers were also destroyed.

Sycosis of the cyelashes is common in early life and in both sexes, whilst the same affection io the face nsually waits for its development until the sexual hairs have grown.
I bave placed the name sycosis-lupus in my syllabus of to-day's lectnre mainly as a suggestion, and I did not know that it had been proviously used. I have since found, however, in a paper on lupns by Mr. J. I. Miltou very similar statements to those which I have jost mado. Mr. Milton gees so far as to place amongst some cases of lupns which he records in detail two which wero only sycosis. For myself, Idc not think that we ohall serve any uscful clinical purpose by putting sycosis in the lupus family. It is a relative only. The features of difference may easily be pointed out. Sycosis, although it apreads by continuity and by contiguity of tissue, does not apparently infect the blood, and does not, as a rule, become multiple. It does not spread in the skin surrounding the hairy districts, but restricts itself to the latter. It is a discase of hair-follicles primarily, and of skin only secondarily. It never produces apple-jelly growth, and is seldom attended by common lupus in other parts. Lupus in all its forms is a disesse of the deep skin, snd not of any one of its structures; and it is capable of spreading in all regions. For these reasons I abnodon the term sycoisislupus, and also that of lupoid sycosis, given by Mr. Milton, and prefer to keep to the old name, asserting only that searleaving sycosis is a diseaso nearly allied to lupus.
I may hero add that there is a syphilitic form of aycosis which approaches yet more closely to lupns. It travels over the whole beard by a crescontic spreading edge, leaving a scar behind it (the horse-shoe form). It is curable only, so far as I bave seen, by liberal cauterisation of the spreading edge, jnat as in the case of lupns.
In advancing the opinion that Kaposi's disease is a family form of lupus, I have first to say a few words as to the characters of that disease and as to the meaning which is to be atteched to the expression "f family form." By the latter term, in conformity with the usage of Adams in his work on inherited tendencies, the expression is applicablo to any disease which shows iteelf in several brothers and sistere without having existed in their parents. It is nut to be applied, as might at first sight have appeared probable, to diecases such as gout, scrofula, and the like, which pass on in successive generations in the samo family. Retinitis pigmentosa and ichthyosis are perhsps our bestknown examples of "family" disease. If a single case of either of these be identified 'it may be assumed as cortain, if there are several brothers and sisters, that two or three of them suffer, and that the rest are wholly exempt. Under some law of inheritance, as yet bat partially understood, it woold seem that part of the offspring of a certain pair derive a very definite peculiarity of stracture which destines them to peculiar and remarkably uniform kiuds of disease. Another proposition must bo made as regards family forms. It is this: that although the disease has not occurred in preceding generations iu exactly the eanie form, yet it would appear to have heen led up to, as it were, by some other allied malady. Thus the rare disease known as xanthelasma, which is produced de novo in connection with jaundice, and scvere liver disesse, and is as such never seen excepting in adults, may now and then have its family form. When this happens, three or four brothers and sisters all show multiple xanthelasma in early childhood and withont the slightest trace of tho disorders of general health which attend it as an acquired disease. Probably almost all diseases have their family forms, receiving more or less of modification in this pecularar kind of transmission.
I have ventured to give the name Kaposi's disease to a malady which was described by Hebra and Kaposi conjointly under the name of xeroderma, and which has subsequently received a more or less modified deeignation from nlmost everyone who has written about it. Inasmuch as tho names proposed have most of them been very unwieldy, and imply pathological statements which may or may not be quite appropriate, I put in a claim to the thanks of the profession for suggesting that this very peculiar malady shoold, for the present at least, be knowu simply by the name of tho eurgoon who bas taker the chief share in bringing it to our knowledge. It is most certainly a fanily disease, being a very definite type of what we mean by that expression, and the question is as to what are its alliances. In retinitis pigmentosa we have a malady which always affects several children in the same family, ond in which the merve structures of the eye, and perhaps also of the ear, undergo a progressive degeneration, attended with the free deposit of pigment. In Kaposi's disease, making allownce for the diffrence between skin snd retina, we have a very similar course of events. In both, the child at the time of birth appears quite healthy, and in both pigment sccumalations are the first symptom of disease. In Kaposi's disease a condition of very inordinate freekles is the first stage. Next the skin shrivels, and becomes dry or even ecarred. At this stage ulcerations may occur, and the alae
nasi may be destroyed, just as they are in lnpus. I have the pleasure of being able to show yon, through the kindness of Dr. Radcliffe Cracker, an excellent portrait of a patient who was the subject of this malady, and I place beside it anether which has been lent me by Dr. Stephen Mackenzie, showing a peculiar case of paoriasis lupus. Dr. Mackenkie's patient was undonbtedly the subject of a nrodification of lupas ery thomatosus. I ask you to note how closely similar the conditions in the two portraits are. In Kaposi's disease precisely the same parts are affected as those which suffer in lupus ery thematosus. The disease begins on the face, and it next affects the hands and arms, and lastly in a slighter degree the feet and legs. There can cearcely be a donbt that the child is born with a skin so constituted that it will not wear well. In other words, that it cannot bear the ordinary exposure to wind and sun. Under these influences it first becomes pigmented and then inflames. Now this is precisely what occurs in the most gevere and typical forms of lupus erythematosus. The portrait pablished by the New Sydenham Society may suitably remind us of one of these cases. In them the influence of exposure is only less dofinitely marked than in Kaposi's cases. Another feature of resemblance between the two maladies, or rather 1 would say an indication of alliance, is that both diseases may end in malignant action. Here, however, we have a feature of resemblance with lupus in general, rathor than with lapus erythematosus in particnlar, for it is lupus vulgaris that is apt to fungate and pass into epithelial cancer. In Kaposi's disease, even in childhood, if the condition be severe, there is great liability to the formation of fungous excrescences, which, althoagh often consisting of grannlation tissue only, maj in others rua a malignant course. Thus I think you will admit that I have established uny point that there are close features of resemblance betweon lupus and this remarkable malady. I by no mesns assert that they are the same disease, but simply that the one is the family form of the other, receiving, as usual in family forms, conspicuous modifiastions. My friend Dr. Radeliffe Crocker, in his excelleat report on that "fease published in the Mccrico.Chirurgical Transactions, remarks that "few will dispute that the disease is sui gencris." This is pre-
oisely what I do dispute. Pathology knows no Melchisedecs, and if we would rightly understand the nature and origin of the various and eften very peculisr maladies which come under our observation, we shall succeed better by beeking for relationships than for differences. In all probability no malady is really isolated.
I have incidentally said so much as to lupus erythematosus, thast it may probably not have been noticed that I have not jet given any doscription of it and of its varieties. I shall be very briet on this subjoct, for the time now at my disposal is very short, but I must not Wholly omit it. First, let me say that I think it is to be regretted that the old term lupus sebaceus has been lost sight of, and that all cases, whether what used to be called sebaceous, or those purely erythematons, are now classed ander the latter name. This involves a confusion of things which present important features of difference. The earliest observations which we have as to the disesse associate it with the sebaceons glands, and subsequently the same conditions were figured by Cazensve under the name of acne sebacea partiolle. Yet there are forms of lupue ery thematosus which are congestive only, and show no tendency to implicate the glandular system. In dealing with the histology of lupus in general, I mentioned that Geddings and Kaposi considered that lopus ery thematosus began around the glands. Dr. Thin considered the blood vessels chiefly at fault, and Neumann and Jamieson the apper layers of the corium. These differences of opinion, at first startling, find, I thiuk, a fair explanation in the fact that the disease is not always the 6 amo. Nor does it always in the same case present the same conditions at different parts or at different stages. I cannot say that I have found Kaposi's division into two forms, lupus ery thematosus discoides and lupus ery thematosus discretus et aggregatus, of much assistance in cliuical work. The classification I would venture ta suggest is the folloring; but, in making these subdivisions, I am well aware that many cases will have to be placed in more than one.
The first subdivision should, I think, be into lupus sebaceus and lupas orythematosns proper. In the former category I would count all cases in which there is conspicuous implication of the follicles, all in which the well-known dried orange-pecl condition is seeu. Many of these cases are comparatively slight, and remain for long strictly jocal. As Kaposi has mell remarked, they rarely leave the face and head. Sometimes thay, like lupus vulgaris, are uon-symmetrical. Their gignificance as revealing synuptems is far less grave than that of the trut erythematous form. Some of them have little or no ersthema. tous congestion around the patches, but in others it may be considershle. At the other end of the chain, and in strong contrast, I would place the cases in which erythema is the conspicious feature, and
almost the sole one. In many of these there is no roaghness of the surface, and the orifices of the sebzceous glands are at no stage unduly conspicuous. In these the disease often spreads rapidly, the arrangement is always symmetrical, the hands and feet are often attacked, and ontbursts of febrile illmess are not infrequent. Between the typically sebaceous and the typically erythenatons, we have many cases which, in varying propertions, combine the peculiarities of both.

For purposes of clinical convenience I woald arrange the cases of lupus erythematosus proper into groups ; first of those in which the lisease was restricted to the face and head; secondly, those in which the hands as well as the face were affected; thirdly, those in which the disease showed a teudency to become general, that is to extend to neck, shoulders, upper arms, and possibly to the trank; also, fourthly, those in which erysipelas had repeatedly occurred. In on last lecture I spoke of the great danger which attaches to lupus erythematosns in its typical forms, and especially of the risk of a fatal attack of erysipelas. Ksposi's testimony on this point is very strong ; indeed, he weuld appear to have met with erysipelas very frequently. and speaks of an "erysipelas perstans faciei," with which I am not familiar. The circumstance that he dresw from the experience of a large bospital in which the pationts remained for long periods, whereas my cases have been chielly observed in private practice, may explain soms discrepancies. He would be likely to encounter more serions complications than have fallen to my lot. The best pnblished portrait of a purely erythema lupus with which 1 am acquainted is thst in the New Sydenh3m Society's Atlas ; one which I now show you, published at the Hôpital St. Louis in Paris, and desiguated scrofulide erythematose, is also excellent, and has the merit of being a photogrsph. Those given by Hebra show the sebaceous and mixed forms only.
I have yet two topics to which I must advert before I conclude. I refer to the simulations of lupus by syphilis, and the association of lupus with cancer.
A large number of the diseases of the skin in the later periods of syphilis are lupoid in character. Dy that statement it is meant that
ther they occur without symmetry, that they are infective and serpiginons, and that they leave scars. In these features they differ wholly from the eruptions of the secondary period, which are symmetrical and exanthematous and show no tendency to infective spreading. A syphilitic lupas, like other forms of lupus, may spread indefinitely, and may last for years ; indeed, unless cured by treatment, it will as a rule never get well. We occasionally see very severe secondary eruptions, especially those of the rupia class, gradually slide when nearly cured into lupoid pecnliarities, that is, some of the patches may take on serpiginous sproading. As a rule, hewever, syphilitic lupus is decidedly late (that is, tertiary) in its appearance. It may simulate any of the known varieties of lupus, and the closeness of the resenblance may be most deceptive. I cannot see that anything is gained by disuse of the term lupus in connection with syphilis. If instead of it we employ such terms as horse-shoe sores, serpiginots ulceration, and the like, we lose in clearness of meaning and do not gain in anything.

Many observers have recorded cases in which cancer has developed in lupus patches, either whilst the disease was still extant or after cicatrisation had tiken place. I have shown yon a portrait from a case of my own in which this took place in a partially cured lupns,
and several cases I have seen lupus and cancer in the notice. in three or four of each other, and on more or less distant parts. Thus it would appear that not only is the scar tissine of lupus prone to be attacked, but probably there is something in the patient's state which gives proclivity to both. The form of cancer is epithelial, bat very malig. nant. It reappears usually very quickly after excision, and advances
very rapidly. masses, exactly such as attended hy largo cancer which granulation ulcerations of Kaposi's disease. A very important addition to our knowledge of caucer in this relation has been made since these lectures were commenced. I heve only today obtained a cons of a very able paper on Lupus.Carcinoma by Dr. Bayla, of Tübingen, pablished in Bruns's Beitrüge. He has collected no fewer than forty-two cases, and in one of them it began as early as the twenty-sixth rear. The hape is accompanied by four nortraits, which well illustrate what I portraits I now produce for your inspection. In conclusion, Mr. President aud Gentlemen, permit mo to recapitulate shortly the main argunients of my lectures. It has been sought to show that there are a large number of maladies, some of which it to be admitted rery rare, but ret of extremis interest. which are cognate with common lupus, and that between common
lapus anil lupus erythematosus there are bonds of essential relation. ship, whether wo regard thelr clinical features or their histological chanactors. Next, it has been mado probablo that all forms of lupus are in occasional relationship with the state of health which gives lisbility to tuberculosis and to diseases of the serofolous class; but in limitation of this it has also beeu proved that many lupus patients aro in oxcellent health, and that there appears to be some propenesa to cancer as well as to tubercle. That lupus begins as an inflammation under the infloence of rarions exciting canses and derires its pecaliarities from the part affected, and the special structures in that part, as well as from the age and preclivities of the patient, has also been asserted. Thus it has been songht to discredit the supposition that lupas, or any of its pecaliar ferms, deserves such terins as sui generis, tho implied ereed being that they are clesely related amongst themselves, and also to other various pathological processes. The doctrines of infective spreading and system-contagion have been asserted as being explanstery of the phenomena of lupus, and as finding in it some of their best illustratious. The laws of hybrdity and these of partnership in discaso havo also been appealed to, as well as those of modification in hereditary transmission, under which latter it has been attempted to establish the pedigree of the very remarkable malady knorn as Kiaposi's disense.
I much regret that I have not had time to say anything in reference to treatnent, since 1 might hare drawn from it very impertant eridence in support of the conclusions placed befere you. This, howeser, nust be reserved for another occasion.
In reicrenco to the introduction of not a fer new names, and the alteration of geme old ones, I am well aware that I havo laid myself open to criticism, and that I have taken on mo grave responsibility. $M y$ innovations in these matters, howerer, I willingly leave to the judgment of others. If found nsefnI they will live, if otherwise lot them die. I can only assure you that I have done nothing from caprice, but that I have honestly ondeapoured, as far as my ability admitted, to make clear a very intricate aubjact, and to lighten the labours of those who mill follow me.

## LETTSOMIAN LECTURES

SOME POINTS IN THE SURGERY OF THE. URINARY ORGANS.
Delivered before the Medical Society of London, January, 1885.
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## Lecture 11.

The Pathology of tie Enlarged Prostate viewed in respect to its Catsation and Prefention, and the Treatment of some Complications arising out of it.
Mr. Prpaideat asd Fracows,-I parposo this evening speaking of the pathology of the prostate relative to some points in connection with tho provention and treatment of certain disorders arising out of it when it becomes hypertrophied. The causes of hypertrophy of the prostate have formed the anhject of much careful observation, and I feel some hesitation in again referring to them. Still, on the other hand, thoogh my viems may not prove gencrally accoptable, I am inelined to think that a narrative of the observations apon which they are to a largo extont based may serve a useful purpose in indieating lines of thought which rosy result, sooner or later, through the investigstiond of others, in clearing up doubtfol passages in the physiology and pathology of this part. In the first place I shall apeak of the prostate as forming the retontive apparatus of the male bladder, under whose influence the arine is collected and held, irrespectire of any glandnlar function which, by tho natne of other atructures it may contain, it is capable of exerciang. And I think it will not be diff. cult to substantiate the proposition that, in the human epecies at all events, this part may with greater propriety be designated the "prestate muscle," rather than tho "prostate gland," for whatever function it may exercise intermittingly, relative to the process of generation in its latter sense, geems to bo subservient to the physical part it is continuously playing as a portion of the retentive apparatus. In support of such a view 1 would draw attention to Mr. Ellis'a important paper (hoyal Medical and Chirurgical Transactions, vol. xxii), On the Mracular Arrangements of the Genito-Urinary Apparatns, wherein it is
remarked, "I would propese the name orbicularis vel sphincler urethra: for both the prostate and the prolongation around the mambranous urathrs, whilst I would confine the old term 'prostate' (with out the word gland) to the thickened and nore peworful part near the neck of the bladder. This orbicularis may bo coasidered as only an advanced portion of the circular layer of the bladder, though it mast have the power of acting independently of the veaical fibres." But it its mascularity is admitted, we must conchnde that it for the most prart exercises its function in conjunction with the bladder in the form of a hollore muscle, for it weuld be againat the nature of thing for it permanently to exist in the shrivelled and contracted state it presents after death. Wa have been too much accustoned to regard the prostate from its postmortem aspeet, that is to say, as a mass of muscle of the size and ferm of a chestnut, in which is contained asme secreting tissue. Fer concluding that it thus exists during life, 1 believe there are no substantial grounds, as it seems to me that under no circumstances, sare the rare and mementary one when the bladder is absolately empty, does it present such an appearance. On the contrary, the muscalar fibres are spresd out like a funnel, with the aper dewnwards so as to form a strong muscular sopport for the bladder and its varying amount of contents, the degree of expansion being usturally relative to what the viscus may centain. Hence the action of the prostate may he aaid to be just as continuous as that of the heart. In reference to this important point it will be necessary that I should furnish seme reasons fer auch a conclusion.

In the first place, the clinical examination of a healthy person with varying amounts of urine in his bladder affords no evidence that the prestate presents the contracted appearance we are accustomed to see ; on the contrary, when the finger is introdnced into the rectum, in the natural condition, the parts are felt to be disposed in the manner I hare indicated, and providing a moscular floor for the bladder and its varying amonnt of contents.
But the retentire function of the prestate is mere strikingly shown when we proceed to what I would speak of as actual demonstration. And for this purposo we have only to observe what follows in cennection with certain surgical operations on those parts with which most of us are familiar. Incisions may be mada into the malo urethra, in any part of its course, as far as that point which we are accustomed to call the apex of the prestate, without any incontinence of urine following. I hare seen cases of lithotomy by the median operation retain foll control over the bladder daring the whole period of their convalescence, in spite of the dilatation to which the prostate has been anbjected by the introduction of the finger and the extraction of the stane. And this remark applies equally to cases of external nrethrotomy.
When, however, the knife impinges to any appreciable extent upon the prostate, as in the lateral eperation for stone and the modified median operation which I have recently drawn attention to, where the prostate is divided, from that mement incentinence takes place; the patient has no command over his urine; he can neither collect nor expel it, and in this condition be ramains until the healing process has made considerable advance. We have here striking evidence, net ooly as to the habitual function of the prestate relative to the contents of the bladder, bnt that the action of the part most be ancessing in its character, subject to the circumstances noder which it has to distribute its ferce over the area it supports or brings into action. How completely the prostate forms the lower aection of the bladder was demenstrated to me in a striking mannar only a ferr weoks ago, and in a way that I had not previously noted. It was a case of lateral lithotomy in a young man where, ten days after the operation, there was aome free hemorrhage. As the bleeding did not proceod from any part of the perineal wound, I had the patient pot under ether on the operating table, and, suspecting where the bleceling came from, I introdaced the nozzle of a Higginson's syringe into tho orifice of the uretbra, expecting that the fluid would run ont of the open arethra; this it certainly did, but not natil it bad first entered the bladder, out of which the fluid escaped, together with aomo old clots which had evidently colleeted in the viscas, jast as water would do out of the side of a cask in which a hole had been made. This I was able to sce, as the wound was held open with retractors under a strong light. In addition, however, to testimony of this kind, I am convinced, from a carcful examination of the prostate, both bofore and after operations on this part, where tho introduction of the finger into the bladder formed a detail of the proceeding, that the more usual condition of the healthy prostate is one of relaxation, and net of contraction, as we are accustomed to see when death has taken place.

But further, when there are no such physical functions to perform relative to the contents of the bladder, the prostate, as a muscle, so
far as I have been able to ascertain, only exists in a rudimentary form. I refer to those distressing sbnormalitites known as extroversion of the bladder, where, from the fissared nature of the structures, there is no receptacle for the uriue which escapes from the ureters as it is excreted. Here, though the sexual sense may be normal, there is from the nature of the parts no necessity for any provision being made for the collection and retention of what the kidneys secrete. I have not been able to discover, though I have taken considerable pains to do so, that in these abnormalities hypertrophy of the prostste has ever been noticed. This seems to mie to be a point of some significance in connection with what has been alrcady urged. But though in an argument of this kind I would prefer to substantiate my position from positive eviderce rather than by a dednction from the negative, I cannot help remarking that, if the office of the prostate was solely in relation to the sexual act, the pathelogy of the part would tend to indicate this more than 1 believe it does. It is not very common to meet in practice with cases ot acute suppuration cormmencing in the follicles of this part, where one would think that irreparable damage must have been done, and yet we have ovidence to show. that the individual bas not necessarily been unsexed by this process. Nor can I assert, thongh the opportunity for doing so has now for some jears beca abundantly provided me in my operations, involving varying degrees of mutilating the prostate, that I ever extingnished the procrestive powers.
In the nest place, I would point out that adult man seems to require some special provision such as the prostate affords for the purpose $I$ have just indicated, by reason of the exceptional degree of prossnre to which the most dependent portion of his bladder is constantly aubjected., And in making use of the words "exceptional degroe of pressure," I do so in contradistinction to what is found, so far as I have been able to observe, not only in the animal kingdom, but in other varieties of the humsn species which are not in exact correspondence wlth the type 1 have taken. As demand and supply in the disposition of mascular tissue are proportioned, it seemed to me that we had hitherto failod fully to recognise and appreciste all the circumstances which rendered it necessary that the adult male bladder should, as I have already pointed out, be provided with a muscular apparatus of considerahle strength at its most dependent point.
But in what respects, it may fairly be asked, does the adnlt male bladder differ from other varieties of its own species, and from those animals which in their higher organisation more closely appreach it? I maintain that in man the perpendicular axis of Whst I would speak of as urine-pressare falls directly upon the outlet of the hladder, whereas in the femsle, not only are there other means of supplying muscular support to the base of the bladder, but in consequence of the difference in the pelvic organs, a cousiderable portion of the weight of the viscns, especially in its more extreme degrees of distension, is borne by the pubic portion of the pelvis. Further, allowance mast be made in the femsle sex for no provision being necessary for seminal ejaculation, in which fanction the muscular fibres of the prostate undoubtedly play an important but occasional part.
In the higher mammalia-excepting, perhaps, in the case of dogsthe prostate is not so largely developed as in man. In reference to this point, Mr. Bland Sutton kindly informs me that, although he has conducted many thousand post-mortems, yet, excepting in the donbtiul case of dogs, he has never seen an enlerged prostate-at all everts, such a one as would cause obstruction to the flow of urine. In animals, it will be observed that the perpendicular axis of urine pressure, when the bladder is tolershly full, does not fall, as in man, on the outlet, but on the parts which support the bladder, according to its rarying degree of distensior. In the dog, it seems to me not improbable that the exceptional degree of prostatic development is related to the somernat peculiar condition under which, in this animal, micturition is performed.

As my opportunities of examining the urinary apparatus in the lower animals have been few, I feel much hesitation in making reference to any obserrations I may hare rather casualiy made so far as they related to the point under discussion. It, however, appeared to me that where tho habits of the animal, as observed in some apes and marsupisls, necessitated the frequent adoption of an erect position, the meles had a much greater development of the prostate muscularly than was usually found in other kinds of quadrupeds.

I regret very much that we have not at our disposal more abundant meane for referring to dissections illustrative of the comparative anatomy of the body. I am sure they would prove of mach assistance in investigations of this kind, haring relation to normal and morbid human axatomy. Bat, apart from this, if time pernitted, it
wonld not be difficult to adduce further evidonce to show that in man the collection and etorage of urine, if I may make use of such a term, implies a degree of muscular support to the most dependent portion of the viscna, for which no such complete provision has to be made under any other condition of life I am acquainted with. I shoald not, how. ever, feel at all snrprised if, when the "missing link" is discovered, be is found paying the penalty for his assumption of the erect postare by developing in some degree an enlarged prostate.
But to proceed; if the prostate represcats the chief means of retention and support for the contents of the male bladder, is it necessary to pursue the argument for the purpose of explsining why it becomes bypertrophied? Does not one follow upon the other? Are not the circumstances of individual life sufficient to explain why it happens to one person and not to another ?
Many of the fects connected with the natural history of hypertrophy which have been collected for ns, or with which, in our daily practice, we sre familiar, seem to mo to support the view I have taken relative to the fanction of the part. In the first place, it is not met with during those periods of life which are most remarkahle for muscular activity and development; on the contrary, it is called into existence where, pathologically speaking, quantity seems to supplement deficiencies in quality.
But as with similar changes in other parts of the body, so may prostatic hypertrophy be shown to be exactly compensatory ; whilst in others, by an excess of the process, it may be proved to be detrimental. And in reference to this point I would remark that we have been too much accostomed to regard prostatic hypertrophy as necessarily a morbid and hurtful process. To such a conclusion I think exception may be, taken on sabstantial grounds. It is stated by Sir Henry Thompson that actual hypertrophy of the prostate exists in about 34 per cent. of men at and above 60 years of age ; that it produces manifest symptoms in about 15 or 16 per cent. From this it would appear that the larger proportion of persons are not injurionsls affected by the change, a circumstance which seems to suggest that the majority of persons with large prostates are in some way or other benefited by them ; and this deduction is considerably borne out by everyday experience. I am disposed to think, from my orrn examinations, that the frequency of some degree of prostatic hypertrophy is thus rather under- then over-estimated. Though it is not easy to form an absolutely correct estimate of the size of these parts relative to standard messurements by rectal examination, my conclusion is that a far greater number of males over 60 years of age have some enlargement of the prostate, and are never in any way conscions of the alteration, than we should conclude from the figures I have just referred to. How frequently, for instance, when we are examining elderly persons, say for some disorder of the rectum, we make the discovery that their prostates are enlarged, though they have no reason to be conscious of this chango. I cad at this moment recall many instances of this in my own practice where the persons are in every sense of the word in the enjoyment of the most perfect health, with an entire absence of any urinary ailment. Quito recently I was asked to examine a gentleman who, in the course of an acute bronchitis, had retention of urine for the first time in his life. This patient bad an enormous prostate, which rnust have been in course of formation for several years. Sarely, under these circumstances, in the hirst instance the hypertrophic change must have been called into existence for a distinctly conservative object, and had been merely disarranged by the violence of the cough from which he mas suffering.

But though prostatic hypertrophy is, as I have shown, in the greater number of instances more or less compensatory, it masy, as in others, be in excess ot what is required, and thns prore dettimental. In the latter category, reference no doubt will ocrar to us of those examples where the prostatic mass is made ap of projections having a somewhat lobulated or nipple-like form, where the degree of irritation and obstrnction excited is often very considerable, and apparently out of proportion with the cause. These I would speak of as being the structural upheavings of a frequently contracting muscular ring. In a mnsele or part undergoing hypertrophic growth, and where the process is prompted by circumstances which are obvionsly liable to some degree of variation, tissue prodaction may be excessive or become unnccessary. Such excess would naturally tend, under the contraction of the part, not only to protrude itself where the resistance was least, but to assume a more lowly-organised form than that which in the first instance was developed. In this way, I beliere, these masses of more or less degenerated prostate tissue are formed, which subsequently cause so much resical irritation and irritability. And this observation, whether a large prostate sti! 1 remains almost entirely mnscular or has become largely converted into fibrous tissue, has an important bearing in practice in those cases where we have to express
an opinion in roforonce to tho probabilities as to whether tho use of the cathoter will bo a temporary or a permspent expedient; for whero thors is avidence to the touch that fibrous tissue predominates largely ofer the muscular, the use of the catheter is generally perpetalal whilst, on the other hand, when the prostate is found soft and yiolding to the touch, as when it remins muscular, a complete restoration of function may be saticipated. Thus, thon, may the rosistance which is constantly going on in the most dependent portion of the hladdor against that lownward pressare which is exorcised by the colloction and retoation of urine in the bladder, prore the common cause of its hypertrophy.

13at this is not tho only condition ander which bypertrophy involfing the lower section of the bladuler can be studied. In the examination of the bladker, both sfter death and in the course of surgical opsrations, it is impossiblo not to be struck with the altered relations which frequently exist between the body of the viscus and its neck or outlot. In early adult lifo the bladder may be regarded as an abdominal rather than a pelvic orran; as years adrance it gradually sinks within the pelris; whilst still later on it will olton be fond to hava became further depressed within the pelvic cavity. In this way I have seed a prominence given to tho floor of the prostate, which was really dno not to the development of more prostate tissue, bat to the lep:ossion or partial prolapse of the posterior wall of the biadder. This artificial condition of obstruction $f$ have endeavoured to show, in some iustances, not only precedes prostatic obstruction, but, forther, is followed by the development of a strong muscular battress between the orifice of the areters, which in many instances leads to the obstruction of what otherwise would prove, by the sinking of the posicrior mall of the bladder, an inconvenient pouch. Thns hypartrophy of the prostate and the adjacent part may not only be duo to the ateral resistance of urine-pressure, but may also be called into existonce for the srident parpose of supplementing a structural defect of more or less accidental origin.

It is impossible to observe the fanction of micturition in the child an I the allult without recognising that in the two conditions there are wide differeuces in the intuences that the will exercises upon the merely mechanical act. In the child the process almost appreaches the iarolantary; the calls of Natare are impulsive, and must be obeyed withont hesitation. This may be illustrated in a variety of ways, in health as woll as in disease. In adult man this is to a large extent changed, as we find the process becomes much more aubservient to the will than perhaps at first sight wo should feel disposed to almit. That there is a wide difference in our respective powers ol continence in this respect I am willing to admit. In some individnals the function of micturition seems in health but very slightly removed from a purely voluntary act. Let mo illustrate what 1 mean. A modical man, closely approaching 70 years of age, asked me to examine his rectum for some slight ailment. In doing so I fonad that ho had a very large, soft prostate. I mentioned this to him, when he romarkod, "I could hardly believe it, ss I have always had anch excallent waterworks. I have been in the habit of not passing arine for eight or ten hours." Hers then is an illastration of a man who submits his bladder to tho same degree of urine-pressure at 70 as he did When he was 27. Again, a captain of one of ons ocean stesmers, in consalting moin reference to some urinsry disorder clearly connected with a largo prostate, in comparing his present with his past powers of retaining arine, remarked that, in consequence of remsining on the brilge of his steamer for long periods of time, particularly in thick weather, without leaving it to nsss water, ho had acquired a power of retention rhich had gradually become constant. Is it remarkable that Naturo had thus substitated quantity for quality, and had made prorision agyingt the effocts of a muscular strain which could not have been inconsiderable? We might from our daily practice maltiply examples of this kind whore yersons, 80 far as was known, were nat deriving anything but good from that excess of muscular tissue which we are accustomed to apeak of as the prostate gland. If we admit that the mascular fibres, of which tho prostate is so largely composed, exercise the function I have urged relating to the contents of the hladiler, I do not think wo can bэ at a loss to understand how they besorne hypertrophicd.
let mo, howerer, not bo underatood as implying that in the human srecies the prostate has do rolation with the sexasal act. Evidence is unt wanting to show that, both as a muscle, as woll ag by reason of its glannlular element, it exercises purely physical tuactions relative to this important but casusl funstion, independently of the continuous a.stion I have laid stress upon in relstion to macturition. The less important fuaction of the glandalar portion of the prostate has been, I is lieve, correctly described by Dr. IIandfiel Jowes (The Iondon Meal cal Ciazelle, vol. $\nabla, 1817$ ), in the following words:-"Its part in
the gonerative function is probably not to preparo any essential element of the fecundating fluid, but raerely an appropriate viscid material, involved in which the seminal animalcules may be more eecurely transparted on their destined route.
lassing to some considerations relative to the prevention of prostatic hypertrophy, and the complications arisiog out of it, I would observe that moro care should be systematically taken to preserve the muscular power of the bladder, and to aid it artificially when the necessity obviously arises. If a man goes on using his bladder as he mould a water-bottle, from adolescence to old age, ho must not be surprised if Nature prevents it bresking down entirely by the process I have described. The timely use of the catheter has often, I sm sure, provided the means for watding off changes which unfortanately do not always cease when they have become precisely compeasatory. Nor is there anything exceptional in this, for as age advances we recognise the importance, and make use of artificial assistance in a variety of ways which I need hardly particnlarise. In the clinical bistory of most cases of hypertrophy of the prostate, we can generally trace a period when \& Weakness of the viscus indicated itself by a frequency in action, which was subsequontly corrected by an overgrowth in the part. But, unfortunately, the process of hypertrophy, as observed in the prostate, is not infrequently in excess. In by lar the larger propertion of these instances tha iodividaals are abla not only to keep themselves comfortable by the use of the catheter, bnt I question very much whether their lives are in any way shortened by the continued inconvenjence they hare thas to submit to. Many of us could record some remarkable example of longevity under these circumstances. Brt making due allowance for this class of cases, there are others whose lives, in spite of careful and efficient catheterism, are rendered naiser able and useless by what thoy suffer in this way. For no eooner does urine collect in their bladders to any appreciable extent than they requira to get rid of it. Many expedients have been resorted to, both in the way of drugs and operative procedures for the permaneat relief of this condition, about which it would bo impossible to speak in detsil. Let me, howerer, refer to a case (Journal, December 24th, 1881; April 8th, 1882) which I reported some years ago, where I tapped the bladder from the perineum through the enlarged prostate, quite independently of the course of the urethra, and where a cannula was retsined in this position for two months with great comfort to the patient. He was a man about 80 years of age, and had suffered much from almost all the complications that an enlarged prostate is capable of giring rise to. But the furture of the case was perhaps still more interesting, for he completely recevered and lived for several years, and in this I include the scquisition of the nstural and nnaided use of his bladder. Further, the explanation of this was found in the fact that during the time the cannula was retained in his bladdor his prostate underwent a gradual diminution in size, Which was noticed by all who had the opportnoity of watching and examining him. His coudition prior and subsequent to the operation proved a most remarkable and iostructive contrast. I may add thst this process has been ropeated, not only by mysolf but by others, with very satisfactory results, and this tends in no slight measure to substantiate the riepr I have already advanced relative to the pathology of the disorder. And in connection with puncture through the prostate, I wonld like to say a fow words in reference to cases where relief has been afforded under similar circumstances by an iocision through the part similar in many respects to what is adopted in lateral lithotomy. There can be no doubt that prostatotomy, which affords a free and incontinent escape for urine from the bladder, has proved of Fery great temporary and permanent service in this class of cases.
At the mectiog of the International Medical Congress at Copenhagen, in 1884 , I took the oppertunity of illustrating this method of treatment as an alternative in cases where the catheter wes of no avail in affording relief. And I will again refer to this operation, as suflicient time has now elapsed to enablo me fairly to judge of the results obtained. Tho kind of cases to which this treatment has been applied are those of diflicult micturition, due to tha large prostate, which are not adequatoly relieved by the use of the catheter. This class, therefore, iocludes instances where there is unusuml difficulty in introducing the catheter ; where hleeding almost always attonds the use of this instrument ; where the withdrawal of the urine is followed by no sense of relief; and whore the bladder, by the constant preseace within it of pos and tenacious mucus, is converted into little alse than a chromic abscess through which urine percolates. These, as well as 80 me other forms of prostatic diseasa which might be included, are practially unrelievablo by the catheter, and soon terminate in a painful deatls. For the relief of such conditions Fatious expcdients for establishing a more or less permanent commuui-
cation with the bladder, other than the urethra, have been practised, nsmely, puncture above the pubes, by the rectom, and from the perineum, with the retention of a cannula or tube for the discharge of urine at these several points. Excellent in design as these pro coedings are, they appear to me to fall short in one important re-enect-in not desling with the cause of the obstruction. Two of these measures are open to objection, on the ground that the artificial canals are inconveniently placed as permanent vents, for it would seem desirable that the urethra should, as far as possible, be utilised and the external opening for the escape of urine be dependent. Ou considering various plans of treatment which had been applied under the circumstances mentioned to the obstructing prostate, it appeared to me that, by combining Cock's well-known and safe operation for opening the membramous urethra with Mercier's for dividing the prostatic bar from within the urethrs, as will be presently noticed, it would be possible to obtain precision with an increased freedom from risk. Such an operation was suggested by the late Mr. Gutbrie, bat I cannot find that he ever tested it in prsctice. The want nf snresthetics probably interfered with the progress of this as mell as of other departments in surgery. Apsrt, however, from the operative procedure, it appeared to me, from some experience $I$ have had in lithotomy and other operations on the parts constituting the neck of the adult male bladder, that the means which had been subsequently adopted for tendering the prostatic section thus made permanent were very inadequate. Further, I had been impressed with the advantage that followed the employment of suitable bougies as dilators in cases where the prostate threatened to obstruct micturition (The Prevention of Prostatic Obstruction. London: Churchill. 1881). Influenced by observations of this kind, I was led to attach considerable importance to the treatment immedistely following section of the enlarged prostate with the view of rendering it more permanent than had hitherto been attempted. The necessity for prostatotomy having been determined by the symptoms presented in each case, as well as by phyaical exsmination, 1 riil describe briefly the operation and after-treatment employed.

The former consists in opeaigg the membranous urethrs, from the perineum, on a guide, and introducing the finger within the prostatic urethra; the obstracting portion of the prostate is then divided a little to one side of the medisn line, partly by incision with a curved probe-pointed bistoury from within outwards, and partly by divulsion
with the finger when the latter is feasible; a large drainage-tube is then introduced into the bladder. I attach considerable importance to the prolonged use of the drainage apparatus, as the object is to render the section of the prostate not a temperary one as after a lithotomy, when no such provision is made, but permaneat. Hence, I am in the habit of retaining these tubes for six, eight, or ten weeks. If, after such periods, on removing the tube, I find that a catheter can be made to enter the bladder easily along the natural routa, or if, as it sometimes happens, urine forces its way, in spite of the drainage tube, along the natural passage, I regard thase as indications that the object in view has been obtained. The perineal wound is then allowed to close. Let me briefly illustrate this by the narration of one of my earliest cases (Journal, June 9th, 1883).
A man, aged 63, came under my care in Februsry, 1883, suffering from a large prostate, which was a constant source of irritation to him. The straining and forcing to urinate wore but very slightly relieved by catheterism, and the only way he could get any sleep was by tying tho instrument in, and this was generally followed by some cystitis. A fortnight after 1 saw him, I opened the prostatic uretbra by a median perineal incision, and incised the prostate laterally. In doing this I found that, though the prostate was not very large, the orifice of the bladder was much obstructed by one of the nipple like onlargements, which are sometimes more effectual in rendering micturition difficult and cstheterism uncertain than some larger masses. A driinage. tube was introduced and retained for fonr weeks, when it was remored, and the perineal opening allowed to heal. In this case, so perfect was the drainage that the whole of the urine escaped by the apparatus, snd the patient was kept absolutely dry throughout. He remsined uader treatment for two months after the operation. Three months after he retarned to report himself. There was a slight fistulous opening in the perineum at the lower angle of the wound, through which arine sometimes passed in dropa during micturition. He could now hold his orine for several hours. Some slight enlargement of tho prostste could be felt from the rectum, but this did not appear to have increased. A full-sized catheter was easily introduced without any hitch or obstruction in the prostatic urethra, or at the neck of the bladder, being felt. This patient was seen st intervals for two years after the operation, and remsined porfectly well. He has sluce neglected to report himself. Though I advised him to pass a catheter tor himself occasionally, I believe thast he did not do so.

Taking the case thus operated on, I have noted the following results : 1. The operation has merely afforded jost such a temporary relief as the retention of a catheter or cannula would do as a drain, the condition of the patients, so far as recovery was concerued, being more or less hopeless at the time of operation. 2. The establishment of a permanont vent for the urine throagh the perineam. In two instances where this occurred the patients exchanged a life of misery for oue of comparative comfort. The shorter ronte here proved most acceptable. 3. The sabstitution of easy for difficult catheterism. In one patient I thus operated on, though he had to use his catheter afterwards, 80 long as I heard of him, which was for orer two years, he never had any difficalty in passing the instrument, and the bladder continued to be far more tolersant of urine than it had previously been. 4. The complete recovery of the patient, as I have jast illustrated.
In discassions relative to the method of operstion adopted, it has boen pointed out that in some cases of this kind, it must be absolately impossible to explore the whole length of the prostatic nrethra with the finger. This circumstance has never inflienced me, or serionsly interfered with my carrying out the object in view. I never met with a prostate of such a size or shape as to prevent a staff or guide being
passed into the bladder, and where a director will go a kuife may safely follow.
But, to proceed, though a more or less permanent vent or opening for the urine, either above or below the pubes, may prove of valae in some instances of urethral obstruction due to prostatic hypertrophy, where ordinary catheterism is useless so far as the amount of relief that is afforded, it is not applicable to all cases of this kind. For we mnst remember that in the formor class of cases it is merely a matter of amptoms obstruction that we have to deal with, whilst in others the symptoms are for the most part due to the irritation that is provoked
in the bladder by the prost prostatic tissue. The one is to the othor, as well as to the as urethral stricture is to vesical calculus. The examination of specimens of hypertrophy in connection with their clinical history clearly points in some to the mechanicsl irritation which protruding masses of
more or less prostatic tissue excite in the int more or less proststic tissue excite in the interior of the bladder. In
connection connection with the trestment of sach cases, where the lives of the
individaals are not only absolutely naeless, but glad to see there are signe that somethins, done for their relief. Heretofore we tave been drawing for any experience we may possess in reference to this point unen what I would speak of as the casualties of lithotomy. There is much, however, in
favour of direct favour of direct surgical interference in these exceptional cases of grave prostatic obstruction and irritation, as the nature of the gromth, unlike cancer, renders a retorn of it improbable. I have now on three
occasions deliberately removed by occasions deliberately removed by perinesl section considershle por-
tions of the tions of the hypertrophied prostate, with permanent relief to the
pationts ; snd I have no hesitation in recommendiag the adition this course in suitable cases, after, if possible, perinesl explortion of the part with the finger. Nor, thrce instances may seem very insufficient data for basing such a recomnendation upon; but it must be remennbered that this is an exceptional remedy for the purpose of meeting exceptional circumstances. No operation of this or any other kind would in my judgment be warrantable so long as a man can keep himself reasonably comfortable with the use of the catheter, and therefore the percentage of cases where more radical measures would seen to me to be indicated is really extremely snall. But we mast be provided for these, and though they are oftener mat with in the aged and feeble, with reduced powers of repair, whose chances of recovery from any operation are reduced, such mesns as I am referring to must not be too hastily set sside in these days when the practice of operative surgery, especially in relation to the interior of the body, has been shorn of many of its dangers, and is altogether very dillerent from what it was, even
at the at the commencement of the present century. I am induced to make these observations partly because I think it would be a misfortune if operstive procedures were extended to what I would speak of as ordinary forns of prostatic obstruction, and partly because
riska think the riske attendiug the remoral of protruding portions of the prostate debarred from annewhat exaggerated, and thus surgeons have been afforded both immediate and permanent relief. $S_{0}$ proper car, I hase been able to do all I desired in the may of removing more or less of the olstructing prostate by proceeding from the perineum, which I have always opened with considerable freedom. In conncection with the such circamstancectas as I have indicalted, $I$ woold tate prostate, ander of expressing the interest with which I resd the pate this opportanity and the no less instructive discnssion which followed it, at a recent
meoting of the Clinical Society. In this papar the anthor demone strates hy instauces how portions of the prostate might be rowoved by scisors through a snprapubic incision. I am diaposed to think that this, on still further trial, will be found the best way to deal with such cases, for it places the operator in view of thoso projecting masses of degenersted prostato tissue which invariably protrudo towards the cavity of the bladder, and which really are the eanse of the distressing aymptoms of irritation which accompany them. Care, borrever, will be necessary, ns I have just urged, in the selection of cases for operations of this kind, it being distinctly understood that they are undertaken, not becanso tho prostate is large, but because it has inducel symptonis which cannot be alleviated in any other way. Yeu may remove the prostate entirely, hut this necessarily renders tho indiridual incontinent for life. Lobulated masses procoeding from an hrpertrophicd prostato and isolated fibromas in the part, may thus bo dealt with with permanent advantage; but this is a very liffercat thing to extirpating the prostato in its entirety, or serionsly mntilating the mnsenlar riog, which under all circumstances is essential to the integrity of the bladder as a urine holder.

The following instance, which I will briefly relate, snbstantiates the proposition with which 1 opened this lecture; and, as it similarly bears upon the operative point now ander consideration, I may consistently close my remarks with it.

In August, 18S2, a patient, aged 64, came under my care with symptoms of primary carcinoma of the prostate, which caused bleeding, continuous pain, and irritability of the bladder. As no treat. ment afforded relief, I did a free median cystotomy, and procceded with may finger and a blant gouge to enucleate the prostate and the growth connected with it. In this I succeeded, with the exception of a emall portion in front, which I could not get away. There was vory littlic bleoding, and the patient made a good recovery, though he lost lower of retaining his urine. Some degree of retentive power eventually returned, bnt it became necessary to provide him with an apparatus for controlling tho incontinent escape of urine from the blalder. Ife lived for forrteen months after the operation, and was ahlo to return to his work as a stevedore. He eventually died from a recnrrence of the disease in the glands of the groin. I ehowed the specimen of what was removed at a meeting of the Royal Medical and Chirurgical Society, in connection with a discussion bearing upon tho sabject.

## A FURTHER INVESTIGATION <br> THE SO-CALLED HENDON COW DISEASE,

## - RELATION゙ TO SCARLET FEVER IN MAN.

Abstrated from a Report to the Agricultural Department of the Privy Council, raad before the Puthological Socicty, January 1 Ith, $18 S 8$.

BE Proressor EDGAR CROOKSHANK, M.B.,
of the Baeteriological Laboratory, King's College, London.
Dessiption of the Streplococcus isolated from the Ulecrs of the Teats. DMermination of the Species: Streptococcus Pyogenes.-Acule Ab. sersses: Distribution of Streptococeus Pyogenes.-Nature of Con. ivjium undetermined in the Exanthemata.-Post-mortcon Appear. anc's in the Itendon Cows. - Post-mortem Appcarances of Couts from Willashre-Post-mortom Appearances oj Inoculated Calves.-Sum. man!.
At a special meeting of this Society 1 laid hefore you the results of an investigation which, though admittedly incompleto in aome dotails, enabled mo to bring forward evidonce to show that the theory that a certain eruptive disenso of the teats of cows at Ifendon was tho very disease which we call searlet fever in man could not be maintained. That was the object of my commanication, while as a side isaue-which I, nevertheless, regarded as of grenter interest than the overthrow of tho above-mentioned theory-1 brought forward evi-
donce to show that this disense was in reality donce to show that this disease was in reality cow-poz. I was anxious that these conclusions should bo made koown mithout relay, partly to allay the public anxiety, and partly becanso I wanted to give
overy opportunity for my statemonts to be examined. Thus I wished overy opportunity for my statemonts to be examined. Thus I wished to afforl anyone interested in the matter an opnortunity for visiting the farms whilo the details were frosh in the memory of the milkers,
and before the disease had totally disanpeared from among the cowa.

I pointed out that the study of the streptococcus which I had isolated was not yst ccmplotod. I had yot to study tho effects of inoculation, and I was thereforo only in a position to say that this strepto. coccus corrosponded morinologically and on coltivation with the socalled scarlatins streptococcus. I inclined to the belief that these organisms woro identical, not only with each other, but with certain othor organisms which had becn regarded originally as distinct species.
I promised furthor investigation on these points, and I also stated thet I thought 1 should find in a cale at tho Rojal Yeterinary Colloge the post-mortem appearances which had been described by Dr. Kloin. This animal showed symptoms of septicemia, and has now been killed and carefully examined. 1 mill therefore proceed to lay before you the details of these and of further inquiries in connection with this suhject.

I desire to lay this further evidence before yon, so that you may be concerned to-night in discussing the identity of the disease I have investigated with the diseaso which has been fully described clinically and pathologically by Dr. Cameron and Dr. Klein, and the micropathology of whieh has been so fully illustrated by Dr. Klein in a very extensive series of lithographed plates.

Description of the Streptococcus inolaten from the Ulcers of tirs Teats. - I will firat describe more in detail the chain-forming micrococcus which I found in the discharge from the ulcers.

The individual cocci are small spherical cells with a special tendency after fission, for the resulting elements to remain attached to each other, forming chains or rosaries. There may be a fert, three or forr, elements linked together, or a number of individuals forming straight or serpentine chains. The size of the individual elements is not almays equal, here and there in a clain a larger element appearing.

In plate cultivations the appearances of the colonies are not very striking. They appear to the naked eye, after three of four days, as extremely minate, greyish-whito, translucent dots, which, under the microscope, have a slightly sellowish-brown colour. They are finely granular and well-defined. They do not lipucfy the gelatine, and after weeks do not exceed the size of a pin's head.

If the surface of gutrient gelatine solidified obliquely is traced over once or twice with a platinum needle, bent at the extremity into a little hook charged with the micrococci, a ribbon-shaped film develops in tro or three days at $18^{\circ} \mathrm{C}$. This film is composed of minute greyish-white translucent dots or droplets, which can be more easily recognised rith the aid of a pocket lens.

According to the number of organisms seen on the jelly, the dots or colonies may be completely isolated or form a more or less continuous
film. This film by reflected light has an iridescent appearance like mother-of-pearl, but has a bluish or bluish-grey tint by transmitted light, and with a pocket lens appears distinctly brownish.
The gelatioe is not liquefied, and even after several weeks the cultivation is limited to the inoculated area and the individual colonies are not larger than pins' heads. Cultivated on the obliquo snrface of nutrient agar-agar at $37^{\circ} \mathrm{C}$. the growth is very similar, torming a film composed of minute dot-like colouies like grains of sand. But the film appears less transparent, is whiter, and the colonies have a greater tendency to get irregular in form. If inoculated with one tracing of the uecdle the growth is scanty, but tends to get thicker in the centre than towards the margins, which may have a terraced appearance.

Inocnlated in the depth of the gelatine there appears after a day or troo at $18^{\circ} \mathrm{C}$., a thread-like growth along the track of the inocalating needle. This delicate thread is fonnd on examination with a pocket lens to consist of a linear series of extremely minute granules. In a few days moro the beads or granules become more marked, but oven after weeks the cultivation only appears like a string of minnte white compact globnlar masses or graina. In broth at $37^{\circ} \mathrm{C}$. the cocci in trenty-four hours creato a turbidity, and gradually derclop chains rarying in length according to the age of the cultivations. Even in
fort $\begin{aligned} & \text {-eight hours there may bo chaing of } 8,10 \text { or } 20 \text { elements. After }\end{aligned}$ forty-eight hours there may bo chaing of 8,10 or 20 elements. After a few days the gromth settles down at the bottom of the tube in the form of a white deposit, while the supernatant liquid becomes clear again.
Cultivated in milk at $37^{\circ} \mathrm{C}$., they convert it in tro or threo daya into a solid mass, while uninoculated control tubes remained liqnid. Inoculated subcutaneously in the ear of rabbits, they produce in two days an inflammatory thizkening, with crysipelatous redness, and without suppuration.

Dftrpmination of the Species: Streptococces Progenes.From its microscopical appearances, its characters on cultivation, and its offect on animals, it is obvious that this organism is iden-
tical in every respect with the streptococcus found in acute abscesses by Ogston, and stadied more minutely and named streptococcus pyogenes by Rosenbach. For some time my attention has becn
drawn to the probable iuentity of the organisms described in puerperal fever, messles, searlatina, diphtheria, with the chain-forming micrococcus in pus, and I find that, indcpondently, bacteriologists on the Continent have not only considersbly extended that idea, but have ceme to definite conclusiens. Formerly, certsin differences in the result of inoculation of animals were regarded as establishing a distinction of species; but further researches have shown that often these differences are not constant, and moreover, in the history of the well-known pathogenic organisms we meet with different effects yroduced by one and the same species. Indeed, we find that the pathogenic effect depends upon several conditions, such as the source of the micro-organism, the dose, the mode and place of infection, and the nature of the inoculated soil. The principal method of sttenuation of virus depends upon the fact that by passing orgenisms through different animals, they assume different properties. Thus, anthrax bacilli from sheep are fatal to sheep, but if passed throngh mice produce a transitory illness. The microbe of amine-erysipelas passed through pigeons is increased in pathogenic power, but by passing through rabbits is progressively diminished, producing only a mild disease. But not only is the pathogenic effoot different, but the arganism itself may be altered. Thus, according to Huber, anthrax bacillif from the guinea-pig are thicker than when they are derived from the mouse or sheep, and the latter are thicker than in the rabbit.

Even the streptococcus crysipclatis of Fehleisen, which at first was regarded as quite a distinct species, has been identified by many German authorities with the streptococcus pyogenes. Similar in their micro scopical features and their characters ou cullivation, Baumgarten does not consider it beyond the limits of possibility that they might differ in their effects on inoculation, according to the condition with which they bad been associsted. Thus, when derived from suppuration, there might be a tendency towards the development of au inflamma. tion accompanied with the formation of pus; and when derived from erysipelas, there might be a tendency towards the formation of an erysipelatous inflammation without suppuration; while under other conditions the organisms might lose their pathogenic properties altogether. But apparently there is no louger even this distinction, for these differences after ineculation have been minimised by recent re searches. I will give further-details of these investigations directly, and I will now proceed to enumerate the varions diseases and conditions in which the Continental authorities principally bave arrived at the conclusion that we have to do with one and the same microorganism.
Distribution of Streptooocctis Progenes.-Acutc Abscosscs, -I have already mentioned that a chain-forming micrococcus mas first described by Ogston in acute suppuration. It was later studied by the methods of cultiration introduced by Koch, and named by Rosenbach streptococcus pyogenes.' According to Flugge, after sub. cutaneous inoculation of mice with a small quantity of a cultivation, there is no result in 80 per cent. of the animals experimented on, Sometimes there is limited pus-formation at the seat of inoculation, sometimes the animals die without any very striking pathological appearances.
Erysipelas.-In orgaipelas Fehleisen isolated a streptococcus and described the appearances on cultivation. Fehleisen regarded the organism as quite distinctive, with special characters on cultivation ; but Rosenbach pointed out the extremely close resemblance in every respect to the streptecoccus pyogenes, though he described an apparent difference on cultivation on nutrient agar-agar. Furthcr investigations, however, by other ohservers showed that these organissus could not be distinguished with certainty, either by their morphological appearances or by their characters on cultivation. Moreover, the marked differences which have been desicribed after inoculation were not obtained by those who repeated the experiments. Passet found that the result of inoculating streptococcus pyogenes in the rabbit's ears induced a very similar condition to the result of inoculation of streptococcils cry. sipelatis, and both organisms, by subeutaueous inoculation and by inocnlation in the cornea of rabbits and other animals, induced results without any constant difference. Passet showed that the iuocalation of the cornea produced the samo form of keratitis. Hoffa and Hajels described minute differences at the seat of inoculation, but Biondi and Eiselsberg repeated the experiments, and failed to ostablish the slleged differences. Baumgarten also investigated this subject, aud failed to prove any esseutial difference, and iudeed found much more often than might hare been expected trom the publications of previous
authora that no marked result at all was obtained on inoculation; and he concluded that strentococcus pyogenes and streptococcus erysipelatis in their form, cultivation, and their effects on animals were identical.' Thns Passet, Biondi, Eiselsberg. Baumgarten, and Fränkel have definitely accepted the identity of the streptococcus associated with ouppuration, and the streptococcus ssseciated with erysipelas.

Spreadiny Gangrene.-From a case of spreading gangrene, which was identical with Ogston's erysipelatoid wound gangrene, and re. garded by him as the most intense and dangerous form of erysipelas, Rosenbach obtained pure cultivations of strentococceus pyogenes by incising the skia of the limb, and inoculating tabes from the tarbid reddish flluid which cscsped. That the streptococcns was identical with streptococcus pyegenes was ascertained by comparison of the mode of growth, and of the effect on animals with a cultivation derived from pus.

Surgical; Fever.-Eiselsherg proved the presence of strcptocucous pyogenes in the blood of sereral cases of surgical fever in Eillroth's clinic. The organism was identified by cultivation.

Puerperal Fever.-Fränkel isolated from puerperal septicemia a streptococcus, which he called streptococcus puerperalis; he identified it with streptocacecus pyogencs. Winkel obtained a pure caltivation of a streptococcus from the blood of the heart in a case of puerperal
peritonitis peritonitis. It produced erysipclatous reiniess wher inoculated in the rabbit's ear, and in form and in cultivation was similar to stroptococcus crysipelatis. Cushing found that streptocaccus pyogenes was associated with puerperal infection. The cocci were found in endometritis diphtheritica as well as in secondary puerperal inflammation. These observations were confirmed by Baumgarten, and there can be little doubt, from the description, that the streptococcus isolated from puerperal fever by Dr. W. R. Simith, which is regarded by Dr. Klein as a distinct species of st:eptococcus, is the same organism as the one proviously found by the observers just named, and, if so, it is only another manifestation of streptacoccus pyogenes.

Puerperal Mastitis. - In puerperal mastitis Bumm isolated the streptacoccus pyoyentes.

Diphtheria.-In three cases of typical diphtheria Löfler found a streptococcus. He isolated it by caltivation, found that it mas similar in form, characters on cultivation, and effects after inocn 1ation, with Fehleisen's streptococcus of erysipclas. Lö̈fler mas not inclined to regard them as identical, because Fehleisen never found his cocci in the blood vessels. Flagge named the organism stireptoeoccus articulorum, and states that, atter subcutaneous inoculation or injection of a cultivation in mice, a large proportion of the animala die, and in the sections of the spleen and other organs the streptococci are again seen. Baumgarten investigated the same subject, and decided that the streptococeus was streptococcus pjogencs.
Scarlct Fever.-Crooke, in cases of searlet fever with severely affected throat, found bacilli, cocci, and streptococei in the organs of the throat, and cocci in the internal organs. Crooke left it an open question whether these cocci were the specific organisms of scarlet fever, or to be regarded as diphtheritic or septic associates. He inclined on clinical grounds to the latter rier. In cases of scarlatinsl diphtheria Liftler found the same chaiu-forming microcoscus which he had found in typical diphtheria. Babès was able constantly to prove in inflam. matory products secondary to scarlatina the presence of a streptococcus greatly resembling that in pus. Heabner and Bahrdt, in a fatal case of scarlet fever in a bey, complicated with suppuration of the finger and knee joints and with pericarditis, found a streptococcus ilentical in form, from the description, with streptococcus pyogenes. Cultirations were not made. The secondary affection atarted from the diphtheritically affected tonsils, which were followed by retropharyngeal abscess. Fränkel and Freudenberg examined for microorganisms three cases of scarlatina with well-marked affection of the throat. In all three cases they obtained cultivations of coccif from the submaxillary lymphatic glands, spleen, liver, and kidney. These cocci could in no way be distinguishce from streptococcus pyogenes derived from pus ; nor from the undoubtodly identical streptococcus Which one of them (A. Frïukel) had already repeatedly cultivated tococcus unubers from pherperal affections. In two of the cases strep. it was far in excess of only organism present, and in all three cases ganisms were also found in sections of the organs by microsconical exauniuation.
The identity of this streptococens with strentoceccus pyogones and streptocococes pucrpuralis was established by comparison of their macroscopical and microscopical appearances in cultivations on nutrient agar-agar, nutrient gelatine, and in broth, both at the ordinary and concluded ther itures, and also by experiments on animals. They concluded that it could be stated with certainty that the organ:
isms in question did not stand in csassal relstion to scarlet feser.
They consider that snacial methods of microsconical and biological research were apparently ncedel for demonstrating tha true searlet fever contagion, which probably was especially present in the skin.
They consider that the preseuce of the streptococcus was due to a secondary iufection to which the door was opened by the lesions of the throst, a view which was supported by the fact that the organisms were found in the aubmaxillary lymphatic glands.
They preferred to uso the teim "secondary" to "complicated" or "combinel" infection, because this cxpresses the fact that by the effect of the scarlatinal virns the soil is readered suitable for this abiquitous microbe, when it has once gained an entrance.

From the blood and desquamation of scarlet ferer, Dr. Edington cultivated a streptococcus, which ho aamed provisionally streptococcus rubiginasus.

Dr. Klcin examined eleven cases of scarlet fever. In ten of them the tonsils were ulcerated, and in many soverely. Frem five cases, from four during life, and from one after desth, with ulcerated throat, a streptococcus was isolated-in one case in company with staphylococcus anreus. Dr. Klein regarded this chain-forming micrococens ss tho contagiom of scarlet fever, and named it the micrococcus scarlatinc. The Edinburgh commission regarded Dr. Klein's atreptococcus as identical morphologically with tho streptococcus rubiginosus, and Dr. Woodhead suggested that it was identical with the streptococcus pyogeres. In a specimen of tinned milk which had lieen suspected of containing the contegium of scarlet fever, Dr. Klein isolated a streptococcus, which he regarded as identical with the streptococcus from the ecarlet fever cases. If the organism is identical with the strentococcus of scarlatina, it is obvious that improperly preserved milk is another source of the strcptococcus mogenes. From the blood of a monkey, which Dr. Klein roceived two days alter death, a streptococcos was isolated, which corresponded with the streptococcus from the Hendon cow disease, from the scarlet fever cases, and from the tinued milk. This monkey died in a house where scarlet fever had occarred.

From the presence of this streptococcus and from the anatomical condition of the viscera, Dr. Klein regarded as without doubt the unity of this disesse with acute scarlatins. The post mortem appearances, however, were from description the post-mortcm appearances of senticamia, which sre common to many diseases besides scarlet fever, and the streptococcus, which can only be regarded as the strcptococcus pyogenes, may hare been either the result of septic infection secondary to some undetermined disease, or it may possibly he accounted for by the animal not being examined earlier than two days after death.
So called ITendon Cono Diseasc. -In the disease which Dr. Klein calls the Hendon cow disease a streptococcus was isolated which is identical with the streptococens from scarlet forer. The Hendon cow disease was regarded as scarlatina in the cow, and the streptococcus as the micrococcus scarlatine. From the nlcers of the Wiltshire disease I have isolated an organism identical with the description of Dr. Klein's streptococcus. I regard this disease as cow-pox, and the organism as identical with the streptococcus pyogenes.

Vaccinia, -In rsccine lymph, Cohn and others hare recognised the presenco of micro-organisms: Guttman and Pfeiffer have separated the different species by Koch's methods. Guttman found: (1) micrococcus pyogenes sureus; (2) staphylococcus viridis flavescens; (3) staphylococcus cereus albus. (Syn. micrococcus vaccinie, Cohn, Voight, Garré). Dr. Klein has isolated a micrococcus which he calls streptococcus raccinir, and which he ststes is identical with one of Guttman'a cocci. But tho streptacoceus pyogenes may occur in vaccine lymph, and Pfiffer regards it as the result of contamization. Hence it is anggested that before calf lymph is employed for vaccination it should be testel on a rabbit's car. If in two days no rash bas been produced, the possibility of the presence in the lymph of streptococcus pyogences or erysipelatis is excluded. The natare of the contagium in vaccinia as in scarlet fever is unknown.

Varioka.-In tho pustules of variols Hlava has established the presence of strcptococcus myogenes, and Garre found streptococci in the internal orgsns in a case of variola hæmorrhagica.

Farioke and Pemphigus. - In a fatal caso of variols complicated with pemphigus, Garré found a streptococcus in the pemphign z vesicles. Whether it was ideutical with streptococrus erysipelatis Garré left an open question.
Foot-and-Mouth Discase-In 1868 Professor Brown figurel a streptococcus in tho milk of cows affected with foot-and-month disease. From the resiclea of this disease in sheep. Dr. Klein isolsted a strentococcus which he regarded as the contagium of the disease. From Dr.

Klein's description of its morphological features and characters or cultivation it closcly corresponds with streptococeus pyogeres. Mr. Watson Chegne investigated the same disease, and informs me that be also isolated a streptecoccus, which he concluded was streptococcus pyogencs. Paumgarten also regards Dr. Fílein's alleged contagium as most probably the streptococcus pyogenes. Against the fact of this organism being the virus of this discase, and in favonr of its being streptococcus pyogenes wo have the results of inocnlation experiments. A great number of subcutaneons inoculations in sheep were withont any result. Ouo of several gninea-pigs fed with tho organism had an abscess, another an ulcer. In shece fed with the organism two out of nine, after a namber of repeated administrations, dereloped a disease regarded by Dr. Klein as foot-and-mouth disease. There is the possibility of two fallacies: one that tho disease, if really foot-andmonth disesso, may bave occurred spontaneously; tho other that the result which occurred may have been a sparious form of foot-andmouth disease. The control experiment of exposing a namber of sheep with these two sheep to see if the disease spread was wanting.

Cattle Plague.-Semmer cultivated streptococci from the blood and Ismphatic glands of a sheep with this disease. A calf inoculated with a cultivation was stated to have died in seven days from cattle plagne. The cocci wera stated to lose their viralence by successive cultivation, and the weskened cultivations to protect against tho virulent disease. I think it extremely likely this was another manifestation of streptococcus pyogenes, and that the animal died rery probably of septic infection. Dr. Klein is also of opinion, in spite of Semmer's statements, that the specific nature of these micro-organisms cannot be considered to be established.
Swine Ferer.-In a severe case of this disease with well-marked intestinal ulceration I have obtained from the blood of the spleen a nixed cultivation of streptococci and other organisms. Isolation and cultivation in the pure state are not yet completed. It was very probably mixed infection with streptococcus pyogencs.

Yellow Ferer.-Babès obsersed the presence of streptococci in the vessels of the kidney and liver in sellow ferer. Cultipation experiments are wanting. It was probably secondary infection with streptococcus pyogencs.

Fievore Bilicusc Tuphoide.-Babès, in a case of this disease, found masses of streptocci filling the ressels of the liver, kidney, and spleen; probably anotber instance of secondary infection with streptococeus pyogenes.

Measlcs. - From the blood and from inflammatory post-products in measles Batès isolated a streptococcus, which he describes as closely resembling the streptococcus pyogencs.

Endocarditis. - Wrssokowitsch found cocci in the internal organe in ulcerative endocarditis, and produced the disease in animals by injection of streptococcus pyogenes and other organisms after injury to the ralves. Weichselbaum, by microscopical research and by cultivation experiments, proved the presence of streptococcus pyogcnes in acnte rerrucous endocarditis. Banmgarten confirmed this. IIe found streptococcus pyogenes alone in one case, snd accompanied by staphylococcus aurcus in another.

Typhoid Fever. - Senger found a streptacoccus in a case of typhoid with secondary infection. This was probably streptococcus pyogenes, for Dunin foand in post-typhoid suppuration the well-known ryogenic organisms, mostly as staphylococci, but sometimes streptococci.

Pncumonia.- Weichselbaum found the streptococcus pncumonice, Which resembled streptococcus pyogenes and erysipelatis morphologically and on cultivation. It was feand in twenty-one cases by microscopical rescarch, and cultivated in nineteen. It had no effects on the rabbit's car. Baumgarten nevertheless regards this as streptococeus pyogenes, and is of opinion that it is only a matter of furthor research to cetablish thst view. In prenmonia after typhoid, Noumann found strentococci by microscopical research in tho lungs, and by cultivation isolated a streptococcus. It corresponds with Weichselbaum's streptococeus in not affecting tho rabbit's car.

Empyema. - Rosenbach obtained a pure cultivation of streptococcies myogencs in a case of empyema. Wechselbaum in two cases also estallished its presenco.
Broncho-pnermonia.-Thaon found chain cocci in tho lungs of childreu in fatal cases of broacho-preumonia, complicating messles, diphtheria, and whooping.cough. They wero regarded as identical with the streptococcus isolated by Löfllcr from diphtheris. Fränkel discovered a streptococcus in the lungs of a case of true croup complicated with broncho-pneumonia, and by cultivation established its identity with streptococcus pyogenes.
Progressive Tissuc Necrosis in Micc.-Koch produced a diseaso in mice by subcutaneous injectior of putrid blood. In tissue sections a chain coccus was fonnd, and Bumgarten is of opinion that it is very pro-
bably identical with the streptococcus pyogenes, but cultivations are still wanting.
wasning.
Septicemia Consecutive to Anthrax. - Charrin found cocci in rabbits, examined aome hours after death from anthrax. These when isolated produced desth in rabbits from septicemia without supparation. Chains composed of fifteen to twenty elemente were found in all the organs. This was probably another instance of streptococcus pyogencs.
Pyemia and Septiccmia.- Rosenbach examined six cases of pyxmia. From Case No. 1 cultivations of streptocococus pyogenes were obtained from the hlood of the patient during life. The blood was stroked over the surface of the culture medinm, and in two tubea the staphylococcus pyogencs aureus was also present. In Case 2, with suppurative pleuritis, the pleura was tapped during life, and cultivations of streptococcus pyogenes were obtained. In Case ${ }_{3,}$ streptocecci were found in the metastases in the kidness, and in the other supparations that were examined.

In Case 4 the pleura was opened daring life, and streptococcus pyogenes, associated with staphylococcus pyogenes aureus, was cultivated from the fluid which escaped. In Case 5 pure cultivations of streptococcus pyogenes were obtained from pas from the knee, which was punctured during life. This case was one of erysipolas and pywmis after removal of carcinema of the breast. In Case 6, a case of whitlow, with metastatic sbscesses, the patient reeovered, and no streptococci were found. Thus ia six cases of metastatic pyemia streptococcus pyogcnes was found five times, partly in the blood and partly in the metastatic depesits, and twice in compsny with staphylococcus
myogencs aurcus. Baungarten also found the stroptococcus pyogenes in pyogencs aurcus. Baunngarten also found the strcptococcus pyogenes in
the internal ergans in pyemic cases, and Eiselsberg found strcptococus pyogenes in company with staphylococcus pyogenes aureus in the blood of cases of septicermia.
Congenital Syphilis.-Kassowitz and Hochsinger found the presence of a stroptococcus in the tissues and internal orgsns, and especially in the blood ressels, in fatal cases of congenital eyphilis. These observers regarded their discovery as having an important bearing on the etiology of syphilis, but kolisko pointed out that it was only the result of septic infection with presence of streptococcus pyogenes, as had already been established in scarlet fever.
Idiopathic CCrebro-Meningitis, - From the meningeal exudation of a case of apparently idiepathic cerebra-meningitis Banti found by Koch's methods the presence of streptoccocus pyogencs, staphylococcus aureus, and albus. The cocci probably entered through an abscess of the jejnnum.
Blepharadenitis and Phlegmonous Dacryocystis.-Widmark isolated by cultivation, streptococcus pyogencs, and other organisms from these diseases. In phlegmonous dacryocystis Widmark found streptoceccus pyogenes almost exclusively.
Fatal Case of Leukicmia.-Flugge cultivated a streptoceccus from necrotic patches in the spleen of a fatal case of leukremia. Cultures corresponded very closely with streptococcus pyogenes. Inoculation in two rabbits' ears produced similar results to strcptococcus pyogenes, or
crysipelatis. Flugge called it streptococcus pyogenes matignus, but crysipelatis. Flugge called it streptococcus pyogenes malignous, but concludes that it is probably identical with the streptococcus trom pns.
Earth. - Nicolaier, and later Guarneri, isolated a streptccoccus froms soil. Mieroscopically it could not bo distinguished from other streptocecci. Banmgarten is of opinion that it is neither in form nor in cultivation to be distinguished with certainty from streptecoccus pyogcres.

Air.-Emmerich sncceeded in proving the presence of chain cocci in the air of a hospital where erysipelas had broken ont. These cocci in their form, their claracters on cultivation, and in ineculation results, were identified with the streptocoecus erysipelatis.
Various Rotting Substances.-Baunıgarten states that in the mest various substances undergoing putrefaction streptococci are always found, which morphologically are exactly similar to the streptococcus erysipelatis. Baumgarten, therefore, regards it as quite pessible that the str-ptococcus crysipelatis, or pyogenes, is essentially a sapropbytic organisur, that is to say, an organism which may be found wherever
there is decaying orgaoic matter, and that its parasitism is only there is decaying organic matter, and that its parasitism is only incidental.

Nature of Contagum undetermined in the Exanthemata. I think, therefore, that the results of these numerous investigations constitute a mass of evidence in support of my opinion that in a disease which is accompanied with a lesion of the skin or mucous membrane, and in which the blood and tissues sre profoundly affected by the virus of that diseasc, micro-erganisms may gain an entrance into the circulation and escapo destruction.
The cccorrence, therefore, of streptococcus pyogencs in diphtheria, scarlet fever, vaccinia, variola, measles, typhoid, etc., must be re.
garded as a secendary result, and associated with septic or psremic complication-and I am forced to the conclusion that, excepting negative evidence, bscteriology has not assisted us in the least in the determination of the real nature of the morbific agent or aotual contagium of the exanthemata.
That thereare certain diseases which are due to micro-organisms is, I am sure, accepted by all modern pathologists, but $\begin{aligned} & \text { ee are far from }\end{aligned}$ having solved the nature of the contaginm of all communicable disesses. In many cases, ss in hydrophobia, where bacteria have been esses. $h$ formard as the specific agents, they have been gradually eub. stituted by the less defnable term virus. Misapplied bacteriology will be both misleading and mischierous, and this criticism is applicable if a micro-organism is maintained to be the actual contagium of a disease, such as scarlatina, in the face of obvions fallacies and withont affording the evidence which is usually regarded as necessary for admitting a caasal connection.
Post-mortem apprarancrs in the Hendon Cows,-A great deal of importance appears to hare been attached to the post mortem appearances which were found by Dr. Klein in the original Hendon disease. This is all the more surprising inasmuch as it was presumably not only a non-fatal form of scarlatina, but of such a very mild type that, according to Dr. Klein, neither feeding capscity nor milking power was affected, nor was the body temperatare abnormal. Putting aside the danger of coming to conclusions from two post mortem examinations, I will pass on to quote folly what the post-mortem examination of these two corss revealed.
In cow 4, killed January 9th, we read as follows :-
Nukied Eyye Appcarances of Cow 4-"O O opening the chest, it was found that both lungs exhibited on the upper posterior lobes numereus petechix under the pulmonary plenra, the peripheral lobules of these parts being much congested. There rere numerous adhesions by recent soft lymph between the lower lobes of the lung and the costal pleura, particularly laterally. In the liver there were several reddish streaks and patches reaching from the surface of the organ to a depth of about a quarter of an inch. In these patches the liver tissne was much softened. The spleen and kidners, with exception of slight congestion, appeared normal. In the placenta there were numerous petechix.
Microscopical Eicamination of Internal Organs of Cown 4. -" Lurag. -Sections made through the portions above mentioned as containing much congested lobules show not only grest congestion of the blood vessels, large and small, but a large amount of hæmorrhage; blood in substance being present in the air vesicles and infundzbula, in the lymph spaces of the interlobular septa, and in the tissue and lymphatics of the pleura.
"Liver.-Under the capsule, as well as in the substance of the liver, there occur in conncetion with the interlobular branches of the portal vein, larger and smaller foci of inflammation, consisting in the presence of numerous round cells. Some of these foci are several millimètres in dian.eter, others are very small. From the interlobular tissue the inflammation extends into the lobules between the liver cells. The liver cells of these lobules involved in the in flammatery process are swollin up, and many of them are undergoing disintegra. tion. In some of these foci, particularly those sitaated in the vicinity of the capsule, the round cells are so much crowded that given foci look almost like miliary abscesses. The blood vessels are mach distended and filled with biood.
'Kidney.-Sections showed well-marked glomernlo-nephritis, infiltration of the sheath of the cortical arterioles, with numerous round cells; the epithelinm of the convoluted tubules swollen, opaque, and, in many places, disintegrating.'
Naked-Eye Appearances of Cow 3. - "In the lungs there were numerous lobules, especially in the pcripheral parts, which showe great congestion ; there were, in addition, pleural adhesions; the cortex of the kidney was cengested, but its medulla was pale."
Microscopical Apparances. - "The lnngs snd kidneys showed, ru microscopic examination, the same appearances as in Cow 3 ; in sudition, there was a good deal of round cell infiltration in the wall of the infundibnla aud brocchi in the lung and around the arterioles iu the kidney.'

Such post mortcm appearances can bardly be regarded as of primary importauce. At most they are suggestive of some coincident atection. In both the description of the naked-eye appearances suggests pleurisy, or possibly sorut pleuro preumonis. The microscopical appearances in both arc suggestive of septic poisoning.

Posthomtem Appenrances of Cows from Wiltshire.-I have already mentioned that a cow from the outbreak which I investigated in Wultshire Nis sent to the Brown Institu‘ion. Having duly receiveld
aotire of the yost inortem examination, I accompanied Professor Brown; and inlemnch as there was no suspicion of nay disease complieating the eultive disease of the teats, it was not aurprising to find that nakell nye appraraaces at the post-mortem examination wore practically nemstive. All that could he notod of the viscera was as follows: pe. tockin on the spleen; liver, a few whitish irregular apots; falty patches on suriace of the cortex of the kilney.

I have already mentioned that there was an nonsual condition of utceration in this cow, and milking laal become a matter of great diftimuly to inexperieacod hauds. The resalt was that after the cow had treen at the loyal Vetcridary College, tho nddor became enlarged, and the teats red aud 9 wollen. At tho past mortim examination an iacision into the udler revealed an enormons abscess.
At the post-mortern of Com 2, which was also sent to Dr. Klein, there was a somewhat similar condition, and the visceral changes कere negative.
I I shall refer to tho cxamination of the ulcers of these two cows later, but it is inturesting to ohserve that microscopical sections of the kidner of the wiitshire cow No. 1 revealed a similar condition to that fonnd in the kiduey of Dr. Klein's Hendon cow.

Microsopical Examination of Kidney of Willshire Cow 1. -Sections showel glomerulo-nephritis ; infiltrations round lowman's cspsule with sound cells ; infiltration of the sheaths of the vessels with round celis, expecially of the cortex; blood-vessels in the boundary zone of the mednila epgorged; srterioles of the glomernli engorged, and slight hartuorrhages into the eapsule; epithelium of the convoluted tubules gratular, opaque, and in some parts breaking down.
Inasmuch as sections of the kidney of com No. 1 (Wiltshire) show similar appearance to those in sections of Dr. Klein's Hendon cow No. 4, the sppearances in the latter can hardly be regarded as a aecessary indication of the disease being scarlatina in the cow.

Microscopical Appearances of the Ulecrs of (Hiltshire) Cons 1 and 9. -Cow 1: Scctious of a portion of the spreading nlceration of the teat, showed only a saperficial uleerstion, not extending far into the depth of the tissuc. There were marked hermorrhages in the coriun. These appearances were sowewhat different from the apmsarances in sections of a circumscribed ulcer from a teat of Wiltshire) com 2.
Sections of this ulcer also show infiltration of the corium with round cells, but the ulceration extends deeply into the tissue. There are spaces of carities in the stratum Malpighii, especially in the superticial layers. These spaces are empty or filled with granular matter and round cells, and are separated from one other by trabecula. In short, it may be said that the appearavces under the macroscope compared side by side with Dr. Kleiu's illustration of an ulver frem a IIendon cow (Platex, fig. 12) are so strikingly similar, that Dr. Iilein's illastration looks as if it might have been drawn from a section from (Wiltsbire) cow 2.
It is intereatiog also to note that Dr. Klein states that appearances of microseopical scetions of ulcers of the Mendon corrs "recalled vividly the coudition abserved in the vesicles of car-pox."
l'ont mortes Apreabasces of Inoodlated Calyes. - Though the prast-morton appearances in tho Hendon cows cannot be regarded as throwiug much light apon the question, this is not the case wheu wo come to examino the post-mortem appearances of ealves inoculated With the acrapiog of an ulcer or with cultivation of the streptocoscus from cases of scarlatins. Thess post-morlem appearances are very striking, but they canuot bo regarded as characteristic of scarlatina; they are in reality the post-mortem appearances of septic infection, and commod, therefore, to many diseases. For example, let us tako the case of Calf No. 1, which was inooulated i:t the skiu of the groin sul the belly with a aubcnlture of streptococci from the blood of a seatlatisal patient. This calf reas killed, sud the post-mortem sppearaneas were as ful)ws:-

The lymphatic glands of the groin much congested and swollen, sorme of them dark red, almost black. Similar appearances were fonnt in some iymph glands in the subeutancous tissues of the throat, and in the pelvis; in some, also, of thoso along the aorta and vena cara, in the broachi, and io the anterior mediastinum, along the erachea, and alung the stomach and mesentery. Maoy of these glands wito either partially or wholly of a dark red colour, when cut into blowly thuid easily oozed out. Those that were not dark red were soft and juicy, and clear thuid oozcl from them when cut into. Some of the dark red, alanost black glands-for examplo, some in the bronchi, the glands alogg the aorta and rena cara, and in the pelvis-were not larger than a pea, others as large as a bean, and up to the eizo of a Waluth Sections exsmined under the microscope showed a large smount of blood cffused en masse into tho cortical and medallary

1ymph sources, and into the tissue of the lymph follicles of the cortex, by which tho adeuoid tissue of theso latter had become to a great extént destroyed.
loth lungs were congestod in the upper and midule portiona, groups of lobules in the latter being dark red and hepatised and not floating in water. The pericsedial cavity was filled with several ounces of clear liquid; patches of soft psoudo-membranes were found on the roct of the aorta and pulmonary artery, on the wall of both anticles, and particularly along the free margin of the latter. The liver was congested, and showed dark red patches of softened liver tissue. The spleen Wsa enlarged, dark in its sabstance, with numerous petechia in and uaderneath the eapsulo. Both kidneya shoried mach congestion."

The result of microscopical examination of the organs of this and other calvos Dr. Kilein sums up by saying tat the appearances "closcly resembled those found in the viscera of eases of fatal homen scarlatina."
1 will now give for comparison with this account the post-mortem appearances of the calf, which was killed at the Roysl Yeterinary College. This calf had been inoculated in the groin with a scraping from an nleer of (Wiltshire) cow 1. During the second week after inoculation it was very dull, and did not feed well. It had diarrhces for several days, and passed bloody urine. It was noticed that it had a slight cough, which got worse. The place of inoculation was suppurating freely, and there was considerable inflammatory thickening around the seat of jnoculation. The animal ras killed thirty-six dsja after inoculation.
The post-mortcm examination of the riscera was made under the snpervision of Professor Brown and Professor Axe. I have sabmitted the microscopical specimens to Professor Brown. I will now give a detailid ascount.

Naked Eyc Appearances: Lungs.-Upper and middle lobes of esch long adherent to ths walls of the chest; patchy congestion, especially of midule lohe, and patches of recent adherent lymph. Posterior parts of the apper lobes of both luogs were completely consolidated, and on section varied in colour from brick-red to greyish-white. The interlobular tissue was infiltrated with inflammatory products, which mapped ont the tissue of the lung in small induratei areas, in which the tissue was granular looking aud friable. These appearadces in the upper lobes were due to pleuro-pneumonia. Scattered throngh the other lobes of both lungs were white, mostly firm, nodules raised above the level of the surface of the lung. They were surronnded by a zone of congestion, and in some cases sections were composed of indurated, in others of friable, lung tissue. In the posterior part of the right upper lobe there was a recent infarct. Bronchial Glands. The bronchial glands at the roots of each lung were enlarged to two or three times their natural size, and were hard and firm in section. Pericardium. - The parietal surface of the pericardium was covered with recent adhercnt lymph. The visceral sarface of the pericardinm was normal. Aorta.-Along the external surface of the aorta were chains of enlarged lymphatie glands connected by dilated lymphatic vessels. These glands were dark red or purplish in colour, from hemorrhage into their substance. Heart. -The heart was normal and the endocardium not stained. Esophagus. - There were chains of red glands on the œesophagns similar to those along the aorta. Mesentcric Glands. -The sppearance of the mesenteric glands was very atriking. The mesentery was dotted along the lymphatic vessels with glands, varying in size from a large shot to a pea, which were deep red or prune coloured. In addition tllere were here and there enlarged glands, without bmmorrhage into their substance, and greyish in colour. Splecn.-There were scattered petechire on the spleen. Kid. neys. - The kidneys were firm on seetion, and there was marked congestion in both, while it was more pronounced in one kidney than the other. Liver.-The liver was congested, the congestion being more marked in 1 ratcheq.

Microscopical Examination. - Lung. - Sections from the consolidated upper lobes showed thickening of the pleura and infltration with round cells. The cxudation filled the alveoli, and was breaking down in some eases in the centre. The vessels were injected, and there were hemorrhages into the alveoli. The periphety of the lobules was infiltrated with round cells. Kidncy.-Slight infiltration around glomeruli and arterioles; epithelium of convoluted tuber, granular and disintegrating, hemorrhage in straight tubes, aud engorgment of vessels. Liver.-Inter- and intra-lobular vessela engorged; iutratubular collections of round cells displacing the liver cells; interlobular connective tisaue infilerated with round cells ; liver colla granular and cloudy.
Thero can be no doubt from the oymptoms and post-mortem appearances that this calf sulfered from scpticsmia, as the result of introduciag septic matter sabeutaneonsly in the groin; sud the post-mortem
sppearances, excluding the consolidation of the apices due to the coincident pleuro-pncumonia, almost reproduce tha post-mortem appesrances observed by Dr. Klein. That the micrococcus from scarlet fever cases should fail to produce in calves fever, nlceration of the tonsils, or scarlatina rash, or any condition resembling clinically the disease in man, and yet that the result shonld be regarded as scarlatina in the calf, is quite untenable; but I am quite ready to agree with Dr. Kloin that similar lesions may be produced in calves, whether inoculated with scrapings from ulcers, or with the streptococcus from the Hendon cows, or with the streptococcus from cases of scarlet fever. The micro-organism is a septic organism (streptococcus pyogenes); and its inoculation or the inoculation of septic lymph may produce өepticæmia.

Summary. - From the evidence I have addaced, and from the facts that I have described, I am led to the belief that:

1. The arture of the contagium of scarlet fever is unknown.
2. The micro-organism regarded by Dr. Klein as the contagium is the streptococcus pyogencs.
3. Streptococcus pyogenes is found, sometimes in company with staphylococcus pyogenes aureus, as a secondary result in scarlet fever and many other discases.
4. A streptococcus ras first observed in scarlet fever by Crooke, later by Lö̈tler, Heubner, and Bahrdt; but its exact relation to scarlatina, and its undoubted identity with the streptococens from pus and puerperal fover, was definitely established in 1885 by Fränkel sad Freudenberg.

To these I wonld add the following statements :
5. Both the Wiltshire and Headon corv diseases were called cowpox by people on the farms.
6. Both diseases correspond in their clinical history.
7. The ulcers on the teats correspoud in naked eye and in microscopical appearances, and the latter "vividly recall the appearances of cowpox."
8. Calves inoculated from the discharges of the alcers are similarly affected.
9. Post-mortcm examination of such calves, or of calves inoculated with streptococci isolated from scarlet fever cases, show similar appearances.
10. The post-mortcm appearances in such inoculated calves are the resnlt of septicemis.
11. There are no specific visceral chsnges in cow-pox apart from complications or coincident affections.

I proposs to publish shortly the history of the lad shown at the Society, the full detaila of the calves inoculated from the boy, and of cslves inoulated from those calves, the resnlts of revaccination of those calves, and further details from Wiltshire and Gloncestershire.

## RUPTURE OF THE SAC IN THE EARLIER STAGES OF TULAL PREGNANCY, WITH NOTES OF TWO CASES.

Br WILLIAM JAPP SINCLAIR, M.A., M.D.,
Honorary Physician to the Southern Hospital for Women and Children, Manchester.

Case I. Tubal Pregnancy: Sudder Death: Necropsy.-Daring the greater part of 1880 a patient, nullipara, was under treatment for an enlargement of the uterus, with retroversion. In November she did not menstruate, and in December sho had symptoms which saggested pregnancy, but they were very slight, and from tho history and circumstances it seemed an improbable event. On Janarry 1st, 1881, she was tsken suddenly ill, with faintness and pain in the bowels. The medical man who was sent for in the emergency found the chisf symptom diarrhaa with tomesmus. The patient sank rapidls, and when 1 arrived in the evening, in reaponse to a telegram, she was dead.
From my previous knowledge of the casc, on learniug the details of the fatal illness, I concluded that the patient had died of hemorrhage from the bursting of the sac of a tubsl pregnancy. We were permitted to make an examination of the abdomen, and we found it full of blood. There was a tubal pregnsncy apparently of about six weeks' daration; the.ssc was near the middle of the left Fallopian tube, and the orifice, from which blood oozed on disturbing the parts, was on the posterior surface, so that there was a free opening into the pelvis. The uterus contained several fibroid tamoure projecting on the serous surface, the largest of them about the size of a walont. Io cutting through the abdominal ralls, which was done carefully as if in the performance of an operation on the living, we were struck with the
appearance of the blood through the peritoneam before it was ent. As soon as the peritoneum was reached we knew there was blood in the abdomen, because of the black colonr apparently given to the peritoneam by the blood behind it.

It will be noted in the history of this case that the preguancy was not capable of definite diagnosis. It was too early for certainty in almost any case; but in this case there were the previons aymptoms of diseased nterns and disturbed menstruation, the nterus was always enlarged to tha tonch, owing, as was fonnd after death, to the presence of small fibroids. The sonnd was not used after the menstrasl period had been missed, and there was no sort of examination to excite unusual movements of the nterns or tubes for nearly a month before the rupture of the sac.

When the rapture took place, it will be observed that the distarbance set p in the bowals became the most prominont feature in the case, and so obscared the diagnosis that the experienced practitioner who was called in on the emergency concluded that some unusual borrel complication had occurred.

This case made a deep impression on my miod, and I resolved that if ever the opportunity occurred to me, I would operate at once, and endeavour to stop the hæmorrhage by surgical means. It seemed a simple operation, and the only question was how far the bathing of the whole abdominal cavity in blood, which conld not possibly be completely removed, might militate against a successful result. Very fers cases of operation in the early stage had been pnblished at that time, and the proceeding did not seeni so common-place then as it may appear now.
Case ir. Tubal Pregnatcy: Rupture of Sac: Laparotomy: Recovery. -The next case is that of a patient of Mr. Priestley, of Fallowfield, at whose auggestion I had the opportanity of helping in the treatment. She was residing at a distance from home at the time of the rapture of the sac. Mr. Priestley's notes of the case prior to operation are as follows:
" "The patient, Mrs. - betrreen 30 and 35 yeara of age, vii-para, after menstrating regularly for more than twelra months from the birth of the last child, missed two meostrual periods, and was, when the present symptoms commenced, a week past the second. A week after the first missed period there was a slight brownish discharge, which subsided after \& two days' rest on the couch.
"On February 13th, 1887, the patient 'believes she caught cold.' On Febraary 15th, after a hasty tea, she hurried to eatch a train. Hardly was she seated in the carriage when she was seized with a 'sudden terrible pain, paleness, vomiling, and faintness.' She was carried out of the train on its next stoppage, in a fem minates, and conveyed home, when her abdomen was tound to be 'distended like a drum.' The temperature $\pi$ nas normal. On February 16th the pain and faintness continued, and the temperature was found to be $10 i^{\circ}$. She also complsined of mascular pain in the limbs. The pain diminished towards evening, under the influence of sedative medicine. On February 17 th the intense abdeminal pain returned quite snddeuly at 3 A. M, and at 5 A. s. a clot of blood passed by the ragina. More morphine was administered, and the paiu abated towards even. ing. On February 19th, at 3 A. M., four days after the first attack of psin in the sbdomen, the patient was once more seized with intense abdominal pain, and immediately became collapsed and pulseless. Daring the dsy she was seen by Mr. Priestley, and subseqnently by Dr. Siaclair. She had then rallied. The abdomen was mach distended and tympanitic; it was very teader all over, but extremely so beneath the ribs on both sides; there was dulness in both flanks, and in a zone one inch sbove the pubes (horizontal poitinn of the body). The uterus was high np, and its movements were slightly impeded; the left broad ligament was somewhat full and stiff. The cervis was soft, the os exteraum patulous, and a trickling diseharge of blood still continned. The pulse was over 120 , aud very soft ; the temperature was somewhat above the normal. Diagnosis: raptare of a tubal preguancy.

It was determined to open the abdomen st once, snd, if the diagnosis proved correct, to proeeed to check hæmorrbage by surgical means, and remove the orary and tuhe, and, if possible, the orum."
The operation was performed with as much attertion to sutiseptic precsutions as the circumstances of the emergency wonld permit. It seemed tolerably certain that hemorrbago had repeatedly occurred wheo, in the process of rallving, the blood-pressare had reached a certain point, and there was every reason to fear a recurrence, which might be fatal, if we delajed till morning. The operation was, therefora, proceeded with immedistely after our consultation, which was held late on the night of February 19th. The incision was carried as quickly as possible down to the peritoneum, and when this was resched any possible shade of doubt as to the nstare of the orso which migh
have lingered in the mind of anyne present was removed. Althnugh the light was not all that conll he desired, tho presence of a black liquid belum the poritonenun was most ovident. As somn as the peritonenm wis cut, the black blood spurten ont hike the lluid froan a touso monocystic ovarian tumnur when it is wounded. The ame nut of blool *hich tlowel out was encrmalis. It conld not bo masured, merely estimated, sud it would be ensy to exspgerato; but it eermed 10 my colleaguea and myself as if the gunatisy was abeut as great as would be the uhnle amnut of blood in the bady of a herathy woman of tho pationt's giz? When wo renomber thst the blool hat been re-makiug, and burstiag ont to an almost latal extent for funr thay, this estimato may be considured fairly aceurate, When the blond, which was quickly pressed out ly manipulating tho ab lominal walla, ceased to tlow freely, the distension had disalpeared ; the belly was quite llat, Several bandfuls of clots were now clerred ont of the pelvia, and bright arterial blood could then bo secn welliug up rapidly though tho black thaid which remained. Fresh beomerthage had evidently alrcalv began. Tho ruptured ase was found at the extreme end of the right Fallopian tubs, with very sctive hamorrhage going on from its interior. The tube and ovary rera ligature i in the ordiuary way, and removod. No embryo wes ever seen.

There conll the no possibility of wa-hiog awsy all the extravasatod hlood, as it had been evilently bathing every abdominal organ up to the diaphragm. The palvis was emptiel with tha help of sponges, and all the blood within resch was washed out by means of a warm saline solation-common salt in boiled water, $\frac{1}{2}$ per cent. This was ponred from a jug, whilo the intestines withus reach wero gently movad aboat by two fingers of the left hand introduced through tho wound. A considerable quantity of the lluil was left in the pelvis, a larga Kooberlés tube was put in position, and tho abdominal wound was closed in the usual way. As it was anticipated that a large quantity of blood sud sanguineous flaid would bo discharged from the tabe, the dressing applied consisted only of cotton wool and lint wrung oat of corrosive sublimate solution, and packed round onl sbove the orifice of the tube. This was kept in position by means of a flannel binder gently applied.

A large quantity of fluil was discharged into the dreasinga, and a large quantity was also drawn through the tube by means of an ordinary twoounce glass syringe, with a piece o! india-mbber tabing attached, of such a calibre as to enable it to be eastly passed throagh the glass tube to the pelric lloor. The syringe was also frequently nsed to inject warm saine sulution in the hope of breaking down the blood-clots and flucouraying the discharge of the disintegrated bloot within reach. The result was highly satisfactory. Tho bloody fluid continued to flow freely for sevorsl days, and the intestines and omen. tam seomed to be longer than usual in closing in round the tube and obstrueting the frea gravitation of tha flaid to the pelvis.
Tho pationt bore the operation well, and soou showed signs of improvemont. The polse, which was very quick and soft before the operation, fell to 100 within twelve hours; in two days it fell to 90 , and nevar again rnse appreciably hishor. The temporsturo varied betwoen $29^{\circ}$ sad $100^{\circ}$, for three days. During this time vomiting was severe, and though contiunous siace the simiaistration of the anmesthetic, it began to causo us uneasinesa. Therpulse, however, continued satisfactory. From February 24 th to March Sth, the temperature sose and fell from $99^{\circ}$ to $102^{\circ}$. There was consillerable hardening of the pelvic lloor on the right side, with partial fixation of the uterus. Harlening could also be felt along the courso of Poupart's ligament on the right sido.
The bamorrhage from tho uterus, which had been almost continnong, though slight, bafore the operation, completely diappeared until 3Iarch Ist. It came on then with a molimen liko moustruation ; tho day before its appearence, the tempcratare rose for the first tine to $102^{\circ}$. The glass tabo was removed on February 2sth; it had been kept in an unusually long time, owing to tho continuad flow of disintegrated blood, and precautivas woro taken to prevent it doing harm by pressare. A rubber tuhe was substituted fur the glass one, and this was gradaally shortened, and finally remorad on March 3rd. The rest of the history has no event worth noting; the patient gradually recorered, anid the layt repoit of her, io June, was to the effect that she stas quite well. Kctping to the axperience of myzelf and of the gentlemen with whom I was ainceiatol in tho treatment of the two eases outliced haro, I shulld like to call attention to a fum pmints.

1. Thure was an entiro abseace of symptoms pointin's to abnormal preguancy in both cases. Neither of theru cculd excend two months, und in luth the Fallorian tube waz disteu'ed to the barsting point Without giving rise to anch urcesinoss as to orotu any complaiat from the puicut.
2 Whea the rap!ure occurrol these were produced, in addition to
the sigas of internal hecaorrhage, symptoms having no spparent relation to the pelpic viscera, and suificiently prominent to ohscure tho diaguosis. This is a striking fact in the history of the firat casn, and, thoagh Mr Priestley hat diagnosmd the sosond case, it was with considerahle doubt as to the value to be assiguel to the apparently irrclovant srmptoms.
2. In making a vaninal examination in the second case it was fonnd that the uterus seemal to ba impeled in its movements, not fixed, and not freo. During the operation the uterus was fond to be aurrounded with blood-clots, wbich explained tho poculisr improsaion that had been conroyed in the examiuation. This fact must bo of samo diagnostic value in any similar case in which the hemorrhage his not proved rapidly fatal, so that blood-alots have bad time to furm.
3. A minor print, to which attention has already been callod, was the appearance of tho black blood through the uninjured peritonenm. This is ohriouslr of some importance whero any donbt exists as to the diagnosis. The aspirator needle, if used to clear up a doubtful case, wisht fail to give reliable informstion if its point happened to be inaerted into a blood-clot.
4. The use of tho saline solution soems to mo to be specially snitable for cases of this kind. Oniog to its salvent effect on the blood, it probably aided greatly in carrying away all the Iluid, which might haro becn subjected to the risk of infection by exposnre or manipulation during tho oporation. To the viscers with which it came in contact it would bo as irritating as non-storilised blood-serum.
5. A physiological point of some interest may ba noted. Mr. Priestley and I examined the arine, with the object of ascertaining whether it contaivel an unusaal amount of colouring matter, or any sbnormal conatitueats resulting from the presence of such a large amonat of blood in contact, under pressure, with the peritoncum; but the results were entirely negative.

## THREE UNUSUAL CASES OF ABDOMINAL SECTION IN PRIVATE PRACTICE,

twder the cark of herbert w. white, l. b c p.ed., l.f.f.s.glas, Pradford.
Ey StUart Nairne, f.f.r.S.G.,
Surgeon to the Glasow Samaritad Hespital fur Womed.
The three following cases are unasmal, in so far as their occorronce so soon one after another in the practice of one man is concerned, in the condition of tho patients that preceded the operations, in the various guesses as to the diagnosis, in the apparent gravity of the cases, and in the very pronounced benefit resulting from the use of antipyrin. The whole after-treatuent of the cases was conducted by Mr. White, to whom I am indebted for the histories, and by whose active and judicious management tho cases wero undoubtedly saved.
Case I. - Mrs. G. came under the care of Mr. White on June 4th, 1886. Sha was suffering from latent peritonitis, with symptoms of eopticemia. She was grey, collapsed, dull, and semi-delirious; there was albumen in her nrino ; her pulso was 140, and her temperature $101^{\circ} \mathrm{F}$. She was vomiting frequently, sud had wasted considerably away. A large tomour protruded from the abdomen, filling the pelvia, and extending to the umbilicus. The case looked so nopeless that operation was delayed, and the pationt pat on tonic and antifobrile treatment. Sho bad been allorred to get into this stato for fear of falling into the hands of an operator, when, she was told, her death would be assured. She hung on for several days, and at length the operation was performed, June 29 th, under an attack of poritonitis, her temperature being $102^{\circ}$ and her pulso 120. Adhesions were universal, to the abdominal walls, tha bowela, and the pelvic viscera. The pedicle was brogil and thin. It was tied with the Staffordshire koot. A considerable number of ligatures wero left inside the peritoneal cavity. Tho abdomen was carefully sponged out, not washed, and the incision in the abdominal walla entirely atitched up. She had a bad night, with romiting, and her temperature roso to $104.6^{\circ}$. The operation was performed at 2.30 P. M., and at 8 P.m. her temperataro was $1046^{\circ}$. She was then given a powder of 20 grains of antipyrin, and the improvemont was so maiked and immediate as to establish the value ot the drug in this instance. The temperature oscillated between $93.4^{\circ}$ and $100.4^{\circ}$ for aomo timo, but zerer roso beyond the latter after tho first powder of antipyrin. Troublesomo diarrhoes conmenced on the thirl day after the operation, and coutinued till July 9 th, when her tomperatare became normal, and aha mado uninterrnpted progreas towarda convalescence. In tbo birst reek in $\Delta$ ugust sha was well enongh to go to Morecambe,
and on her return, September 5th, she expressed herself as fecling well, and had walked four miles the day hefore her return. The cyst wss nultilocular, filled with puy and gramous blood, which emitted a most feetid odour. Alter the operation I should also note she psssed large quantities of fotid pus per vaginam.
CASE H1.-MIra. H. bsd suffered a long time from headache, pain in the groins, back, srms, and sides. She complained of a "catchiog in her breath." She bad slso besring-down pain, pain on defication, and dyspsseunis. She was quite uable to follow her occupation. On examinstion the os was found ivdurated, patulons, and the womb enlarged one inch. A small, morsble tumour, exquisitely psinful to tonch, was found in Douglas's pouch, snd diagnosel as a prolapsel orary. It was the right ovary. She had never been treated for uterine complaint. The "headache" and the "catches in her breath," and the other subjective phenomena, had beea treated with no benefit. Operstion for remoral of the ovary wss performed on June 30th, 1886. She vomited exceedingly after the operation, but did not become collapsed. Aftar the first three days recovery was uninterrupted, and ahe was sble to leave home for Bridliogton in the first week of Angust. On September 6 ib Mr. White reports: "She has returned from Bridhington strouger in cvery way. She has resumed her house hold duties, all the symptoms are absted, dyspareunia is goae." This last stztement is particularly intercsting and important.

Casz m1.-Mrs. P. had fallen downstairs a year ago, and afterwards complsined of severe paia io her back. There mas a history of another fall, two mooths after this, with a renewal of the pain, and finally, three months lat rr, whilst liftiog a weight, ghe became "'dead sick"' with a return of the old pric. From this time the nain pergisted, and gradually became worse. When seen by Mr. White on July 19th, 1887, she was yery much exhausted, sweating, cachectic, and suffering great pain. Her pulse was 120, and temperature $102^{\circ} \mathrm{F}$. She had been totally confined to bed since April. Her complaint had been rariously diaguosed as hrematocele, blood-clot, and general treatmeat had heen adopted which did her nogrod. Examiuation per vaginam revealed a hard, ovoid tumour in Douglas's ponch, paiful to touch, and abont the gize of a ben's egg. Abdomiazal section was performed under these unfavourable conditions on July 22 nd. The tumeur was fonnd attached to the right corner of the uterus, and the ligature had to embrace part of the nuscular tissue of the uterns for its complets removal. It was a scirrhous tumour, and weiphed within a few grsins of two ounces. She jassed a very bid night after the operation, vomiting ; was colldpsed, and altogether very hopeless looking. On the third day, however, she began to mend, and thereafter made good progress towards recos ery, she was able to leave for Morecambe on August 28th. Mr. White's report on September 6th says: "She is not entirely free from $p$ uic, but is greatly improved and able to get about."
These csses hsva been put on record as beivg an encouragement not to abandon any case, however bad, where there is a reasonable prospect of completing an operation. In all these cases the wound healed by first intention, and the stitches were removed ab jut the eighth day. The second case had no trained nurse ; the nursing in the first and third cases, provided by the Bradford Narsing Institu. tion, was excellent ; and the happy result of sll three cannot but be a recommendation to the performauce of such operations in patients' own homes.

## RUPTURED EXTRA-UTERINE ;GESTATION:SUCCESS. FULLY TREATED BY ABDOMINAL SECTION.

By JAMES McNAUGHT, M.D., M.R.C.S., Newchurch-in-Rossendsle.

As the treatment of ruptured Fallopisn pregnancy hy sbdominal section is atill sub judice, the followiag cise successfully treated in that way is worth recording.
The patient was 31 years of sge, and hal been married for ten years. She had never been preguant before, snd had meastrnated quite regularly up to two months previously. Menstruation had been always painful and rather scanty. During the last few days she had had pain at the lower part of the helly, and the bowels bsd been a little relazed. At 3 p.s. on July 21 st she went to the closet to psss water, wsa suddenly seized with severe prin at the lower part of the belly, and fainted. She managed after recovery to struggle into the house, and knock for ber next door neighbonr. She had again fainted several times before my arrivsl at 6 P.M. She was theo psle and blanchod, snd had evanescant attacks of syncope and pulselessuess, but in the intervals was able to tell me by degrees what bad takeu
place. She saspected she was pregnant; the breasts had been tender and enlarged, aad sbe had hal morniog vomiting for two or three weeks. She complained of great teuderness at the lowor part of the abdomen, chiclly on the left side, but also a little on the right. On examination the uterus was found poshed down geaerally aud fixell; aod as she lsy on the left side a distiuct bulging was felt on the left side of the pelria pushing down the vagina. S'imulants were gir.n freely; and Dr. Green, of Rawtenstall, was sant for at uy reques:-
The following dsy she had some what recovered ; the pulse was perceptible, but thready ; much pain in abdomen; objectivs signэ nualtered. The disgnos;s of ruptured cxtra-uterine gestation was made, and after much pressing she consented to abdominal section. Her circumstadces, she stated, eatirely precluded the summoning of an operator from Manchester, aud I was therefore somewhat relactantly compelled to undertake the operation myself, with the kind assistarce of Dr. Green, of Rawtenstall. An incision about four iuches long was made and carried down to the peritoneum by carefol dissection. The peritoneum, which seemed nousually thickened, bulged np slightly, and when iucised by the point of the kaife, vecous llood escaped free's, which at first took me somewhat ahark. Ac, howerer, I felt on fx . amination that there was nothing but fluid behind the membrane, the intestines being far euougb away, I freely slit it up to the length of the incision. A quantity of dark, venous, finid blood then gashed ont of the abdeminal carity. The rest was mopped ont, and a few clots taken awry from the botton of Dougias's ponch. In the rigbt Fallopian tnbe, half an inch from its junction with the nterus, was fond s swelling the siza of the rolk of an egg, and at the back facing Douglas's pouch ihere Was sn opening into it partislly filled with blood-clot, sdmitting the tip of the little finger. Shreds of membrane huag out of this, gnd sfter tying a double ligzture on each side, it Was excised. Niothing was zeen of a fretus. The belly wss washed out with hot water, sponged dry, and the edges of the wound bronght together with wire and silkworm gat sutures. No drainage-tube was inserted, as I had not a suitable one by me. Before the hot water was used the fulse was very feeble and the aspect sunken, but immediately after mards there was a welcome revival. Hot bottles, etc., were applied in bed; onesixth of a grain of morphine iojestion was given, and enemata of beefteas and hrandy every two horrs. The wound was dressed with Gamgee's tissue, retained by broad strips of adhesive plaster.

For the next trio days retching was pery troublesome, nothing being retained. She had scarcely auy sleep duriag the first tro nights, aud the belly was tender and painful. Morphine was given subcutaneously in smali doses, and cuemata of bsef-tea and brandy continued.
July 26 th. Restless night, retching, and feelin $\%$ of nanses continued. Much pain in the belly, and some trmpanies. The lowest stitch was removed ; the edges of the wound, which were adherent, were drawn apsrt, and the peritoueum, which had united, scratched through. A good deal of perfectly, odourless bloody seram escaped, and the helly was washed out, siphonwise, with hot, weak, porchloride solution, and a large draiugge-tube inserted $t$, the bottom of the pelvis.
Next day the retching had ceased, but she bad passed a restiess night. Tube aspirated. and a little seruum withdra wn. She wss now able to retsin a little ch mpagne.
The temperature so far hal remained ncrinal, or rather subnormal, but on the 23 th it rose to $100^{\circ}$, the highest recorded duriog the probress of the case. The tuho was withdrawn on the 29 2 h, as nothing seemed to escspe from it. The stitches were removed on Angast 3rd, the wouad haring sll united by first intention, exiept where reopened. This was left to granulate, and it closed in about ten dass. She was sitting up for a short time a fortnight after the operstion, and was a ble to leare for her native place on August 27 th.
This case resenrbles others recorded in one remarkable particular, namely, that the patient had been married for some years without preguancy, and had never previously conccired. She gave a bistory of painful and scanty meostruation, and stated that counectiou had a] wsys been very painful to her, printiog, probably, to somie mischief in the uterus or appendages. The fact that bulging was felt partina. larly in tha left side of the ragius whilst the rupture was in the right tube is acconnted for by the blood remainiag fluid and gravitating to that side of the pelvis as she lay in the usual pasition for exmuiuation. The synuptonis nnmistakably pointed to iuterasl brmorrhage, and the fact of suspected preguancy, and the Exing ard pushing down of the uterus, loft little doubt as to the nature of the case. The successfal result may, perbaps, encourage others, who plastise in country districts amay from the reach of specialicts, to codertake abdominal section, rather than wait the otherwise almost certainly onfarourable issue.

## A CASE OF CHOLECYSTOTOMY FOR GALL-STONES, WITIT REMARK゙S ON THE TREATMENT OF

 THE IMPACTED CALCULUS. ${ }^{1}$By JOHN W. TAYLOR, F.R.C.S.

Hurgeon to the Birmingham and Midland Hospltal for Woinen
Everrose who has any practics! kaowledge of the oneration of cholecystotomy, or is au courand with its literatare, must have rocog. nised the fact that tho one occasioual important difficulty of the operation is the romoval of the obstructing calculus from the cyatic or coumon duct. Sometimes this difficulty is slmost insurmountable, aul ander such circumstances, as is well knowa, Mr. Tait has practisel crushing the stone from outside the duct, either at the time of the original, or at a aubserpuent, operation. When the stene is very hard, this procediug may barisky, or, at all erenta, may appear to the operater to be specialy dangorous. Sowe alternative method is a desideratum.

Perbaps the narration of the following caso may heip to point out tho direction in which wo may seok for such an alternstive treatment with the greatort probability of saccess.
Mrs. K., agen 42, was sent to me by my old friend and colleague, Dr. Woollett, of Jonmeuth, on March 21st, 18S7, with the following history. For four or five years she had neticod a swelling on the right side of the sbilomen. This grew suddenly lorger about eight months previous to tho date already given, and although unattended with spscial pain or teaderaess, showed no sigas of ayy subsideuce or diminution, and cansed her coasiderable uneasiness and anxiaty. She hal had oleren children, nioo of whom wero living; her last confinement occurred abint twenty months before her risit. Menstrus. tion was regular. There had not been at any time the slightest history of janadice or eren of acute colic.

Oa oxamination a large, rouuded tumour was found in the right hypockondrias sal umbilical regions, exteuding some distance below and to the left of tho umbilicus. It was very freely movable, and carofal palpation elicited a ribratery thrill. Thero was no troo fluctuation. I diagnosel the casa to be are of distension of the gallbladder, and this diagnosis was subsequently confirmed by the opinion of my colleazucs, Dr. Sarage aad Mr. Tait; Dr. Savage noticing the fact, which hal at first escaped my observation, that the edge of the liver was to be folt overlapping and covering the tumour, except at its most extrenie liunit.
The patient was almitted into the Birmingham and Midland Hospital for Women at Spark Hill, and on April 2ad I oponed the abdomen on the euter sille of the right rectas musele immediately over the most promiecat part of the tumour. On dividing the peritoneum, liver subatance was seen lyiag immediately undorneath the incision. This appeared to have becn dragged down by the enlarging tumour, and formed a thia covering to it. By pressing the tumour from the oppasito or left side of the sbdemen upwards and towards the right, a amall portion of the tumour was fonnd uncovered by the liver, and seen to bo the rounded ead of a largely distended gall-bladder. This was tapped, and fully a pint of clear, somewhat glutinons fiuid evacuated. The puncture was then enlarged with a tenatomy knife, and the index finger introluced within the gall-bladder. Several large stones Fero felt lying lossoly in its cavity, and these, four in number, were removed with scoop an forceps. One remained, wedged into the cyatic dust, which it seemed impossible to move. Thare was no spuce tor the application of any of the forceps at my commend, and after repeated attempta t? extract the atone I could only succeod in breaking off some portions of its upper surface.

As all the gall-stones were hard, and very considerablo force was necossary in order to break tbem, I was afraid to attempt the crashing of the stoun from outside the duct, and therefore determiaod to complete the oferatiog in such a maener as to afford the best means for any subsequaut trestment of the impacted calculus that might be necessary. I served the incision in the gall-bladder to the abdominal Wound by sereral stitchos, so as to lcave a large extarnal openiug, a ad placed within this a shert piece of largo-sized rubber tubing. The nurse was directed to syringe out the gall-bladder with warnu water evory night and moraing through the drainage-tube. No diaturbance followed the operstion, and by the fourth day it was noticod that the Water retaraing from the gall-bladjer on the use of the syringe was tinged with bile, indicatiag that the passuge of the dact was becomieg free. No alteration was mide in this regular treatment of tho case for mare than two weeka after the operation. The larga draiaage-

[^12]tube was kept within the external opening, being only removed temporarily for cleaning, aud tho gall-bladker well syringed out twico each day.

Ou April 18th, sixtcon daya after the cholecyatotomy, I examined the gall-bladder for the impacted stone with Listcr'a siuns-forceps. I found that the stone was loose, and that it was soft. It broko into prieces on being grasped by the forcepq, and the fragments were exfracted without any difficulty from thie openiag in tho gall-bladder. The latter was syringed out a few times after this to cusure its being thoroughly cleaned out from any débris of tho broken calculus. The tabe was removed, and the abdomisal oponing allowed to contract and close. The patient loft the hespital for her house on April 26th, quito convalescent, and with gall-bladder and ducts patent and free from any caloulug.

Remaris.-1. The power possessed by a current of water, when wisely and patiently cmployed, for the dislodgment of foreign bodies or wax from the aulitory meatus suggested its ase in the pregent case. It appears to have bean largely respensible for the successful result. 2. There is probably, in addition to this, some time in the history of a biliary calculus retained after oparation, when a considerablo amount of softening occurs due to the inflammatery changes and discharge set up by the oparation. If so, it is ot some importsuce that the best time for any secoadary interferenco should be ascertained. 3. In difficult cases, whether at the time of the chelecystatomy or afterwards, it is probable that an impseted calculus may be divided by delicate forceps similar to those utilised in the presant case, when no other forceps could be emplojed with adrantage from within the gall-bladder.

These three pointg-the regular daily use of the syringe after operation, the taking advantage of a time when the stoue becomes softer, and the use of preper torceps, will, I beliopo, bo of use in bringing difficult cases of cholecystotomy for gall-stone to a succeasful termination.

## A NOTE ON THE TREATMENT OF SPINAL ABSCESS.

By thomas Laffan, M.K.Q.C.P.I., Cashel.

I haye, in common, I suppose, with most sargeons, met with a geod many of these melancholy cases of abscess dependeat on diseased spino, most of which at lesst have bat one end-death. I havo witnessed several of these where death ensuod notwithstanding the cure of the spinal affection. In these the fatal ond was brought about by the discharge from an exteusive fistula, which was without the reach of aurgical srt. It is not possible to bring pressure to bear on the walls of such fistule; still less is it possible to slit them open and allow them to granulate from the battom. We are tole that spinal abscesses should not be opened hastily, iansmuch as they may become absorbed, and on the ather hand wo are directed net to allow them to enlarge to any considerable extent rithout openiog them, as the canstitutional disturbance that would follow on their being opeaed would bo attended by risk proportioned to their size. These two rules will be found in practice to be more or less contrsdietery. If we act on the advice not to open them hastily, we too eften give timo for very cansiderable thengh not always apps rent enlargement. If, on the other hand, we do open them early, we, in my experience, all but invariably ensure the death of the natient, and We also depive him of the chance that the abscess might become absorbed. This seldou happens, but that it does sometimes happen is evident from a careful collation of witers on the subject.' I have had myself one such, but only oue, out of all my cases; it occurrod in a girl aged 30 ; she was the daughter of a farmer, of healthy ap. pearanco, and with a family history which was good, though not Wholly freo from some suspicion of scrofula. : About May, 1875, she strained her back whilst jumpiog off a ditch, and after more or leso medical treatment ahe came under my care in the following November. At that time she had an abscess ia the lefit iliac fossa, which was abont the size of the two hands clencbed.... She had diaesse of the tenth oud at least two adjacent dorsal vertebras. The epine of the tenth was very promiaent, and those of the two adjacent ones rere also promiaent, but very much less so. She had bad several rigors; the pulse, appetite, perspiration, and the medses were what obtain in a hectic ease. She was placed in the horizontal positioa, aud ouch remedies as suggested ihemsel ves, the equmeration of which would but occupy time without communicating any fresh information, employed. She was kept for four months

[^13]in bed, and for three monthe after that a Sayer's jacket was kept on; she went on favourably in every way, snd net only was the Potts' spine cured, with, of course, deformity, but the abscess became eventually sbsorbed. I examined her with the greatest care on June 21st last, and the following state of things was observed: Her appearance was healthy, thongh not entirely free from wear and tear ; her pulse, tempersture, and respiration were natural ; a fulness, which when first seen had existed in the left lliac fossa, had entirely disappeared. No traco whatever of the abscess could be found on palpation, or otherwise. A severe prin in the spine, from which she had also on the occasion of my first seeing her sulfered, had likewise disappessed. There was some little pain across the lips after sitting, and the left log was weaker than the right; the bowels were moved overy second day. The appetite, urine, and sleep were natural ; there was neither perspiration nor vomiting. She could stoop, work, snd get jolted in a vehicle without psin or uneasiness. A prominent apine, the slight psin and weakness I have referred to, and menses which were almost nil from the start of the disease, comprised the total of the obverse side of the pleasing picture. Though it is quite possible that in this case the remaine of a partially absorbed ahscess, which might recrudesce hereafter, might still be pent up in parts inaccessible to the sight and touch, yet sil the probabilities go the other way, and' the case may, I think, be fairly cited as one of those exceptional ones in which spinal sbscess gets cured, snd the rule of not allowing spinal abscasses to gat very large comes in for inconvenient question. Some similar cases have, of course, been reported, but unhappily they are rari nantes in yurgite vasto. No one ought, I think, to propase to sacrifice the overwhelming majority for a fow chance cases, and therefore these abscesses should be opened, if only a way conld be found to obviate the terrible danger arising out of the existence of a long and tortuons line of inaccessible fistulx. I often asked myself, Was it possible that nothing could be done for those sad cases? and it was therefore with no ordinsry plessure that I read Mr. Treves's proposal for dealing with some of them.
Mr. Treves proposed to cut down direct on the bodies of carions vertebre associstad with abscess. He proposed to attain by such an operation four objects:

1. He would come into direct contset with the diseased aress.
2. He would open the suppurative collections at their points of origin, and evacuate their contents by the shortest possible ronte.
3. He would be enabled thereby to remiove pleces of diseased hone.
4. He wonld be enabled to apply treatment direct to the local tissues.

Mr. Treves, however, proposed to confine it to the lumbar and last dorsal, and he does not state at what period of the abscess he would cut down on the spine. Now, it appears to me that, if the surgeen should wait until the abscess becomes apparent at one of the nsual sites, the mere tapping of it at the proximal end, while furnishing an exit for detritus-which, no doubt, now helps to keep the sinus dis-charging-would not of itself prove sufficient to agglutinate the walls, and therefore dry up such sinuses.

We evary day witness the continued patency of long fistrlous tracts long after the disease at the proximal ond has been cured. I do not see, therefore, how cutting down on the vertebre, where a large abscess has been allowed to form, can, in the majority of cases, at all events, effect all the good we desire. I do not see either why this operation should he contined, as Mr. Treves proposes to confine it, to the lumbar and last dorsal. Such a restriction saems to me calculated to limit within too narrow a field its sphere of usefulness: 1 would extend it to the dorsal vertebre, where it is we find the great bolk of the disease.
I am not blind to the anatomical difficulties which would beset cutting down on the vertebre here. I dn not, however, think that they are oither insupersble or indeed at all comparable to those rhich have been sue ressfully mastered in other regions of surgery. We might expect, for instance, that the pleura would occasionally be perforated, and that pucumothorax would ensue ; but we have now a sufficient numbor of cases of this to prove that it is a very much less formidahle affection than it was once supposed to be. It is not to bo denied that it is much less formidable than interminable fistnle, whose existence affords a too certain presage of the patient's destruc. tion.
Now for my second point. It will not, I maintain, do to cut down on vertebre where an abscess can be seen and felt. The diagnosis of spinal caries having been once made, 1 would anticipate the external appearance of the abscess by cutting down upon the rartebrie st once, and maintain a direct opening with the disaasel bodics. If disaase should be really present, we might count on the presence of a considerable effusion around the bodies of tho vertebre ; and this thicken.
ing might be counted on as a sufficient protection sgainst the premature admission of air to the csrious mass. The case of Pottes disease without abscess, if there be any such, would present a dificiculty; but the thickening already referred to might here, as in the lest case, afford sufficient protection against atmospheric action. On the other hand, if the diagnosis shonld be incorrect, and no spinal carica should be found to exist, no possible misshief could accuue to the healthy vertebrex themselves.
In conclusion I submit the above gote to the Section with a prefound conviction that for a diseage which is but too otten indeed the opprobriam of our art bald remedies offer the only pesource.
Dr. Inlinaworte deprecated in the strongest possible terms the procedure recommended. The formation of any wonnd meant the incurring of new dangers. Aspiration, when the pus was fully formed, offered the safest mieans of prevention of septic processes. Spin3! support during the process of aspiration was essantial.-Mr. Wans.\&Ass said that he considered Dr. Latian's a very grave proposal. He understood Dr. Laffin to adrocate cutting down on the dorsal rertebre in cases of spinal caries, for the purpese of preventing the formation of an abscess as well ss for the early ovscuation of the pos, should such form. Such a procedure appeared to Mr. Walsham fraught with danger, as a deep wound would have to be made, probably a portion of a iib or two would have to be excised, and the pleura might easily be opened. On the other band, if spinal caries was treated early by recunbency combined with some efficient support, the great majority of cases recovered without any surpurstion. In the lumbar region cutting down on the vertebre, as suggested by Mr. Treves, Was no doubt, in suitable casses, of service, but Mr. Walshani would hesitate to sttempt such an operation for caries in the upper dorsal region, aven when pus had been formed:Mr. Edward I. Freer (Birmingham) was in favour of aspiration where possible; when impossible, recourse should he had to free incision, with antiseptic dressings, weak iodine ibjections, and free drainage. Some disappeared altogether if the spondylitic vertebre were kept at rest, so he did not advocate early operative interference of any kind.-Dr. Gibney (New York) adrocated the directing of treatment to the benes diseased, and claimed that, when sufficient mechanical suppert, long continued, was provided, it was quite onimportant to give any attention to the spinal abscess. The cases thus managed, in New York city at least, give satisfactory results. He was convinced that orthopredic surgeons, as a rule, aimed to fix the spine and seldom treated the abscess. Dr. Lafran, in replying, expressed his astonishrant at the amazing number of cures which the speakers had had, and he invited them to authenticate them by publishing them. As for him, he had had no such snceess ; and as far as he could $g_{3}$ ther, and be bad inquired in several quarters since the commencement of the meeting, his experience was not unique. If the disease, therefore, was so fatal, he maintained that for it the remedy he adrocsted was the proper one. Some of the speakers had talked about the antiseptic treatment, bnt its adrocates asked too much from it. He had tried it iu these cases, and it had not saved them. Ho aimed at two objects in bringing that paper before the Soction : the first one was to bring once again under public notice a line of treatment which should recommend itself, if for wo other reason, because it had been suggested by so ablo a surgeon as Mr. Treves; and next, because he desired to extend and develop an operation which, he repeated, alone held out any ratiooal prospects to pakents.

## TWO Rare growths of the soft palate. <br> By Clarence ellermañ, M.d. Hinelberg.

Tre two cases which are described at length belew present a certain amount of interest, on account of their uncoumon occurrecee, and this resson, 1 consider, justifes their publication.
CAse 1.-Mr. S., aged 20, a student, came to the Heidelberg throat clinic (Professor Jurasz) to seek advice abont his throat. On cxamination, he was found to bo suffering from granular pharyngitis. Moreover, during the exploration of the pharynx, a small rumour was noticed lying somewhat to the right of the avula, and partially concealed by the samo; in leugth it measured about three ant a halt centimetres, was elongated in shape, and in colour agreed with the surrounding inncous membrane. To obtain a good view of it, it was necesary to seize it and draw it forward. The tumour was mobile, slightly narrowed at tha base, of a soft conaistency, and quite paiileys when manipulated. Its generel appearanco gave one at lirst the im-
pression of a large papillomatons grewth, like thoso which, as is well known, are frequently observed at the base of the avala. This riew whs, however, not confirmed by microscopical examiuation. The romoval was easily performed without any loss of blood by menns of a galpane-cantery suare. It was now for the first time observed that the surlace of the tumour was not smooth and coutinnons, tut partially divided into soveral portions by latoral fisaures. It should alsa be mentioned, as it has its importance, that on the right side of the soft palate, the epace betweon the anterior and posterior arches of the eame was uausually largo and deop; this appearance was fonnd to be caused by the total absence of any trace whatsoever of the tousil at its usual resting placo. Ou tho left side no such anomaly was apparent. The jonng man declared that he had never lelt auy inconrenience trom the presence of the tumour, and that be had, in fact, been quite unarare un till unw of its existence. The microscopical oxamination gave the followiug interesting results: The tumour failed to show any analogy to the characteristic texture of a papilloma, but presenterl a listological structure unmiatakably like that of tonsillar tissue. A careful stuily soon left no doubt that such was the case. Tonsillar crypts, coated with a fine layer of stratified enithelium, were plainly discernible. The walls of the lacuna were studdod with numerous compact nodules of lymphatis tissue, the socalled lymph.fullicles. Theso follicles presented the well-known reticalater structare, containing in its mesbes innumerable leucocytes. Tha epithelium rested on a fine, almost invisible, basal menibrane, which sepsrated it from the mass of adenoid tissue which lay below. Towards the contre the connective tissue of the stroms hal taken the place of the adenoid tissue, and was concentrated into a dense fitrous structure very poor in cells. Several large, greatly dilstod blooi vessels (arteries and reins) traversed it, ranifying tomards the periphery. It was, breadly spaking, identical with tonsillar tissue, and there remained no doubt that the remeved tumour was an aberrated tonsil.
The case which I have just described may be, I think, accounted a somewhat rare occurrence. Howeres, the fact that eimilar occurreaces sellom are observed is no positive proof that they seldom occur; for it can be readily understoed that such tumours, hy rcasoz of their unimportant size and the absence of any symptouss of incumbrance, often escape notice, and even when they are now and then removel, they seldom undergo a microscopical examination.

CASF. 11.-Misg L., gged 25, noticed for some time back that she had a penilulous tumour hanging from the soft palate, which cansed all sorts of unpleasant sensations in the mouth, accompanied ly a copious flow of saliva. On examination, a long purplisb looking growth was perceived on the right half of the solt palate, lying midWay between the tonsil and uvila. It presented a smooth surface, and was of a yielding consistency. It was removel by the galvanocausti: process. On being examined microscopically the growth, which was composed of different papillæ coated with epithelium, presented a peculiarity in respect to the condition of its blood vessels. The firat thing that atruck one on looking at a section through the micrescope was the enormous sizo and development of the capillary vessols as compared with the aizo of the tumour itself. (This condition conld be easily perceived with the naked eye on holding the section towards tho light.) The capillarios were enormouqly dilated, ran in the centre of the papillie, and ended in the shane of a bulbous expansion. In some parts the vessels seemed to be naccompanied by connective tissue. It appeared as thaugh the pavement cells of the epithelime were intimately conuected with the endothelium of the dilated capillary ressels. Careful obscrvation, however, showed this Fies to hea mistaken ouo ; thera atill existed between the ppithelium cells and those of the capillaries a very delicate, almost invisible, partition ol conuective tissue, which appeared to be in a state of atrophy. At the point where the tumour had been severed, the walls of a lurge artery were to bo zeen. Further, in two places, clumps of adenoit tissue were visible, which were evidently to be considered as follicles. Tho connective tissue matrix was, moreover, in sone places very rich as regards cells.
Now this is undoabtodly the picturn that would bo presented by a plexiform angioma, sud this is what I consider it to bo. It is, however, not impossible that it origiually existed as an ordinary mpilloma, an l that through the action of the negative pressure, which arises in the pharyny during the motions of swallowing and suction, upon the vessels on the surface of the tumour, the ressels Fere in a constant state of dilatation, and ektasia was the result. An auslogue for thiy is fond in the distensiou of vessels in granulations which appear at the edges of a tracheotomy wound ; in the latter case it is of conrse the result o! the inspiratory dyspncea.

## THERAPEUTIC MEMOLIANIAA.

THE ODOUR OF IODOFORS.
The. oulour of iodoform, the Pharmucopeite states, is "persistent and disagreeable," and to some these characteristics are so intense that it is avoided in proctice, and less eflicient agents are used. Varions attempts have been mado to disguise tho odour by oleate of zinc, eucalyptns, coffee, coumarin. The latter substance seema to effect this better than the other agents, but yet it is not perfect.

From a series of comparativo trials 1 beg to offer the following pre. acription as securing the ond in viow,-R Iodeform, gr. 60 ; ol. amyglale, Sijss; ol. theobrom., Sijiss ; ol. myristicæ, Mxx; moschi, gr. iij ; coumarin., gr. vj ; ap tenuior., 5i. The essential ingredieut here is musk. To some people, however, the smell of musk is also disagreeable, and the otker eubstances are added with the riew of leaving a pleasant odour, neither of musk nor iodoform. If the iodoform is desired for dusting purposas, as in soft clisacres or buras, the combination of 1 grain of mask to 10 or 15 grains of iodoform is satisfactory. These prescriptious bave been made up by leading pbarmacista here, and they bear willing testimony to the facts mentioned.

Mattren Chabteris, M.D., Professor of Therapeutics
and Materia Medica, Glasgow University.

## SMALL DOSES OF MERCURY IN SYPHILIS.

I AM anxious to bring before the profegsiou a plau of treatment which I have tried in cases of primary syphilis for more than ten years, a treatment which has been attended with uniform success, and without any further symptoms after the primary ones have passed away. A modified plan of the same treatment has been most eatisfactory in its results in more adranced cases.

The great sectret of the treatment consists in the dose, which can be continued an indefinite length of time, enabling the practitioner to sweep out every trace of syphilis; and it will be found that when all the primary symptoms have disappeared no tertiary will follow. Sometimes a slight recurrence of tho primary appears, which will quickly field to a return of the treatment, and I bave invariably found that time and patience complete the cure.

My plan has bsen in cases of hard chancre to give hyd. c. cret. gr. $\frac{1}{6}$ ter dic, giving any tonic or other medicine with a view to keep. ing the patient in the beat possible state of health, aroiding too much stimulant such as spirits, wine, or heer ; this should be followed up for a month or longer at the discretion of the practitiones, when the dose can be given bis die, and after three months or longer, once daily for a considerable time. Should the symptoms be rebellious afcer the third or fourth month, I give in addition liq. hydrarg. perchlor. mr—mx bis terve.
I intended to have brought this treatment before the profession several years ago, but was most anxious to be sure of my statements as shown by many typical cases which I have kept in riew for many years.
S. C. Griffith.

Finsbary Square, E.C.

## STROPHANTHUS IN HEART DISEASE.

Dr. Secklivg's memorandum on his experience of strophanthus in heart disease comes as a thunderbolt : it certainly is at sariance with the general opinion of the professien. I have nsed Hewlett and Sons tincture for the last six months with immense adrantage in heart affections, moro especislly in cases where digitalis seemed to bo doing more harm than good. I quite agree with Dr. Suckling that digitalis will often do good after strophanthus has been given withont relief, but thie simply proves that the action of the two drugs is not the same. Strophanthus has, in several of my eases, produced an intermittency in tho heart's action, always relieved by increasing the dose, (this symptom I have never geen mentioned by cther observers). The salicylates can he given in combination with strophanthus when they cannot be borne slone on account of their depressing action on the heart. In conclusion, I may say strophanthus is of inestimable benefit in inorganic heart affoctions.

Plymstock.

## Enward G. Detton.

THE TREATAENT OF HABITUAL CONSTIPATION.
As hour after readige the memerandum of Dr. Althaus, 1. 1379, on I)r. Oillmann's method of treating the above affection, I had au opportunity of erying it. Two daye beforo 1 had performed berniotomy on an old man aged 74, and fout that morning very distressing meteorismus, with a risiog temperature, which opium had not prerented. The remedy was obvieusly to empty the colon with the least
amount of irritation, and I at onee injected a teaspoonful of glycerine into the rectum. Within five minutes there was a copions dejection and much flatus followed, to the thorough relief of my patient, who is now convalescent.

But the point is this: As soon as I had asked for the glycerine and injected it, the nurse observed: "That was Mr. Warden's favourite plan, he said it was better than all the pills in the world," and this gentleman died in practice here sbout sixteen years ago. Truly, "Nihil sub sole novi?"
G. F. Cadogan-Masterman.

Stourport, Worcestershire.

## a dangerous minture.

Several prescriptions have lately conze under my notice in which occurs a mixture of chlorate of potash and syrup of iodide of iron. This seems a not unreasonable combination, and its incompatibility does not suggest itself, nor will it be found on reforence to ordinary textbooks. As, howrever, a case has recontly been reported from Australia in which death resulted from the administration of such a mixture, I think it desirable that the attention of prescribers and disnensers should be drawn to the fact that chlorate of potash liberates the whole of the iodine from iodide of iron, and, if at all concentrated, the solution soon becomes saturated, and crystals of iodine are deposited after a few hours. The products of the decomposition are shown in the following equation:

$$
2 \mathrm{Fe}_{2}+\mathrm{KClO}+\mathrm{H}_{2} \mathrm{O}=\mathrm{Fe}_{2} \mathrm{O}_{3}, \mathrm{H}_{2} \mathrm{O}+2 \mathrm{I}_{2}+\mathrm{KCl}
$$

Furthor details of the reaction may be found in the Pharmaceutical Journal, vol. x, p. 850, and in the Journal of the Chemical Society, 1880, vol. xxxviii.

Heat fayours the reaction ; and ihe proces 3 , which may be slow in the medicine hottle, would be much more rapid in the stomach, where the development of nascent iodine might produce symptoms of gastric irritation which were neither expected nor desirable.
35, Clifton Road, Maida Vale, W.
R. H. Parker.

## OBSTETRIC MEMORANDA.

a Case of triplets : three head presentations. I was sent for at 4 A. si., on December 27 th, 1887 , by our midwife, to see Mrs. D., as her labour pains.had quite ceased. Labour had commenced about 3 P.31. the previous das, but the pains had never been severe. Oo examination I fonnd the head low down ; I gare a dose of ergot, and as it had no effect $I$ repested the dose in twenty minutes. This had n? effect, so about 530 A. M. I applied the short foreeps, and delivered her of a fomale child, without any difficulty. On examination of her abdomen I found there was another child ; I examined by the vagina, but could not make out any presentation. I waited an hour, and as no pains came on, I determined to leave Mrs. D., as the midwife was perfectly able to take charge. I looked in a couple of times during the day, but things were in slatu quo ; however, at 8 r.s.s. I could make out a head presentatiou. At 8.30 A.m. the next morning I was sent for, and found the second child born without any assistance, and the midwife informed me that there was a third to come. I examined, but could not make out the presentation. At 8 r.m. I was sent for, and found the child low down, and es the woman had beeu over fifty hours in labour, I applied the short forceps and delivered her of the third female child, the largest of the three. With some dilficulty 1 removed two placenta; the first one was very large, and had two umbilical cords attached to it ; the third placenta ${ }^{\text {q }}$ which was a full-sized one, bad only one cord, and evidently belonged to the last and largest child. The mother has made an uninterruptedly good recovery, and the three little girls are thriving very woll. The womau was a primipara, aged 29.
Tenby.
Johi Griffitil Loch.

## CLINICAL MEMORANDA.

## CASE OF CANCER OF THE PANCREAS, WITH ULClRATION and imemorritage into the stonach.

Mrs. S., aged 61, was first seen February 26th, 1887. She was said to have been siling a long time, but had been very ill for the last six nonths. Her complaints were constipation, flatulence, and aching or colicky pains, chiefly reforred to the mmbilicus and lower left aldominal region, backache and nauser, with increasing emaciation. There was
a fulne 3 , tenderness on pressure in epigastriam, to the left of the middle line, with abdominal antic pulsation immediately below. There was no jaundice and no fatty stocls.
She had two slight vomitings of dark blood, one on March 15th, when I found her with a thready pulse, collapsed and cold, having brought up a teacupful of blood; the second about two hours before her death on March 20th, when she complained of feeling "something burst in her inside," and vomited to about the same amonnt. No blood ever appeared in the stonls.
Necropsy on March 21st.-Piigor mortis was well developed. The skin was of a waxy colour. The juogs collapsed and Iale. The heart small ; all its chambers einpty. The left ventricle firmly contracted; the other chambers flaccid, and their walls very thin ; muscular substance of a dull brown colonr. The outside of the organ heavily loaded with fat. On opening tho abdomen the liver was found stretehed quite across the upper part of that eavity, the left lobe in close contact with the under surface of the diaphragm, extending well into the left hypochondrinm, and overlapping the stomach. On removing it the stomach appeared beneath es a large blue tumour, which, when opened, mas found to be completely distended with blood, immense black coagula being turned out throngh the incision. The pancreas was enlarged and nodular, its substance infiltrated with cancer. It was closely adherent to the stomach and duodenum. A large ulcerated carity occupied its central part, which communicated by a ragged opening with the stomach. At this point a vessel, the siza of a goose-quill, apparently a branch of the ceeliac axis, had been opened, and from it the oleeding had evidently occurred. The spleen was amall and friable. The blood vesssels generally were empty, and appeared to have been thoroughly drained by the bleeding which had taken place into the stomach.
A. Midgley Cash, M.D.

Torquay.

## SURGICAL MEMORANDA.

ACCIDENTAL CURE OF HYDROCELE.
J. H., aged 50 , an engine-driver, has had a hydrocele for the last ten years. I have tapped it on three ocessions, and drem off (1) $14 \frac{1}{\frac{3}{3}}$ ounces, (2) 16 onnces, and, lastly, $17 \frac{1}{4}$ ounces of fluid. He would never sanction the ijjection of iodine. A fortnight ago, whilst carrying a heavy basket, he rubbed the rim nf the basket against the hydrocele, which ras about ready for tapping again. The whole sac inflamed, and then subsided, and to-day the scrotum, when examined, appears quite natural, and beers no traces of ever having been distended by about a pint of fluid.
II. G. Mone, M.R.C.S.

East Bridgford.

## REPORTS

## HUSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT britain, ireland, and the colonies.

## maNOHESTER ROTAL INFIRJIARY. suture of tendons.

(Under the care of Mr. T. Jones, F.R.C.S.E.)

Case 1.-F. L., aged 35, was adnitted on September 9th, 1557. Three months previonsly she had cut her right haud severely whilst cleaning a window. The wound healed well. On admission, it was found that she could not flex the middle finger of the right hand. Several scars wero risible, one more promineut than the others, running in a transverse direction, half an inch in front of the superficial palmar arch, snd situated over the third metacarpal bone. llalf an iach above this eicatrix, a small rounded elevation conld be felt, which was looked upen ae the proximal end of the cnt tendon. Under chloroform, an Esmarch's bandage haring previously been ajplied, a Fertical incision, an inch aud a quarter in length, was made, its efntre placed over the rounded projection atove referred to. The proximal end of the tendon was readily found, an 1 the distal, after a little diffculty; the latter was closely adherent to the shesth. These adthesions having been scparated, an attempt was made to appreximate the ends of the severed lendon, but ic was foun I that the tension was rery considerable. The following plan had then to be edepited. An is ision Fas made into the proximal ead of tho tendon, in a transretse directinn, and taken as far as its centre; the knife was then carried forwarde, so as to split the tendon downwaids in the middle, to within
an eighth of an inch from its dirided end. The flap of teadon so separated was now turned forwards and stitched to the distal end by menas of catgut. Thero was little at ma haemerrbage when the bandage was remnred ; tho wound was well washed with a saturated solntien of fluesilicate of solium, snd the edgeo brought together with silver outures. The finger was kept llexed for nearly three weeks, wheu it was foum that firm uniou had taken place, and eonsiderable resistance comlel now bo offerell to any attempt at passive cxteusion of the finger. Two months later, sho could iles the finger without any dilliculty, and was able to fellow her ordinary houserrork; previeus to tho operation she had beoo uasblo to do so.

Case II.-J. W., aged 31, a sawyer, was admitted on Soptem. ber 22 ad , 1857. A ferv hours proviensly, his right hand had been caaght by a circularsars. On admissioa, he was found to be suffering from a lacerated womed of the right hand, on the minar side of the dersum; in was abont one inch and a half io length, and extended in a direction upwards and inwards, its centre being situated over the knuckle of the fifth metacarpal bone. The extenser tendons of the riag and little fingers were divided, and the head of the fifth metacarpal bone was splintered.
Oe the afterneon of the same diy, under chloroform, the splintered portions of the head of the injured metacarpal bono were remered, abont a quarter of an inch bcing taken away altogether from the lewer end of the bono. The cut tendeas were then sutured with catgut, the divided ends boing brought into apposition; the weund having been well washed with c crbelic letion ( 1 in 20 ), was sutured with silver wire, and dressed with ioleform gauza and a woed-wool pad. The fingers were fixed in an extended position on a straight splint, the anterior part of which was well padded.

The patient got on rery well ofter the operation; the temperature romained nermal. The walld healed by granulation, and, when sent to Cheadle thirteen dajs alter the operation, a healthy granulating surface was visible.

December 20th Tho patient cams to show himself about a fortnight ago ; he could extend his ring an 1 little fingers quite well, and was able to follow his eccupation.
The patieat was presentel to the meeting of the Manchester Medical Society on Ducember 21st, 1887 ; the parts were soundly healed, and the porer of active extension had been restored in the injured fingers.
Case mi-T. L, aggil 21, a sowser, was admitted on September 19th, 1887, sufferiag from a cut hand. He had caught his left hand in a circular saw, cansing a lacerated wound aboat one inch below the wrist, extending from the dorsum of the fifth metacarpal bone at its ianer side, ronal to the palm of the haud, oxtendiag a little ferwards, as it weat round, as far as a peiat ane inch and three quarters from the ulnar borler of the hand. The tendens on the dorsum were intact; bat the flexor tendons of the fourth and fifth fingers sere completely divided. Under chloroform, the dividel ends of the tendons were found, but with great difficulty, owiag to the great laceration of the tissncs aud the blecding into the tissues; the divided cuds were drawn together, and made to overlap slightiy, being fixed by meaus of catgut sutures. The wound was then well washed in carbelic lution ( 1 in 20), several wire sutures being insartel ; a horsehair druin was introluced. After dressing it with iodoform gauze and wool-wool, a pasterior splint was applied, so as to flex the wrist aml fingers, the elbow being kept in a flexed pesition by means of a baudsge reund the nock, serving as a sling. The tem. perature was irregular for the first fery days, but soon came dern; the wound henlel ly granulation. For domestic reasens he was allowed to ge home on Sef tenbor 24 th, 1837, and was made an out-patient.

When seen on December 21st, he was fonad to possess very good nao of his ring and little fingers. There were, however, tome adhesions between the cicatrix and the deeper structares; and it is sng. gested to seprate these, in order to render the movements of the fingers still mero free.

Trafee Union.-The Lacal Government Board, Ireland, have sanctiencl the aprointment of Dr. Hayes as medical ollicor of the Tralee No. 1 dispeusary district. When elected, Dr. Hayes's salary was fixed at $£ 100$ per annum; but natice of motion has been given to increase it to $£ 120$, as uasuinnously recommended by the dispensary cummitte?.

Thr Ranstatf. Shootisg Case.-Dr. Savage and Dr. Foibes Winslow, who were officially appointed to visit the prisence, Richardson, at Cinaterbury, with s viow to forming an opinion as to his mental condition, hare expressed the opinion that at the time of the act lie sias of unseund mind, and that he continues in the same state.

# REPORTS OF SOCIETIES, 

PATHOLOGICAL SOCIETY OF LONDON.<br>Tuesday, January 17 T , isss.

Sir James Paget, Bart., F.R.S., F.R.C.S., President, in the Cheir.
Faccinia.-Dr. lilean, Fili.S., exhibited and demonstrated the vesicles of vaccinia in the calf which Professor Croekshank had exbibited to the Seciety on December 15 th. This calf had been inoculated by Professer Croekshank in the second generation from the Wiltshire boy, also shewn to the Society on that occavien. This animal had subsequently becn inoculated with cow-pox at tho Natieasi Vaccine Establishment, and when exhibited to the Saciet y on this second occasion the calf presented well-marked vaccinia. Anether calf, also iesculated under the same couditions by Professor Crookshank, also took vaccinio when subsequently ineculated at the National Vaccise Establishment. These facts Dr. Klein had expressed In the following table

WILTSHIRE BOY.


Calf 3 was further inoculated with Warlomont's lymph, but dil not take.
Calf 4 was further inecnlated with human lymph in six pluces; result doubtfal. Calf 5 was further inoculated with cow-pox at Lamb's Conduit Street Animal Vaccination Station ; it took well.
Calf 7 was exhibited at the Pathological Society on December $15!\mathrm{h}$, It was forther inoculated with cow-pox at Lamb's Coniluit Street Animal Vaccination Statiou; it took well, and was again exbihited to the Society ou January I7th.
Dr. Klein considered that the experiments had been spoilt, owing to calf 3 haring been ineculated with stored calf 1 smph , which it was known was nat reliable; and to calf 4 havirg been inoculated with lymph from a child's arm. A calf vaccinated at the National Vaccine Establishment in the ordinary course, was also exhibited fercomparisen.
Carcinema of Gall Duct.-Dr. Norman Moore shawed specimens of primary carcinoma of the common bile duct. The tirst case was that of a man aged 44; the micrascopic section seemed to shew the development of the carcinoms from the large flattened epithelial cells of the common duct, and its extension outwards inte the dnct wall. The cells lay in the meshes of a well-dereloped stroma. The liver was only sifightly affected at a for isolated points; the lumen of the dnct was enlarged, and the surfaco slight'ly bile-stained. The ducts in the liver wre not dilated, and there was no cirrhesis. Jaundice and emaciation were the most neticeable symptoms. No carcinoma was present in other organs. The second specimens were fram the case of a woman aged 63, and had been made through a dense mass of new growth, which occluded the common and the cystic ducts. The gall bladder was allherent to the walls of a small hylatid cyst, containing caseous material ; there wero no deposits in the liver, the bile ducts in the liver were dilated, and that organ was cirrhosed. No secondary grewths were found in other ergans. The tumeur was an epithelioma. The most prominent symptoms were pain, jaundice, emaciation, and hepatic enlargement ; they had existed for twe ycars, bat had been eevere for ealy six months. The diagnosis in these cascs was difficult, and had not a careful microscopical cxamination beca made, the first case shown might have been set down to catarrh of the bile ducts.

Abscess of Brain and Adcrema of Pituitary Bedy in a Ewe -Mr. W. K. Sibley showed specimens taken from a clae, aged 2 years. The animal had been apathetic, ill, blind, and deaf for some time. It was killed, and the post-mortcm exanination revealed plounal adhosiens, small nodules in the lunge, and a large abscess in the right revehral hemisphere ; thers wno gercral meri in लitic Tha nodules in the langs were due to nematode werms (strongylus pilaria), such as were frequently present in the lungs of sheep. The bronchioles contained vegetable debris. Sections of the pituitary bedy presented all the opyrarances of an adenoma. The luags also coutained smail abscessey. He discussed the mode of origin of the cerebral abscees, and rejecting the theory of pyemio, suggested that this was the primary lesion, and that it bad becn set up by disease of the cranial hones which had been feund after death. The merbid condition of the eentral nervous system might have disturbed the nermal correlstien of nerve-influcnce between the brain and the palnenary tissue, lowering the vitality of the latter; this lowered vitality pormitting the breaking dewn of the conselidation preducod by the parasites, whichpon this theory woald be atributable not to pyemia bat to a
trophonearosis. Mr. Sibley also commented on the rarity of tumour of the pituitary body. - Professor Brown said that it was rare to meet with a epecimen of the lungs of the sheep in which these nematode worms were not present. Vegetable debris frequently found their way into the bronchi in the death struggle.

Cystic Epithecioma of Neck:-Mr. SyMONDS read notes and showed microscopical sections of a case of cystic sqnamons epithelioma of the neck. The patient, a man gged 56, came to Guy's Hospital in Angnst, 1883, with a tumour in the right side of the neck. It extended from the angle of the jaw to the middle of the thyroid cartilage and from the sterno-msstoid to half an iuch across the median lino. It was connected with the thyroid cartilage and over the ceatre the ekin was adherent ; otherwise the tumonr was fairly movable. It was freely circumseribed and gave an indistinct sense of fluctuation. There was no evidence of nerve implication. No ulcer or growth could be found in any part of the mucous membrane of the mouth or pharynx, so that the growth was considered to be a ssrcoma, thongh the brawny condition of the implicated skin, the position to the larynx, and the pain resembled more closely the epithelial growths. The mass mas extirpsted on September 7 th, the vertical elliptical incisions including the infiltrated skin. It proved to be widely snd closely adherent, and its removal involved 63 crifice of portions of most of the muscles in the submaxillary region and one inch of the internal jugular vein. The pharynx and sterno-hyoid membrane were exposed, as well as most of the chief arteries and nerves. The growth proved to be a large thick-wailed cyst filled with sanions fluid containing flakes of epithelial debris. Several enlarged glands wore also remored. The wcund nnited without suppuration, but in four weeks recurrence had taken place to an extent rendering all operation useless. The wall of the cyst was five-eighths of an inch thick, white on section, and showed under the microscope a typicsl epitheliomatous stracture.

The Relation of the Hendon Cow Discasc to Scarlet Fever. - Professor Crookshank, before reading the paper which is published at p. 122, protested against his calf ( 7 in above table) having been exhibited withont his having been consulted. He did not object to the Society seeing the calf, beesnse he wished to tell them that it was not protected. The three calpes 5,6 , and 7 were inocalated from calf 4 on the seventh day of the eruption, when, that is to say, it was in the pustular stage, and Bryce had pointed out that the flaid in the vesicles in the advanced stage was unfit for propagating vaccinia ; the attainment of this staga was marked by the fluid becoming puriform. The calf shown by Dr. Klein on the present occasion was inoculated sfter the lymph had become puriforn. Fonr calves were inocnlated direct from the Wiltshire boy; two of these took and two did not. ${ }^{1}$ In the two calres which took revaccination, so far, had completely failed. Three calves wero inoculated from one of the two first which had taken, but as had been said this inoculation had nnfortnnately boen made rather too late-namely, after the fluid had become purifarm. The two calves were therefore not protected, as was known would probably be the case from the writings of Bryce. ${ }^{2}$, It was one of these calves, which had been vaccinated at the National Vaccine Establishment which Dr. Klein had brought to the meeting. He (Professor Crookshank) thonght that if this was to hare been done, it would have only been fair to have shown one of the first calves that had not taken when revaccinated. He thought that for one ohserver to publish part of the as yet nupublished researches of another, and to show ono of his snimals without his having been consulted, and bsen allowed to give his version of the results, was an avent unparalieled in the history of the Pathological Society of London. Professor Crookshank also showed a boy, a milker, from Wiltshire, who had suffered from the spontaneons disoase ; he presented depressed scars on the back of his hand. He asked the Society to test the accuracy of the drawing he had ahown at the special meetiug of the Society.-Dr. Klein said that Profossor Ctookshank had given a great masuy facts about the micrococcus pyogenes, bnt he had not said angthing, new about the micro-organism which he (Dr. Klein) had observed in scarlet fever, nor given any observations of his own about it. This was the im. portant point, and Dr. Klein said that he msiutained that the micro-

[^14]organism which he had found in the Hendon cowe and in human acarlet fever was not the aame as the micrococcus pyogenes. Professor Crookshank had, indeed, ssid that he was nuder the impression that the two organisms were the same, bnt in reality he would not be coimpetent to express such an opinion until ho had accepted Dr. Klein's offer to present him with the micrococcus scarlatinos in order that he might compare them. Professor Crookshank showed microscopical ections of the kidney of one of the Wiltshire cows contzining etreptococci, but this cow had a large abscess in the ndder, and Dr. Klein, who had also examined the kidneys, had proved them to be fall of miliary abscessas, that is to say, the animal was suffering from pyemia; auch a condition conld not be compared with the description he had given of the morbid changes in the Hendon coms. Agrin, the sections of the nleers of the skin had been made in the second reet of the disease, and could not be compared with his descriptions of ulcers examined in the first week. There were also marked clinical difierences. Dr. Klein dwelt especially on one, namely, that in the Hendon cows the alcers only commenced on the fourth, whereas in the Wiltshire cows they were at their height on the fifth day. In the Elinburgh cows, to which he had referred at the special meoting in December, the nlceration occurred still later. So that they piobably had to do with three diseases, and not one. He maintained that the symptoms in these three diseases were different, that the prograss of the ulceration were different, and as to the Hendon cows and Wiltshire cows that the post-mortem appearances and micro-organisms present were differant.-Dr. Collivs had visited the Wiltshire farms with Dr. Crookshank, and was able to corroborate the local evidence brought for rward; the milkers stated that the disease was rare, bnt was not unknown to tha older of them ; they named it cow-poz.-Dr. Thorye Thorne concisely snmmarised the different statements in relation to the whole question, and showed that no conclusion could be drawn from sueh conflicting evidence. Of the Hendon cow disease Professor Axe had said that it was a well-known and a common disease, he hal seen it often, and that, whilst it was prevailing, two boys became inoculated and developed vaccinia, and that, therefore, the Hendon cow disesse was exonerated from any participation in the outbreak of tha London scarlet fever. Dr. Crookshank stated that it was a well-known and not an uncommon disease, and adduced a case in which a boy was inoculated and developed raccinia. In contrast with theso statements Dr. Thorne remarked that in 1850 , when the Local Government Buard established a calf raccine station, Dr. Buchanan spared no pains to find a case of genuine cow-pox wherewith to start the inoculations, and could find none. Lately certain calves and certain boys were inoculated; but the bog shown that evening by Dr. Crookshank as having caught cow-pox from the discased cows presented old large vaccine marks of the usal kind on the arms; again, the calves which Dr. Crookshank had inoculated had been three or four wealk snbsequently invculated at the calf vaccine station with raccinia, and had developed the trpical disease. The speaker considered that the only procise investigation wes that originally undertaken by Drs. Pomer, Cameron, and Buchauan; and he thonght that the evidence adduced by these mriters in regard to the Hendon cow disease was reliable. - Professor Brown concurred with the last speaker in his view that the whole subject was at present in hopeless confusion. - Dr. Pringle stated that durijg thirty years of service in India, he had seen no case of cow.pox in the cow. Small-pox was quite common in the natives, bat ho had nerer seen it communicated to the com. In tro cases of apparently trite vaccinia in the cow, he had inocalated children and calves from the clesr flaid, but had uniformly failed to commanicate the disease ; and he contended that the possibility of transferring the discass was the sole reliable means of establishing its identity.--Dr. CoEy observed that the cicatrices on the hand of the bay shown that evening by Dr. Crookshank were not those of typical accinia.- Professor Cboukshawk, in reply, denied that he had asserted com-pox to be very common in the sow ; it might occur in outbreaks at long intervals ; moreover, many outbreaks would be snceessfully kopt baik from sight owing to the injury farmere would suffer from their disclosure. As regards the boy exhibited, the disease bore resemblance to that described by Jenner; and with respect to the incommunicability of the diseaso to the calves which were subsequently succcssfully inocnlated with raccinia, ho pointed out that the lymph with which the calves were first incoulated was taken begond the proper date, and that this would account for their escape. - The Pressidext commented on the singular likeness between the disease on the face of the byy previously shown by Dr. Crookshank and Ceely's dramings of vaccinia He remarked that Professor Fiein held that there were three different diseases under discussion; and in face of the more recent differentiation of disease in mau, he conld not help believing that tlec same would be found true of disease in animals.

## CIINICAL SOCIETY OF LONDON <br> Firiday, Janeaiv 13tir, 1853.

W. H. Brondmest, M.D., F.li.C.l'., Presidont, in the Chair. Obstr. Iions of the Foreets bll large Gall Stomes.-Dr. Maclagan zoad notes of cascs. Caso I. - lietween the middle of July and April 6th this paticut had fonr ditferont attacks, each lasting from three to six layy, a!l characterised lyy acote griping pain in the ablemen, sichues, nsusou, and temporary obstraction. About a fortnight after tho last attnek the patient voided at stool tirat one, then another, then a thitel, and two daya later a foarth gall stone. The stonea (which were shown) areraged about an inch in diamoter. During the whole tloess there existed a tumour about the size of the fist betwecn the mabilicus and the liver, just to the right of the midule line, in the region of the gall badiler. After the otones were voided there was no more eeveeo pain, bat constant nausea. The liver increasel much in size all over, aud very rapidly. The patient gradually sank and died. On pose nortem oxamination, the liver was found to be very nuch cularged and fatty. The gall bladder communicated with the duodenum by a freo opeuing. I'here was mach inflammatory thickening all eround. A fifth gall stone wes found in the remains of the gall bladier. In Case 11, there was a swelling of the size of a lien's egg in the region of the gall bladder, teuder on liressure. This sudden?y decreased in size. Immodiately succeeding this diminution there were developed symptoms of acute intestinal catarrb, followed in A fer days by those of intestinal obstruction. The obstraction lasted for three reeks, and was then reliered. Treatment was by norphiso and nutrient enemata. The patient gradnally improved, and continned to do so for six or seven weeks, after which sho again hal a recurrenco of the old sfraptoms, with renered obstruction, lasting for a lorinight. A third attack supervened. At the same time the temperature rose, and marked tenderuess was developed over the region of the liver, and the patient gradoally sank and died. No post-mortem exsmination was outained. After the first attack was over, there was felt to be something in the right iliac fossa, causing tenderness on firm pressure, and proventing one from getting the hand freely into the lossa. This continued for a fortnight. The tenderness then disappeared, and the hand coald be pressed into the fossh. At the sare time s hard lump ras felt jost abave the crest of the right ilium. This was believed to be the stone, which had passed from the cascum into the ascending colon.

Laparotomy for Obstruction from Gall Stone : Recovery.-Mr. Clutton described the case, which was that of a roman of 70 years of sge, whose abdomen was opened on account of obstructiou, which was thought to be doc to an impacted gall stone. The calculus, being felt in tho lower end of the ilcum, was pushed through the ileocir jal ralve. The patient was relicved of her eymptoms, and made a perfect recovery. Alr. Sidney Harvoy, under whose care the patient Las beca for some years, was sble to diagnese the probable presence of $2 n$ irupacted gall stone from the fact that, fifteen months before, she had passsid a large facctted biliary calculus, and from that time, as long as she remained under treatment, he was unable to find a tumour in the position of the gall bladder. The symptons of obstruction begran absut twenty-four hours before the operatiou was performed, with sudden acute paim in the abdomen, and pomiting. On exsmica tiou, Sle. Harvey tound that the tumour in the position of the gall bladdor had disappeared. Tho operation Tras undertaken at this carly period on account of the age of the patient, the exhaustion that had z'reads been induced, and in the hope that the stone which was believed to bo the caaso of obstruction could be pushed through the Eleo-cacal ralve withont opouing the intestive. This proved to ho the case, for the calculus was found close to the valre, and morable. Some difficulty was experienced in pushing it through the ileo-cesal ralve is the colon; bnt, this liaring been overcome, the calculas was left to fion it own way aloug the rest of the largo intestine, and was pasued naturaily in live days after the operation. The calculus was gyratnidal iu shape, the base measuring 33 -10 iuches in circumference. TUE l'rendpast said that these cases raised two questions: mamely, the ralue of lapareturay for cases in which large gall stopes were in the smali intesting, and the time at which the operstion should be dono. In one of lur. Maclaran's cases (in which he hingelf had slao been coosulted) the gall stone could be felt in the bowel, near the ileo cancal ralve. It was interestiug also to notice that the swelligg at the kill thahter disapleared just as the intestinal obstruction commotief. Ins himself lad only acen one ense of achte intestival shetruction by gall stoues; that was in a pationt oged 00, asd was fatal in four or tive days. The gall etone was found, on iuspection, anot ) have travelled more than half the leagth of the ennall intestine. Ite asic.! whether it wurld be safe to open the bowel and romove the
gall atone on the spot, or whethor it wonld not lo better to attempt to pass the atone on throngh the remainder of the small intestine tu the colen, as dene by Mr. Clutton; whilst Dr. Maslagan's caso gave much encouragerucst to wait, as the stone might eventually pass paturally ?-Dr. Ord suid he kad aeon three cases of obstruction of the intestine by gall stone. The tirst was that of $8 n$ old lady whe bad had seretal attacks of biliary colic, and at last one. of uxtravilinary violence, at the eull of rhich she passed a stone not at all unlike that showa by Dr. Maclagan. In twonty four hours, howrever, ohe had snother attack, with vomiting and symptoms of poritonitis. aud obstruction. She dicd shortly afterwards, and at the post-mortem examination a stome, as large as the top of one's thumb, was found tightly grasped by the wall of the small intestine, not far from the iluo-cecal valve. It seemed to have entered through the gall doct, the liver eud of which was markedly dilated. The atenc seemed to have worked its way down the tube, until quita near the end, when it had reut the tissuea to get into the intestine. In similar casea be should tend to adopt the principlo of waiting, whilst using opium to relieve the spasm; though bis next case told the other way. This palient he had seen with Mr. Thomas Smith. She was a lady over 65 years of age, in whom acute signs of obstruction of the borvels. had saddenly oceurred. There had been na previous history sug. gestive of gall stones. Mr. Smith onened the abdomen and drew out a gangrenous, or almost gangrenous, piece of intestine, but he could. at that time find no obstruction. At the post-mortem examination be found, just sbove the semi-gasgrenous portion, a large gail etone measuring $i$ inch by 1 inch. The third case was in a moman, who, soen after ber confinement, and not having had any sigus of biliary colic, had a sudden attack of obstruction of the borrels not iar within the sphincter, where a hard subatance was felt, which turned out to be au impacted gall stone. This was of so large a size that it mast have ulceratod through into the intestine, yot without giving rise to any pain or juundice.Dr. Giebons quoted a case in which the pstient had suffered for some yeara from biliary calculi, and had been put on a milk diet by her medical attendant, with the view of preventing any further formation. For some reeks previous to her death she had been, for her, in good health, but abont ten days hefore her death she was soized with vialont pain in the abdomen, and all the signs of biliary colic. She recovered from this, bat for two or three days before her death she felt
unwell, and sent for unwell, and sent for her doctor. In the night ahe was seized with a fit of vomiting, and fell back dead. The post-mortem examination revealed the presence of a large stone, which hal passed along the bowel and become arrested near the cacum, which had been perforated, causing collapse snd desth. -Mr. Barker showed a calculus which he had removed from a lady post mortem. It had ulcerated its way into the duedenum, and had passed down to the upper part of the ileum, where it was tightly grasped by the bowel. It could not bo moved downwards, though it conld be easily pushed upwards. It would, therefore, have been very difficult to press it down through tho ileo-crecsl valve, as recommended by Mr. Clutton. The atone measured four inches in circumference. At present he would hare operated on the patient, Who was under Sir Willism Jonuer, Mr. Erichsen, and others.-Mit. Camistophen. Heath said he had no experience of operatire interference in these cases, but ho had certainly obtained good results in renal calculi by rubbing. IIe thought it ras quite poasible that, with the natient undar chloroform and the abthrough walls quite relaxed, the stone might be pushed on tive interfeience were not such as to inspire too great confidence. Mr. Knowsley Thoniston congratulated Mr. Clutton on his successful operation, which he could not belp contrasting with Dr. Maclagan's case, in which the maiting plan mas not rery suc. cessful. He thought it would be better genezally if surgical interlerence in these cases was prompt, nud if the stone was pushed down before the intestine became inflamed. He suggestid that it mas probable that the stone "played" up and dorn, until it caused irritation and became grippod. In Iespect of the operation, be alludel to Mr. Luwson Tait'a suggestion that the stone should to pushed to a healthy part of the intestino and there crusbed with pisided forceps ; for these stones were generally easily broken with very littlo force. Or they might be split np by puncture with a fine nectlie 1 asse $l$ into them through the coats of the bow $\in l$. The tragrmits conld then bo pushed on through the ileo-çecal valve. Mes litt'o risk was equeed by such puncture of the intestine. who wes admitted with achite peritenitis, radating Hoan the rechnt The abdomen was oponed, ontt tho intestipes wero examined. No sbitruction, bowever, wha lound, aul, althoush the operation efforded
some relief, the patient died. At the post-mortem examination there was found uiceration near the ileo-crecal valve, and a gall stone was discovered lying behind the bawel outsida the peritoneum, on the quadratus lumborum muscle. - Dr. Glover remarked on the cases treated simply by the administration of 12 or 16 ounces of olive oil, by which the passage of the stones was said to bave been much facilitated.- Dr. Maclagan, in reply, said that in Dr. Ord's case the stone was so largo that it was probably ulcerated through into the traneverse colon, and not into tho small intestine. As regarded the question of operative interference, if the mass in the gall bladder consisted of one very large stone, which was so large that it could not pass through the small iutestine, one should advise operation; whereas, if the nisss consisted of three, four, or more stones, as they could probably each pass slong the bowel, one might in that case counsel delay. Both his cases bad died of inflammation of the liver, not of inflammation of the small intestive. Mr. Clatton had advised speedy operation, and had said that the stone would generally be found near the ileo-cæcal valve. But as it required some tive to enable the stone to travel to that point, it probably would not, if the operation were done at an early stage, be found so low down. The rubbing which was resorted to in his case was to relieve the tenseness of the abdominal wall, not to assist the onward progress of the stone. He did not think in his case the administration of oil mould have done any good.-MIr. Clutton said that his remsrks in favour of early operation applied only to eases of urgent obstruction. In Mr. Treves's book were recorded twenty cases of acute intestinal obstruction, dne to gall stoues; of these, forrteen had died, and only six recovered.

## harveian society of london. Thursdiy, January 57e, 1889.

Edmund Owen, M.B., F.R C.S., President, in the Chair.
Sporadic Cretinism. -The President showed a case of this disease which had been sent to him by Dr. Davson; the child, aged $5 \frac{1}{2}$, had been born in the Hampstead district, of healthy parents. She looked about three or four years younger than her actual age. She had been weaned at three years, but was still fed from the battle. Amongst the chief clinical features were the large mouth and protruding tungue, and the absence of all trace of thyroid gland ; the presence of diffuse tumours over the subclavian triangles, and of large and rounded limbs. The child could not walk or stand, neither could she speak. Reference was made to a valuable paper which was contributed nearly forty years ago by Mr. Curling on two similar cases, in which he sug. gested that the physical and intellectual defects in those children were probably due to absence of the thyroid gland depriving the economy of certain assimilative processes. Mr. Owen then referred to the work of Kocher, Ord, and Horsley upon the subject of cretinism, which he called the myxcedema of childhood. He was of opinion that the characteristic deposits in the neek, as also those which shrouded the muscles of and thickened the limbs, were the result of mucoid infiltration of the subcataneous tissue, and not of the nature of fat. He concluded by calling atteution to the inportance of Mr. Horsley's rivisection experiments upon monkeys, by which it had teen amply shown that the removal of the entiro gland was likely to be followed by progressive myscedema, Mr. Victor. Honsley thought the case a striking example of the disease. With reference to the kind allusion of the President to his own work, he wished to mention that Munk of Berlin had challenged his results. As he would take another opportunity of replying to Munk's statements (which could be easily explained), he wished only to remark on what appearcd to him to be the most pressing problems connected with the destruction of the thyroid in these cases. There were three forms of the one disease resulting from atrophy of the thyroid. They were: (1) intra-uterine cretinism (child always born dead) ; (2) sporadic cretinism of childhood, in which there wes early extra nterine loss of the gland; (3) adult cretinism, or myxcedema of middle life. Now, we were familiar in the last form with the congestion of the gland, its invasion by leucocytes, nud its subseqnent atrophy, with destraction of the gland tissue, bat we were ignorant of what like destroying changes occurred in the thyroid in the first two forms. The solution of that question he desired to urge upon the attention of pathologists. In conclusion, he agreed with Mr. Owen that the resiliency of the arms seemed more than fat and connective tissue would acceunt for, but he thought we must be rery cantions iu attributing the whole to mucin, for, as he himself had shown, this element in the case was wanting where the chronicity of the disease was notably increased.

Extensive Tubcrcular Discase.-Mr. Qearex Silccek shoted a cas
of a young man, Tho was admitted to St. Marj's Hosrital in June, 1886, suffering from tubercnlar arthritis of the left ankle-jaint, tubercular nephritis, and tubercular abscesses on the front of the sternom. After consultation, he had emputated the leg in the lower third, and scray ed the tubercular abscess, the man's general condition greatly improving; the hematuria diminished in amonnt, the abscess cn the front of the sternum cicatrised, and the stump had practically healed when the patient left the hospital. Subsernently, however, the stump was damaged by a fall, a tubercular periostitis of the npper third of the fibnla resulting therefrom, which, althongh scraped and otherwise combatted, was exceedingly intractable to treatment. Accordingly amputation through the condyles, after the method advocated by Sir Joseph Lister, was donc in June, 1887, with excellent results, for although the nephritic symptoms (hæmataria and lumbar pain) were at that time very marked, the wound healed by first intention, the man being up on the ninth day from the operation. Mr. Silcock pointed ont the apparent hopelessness of the case when first under observation, and cited it, as exemplifying the now well recognised doctrine, that where several tubercular lesions co-existed. the removal of one tended to the amelioration of the symptoms attending the others. He remarked that at some time, in future it might bs thought advisable to attack the renal lesion, for the hæmaturia and pain attendant upon it were becoming increasiagly severe.

Trephining in Pre-historic Times.-Mr. Victor Horslex, F. R S., delivered an sddress upon this snbject. He commenced with ibree propositions concerning the operation in the neolithic age. which he proceeded to maintain by the help of lime-light reflections apon a screen; he also exhibited specimens of the fint instruments of the period.

## WEST LONDON MEDICO-CHIRURGICAL SOCIETY. <br> Friday, January 6te, 1888.

C. B. Keetley, F.R.C.S. iu the Chair.

Living Specimens.-Mr. Whitwore exhibited a male patient from whom he had excised a Portion of the Rectum for Malignant Disease. -The Specimen and Microscopic Sections prepared by Dr. P. S: Abrahas were presented. - Dr. Spicer shomed Three Patients from whom Laryngeal Growths had been remaved.
Syphilitic Discase of the Eyc.-MIr. J. Hutchinson, jun, showeả two cases of syphilitic disease of the eyes presenting unusual featares. The first, that of a woman who had lately suffred from severe tertiary symptoms, came ander care for ulceration of the upper ejelid, with surrounding thickening; a small gumma sloughed out, and on the conjunctival surface a second ulcer appeared. With iodide of potassium internally and iodoform locally the ulcer healed, and at the same time a gummatous ulcer on the palate cicatrised. In the second case, a girl, aged 17, with inherited syphilis and typical teeth, there had been double iritis, and while under trestment interstitial Eeratitis appeared in hoth cornere. Two small gummata developed in the inflamed iris, and had become absorbed under mercurial inunction. Since then iritis and keratitis had relapsed, but were disapparing with specific treatment and tonics. The rarity of gummata of the iris and tertiary ulcers of the conjunctiva was the reason for exhibiting the cases.-Dr. Marsden Low, Mr. Whitmore, Dr. Benvett, Mr. Llorn, and Dr. Alderson made remarks, and Mr. Hurcuissos replied.

Tasal Trcphinc.-Dr. SpICER exhibited a revolving trephine, worked by an electro-motor, for remoring bony growths from the nasal passiges.

Epithetioma of Larynx.-Dr. Abrafany exhibited microscopic sections of epithelioma of the laryns which had been removed by Mr. Keetley, and remarked npon their chatacters.

## ROYAL ACADEIY OF MEDICINE IN IRELAND. Medical Section. <br> Fridat, December 16if, 1887.

James Little, M. D., President, in the Chair.
Argyriasis.-Dr. A. W. Foot, a propos of the discossion in this Jourval, on absorption of silver nitrate applied to the threat, read notes of a case in which the solid caustic had been spplied to the throat for eight years, and was followed hy silver-staining of the skin and mucuus membranes. - Mr. Firzaibrov meutioned trooinstacees of d'scoloration of the skin produced by the continued application of nitrate of silver to the throat, but he had no doubt the discoloration wes due to the solution having been swallowed. He attributed it to the effect of light unon the white chloride of silver as in photography. Iodide of
potassium hail boen usell, with marked though nat complete benefit, in zemoring the discoloration. -Dr. Hean said he knew a lady whe, sutl ring from vasinitis, was trented with nitrato of silver by injecting a daschus of th gro anlution into the vagina, and in two years she liocane quite akin-stained. - Dr. DuFFEX loiutin! ont that a case hard bece recently reportol, in which the local application of nitrate of milver to an uleer on the leg was followed by discoloration of the skin. - b'r. Srory said the local application of nitrate of silver to the conjancival sic, which was a commen procerlure seme years ago, had otten producel very deops disceloration, turniog the whites of the eges "mite black.-Dr. Ball asked as to silver fonnd in the liver and killuevs ; how its depusit thero was to be accounted for by the action of light? - The l'residest observed that Dr. Hearl had disposed of the theory that staining was entircly dne to swallowiog the fluid.-Dr. Four, in reply, said the silver depa-ited in the liver, kidneys, spleen, and viseers was metallic silver in the oxidised or reduced form, and was inditierent to light.

Cerebral Tumour.-Dr. Kendal Franks read a paper on a case of corebra! -20mour. The patient was a married lads, aged 10 , who in June, $188^{\circ}$, for the first time was seizsd with an epileptiform attack. These attacks recurred with diminishing intensity every four or five days until tho middla of July, when they were replaced by modified attasks of pelit onal. After the first attack she exhibited symptoms of anuefic ap hasia. At first this was very slight, but after each epileptifonn attack became more marked. IIeadacho gradually developed, sometimes becoming rery acute, and was always referred to the top of th. heal a bout the coronal suture, being most marked a little to the left of the bregma She came under observation first on September 7 th. Cerebral vomiting appeared for the first time on September 9th. On September 13 th a paralytic condition of the bladder, necessitatiog the trequent use of the catheter, appeared; this lasted for fire days, then disappeared for ten days, and finally returued on September 28th, and lasted until coma superrened. The only other paralytic symptoms which appeared were, on September 25th, some almost inappreciable paresis of the right cxternal rectus, giving rise to a certain amount 1): diplopis ; secondly, on Oetober 3rd, a partial paralysis of the right sibicularis inusile; and, on October 4(h, partial paralysis of ihe malate. A tumour in the left side of the brain was diagnosticated, but its uatare and exact position, Dr. Franks maintained, it was impossible to foret 11 by the symptoms proluced. That there was a tumour aud nut an absecsy, as was beh by Mr. Wheeler, who saw the case in consultution on Oituber 9 th, was proved by the history of the casothe total absence of any predisposiag cunse, the gradual onset and progress of the disease, without any rigors or pyrexia whatever, until three days before ileath, and by the total absence of all symptoms of pus furnation. Mr. Wheeler, who saw the case the day before death occurted, wished to trephine over Broca's space on account of the aphasia, but Dr. Franks objected on tho grouuds that none of the symploms iodicated Broca's space as the scat of the lesion. The only localisiag symptom was the aplasis, which was only partial sud was of the amnosi? variety; and therefore if it indicated one spot more than another, it pointed to the posterior portion of the parietal bono, the augular gyrus, the posterior part of the iufra-margiual conrolution, and the posterior portiona of the superior and inferior terppro-sphedoidal couvolutions, and the central portions of theseparts mas more than three iuches from Broca's sidace. The post morlem examination slown? that tho fosterior half of the tenporosphenoidal lobe was occupied by a cavily, extending two inches in autersposterior diametur, coutaining perfectly clear serman. The cavity hal fo true cyst wall, but was bouuded by disintegrating hrain tissue. The uicroscope failed to revoal any tracu of inllummation, or of any ohl biodelut. The ucarest part of tho cavity to Brocas space messirell wnaly two inches. Dr. Franks maintained that to have ex. plorel the hirain by means of a grooved ucedlo throngha a trephine openiog ovar liroca's space would probably havo faited to reach the cyst, and it at, ovin hal it been reached, the anount of damage which probably woull havo been inflicted in the ecarch for a tumour whose situat ob man so uncertain would havo beon such that no prudent surgeou would williggly have made the attempt. He strongly objected io Mr. Wheclares statement that tho mst.mortem eximination corroborate 1 his diagnasis. - Mr. Winmplets said: On the 6th of October last a huar connection of this pationt wrote to me askiog me to arrange a consuliation with 1)r. Franks the noxt erening. As I was unable ts go at the desired time, I was further requestad thy the same relative on the 8 th $t$, see the patient by meself tho following day, who atated that it was at Dr. Franks's request. As be would nut seo the patient natil late next erening, 1 wrote for and reccived the following history of the case from her busbaud:-"Tho patient was in very good health up to tho cad of Junc, 185\%, when, the weathor being very hot, she
felt it muth. One morning she was out under het sun, but walkell a mile and a half in the alternoon; was woll up to 7.30 P.M. Shertly nfterwards she was found lying in her room inenusible with face much flushed, extremities cold, pulse feeblo. She remained unconscious for sevoral hours, and then awoke perfectly clear in her mind. There was a slight seratch on the forehead, but no appearance of braise. For some weeks attacks somewhat similar followed, preceded by confusion and a sense of falliog. After a ohort period speech became confused: sho always knew what she wished to say, but could not use the right words, nor could she write a letter. Subsequently, violent pain iu the head, with vomiting, came onl. She foll into a semi-conscions state about three months from the firat attack, then perspiration set in, and she lost control over her bowels, and required to have the mine dramn off." I found the patient in a semi-conscions state; saliva dribbled from her mouth, her gums were spongy, and there was a well-marked mercurial odour; pulse 96 , hut rose to 110 ; respiration under 24 ; tomperature under $100^{\circ}$; couldswallow fluids; ne stertor; her pupils responded to light; some urine drawn off, specific gravity 1018, no albumen. I made an ophthalmoscepic oxamination, but was unablo to detect any neuritis. Reflex tests gave no indication except abdominel and msmmary. Heart sounds normal. I advised, in writiug, even as a last resource, an operation in Broca's region, and stated that, in my opioion, there was a fluid collection, probably an abscess, and that, if a solid tamoar existed which had been diagnosticated, it would not be impossible to romove it. The post-mortem examination showed there was a clear serous collection, separated from the surface by a thin layer of healthy brain tissue, but there was no evidence that pus celle did not exist. I was then requested to meat Dr. Franks at 9.40 r.m. After a few minutes' conrersation, he stated that Dr. Head's opinion, with which ho agreed, was that the patient suffered from a tumour; and as he dissented from the operation, I proposed that wo should see the patient. Her pulse was then over 150 , temperature $102.6^{\circ}$, respiration nearly 40 . She conld not swallow; her pupils dill not contract to light. I stated that she was so altered from the time I first ssw her that I could not then recemmend the operation. There was clear cridence te me that this patient was sulfering from aphasia, agraphia, and amnesia, with every indication for operation in the region of Broca; and my opinion is that had she been operated on in tima at the site indicated, the cyst conld have been emptied, and probibly her life saved. For the anterior edge of the cyst would be scarcely three quarters of an inch from the site of the advised operation; there could be no difficulty in tapping it at even a grester distance, for scarcely two inches and three-quartero of the temporal lobe is rosterior to Broca's region; but, supposing it could not have been emptied by the proposed operation, the correct treatmont was to trephine a second or third time, and make explorations as often. -Dr. Head said that he sar the lady for tha first time late on the evening of September 14th, and not being anxious to express a definito opinion without a further examination, he ssw her again on the following morning. He had seen several cases in his practice resembling this one in many ways. In two of those cases, the tumours were such as it would hare been uttarly impossible to remove, even if it were known where they were. Therefore, having regard to his experience, he thought it would be inadvisable to tre-
phine over Brooa's space to lonk for a tumour the locality of which whino over Broas s space to loubtful, aud he alvised Dr. Franke not to opierate. If the tumour becamo localised, or cvidence of its locality more clearly defincd, then the operation might ba performed. When he sswe the patient agrin on October: 3rd, she mas in a comatese condition, and the symptoms had not developed crough to ensble him to localise the tumonr. She was onffering intense pain, but he did not like to give opium. He suggested cannabis indica, She expressed herself greatly relievol. He enggested a caustic issue, and that the mercury ahould bo given tentatively, bnt stopped if untoward symptoms arose. It was stopped on September 22nd. On October 3rd he oxamined her breath aud gums, aud she had not the smallest sign of mercurialisation. She had liad teoth, but there was no salivation, and there was not the smallest aiga of nercurial foetor. Camabis indica, she herselt aaid, relieved her pain, so ho did not see how that treatment coald have done lice mielh harm. With all the care he gave the case he could not attempt to loeslise the position of the thinenr, or diagnosticate whether it was solid or fluid, oxcept the probabilities bcing that it was ou the lelt side. Under these circumstances he advised Dr. Franks not to operata. - Mr. Swanzy said ho was asked to seo the lady in order to ascertain whether, by means of the ophthalmoscopic or any other aymptome, a closer diagnosis could be made than had been effected. He examined her with the ophthalmoscope under consilurable diffinlties, abil expreased an opinion that there seemad to be a slight haze over the fundus, which meant an optic retino-neuritis.

## REVIEWS AND NOTICES.

Syphilis. By Jonathan Hutchinsox, f. R.S., Ll. D., Consalting Surgeon to the London Hospital, etc. With eight chromo-lithographs, pp. 532. Cassell and Co. 1887.
This is one of Messrs. Cassell's series of "Clinical Manuals for Practitioners and Students of Medicine," and certainly the publishers are to be congratolated in the present instance on their choice of an author; for no one has a better right to speak with anthorits on syphilis than Mr. Hutehinson, who, moreover, for many years past has been almost constantly writing or lecturing on the subject. This being the case, it was hardly to be expected that the present volume would contain mach that had not been said before ; aud, indeed, it may be considered as to some extent a gathering together of what was previonsly seattered in many periodicals and other works, but with the important addition of a large number of illustrative cases from the author's own notebooks. The result, we may say at onee, is a collection of facts and suggestions whicl forms a most valuable contribution to the literature of syphilis, snd at the ssme time a storehouse of knomledge from which the practitioner eannot fail to derive profit; for thoogh he will not find a complete or systematic treatiso on the subject, nor very extensive reference to the works of foreign writers, he will find what he will probably value more, namely, much information and many practical hints that will be of real assistance to him in the management of his eases.

The book is divided into two parts, the first of which occupies less than 100 pages, and contains a summary of the chief events in the course of syphilis, as well as of its treatment. The remainder of the book consists of 242 pages of commentaries on a great variety of sabjects, including remarks on the most important questions conneeted with the nature, diagnosis, and treatment of the inherited as well as of the acquired form of the disesse.
As to the nature of the contagiom of syphilis, the anthor speaks as follows: "The creed which will be found to interfuse not only this work, but almost all that I have ever written on syphilis, is that the disesse depends upon a living and specifie microbe, and that it is transmittable only so long as that microbe retains its ritality." With Hotchinson appears stion commonly known as the soft ehancre, Mr. Hetchinson appears still to hold the opinion-an opinion held, we
imagine, by fer syphilographers $3 t$ the present day-that that sore is related to syphilis ; for under the heading "on soft or noat sore is relsted to syphilis, for under the heading on sort or non-infecting
sores" we fud their etiology this explained: "1t would appear that some of the inflammations resulting fronl syphilis, but not attended by the actual presence of the virus, may produce a peculiarly irritatir and very cootagious seeretion..... Sores form within a day or two its contact, which are attended by ulceration, and hy the secretion pus which is capable in its turn of inoculatiog other parts."
Respecting the all-important subjeet of the treatment of syphilis, most anthors are now pretty mell agreed as to the remedies to be employed, but there is still much difference of opinion as to details, such as the particular preparation of mercary to be used, the mode of its administration, and the length of time treatment should ba continued. Mr. Hutchinson, we are glad to find, recommeuls for ordioary cases
one of the
 begun as soon as the diaguosis of syphilis has been made, without waiting for genersl symptoms; but it does not secord with our experience that when mercury is given earls it it "quite the exception for any secondary ssmptoms to oceur at all." Rather shoold we be inclined to say that, in earefully watched casee, it is quite exceptional not to be able to detect some ferm of secondary manilestation. Again, we shonld not think it wise in any case to trust to a six months' conrse of treatment as adequate for cure, nor do we consider a period of two years from the time of coutsgion sutlicient for marriage to be safely contracted, though it must he admitted that on this latter point Mr.
Hutchins Hutchioson has cousiderable evidence on his side wheu he states that interral and with hiser of marriages whieh have taken phaco alter this tion, known of any hurt to either wifo he child
There are certain poiuts which might have been more clearly stated with advantage, ss well as others on which it is not easy to fud out exactly what the author's onnion really is. For example, the statement that ssphilis "ean be conrejed from one prison to another only by direct contact of surfaces" might mislead an inexperienced reazer. Again, with regard to the question of whether a primary
venereal sore should the author would deem it a neglect of duty not to canterise freely
on the ground ; with pillow, strings and straps it weighed 22 lbs . The advantages elaimed were-lightDess (the regulation patterns weigh $31 \frac{1}{2}$ lbs.), cheap ness (fonr rupees), ease of repair in case of dccident.
At the same time it was so very slight he could not lay much importance upon it. Whatever appearance there was, it was in one eye quite as mich as in the other. The lady complained of not bsing abie to
see people who stood on the right side of the bed. He further examined to see whether this was due to sny blindness in the right ese. So far as could be ascertained by covering one eye and then the oher, and by counting the fingers, the sight of one eye seemed to be sensation and difficulty of moring the right eye to the right side, indicating a little paresis of the external rectus. He understood there had been a little drooping of the left upper lid, but when he examined her there was nething of the sort. There was nothing enabling one to localise anything iv the brain. If there had been any optic neuritis it would not localiss the lesion in the brain; it would confirm the diagnosis already sufficiently made-that of a tumour of the brain.his report. Sawiag round the skull in the ordinary manner the saw suddenly passed through the bone behind the left ear, and some clear serous fluid came out from a point above and a little behind the left ear. The membraues of the brain were found perfectly healthy. The
cyst was inch and sitnated in the temporo- sphenoidal lobe, its nearest point one other parts of the brain, as far as he could make out, were perfectly healthy.-Mr. Fitzeibion, Mr. Foy, Dr. C. J. Nixon, Mr. A. H. Corley, Mr. Broompield, Mr. Myles, Mr. M'Ardle, Mr. Hecston, Mr. Bartox, The President, Dr. Pratt, and Dr. Cox took part in the discassion. - Mr. Kendal Franks replied.

## SOUTH INDIAN BRANCH (MADRAS). <br> June 3rd, 1887. <br> The Tree-President in the Chair.

Intrauterine Fracture.-Surgeon-Major Branfoot exhibited a fretus born dead which presented fractures of the shaft of both femurs and of the tibia and fibula of each leg; mascular contraction had oc-
carred quently both upper and lower limbs. [The specimens were subseSibthorpe and Surgeon-Major Branfoot ; the femur, tibis, and fibula of the limb dissected were all bent nearly to right angles; it appared that alter ossification the bone had been fractured, and that new hone had been formed in the angles.] The mother was a primipara, and was under treatment for six weeks hefore delivery for acote articular rheumatism.
Ovarian Tumours.-Four specimens of ovarian eystie tamonr were showa by Sorgeon-Major Branfoot, namely, a simple eyst and a calloid multilocular cyst from the same patient, a papillomatous esstic growth, and a dermoid cyst ; all three patients reeovered after ovariotoms.
Dupuytren's Enterotome - Brigade-Snrgeon SIBTHORPE related a case in which Surgeon Maitland, of the General Hospital had cured a case of artilicial anus left after herniotomy for strangulation with gsagrene of gut by the use of Dupuytren's enterotome ; the éperon had disappeared in ten days after the instrument was first spplied.
Cardiac Thrombosis.-A heart, showing a thrombus extending from the right auriele into the right ventricle and pulmonary artery, was exhibited by Brigsde-Surgeon Snrriorpe. The $\mathrm{r}_{\text {stient, a }}$ Hindu ryot, aged 65, was suddenly seized with dyspncea nine days after excision of the scrotum had been performed for elephantiasis, which had been followed by moch reactionary hæmorrhage. The drspucea very rapidly increased, the heart's action became rapic and feeble, the temperature fell to $97^{\circ} \mathrm{F}$., and the patient died in fifty-five minutes after the seizure. The necropsy showed that the mitral valve was incompetent. The clot on the right side was red, firm, and adherent to the walls of the heart; it extended to the bifurcation of the palmonary artery.
Spinal Carics.-Brigade-Surgeon Sinthorpe also showed a specimen of caries of the dorsal veitebia in a man aged 25 ; the twelfth dorsal vertebra had almoat disappeared, and the front of nearis all the others Was eroded ; the twelfth rib and the first lumbar vertebra were also carious. The abseess extended from the first dorsal to the first lumbar vertebra, had obliterated the right pleural cavity, and hadlreached the manabrium, the posterior surface of which was eroded.

Now Strecther.-A new stretcher, designed as improvement on the new army regulation pattern, was exhibited after the meeting by Brigade-Surgeon Sibtiorpe. Two small bamboo poles carrying the canvas bottom were kept in place by transverse pieces of light wood, which were so made as to serve as teet wheu the stretcher was plared
any gore which camo under his treatment within five dayg of exposure; aud in the lirst jurt, that "if a yatient who bas never satlered from syphilis before, and who can give his dates correctly, comes under observatiou at any period withiu a fortaight of the contagiou, with a siuglo aore, it will ecrtaindy be wise to distroy it utterly.

On another interesting point it would be very diflicult to reconcile the vorious statements mate with regard to it. Wo refor to tho patho. gnomonic or gon-pathoguomonic nsture of syphilitic manifestations. On tho very fitst page of the prefaco it is distinctly laid down that "none of the syinptoms of the disesse are pathognomonic" ; but on page 30 we rewl, "In the ease of the condylom the diagnosis is usually easy, for nothing resembliog it is ever produced excepting in syphilis ;" on page 75 , "interstitial keratitis, in its trpical form, is always a conseqnence of sypbilis, sud it is in itsclf sufliciant for the diaguosis ;" on page 2as, "that the choroiditis was syphilitic no one could donbt, for its features were pathornomouic :" mbile on page 485 the stasement made in the preface is repeated with emphasis: "We have absolutoly no malady which is peeuliar to syphilis."

From the passages we have quoted, and others mhich the reader will no a loubt find out for himself, it will be seen that the book necds revision, and it must also be remarked that its value as a work of reference would be decidedly increased by a more methodical arrangement of the material in Part II. These, however, ara matters of minor importauce, considering the many admirable qualities of the boek as a whole. We haro read it through with great pleasure and profit, and can with confidence recommend it to all practitioners of medi. cine.

Healtir Mars. A Compiete Series of Prescribed Esercises of the Body for Daily lise: for maintaining the Health in a State of Integrity, for correcting any tendeacies to Functional lrregalarity, aud for resisting the Eneroachments of Disease. By Avna Leffler. Arxim. Gronps I, II, III, IV, V. London: Swan Sonnenschein, Lowrey, and Co. 1887.
Callisturaics and depertment nsed to be a part of the education of every young lady, and in spite of many defects both in method and application, the yeung ladies benefited by the instraction. Pope, no menn observer of hunuan natare, bas said, in a quetation which is now hacknered, that "they move easiest who have learnt to dance ;" and it will be admitted at the present day more readily perhaps than ever before, that vigour of body and grace of movement depend upon a training of the whole muscular apparatus. Davcing did to some ex. tent accomplish this, for the dauciug master had devised exerciscs for the foot, the leg, the thigh, the muscles of the trunk, and even to some extent for the arm and hand. Forms of exercise which make great calls upon limited groups of muscles do not tend to produce good resthetic results; the increased development of the groups which are mach used is accompanied by a wasting of the groups which are less used, and there is a loss of symmetry. The overgrown leg of the professional dancer or the attenuated calf of the horseman are not beautilul, though gaping fools may adnire tho one, and fashion, aided by the bootmaker, may have rendered the other an olject of ambition to yonng sportimen who, after an autumn on the noors, pray be beard to lament as the beginaiug of the hunting season their inability to squeczo their now well-grown calves into the "neat"tops that had been thoir prite in the previons March.
Without denying the health-giving qualities of such cxercises as riding or cycling, it will probably le ailmitted, on theoretical grounds at least, that other forms of exerciso which make more universal ealls upon the inuscles, not only prolluce better types of manly and womanly beanty, but a better general state of health. Herein probably is to be found an cxplanation of the extraordinary pmpularity of erieket, boating, and foothall in this country and in Australia, and of fontball and Lacrosse in America. Lamn-tennis is anothor propular game which calls into play nearly every muscle of the body. But everyone is not in a position to imlulge in these pastimea, and for such nofortunates Miss Arsism's Ilealth Maps will have alistinct value; she lias elaborated a series of exercises which bring into use seriutim most of the impinrtant groupy of milscles; each ixercise is illastrated by a diagram. For these diagrams we have anthiog but praise; ther are drawn with spirit, and iulicate very clearly the mownente which are to be fertormed. The "mape" are, hwwever, iutended to hare a wider aprlication, aud will be of cuasiderahle solface in suggestimg methouls of obviatius sutue oi the evil consertuences of constrained attitades assnmid duriug wirk. Some of the exercises recommended for special prposea, of for instance Fig. i, (iroup 1II, are extremely simple, and a:e such as the attitades whink they are intenced to cor-
rect naturally suggest. The autheress no doubt seeks to magnify her office, and somo of the exercises in the series appear so simple as to provoko a smilo; the series, howover, must be takeu os 8 whole, and simple as many of the individual exercises are, there is much to be learnt, not only as to their eerpuence, but alse as to their performance. "To be a rell-faveured anu is the gift of fortune," asid Dogborry, "but to write and read cones hy nature ;" aud, pacc Dogherry, we must lean not only to read and write, but also, undor many of the circumstances of motern lifo, to exercise our bodies.
The author's physiolegy is sometimes in fault; it is, to say the least, doubtful whether the exerciges in Groups 11 and IV would have the apecisl etfecta on the liver, spleen, and kidneys, or on the diges. tive organs, which are attributed to them. Groups I, III, and V will be the most generally uscful. The diagrams are arrangel on a folding screen, which may bo made to stand extended npon a table before the pupil. In looking at a group thus sxtended, the general rescubblanco to the restless movements of a healthy child is rather striking. Fig. 11, greup V, represents a young person who "scats himself upon a banch or table, the edge being just allowed to come under the bend of the knee. He then commencea to rotate the lower half of the leg, conlioing the movement to the knee, and keeping the thigh as motionless as possible. "To te performed three "times," ete. How many parents have been "fidgetted to distraction" during tho recent holidays by the performance of this "exercise" many more than three times by a son or daughter whose exuberant vitality had at the roment found no other outlet !

## NOTES ON BOOKS.

Lewis's Puctet Crsebook for Practitioners and Students. Designed by A. S. Braxn, M.D. (Londen: H. K. Lewis).-This small casebook is intended to be nsed by the general practitioner on his daily round. The book is of the dimensions of an ordinary pocket book, and four pages are given to each case. On the first page there are spaces tor date, name, age, and other like facts, and belew headings for tabulating symptoms observed under the various systems; this table extends across the sccond page. On the two following pages the subsequent ceurse of the case can be recorded. The omission of any heading in the table for the pravions history of the patient appears to be the only fanlt which is likely to be fout with this well planned and convenient pocket book. It contaius space for about fifty patients, and is provided with an index.
Contributions to Clinical and Practical Medicine. Dy A. T. II. Watras, M.D. (London: J. and A. Churchill. 1887.)- Dr. Waters has collected in book form a number of clinical lectures and papers upon diseases of the lungs, some of which have appeared belore at different times. The whole bears the impress of careful work by an accomplished clinical observer, and as a practical guide is of great value. The first chapter gives the results of a large number of observations upon the temperature in phthisis and other diseases. In phthisis Dr. Waters finds that the highest temperature occurs at or Dear 5 o'clock in the afternoon, and is lor in the morning. The tubercle bacillus is not mentioned as of diagnostic impertance, probably because of the carly date at which many of the lectures ap. peared ; but it is suggested that the exacerbations of acnts phthisis and of septicemia may be due to analogous conditions. In a later chaptor Dr. Waters maintains the existence of an acute pueumenic phtbisis, not of tubercular origin, and not accompasied hy so much prostration as is present in acute tubercular phthisis, For pocumonia quinine is recommended in full doses as a valuable therapeutic agent, especially where the pulse is quick or the temperature is high. The auther has not been able to satisfy himself as to the existence of a special "septic pacumonio," but considers that septic poison may modify the symptoms of a pheumonia. The article on bronchitis is a reprint of that in Quain'a Dictionary. The remaining chapters of tho book compriso practical remarks upon pleurisy, cancer of the lung, perihepatic abseess bursting into the hugg, and Alpine climates in luog disease, in all of which useful hiuts will be found.

Billiothecit IVdico. Chirurgica, Iharmaccutico Chemica, diVeterinaria. lleausgegebon von Gustav livprecut. (Guttiogen: Vandenhoeck and liupreche's Verlag. 1857.)-This publication aims at placing lefore its readers iu a systematically arranged summary a list of new Norks, important treatises and perindicals, publishod hath in Germauy and abroad, and embracigg tho wido domsin of general medicino. It aplears quarterly, esch number containiug classifications, under which
the new works are grouped, as well as an alphabetical index. It has now nearly completed its forty-first volume, the second of its new and more complete series, having been first pablished in 1847. We draw the attention of all medical men, whether interested in the progress of their science generally or of some of its more special points, to this valuable compilation, as giviog them means to attain a rapid acquaintance with the progress effected by their foreign contemporaries in the numerous provinces of medical knowlege.

Krause's Monthly International Journal of Anatomy and Physiology. -The first number of this valuable journal for 1888 contains the folloring articles: "Qu'est ce que l'Homme pour un Anatomiste," by L. Testut ; "Recherches sur la Portion Terminale du Canal do l'Ependyme chez les V'ertébréa," by Dr. G. Saint Remy; "Sur la Structure des Nerfa Cérétro-rachidiens," by Dr. Louis M. Petrone. - They are all articles of solid and valuakle research, and the journal is one which well deserves the support of anatomists.

First Aid to the Injured : The Ambulance Pupil. By a Pupil of the St. John Ambulance Association. (Crosby, Lockwood and Co., London). -This is one of the best textbooks which has come under notice for those attending classes of the SL. John Ambulance Associa. tion. The facts in anatomy and physiology are clearly, tersely, but safficiently described. The directions for treatment are excellent, and at the same time easily understood, and likely to be put into practice. This small, compact ambulance work is to he highly commended.

Notes on Surgery for Nurses. By Joseph Bell, F.R.C.S.Ed., (Edinborgh: Oliver and Boyd. London : Simpkin and Marshall). This is a charming little hook. It contains just the kind of informa. tion that a surgical nurso would require, and is written in such a simple and interesting style that it camnot fail to draw attention to tho salient features which the writer wishes to describe. These notes, the author tella us in his preface, embrace only the main points of the lectares which he has for twelve years delivered to the nursing staff of the Edinburgh Royal Intirmary, and one can well imagioe that by personal explanation and the help of diagrams mach that is hero briefly described in writiog would he more easily underatood and remembered No school of nursing is now considered complete without a systematic course of lectures, and we notice a little inclination to teach the nurses too much in the short time at their disposal. This little book will, we think, give a hint to those who lecture, and he of great service to the uurses themselves in impressing upon them the most important points of their surgieal teaching.

## REPORTS AND ANALYSES

Descriptions of new inventions, IN MEDICINE, SUKGERY, DIETETICS, AND THE ALLIED SCIENCES.

## PURE COMPRESSED MLK EXTRACT.

(W. Tulloci and Co., Philpot Lame.)

Tus preparation reprosents the solid matter of skim milk in a palatable form, capable of being kept for any length of time. It is said to be the highest degree of concentration to which milk cau be subjected, and has on that account au adrantage over ordinary condensed milk. It must he understood that the preparation is devoid of cream or fat ; and whilst it may well be nsed in ordinary cookery, or as an addition to coffee, tea, or cocos, we would hesitate to employ it in the mursery. It is, when used with discretion and in the proper place, a good preparation.
"ICHTHYS" FISH SAUSAGES.
Novelties in the shape of everyday articles of food aro so uncommon, that an idea, which successfully carricd out wonld materially add to the nnpular dietary, deserves special notice.
Mr. W. P. Eaglish, of Hull, has brought into the market, at the low price of 3s. 4d. for four ponnds, sansages made of the flesh of cod and other fish, separated from skin and bones. They are very palatable when fresh, add peculiarly so when smoked or curricd.

They will be found yery suitab'e food for invalids, and will be appreciated in family cookery. Any intelligent cook will be able to pre. pare a namber of tasty dishes from the contents of the "Ichthys" sausage.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1838.

Subschiptross to the Association lor 1888 became dac on January 1st. Nembers of Branchea are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Post-affice orders should be made payable at the West Central District Office, High Holbora.

## The (Britisi) fetciond Joumal.

## SATURDAY, JANUARY 21st, 1888.

## VIRCHOW ON THE DIAGNOSIS AND PROGNOSIS OF CANCER.

THis snbject is discussed, in an article constituting the first "Heft" of Tirchow's Archiv, Band cxi, from a purely scientific point of viem, but it is evidently more or less a vindication by the author of his position in regard to the case of H.I.H. the Cromn Irince of Germany. The opening words run thus: "It may seem almost superfluons at the present day to say anything on the diagnosis of cancer to those who have a knowledge of the subject. But sn old dispute has quite recently beon revived, namely, whether the anstomical or the clinical diagnosis is the more correct." The "constitutional" character of the disease has been regarded as its chicf characteristic, that is, as expressed by the word "maligaancy," or tendency to generalisation, but the sarcomata are atill more malignant than the carcinomata, and even the most "innocent" growths, such as enchondroma and myxoma, oceasionally form metastases. Milig. naucy, then, has ceased to bo a diagnostic criterion, apart from the fact that an accurate diagnosis is a desideratom before a growth has begun to form metastases. The diagnosis must rest apon the knowledge of the histological structures of the growth. As early as $1 \$ 47$ the author showed that the alrealar structure belonged to all carcinomata, and not to ordinary cancer alone ; further, that the alveoli contained, not a mere "cancer juice," bat chiefly colls (Virchow's Archic; 1817, i, p. 105). These cells were then declared to be "identical in kind with epithelial and epidermoidal cells, and eapecially with the cells of the so-called transitional epithelinm." A eancer is thus analogons in arrangement to a glaud, without an excretory duct. Attempts have been made, hitherto withoat success, to discorer a cancer bacillus. "It is possible such may exist ; indecd, such a discorery would coustitnte an important adrance.........which might explain much that is still obscure as to the metastatic processes which occur in cancer." Eut gland cells have been shown to produce varions tissue products, and cancer colls alone amply suffics to explain the constitational effects of cancer. That cancer is always primarily local in character, and that its dyscrasia was alwars secondary, Was contended for in the Hanulbout of Sprcial Pathology as early as 1854, a time when the "cancerous constitution" was still firmly beliered in.
To return to the diagnosis of cancer. Clinical obscrration alone is insufficient for diagnosis. "A strisiog example of this is to be found in tumours of the bladder. Till quite recently thete has always been coafusion on this subject, alchough I showed the distinction betreen the tro kinds (that is, betreen an innocent papilloma and a villous cancer) a gencration ago in point of time."
Profissor Virchor narrates with spirit the battle orer the "specific
cancer cell." Ho came to the assistanco of Vedpeau ngainst the "micrograplists" of laris with his "threo cases of geucralised epitheliomata," to be found in the Haz, Merk. de Paris, 1855, p. 2n8, and thus assisted in domolishing tha theory of the specific caucer cell. "But periaps the polymorphism of cancer cells woull have beon recognised earlier if the micromaphists had been allowed time to look round them," in their newly-cutered territory:

But even the snatomical examination may mislead. The author says that he shored by cxamples iu 1851 that there may be mixed tnmours, with different types of tissuc. "Later on I declared this condition with regard to fibromata, and as this matter is one of importance I will quate my own words (Tumours, vol i): 'Nothing cau more easily cause misnnderstanding than the fact that certain parts of a tumoner may be formod purely of connectivo tissue, while other parts of it may be quite differeut. If in our examinstion we suhmit only very small dofined portions to our inspection, only one or other of the constituent parts of a growth may offer itself to our notice, and its Whole character may be determined accordingiy. If the part caamined bsppen to be connective tissue, our opinion on the nature of the growth will naturally be in general a favourable one, as a rulo more favourable than if we had come across the other parts. This has happence to myself......in particular I recollect a "recurring fibrnma " which at the first extirpation I diagnosed as a simple fibroid tamour, but after a relapse (and a second operation) 1 found cancarons gtructuro. On again exsmining tho original specimen, preserred iu alcohol, I found that very small portions of it showed the cancerous structure, almost sll the rest of the tumour being fibromatous.' " The anthor adds that the case was a very uncommon one, and that a similar experience in regard to a largo growth never happened to him agsin. Carcinomatons sarcoma and myosarcoma are mentioned amongst the mixed tamours in the author's work, and the present opportunity is taken to draw attention to this subject anew. A cancerous papilloma ("Wurgenkrels") is, we are told, nothing but a mixed tnmonr, consiating of a cancer and a local hyperplasia of preexisting parts ; and if the snatomist may erf, how much more likely is the clinician, who can only see the surface and watch the course of the diseasc. Great stress lias been laid unon the enlargement of neighbouring glands, but oven this may bo simply inflammatory in character.

The exploratory investigation of a tamour is important. "A portion of its periphery is excised, or a few particles of the interior are withdrawn hy puncture. These minuto objects are then the only materials submitted for examinstion......I eay nothing against this kind of examination; it is often the only kiud possible; but we ought not to be surprised if the result is deceptive. How easily may it happen that these minimal parts at the disposal of tho investigator may not belong to tho diseased site." Fspecial!y in regard to mixed tumours, "the examination of a portion of a new growth may easily give rise to error, bnt the real error is on the side of the clinician, not of the anstomist ; for the latter can only forma judgment on what ie snbmitted to him." As examples aro cited coeristing uterine myoma and cancer, or hyperostoses and sarcomata in the long bones, thongh diagnosis is not dificult here. It is more didicult in tho case of "papillary excrescences co-existing rith ulceration." U"leers of the larynx. especially asphilitic ulcers, frequently exemplify this. In clironic ulcers of this kind we see "a growth of the neighbouring mecous membranc with the most distinct Is illary byporplasia,
giving the impression of independent papillary tumours" (Tumours, vol. i).

Friodlinder's objections to the theory that cancerons new growths are charscterised by an alveolar arrangement with contain "heterotopons" (heterologous) epithelium are not without woight theoretically, but practically mean but little. The question of the derivation of the cpithelial cells has become of great interest eince the investigations of Thiersch and Waldeyer, but as yet las received no certain answer.

J'rofessor Virchow refers to his carly and steady advocacy of an early removal of any solitary new growth wherever feasible; in fact, he had determinod 'such sargeons as C. Mayer, von Graefe, and von Langenbeck to extensive operations for even quite recent tumours of malignant kind. "This is now sluost antiqusted wisdom, and modern surgeons, in fact, claim credit for establishing the primary local'character of malignant tumours." It is less important to know whe originates a theory than whether it be true or not.

Cancer extends by the formation of sccessory foci, and not by simple enlargement of the original centre. The first clearly described case showing this is the case of a cystic enchondroma of the shoulderblade (Archiv., 1853, v, p. 2IS). But these accessory foci are to be distinguished from the dissemiuated metsstatic foci charscteristic of malignancy.

Finally, the question of the possibility of spontaneaus cure of cancer is touched upon. Dittrich shomed that cases of supposed retrogression of cuncer of tho liver were really due to gummats; but Virchow has observed a cicatricia! process in hepatic cancer caused by fstty metamorphosis of the cells in the centre of the tumour. "The formation of accessory foci is what forms the obstacle to a real healing. Cancer itself is no parmanent tumoar." Indecd, its cells have a very restricted vitality. Regarding medicines, Clay's treatment with Chisn turpentine is mentioned, and the author is of opinion that though as yot no satisfactory proofs of cure are afforded, the profession is generally too sceptical on this subject. Von Nussbaum attempts to set up fatty degeneration in a tumour by thrusting the thermo-zautery in different directions beneath it, and thus depriving the periphery of its rascular supply. All snch attempts are commended. "If cancer is at firet, and often for very long, a local disesse, it must be possible at this stage to cure it locally."

## A NATIONAL PENSION FUND FOR NURSES.

On verions occasions during the last five or six years we have directed attention to the defenceless position of women engraged in the work of sick nursing when incapscitated by illness or age from continuing in the excrcise of their frocation. It was pointed out that with the modern development of sick-nursing into a profession, the old pension system which existed at \& few hospitals was not adeçuate to meet the necessities of the new conditions under which a nurso no longer remaincd attached to onc hospital all her life, but after receiving her technical cducation most commonly obtained a situation in another hospital not provided with a training school, or became attached to one of the iustitutions which provide nurses for private cascs. The great difficulty in making provision for pensions lay in theso newlyformed migratory habits, and in the frequency with which the occupation was alandoned after a fow years' trial.

The formation of the Hospitsls' Associaticn scemed to promise an opportunity of testing the feasibility of establishing a provident
pension fund for nurses, and it is with sincere satisfaction that we notice that the prcliminary difficulties which necessarily surround the inception of such a scheme have been overcome. Four merchants and bankers of the City of London, Messrs. Gibbs, Hambro, J. S. Morgan, and Rothschild, have nndertaken to provide the sum of $£ 20,000$, which must, in order to meet the provisions of the Friendly Societies' Act, be invested in the name of trustees before such a scheme as that of the "National Pension Fund for Nurses and Hospital Officials" can commence work upon the scale which is proposed.
Great credit is due to Mr. H. C. Burdett for the labour which he has bestored upon the preparstion of the scheme, the success of which seems now assured, if only the persons it is primarily proposed to benefit-thst is, the narses themselves-will come forward snd show that they are in esrnest. The scheme is founded on the provident principle, and the main resource of the fund will, it is expected, be the contributions of the nurses and other officials serving in hospitals. It is, we are glad to see, intended to make the fund self-supporting, snd to fix the premiums and pensions to be paid at sums calculated by the actuary as safe. Contributions from the general public or from hospitals would be regarded in the light of a fund to provide bonases. Contributors to the bonus fund will, we are informed, constitute the members of the Society, and will elect half the council, the other half being elected by the nurses and other policy holders.
One of the difficulties of the fund will be the relative frequency with which nurses will still continue to leave that occapation in order to marry, or for some other ressons which now operate to produce the gery rapid thinning of the ranks which is always going on. This is to be met by providing a special scale of pensions for persons who reserve the right to require repsyment at any time of sll sums paid in to the fand.

The fund, too, will operate to diminish, though never altogether to do away with, these frequent retirements. In many cases a nurse only gives up her occupation because she has no prospect of making any provision for old age; the consciousness that this csn in future be done by the exercise of a moderste amount of self-denial during the working years of life ought to have an important effect in retaining women who have once embarked in the career. If, as it is only reasonsble to expect, the public contribute freely to the bonus fuad, that will afford an additional inducement to a nurse to remain true to her calling.

Another difficalty which must be met is the relative rarity of habits of providence smong women; they have hitherto had no organised help in this direction, and no societies which afford a atandard, so that they are apt to think the premium high and the pensions small. It is not nocessary to discuss the rates which it has been tentatively proposed to fix; these mast be worked out on ordinary actuarial principles. This has been carefully etudied by competent authorities, and it appears to be most desirsble that as littfe delay as possible should occur in publishing them; sixty-five shillings a year will undoubtedly appear a large sum to nurses of 25 drawing $£ 25$ a year in wagos; but wher persons of business experience, whose advice they may be able to obtain, sre sstisfiod that the rates are on s sound basis, a great step will have been taken towards gaining the confidence of the nurses. Some kind of test may liuve to be applied to ap. plicants in order to ensure that only those who can bo properly described as trained nurses are admitted as suhscribers to the fund. The class which is to bo included under the term "hospital officials" must
slso be defined ; difficulties will, of coarse, arise on this head, bat they are only such as men of wisdom are sccustomed to deal with. It would obviously bo desiratle to limit the fund to persons holding positions of responsibility and trust.
The object of the scheme is good, and its main featores are snch ss will commend it to persons acquainted with the wants of the workers in our hospitals ; great carc, pstience, knowledge, and skill will, however, be required in working out the final details of the scheme; sach qualities we may expect to find in those who are now engaged in its elaboration.

The fact that the lesding officials and treasurers and housegovernors of so many great hospitals are showing an active interest in working out the scheme, and that it has secared the monificent support of merchant princes, proverbially as pradent as they are gemerous in a good cause, afford the highest guarantees of real and permanent success. The interest shown in tho scheme by Sir Andrew Clsrk and Dr. Bristowe is only an earnest of that good will which the whole medical profession may with certainty be expected to show towards a class of persons-hospitsl officials and nurses-with whom they are intimately and daily associated in the great work of charity, in their daily lives, whose admirable qualities they appreciate, and whose welfare they may be counted upon to aid and promote by their influence and advice, and, when necessary, their active co-operation.

## THE RELATION OF PUTREFACTION TO INFECTIOUS DISEASES.

II.

FOR a long time putridity wss considered to be a special characteristic of putrefaction, aud Ogston separated the saprophytes of "ordinary" putrefaction from other organisms. Koch also made it a distinction of his spirochetre that they did not emit an odour like the comma bacilli of Finkler and Prior. But Poehl and Brieger have shown that the former yield a large amount of "cholera red," an indol derivate, and indol and its derivates are characteristic of all putrid processes. Again, Pasteur's theory of anaerobiosis made putrefaction dependent on the entrance of air. This is too absolute s statement; the entrance of air is but oue of the several conditions requisite for the development of specific processes. The opposite view of Cohn, that his aerobiotic bacterium termo is the only real saprogenous ferment, is oqually erroneons. The recent proposition of Wollny that putrefaction is essentially a reduction process, and that destruction is an oxydation process, is acceptable from the chemical aspect, "but biologically can only be received cum grano salis." Msny bacteria exhibit both processes at the same time, as Herens (confirmed by Leone) has shown. Duncan's view is that the excitants of pyæmis and septicremia take "no share in putrefaction," bnt he has omitted to say what constitutes thoir unsuitability in this respect, seeing that these organisms live in putrefying matters. Rosenbach has sttempted to ascertain this, and has fonud that the differences between sapremia and septicemis sre by no means so great as was suppcsed.

The fact is thst the word "putrefaction" is mislesding, as indicatiog one process, having one cause, while in reality it embrsces several processes of different kinds. The organisms cansing putrefaction (not to mention infusoria) have now developed, as shown by cultivations, into a part of the local cryptogsinic flora of a geographical district, and not only so, but tho same bscteris msy be modified by cultivations
nuder rarious conditions, so as to exert diferent effects. Fitz took away their capacity of forming butyic acid from the anaernbiotic bacilli peculiar to the butyric aciel fermentation, while their iaflucoco on albuminates remainel unaltered. Irofessor Hueppe has dono the same with the aerobiotic "butyric acid bacilli," and also was ablo to prevent the bacterium coli commune from causiog the fermentation of sugar, while this organism still split up albumen, with forration of a poison. Tho same specific orgausams may at times yet up a psoudo-putrefaction, without any bal smell, and at times a trua stinking putrefaction. It must bo remembered that iuvasire organisurs may act pathologically, not ouly by formation of poisons, but also by their mere increase.
From all this it is to be gatherel that the so-called specific orgauisms of infectious diseases are not so specific as bas been announced. The generally received opinion that filth in itsclf, though it may aid the spread of infectious diseases, can nover causo them, requires modifica. tion. "Those sorts of filth which we meat with in putrefaction may at least contain the germs of the specific excitants of the infectious diseases, and these germs under (continued) favourable conditions may oven set up the latter." There is a kind of correspondeuce betreen the gradations from cholerine to cholcra nostras and Asiatic cholera, those from epidemic icterus to yellow fever, and those from localised patrefactire processes up to the development of miasmatic or contagions diseases. Sporadic diseases may become endemic; endemic diseases may become epidemic. It is probable that Asiatic cholera ras only an endemic disease during the last centary, having been previously merely sporadic. Conversely, germs may perish; the plague has disappeared from Enrope. But all rell-defined infectious diseases have for the time being a farourite locality, a home, and their excitant organisms can owe their original development within this locality ouly to local putrefactive processes; these processes, as already stated, on other grounds being of various kinds and specific to the locality.
From the above considerations, Dr. Hueppo formulates the following conclasion as a fundamental basis of modern medicine: that "the excitants of infectious disease must be specific organisms, and this specificity may be cither absolnte or else evolved during thousands of jears from local putrefactive processcs." Now, sceing what modifications can be prodnced in bacilli by experimental cultirations, it acema unnecessary for Dr. Hueppe to nostulato anch loner reriods of time. He gues on to say : "I may be told that this is the pathology of the pre-Darwinian and pre-bacteriological era, but that does not provo it to be erroncons. Old truths cmerge at last triumphant, however overlaid by alterations and systems, and new facts and modes of observation givo tho key to fresh cxplanations. In the process of putrefaction the modes of orgaric life are as follows, to use Garr s nomenclature. Various kinds of organisms grow side by side, and sharo in the destruction of their own substratum ; this is symbiosio. Others prepare material beforchand for the development of others; this is metabiosis. Others, again, strngegle for possession of the fichd with others; this is antagenism, which may bo cither one-sided or matual. But different conditions may cause tho same orgadisms to play vary ditferent relcs; an antagonistic erganism may becomo meta. biotic, and the latter may become symbiotic. Ultimatoly, persistent forms aro attained, the so-called durable condition (daucr-form) permitting fresh development after logg periods of insctivity." Duclaux kopt germs in an inactive condition for trenty years, and found that

When, at the lapse of this period, air was admitted, they begran af onco to develop, that is, to share in tho process of putrefaction-as even lioch's comma bacilli do for a fow days. Honce tho explanation of latont foci of epidemic discases otherwise hard to trace.

In all the inductive sciences, it is no less important to arrange all newly-discovered facts in their proper sequence than to gather them by laborious experments, and we ought not to feel disappointod if, Then thoy apparently upset time-honourel theorics, further examination reveals that they but substantiate those very theories. Such is the case with infectious diseases. Of old they were conuected with filth, with putrefaction; then tho microscope appeared to indicato that they were due to spacific organismas, that they could be cultivated apart, that they appareatly had nothing to dowith putrefaction, butwere cven antagonistic to it, and succmubed to it in many cases; lastly, renerred examination of the bacteriological and epidemiological facts before us reveals that, after all, the ancient doctrine of Hippocrates. had a substratum of truth.

As regards the "durable condition" abore mentioned, Pasteur's attenuations of rirulency-independently worked out in part by $H$. Büchner-are of the highest interest. A cortain saprophytic stage acquired by organisms during the putrefaction of albumen represents tho phyletic commencement of iacreased virulenco. Watson Cheyne has shown that some bacteria, which in small numbers only act locally, m3y in larga numbers cause general diseasa. Further, Heube and Kitt, as regards catt?e-plaguc, have obtained the same resnlts with a large number of germs of a low degroe of virnlence as with a. small number of high virulence. Again, Pasteur has shown that pathogenic bacteria undergo modifications of virulcuce by transmis. sion through (susceptible) animals, the lower grades of virulence protecting against the higher. Heube, who had previously argued that the four diseases, cattle-plague, swine-plague, rabbit-septicemia, and fowl-cholera, must be nearly related, has made a series of experiments (partly with the assistance, partly nnder the control, of Fitt) which not only support this idea, but show that the bacteria of these four diseases, when attenuated either by culture or by transmission, are mutually protective against each other.

It results from thase gencral considerations that not only may a rirus be strengtheyed or weakened by adaptation, but collateral effects may arise. In other words, modifications of bacterial aotion may occur in quality as well as in quantity; hence the appearance from time to time of infections liseases apparently new to medicize. When wa also bear in mind that Salomou and Tb , Suith were able to protect animels against $A$ merican smine-disease by means of ptomaines as effectually as by attonuated cultnres, it is ovident that the boundary line batwecn intoxication from putrefactive processes on the one hand and infection on the other is done away with. Nature berself stecrs between the prrely localistic and the purcly contagious theories, and the truth lies, as usnal, between the two extrames. "To admit a saprophytio atago in the existence of infectious organisms at ono period or another of their phylatic existcucs is to admit a miasmatic stage of a localised character ; to deny it is to deny the rocent revelations of bacteriology." "It is a matter of iodifference," Heube continnes, "whether mith lettenkofer we speak of ectogenous, or with Koch of occasional parasitism, with myself of a 'saprophytic stage', with Do Bary of 'racial selcelion,' or with V'an Seighem, of 'fasultative parasitism.'

On the other liand, tha purely 'contagious' theory is not opposed to the dependence of the infective orgenisms upon the outer morld, as Nesgelli and Pettenkofer postalste. The question thether a disease be transmitted directly or indirectly, whether it is contagions or miasmatic, depends upon the presence or absence of definite organisms (for example, spores), and apon the mode in which iafection occurs (for example, by wonnds, by the laugs, or by the intestines). And as far as concerns thesc mere pathological considerations, the broader view of Koch commends itself as the most just, namely, that infection may occur by a plurality of modes."

This comprehensive address closes thus: "Putrefactive processes are recessary as an intermediato stage between plant life and animal life, and as long as these processes go on, se long will organisms exist which, owing to their very origin, will act detrimentally on the structure of the homan body, that is, will excite disease...... Let putrefac. tion then go on as far removed from human drellings as possible, in its natural place, the ground......Clesnliness-s genuine clearliness, not a merely external purity-(Facoden-Remlichkeit) is the best reans of combatting infectious diseases, and here I adopt the English view of the subject......The triomphs of hygiene are as brilliant as those of antiseptic surgery, though not so immediately appreciated...... Prophylactic bygicnic measures against infections diseases are worth more than all the protective inocrlations, and the scepticism and reserve of Koch and Kitt, as regards the latter, are fully justified."

Thus, Dr. Henbe traverses the whole ground of bacteriological discovery, and endeavours to bring unity of conception out of discrepancy, and harmony ont of apparent discord. If to do this is the mark of progress in any science, then Dr. Heube's address will be referred to as constituting a meritorions adrance in this direction.

The Royal Astronomer reports that there was no sunshine at all in London during the whole of the week ending January 14th.

Dr. Danion read a note before the Académie de Médecine, Paris, on January 10th, in which he endearoured to prove that galvanoesustie currents of high intensity are dangerous and nseless, especially when applied for the cure of nterine disease.

We are requested by the henorary secretaries of the Association of Members of the Roysl College of Surgeons to state that the dinner of the Association will be beld at the Holborn Restaurant, ou TuesJay, January 31st, at 7 P.M., following upen the general meeting at 6 P. M. of that date. A clerical error in the form of application issued by the Association renuers this notice necessary to prevent confusion.

## EDUCATION AND REGISTRATION OF MIDWIVES.

De. J. H. Aveling recently delivered at the Chelsea Hospital for Women a lecture on "The amelioration of the present condition of midrives." Dr. Aveling called attention to the fact that as many as 4,500 women die in childbirth in England and Wales during the year, and that whereas the death-rate is as low as 1 in 650 in lying-in hospitals, and as low as 1 in 900 in one charity, it reached 3 In 600 in cases treated at home. It was plain that this high rate of mortality was due either to the medical men or to the ignorance of the midwives, and he inclined of conrse to the latter opinion, thinking that if only properly competent midrives were emplojed the deathrate might be reduced to one in 500 , which would mean a saving of

300 lives every gear. There wera about 9,000 parsons acting as midwives in Eogland and Wales, very many of whom were ignorant and possessed no certificate whatever. He was desirous of reeing aome syatem adopted in this country by which midsives monld be examined as to their competency and receive certificates.

## EXCISION OF THE PYLORUS.

Two romen, upon whom Professor Billroth had performed excision of the pylorus, were recently exhibited to a Viennese Mredical Society by Dr. ה̃alzer. Is the one case, the operation was done for a rapidly growing sarcoma, originating in the mascalar coat of the stomach; in the other, the diagnosis of cancer wes ruade, but the diecase mas found to have been only a simple alcer.

## OIL OF EVODIA, A DEODORANT.

Dr. H. Helbing calls attention (American Journal of Pharmacy) to the value of the essential oil of erolia fraxinifolia as a deodorant fer iodoform. He has had, he says, an opportanity of examining the fruit of this plent, and found that it yields an oil hsring a most agree. able and powerful odour, which is even able to overcome the smell of iodoform either in its crystallitio shape or in solution. For practical purposes he says it is only necessary to add a little (twe drops to the onnce) of the essential oil to the disinfectant in order to obtain a complete deodorisation of the latter, the chief objection which has been raised against the use of this raluable remedy thus being obvisted. Dr. Helbing adds that he would be pleased to find his observations confirmed by experiments of others.

## MALARIAL INSOMNIA.

Dr. F. EkLund, of Sto:kholm, believes that there is a special form of insomnia due to malaria; in its severest form sleep by night is nnattainable, but the sufferer is druwsy by day. In less severe cases a few hours' sleep are obtained on first going to bed, but the patient then wakes, in some instances always at the same hour, and cannot again sleep. He ststes (Therapeutic Gazette) that these patients can be relieved by quinine in small or moderate doses; the prescription he prefers is : R Quin. sulph. gr. vi-xy, sodii bicarb. gr. $x \nabla-x \leq x, M$. F. tal. dos. xii in caps. amyl. Sig. Take one capsule every morn. ing, and if the case require it one in the evening.

## THE DISCIPLINARY POWERS OF THE ROYAL COLLEGE OF PHYSICIANS.

At the next meetiog of the Comitia of the Royal College of Physicians, a resolution will be moved by the Senier Censor, requirigg that no Fellow, Member, or Licentiate should contribate articles on professional subjects to journals professing to supply medical knowledge to the general public, or should in any way advertise him. self, or permit himself to be advertised in such journals. At the same meeting, the Treasurer will move his resolution to present a donstion to the Metropolitan Police Convalescent Home. Fire new conncillors will be elected to fill racaucies.

## THE LECTURES AT THE ROYAL COLLEGE OF PHYSICIANS.

The Goulstonian Lectares at the Eoyal Collega of Physicians will be delivered by Dr. W. Julius Miekle on March 6th, 8th, and 1eth, at 5 P.M. The subject rill bo "Insanity in Relation to Cardiac and Aortic Discases and Phthisis." The Lum'cian Lectures by Dr. WI. H. Dickinson, on the "Tougue as an Indicator of Disease," will be giveu at the same hour on Msrch 15th, 20th, and 20nd. The Milroy Lectures on Public Health will be delivered for the first time this jear, in accordance with the prorisious of the will of the late Dr. Gavin Milroy. The lecturer will be Inspector-Gencral Larson, who, on Febraary 21st and 23rd, will gire tro lectares on "Epidemic Influences;" his third lecture will be given on Febra3ry 2sth, on the
"Epidomiological Aspects of Vollow Fover," and his fourth on Mareb 1at, on the "Epidemiological Aspects of Cholera." Theso lectures also will be given at 5 p.3. The Croonian lectures will, under the new acheme, bo delivered in tho summer.

## EXAMINATION OF THE MALE BLADDER BY ELECTRIC LIGHT.

Mr. Hurry Fenwick has lately used olectric illumination of the malo bladder and urethra for diagnostic purposes with considerable saccess. Wo are informed that ho proposes to givo a demonstration on tha living subject and on "dummics" of the capabilities of the vesical and urethral lawns, as recontly improved, at the next clinical meeting of the Medical Socioty on Monday next, January 23 rd .

POISONING BY ARTIFICIAL SELTERS WATER. Orer thirty cases of poisoning wers reportel recently iu Rendsburg, in Germany. Inquiry showed that only those wero poisoned who drank freely of Selters water, and an examiuation of this water rerealed the fact that it contained a very appreciable amonnt of arsenic. The water was a manufactured product, and had been imported from another city.

THE SENATE OF THE UNIVERSITY OF LONDON. A vacascr on the Senate having been occasioned by the death of Sir G. Burrors, M.D., the Senate have appointed a meetigg of Convocation to be held on Tuesday, March 6th, 1888, when a list of three persons is to bo nominated, in order that it may bo submitted to Her Majesty for selection therefrom of a Fellow of the University. All propositions of candidates must be sent to the Clerk of Convocation on or before Tuesday, February 21st, 1888.

DEPUTY SURGEON-GENERAL GRAVES IRWIN. Wre regret to learn that Dr. C. Graves Irwin, principal medical officer in Bermuda, has been obliged to resign the post which he has held with such eredit to himsell and such bencfit, not only to the service, but to the whole commonity on the island. Dr. Graves Irwin minst be well known to many readers of the Jourasha as the President of the Bermada Branch of the British Medical Association, the success of which is largely due to his tact and energy. Before Dr. Graves Irwin's departure he was waited on by a representative deputation of eitizens and professional men, and Dr. Yark Tacker, in a suitable apeech, presented him with a valuable silver salver "as a token of esteem from some of his many friends in Bermuda."

## THE HOSPITALS ASSOCIATION.

A meeting of the Council of the Hospitals Association was hold at Norfolk Honse on Tuesday, January 17th, D: Bristowe, F.R,S., in the chair. Among those present were Mr. F. C. Carr-Gomm, Chairman of Committeo of the London Hospital ; Mr. T. Holmes, F.R.C.S.; Major-General lieatinge, V.C., K.C.B. ; Dr. J. C. Steele, Gny's Hos. jital ; Dr. Gilbart-Smith, F.E.C. P.; Mr. A. H. Haggard ; Lieut.Col. Montefioro; Mr. lleury C. Bardett ; Mr. Keith Voung, F.R.I.B A.; Dr. G. W. Potter ; Mr. P. Michelli, and others. The meeting expressed by resolation its cordial welcomo to Dr. Bristowe on his acceptance of the l'resilency of the Iesociation, ind its high appreciation of the honorr conferred apon tho conncil and members by his appointment. Dr. Bristowe stated that, in yielding to the request of tho council, he had felt impellod by a sense of duty to accept the honoar offersed to him. He considered that the Association had dons much valnable work for hospitals and sll connected with them, and especially instance l the National Pension Fund and the Nurses' Thegistration Scheme nox approaching completion. He also emphasised bis conviction that tho Association whe stoalily growing in the esteem and confidence of tho hospital world and of the pablic, and that the racent alditions to the conacil of Sir E. Corrie, Mr. CarrGomm, of tha London Hospital, and Mr. E. [I. Lushington, treasurer
of Guy's, would add materially to its strength and judicial authority. Members of the Conucil expressed their special gratification that, through the energy and perseveranco of Mr. Henry C. Burdett, the $£ 20,000$ ueeded to ostablish the National Pension Fund on a firm financial basis had been finslly socorel.

## "FOUND DROWNED."

"Found drowned" is a favonrite verdict with the coroner's jury in a "Thrmes mystery case," and it is what is commonly callod an open verdict; as a matter of fact, it is frequently anything but an open verdict, as it takes it for granted that the decsased has come by his death by drowning, which may not be true. One of the metropolitan coroners has just been conducting one of the many ntterly worthleas inquests which aro weekly, we had almost aaid daily, to be fonnd reported in the newspapers. It was on the body of a ship's stoker, who had bsen missing for a month. No evidence was taken as to how long the body had been in the water, or whather death had heen duo to drowning ; for the coroner dispensed with a post-mnortem examination, and the jnry, under bis able guidance, returnsd the meaningless and possibly untrue verdict of "fonnd drowned." The only wsy to check such perfunctery work as this would be to disallow a coroner his expenses for every case in which, as in the one before us, no real attempt has been made to ascertain the canse of death.
the illness of the crown prince.
Sir Morell Macrenzie has just received most satisfactory intelligence as to the condition of the Crown Pcince of Germauy. We are able to state that the rumours which appesred in some foreign journals to the effect that a fresh development of cancerous growth had given rise to urgent symptoms are absolutely withont foundation. On Saturday, January 14th, His Imperial Ilighness carght a alight cold, and on Sunday and Monday there was some elevation of temperature, which, however, returned to the normal standard on Tuesday. We are in a position to contradict the report that Sir Morell Mackenzis will return to San Remo towards the end of this month. The date of his next visit is still quite nncertain, but we may take this opportunity of pointing out that the fact of his going to see his illustrions patient is not to be taken as an indication that the case is assuming a graver character. The Prince is looking forward with much pleasure to the prospect of being able to return to Berlin in the spring.

## DINNERS FOR SCHOOL CHILDREN: AN ECONOMIC QUESTION.

We have several times noticed tho efforts that are bsing made to provide food for school childron, and bave pointed outthat on of thegreatest difficulties is the economic side of the question-to do the greatest smount of good with the least possiblo weakening of the sentiment of aslf-dopendence in tho parents. That a large nunber of achool children are underfed or starving appears to be demoustrated; it has also been shomn that the power of body and brain suffers therefrom. In too many cases starvation is chronic and incapabloof permanent relief; in other neighbourhoods the relief may be required as an exceptional matter, during times of special depression in tracle. We
 of Birmingham whero most of the children appared to he starving, and exhansted in consequenco; this was explained as owing to the local depression of trade. Hero was a case where a temporary supply of cheap or even free food at the school might have been most useful in arresting the tendency to disease, and in aiding development. The Charity Organisation Society, in a valuablo report receutly isslied on charity and food, points out many facts founded npon svidence which they have collected; reports have also appoxted in Dirmingham, Liverpool, and other large towns on the work dino these. The starving"children often apperr to show more signs of daintiuess than of hunger, which ecems to indicats the dyapepsia of in mition. The apparatus used
for cooking makes much difference in the economy of the meals, as well as in their success in point of tastiness. To leave the children sttending achool without dinner'; for three montha is likely to result in a delay of growth and development of hedy and brain which would take a long time to overtake. Temporary relief in periods of distress, when the children continue their school work, seems very desirable-a true work of charity, and one not too costly, though requiring much personal labour on the part of managers and visitors. If reiief is to be temporary, it cannot be aelfsupporting; if dinners for scheol children are to beconie a permazent institution, they ought not, we think, to be provided by charity or by the State, but by commercial resource. The numercus experiments made by charitable people have afforded much information upon which commercial enterprise may be founded ; but it seems hardly likely that aelf-paying dinners can be provided, unless accommodation is to be had at or near the schools rent free. If it be shown that there is a permanent demsnd for dinners at or near large schools at a commercial price, the necessity of the case might be met on the same basis as at some of our colleges; let rooms appropriately fitted be provided by the public, and let at low rentala to contractors. It ought also to be arranged that such rooms, being independent of the schools, should be open on Saturdays and during the holidaya, if wanted.

ENGLISH PHYSICIANS AT SWISS HEALTH RESORTS. The subjoined memoial is being very extensively signed by patients and visitors at Maloja and Moritz. "We, the undersigned British subjects residing in the Engadine, pray the British Minister will petition the Feleral Government of Switzerland to permit our own medical men to practiso in this country, so that we may, in case of need, avail ourselves of the medical assistance of dectors of our own nationality. Many of us have come to this canton in search of health, with the express understanding that we could place ourselves under the medical care of Engli-h doctors, but in mid-winter the law of the Sanitätsrath at Coire has suddenly been put into operation, and our Eoglish compatriots are heavily fined and threatened with expulsion from the Cantor of the Grisons for practising without being in possession of the Swiss diploma. Under theso circumstances we beg the British Minister will represent to the Federal Government the desire named in this petition, and express at the same time that the action taken against our Euglish doctors will prevent many English suhjects availing thernselves of the climate and attractions of this cantor both in s:immer and winter, which deprivation they would feel acutely." A narrow and jealous policy in such a matter would operate very prejudicislly to the interests of the locality, and no doubt the Federal Government will take this into consideration.

## STROPHANTHIN AND THE THERAPEUTICAL SOCIETY OF PARIS.

A debate on strophanthin was hell by the Therapentical Societ? of Paris on December $17 \mathrm{tl}, 1887$. The discrepancy of cpinions as to the action anl value of this powerful drug which exists on this side of the Channel is appaiently equalled amongst our French colleagues. M. Dujardin. 3eammetz recrarls strophanthin as a true diurt tip, and has even seen hematuria arise after its use; accordingly, he considers that the prevailing English opinion that strophanthin is primarily a cardiac stinulant is incorrect. Mr. Constantin Paul said that ho was astonished that Professor Fraser hal made stropbanthin equal to digitalis in its cfleets, Strophanthin was in the main a diuretic, its action being liss energetic, but more pernanent, than that uf digitalis (!), but it did not, accordiog to th's observer, modiry arhythmic cardize action in tho slightest. M. Paulallowedthat it acted as a cardiac tonic, but only in chronic affections, and finully said that it closely resembled convallatia majalis in its action. Other spakır,s dealt with the chemical constitution of this glacoside, whit h in dilute acids is converted into glucose and an alkaloid-strophanthidin (MMI. Bardet and A'rian, Deutsche Med. Zeituny, No. 3, 1:83.)

OPERATIONS FOR EXTRA-UTERINE GESTATION. Dr. Cxraspis, of Berlin, describes in the Deutsche Medicinische Wochenschrift two cases where abdominal section was auccessfully performed tor removal of an extra-nterine fretal sac. The first patient was aged 51. Hor last natural labour was in 1S62; after ten years' interval she became pregnant once more; at the third month there were uterine hremorrhage, pain, and syncope; a fleshy mass was delivered. Extra-uterine pregnancy was diagnosed, but the patient refused to suhmit to any form of operation. The fretns died and then, still in the year 1872, no operation appeared sdrisahle. In 1881 the patient sought relief, as before, in Dr. Martin's private institution, and earnestly begged for operative relief on account of severe abdominal paios. The remeval of the foetus was readily effected; it lay free in the peritoneal carity, away from any sac, and there were but trifling adhesions; part of the left foot could not be found. Greater difficulty was experienced in removing a mass to the right of the uterus, which was taken to be the placenta; after long manipalation the mass was peeled away from ita connections. The patient made a good recovery. The mass when examined proved to be tube and ovary ; not a trace of placental tissue could be distinguished. The orary was normal, with the exception of a amall cyst ; the greater part of the tumour consisted of the left Fallopian tube, very much thickened and stretched, forming a swelling as big as a goose's egg ; at its abdominal end was a cavity, the size of a cherry, filled with pns. The foetus was much shrivelled, the soft parts had almost disappeared. The case was considered to represent tubal pregnancy, early rapture of the sac, and lurther development of the foetua, for a time, in the ab. dominal carity. In the second case, abdominal section was also performed, and a tumeur was removed which proved to be a dilatation of the left tribe, and very thick-walled. The seat of rupture-for the sac had burst-was at the upper and abdominal end of the eac. On the postero-external sspect of the tumour lay the skeleton of a fretus, about two iaches in length.

## LEAD in THE SHEFFIELD WATER SUPPLY.

The contanination of the water supply with lead is giving rise to a good deal of discussion in Sheffield just now. Nearly two yeara ago when Dr. White, the late medical officer of health, issued his report on the liability of water, in passing through the communication pipes, to become poisonous, the Corporation, with creditable spirit and energy, endeavoured to get the water company to adopt some simple means to render the water less liable to be contaminated with lead. At the commencement of this year the undertaking of the water company became the property of the Corporation. During the proceedings neessary to outain powers to purchase the undertaking, a great point was made of the necessity of adopting means to prevent this action on the lead piping. It may be safels assumed that the people of Sheffeld will hardly be satisfitd with any half.hearted action on the part of the Corporation, backed as they are by influential medical opinion. The water supply of Sheffield has two distinct sources and two systems of distribution : one from the hills round Redmire, and the other from the hills round Strincs and Agden. Mr. A. H. Alleu, the public analyst, from a large series of analyses, found that the water derived from the Agdeu and Strines reservoirs and distributed to the lower parts of the town had practically no action on lead pipes, the water dravn from ordinary house taps containing no appreciabic quantity of lead, even when it had been stored in the pipes all night. The case was very different respecting water from the Kedmire reservoirs, fer in every instance in which water was drawn from taps in honsis supplied from this source a very motable quantity of lead was present. When the water had stood all night in the pipes in some cases it exceeded half a grain per gallon. The parts of the town suppliell by the Redmire Dam are the high-lying districts. Moreover, the numerous cases of lead poisoning which have been reported oscurred in the districts comprised in this water supply. For some reason the Redmire water apiears to be acliog at I resent jarticularly
on the leaden pipes. Mr. Allen states that mady of the anmerous smop!es subuitted to him during the last for weeks have contained moro than balf a grain of lead per gallon ; and in somo cases ono grain per gillon has been reached, and even exceeded. The plan adrocated byiDr. Sinclair White of filtering the liedmiro water through a bel of limestone before it is distributed was adopted by the Corporation when before the Committee of the Honse of Lords. They should givo it now a trial, and if it fails resort to the more claborate measures which found farour with the old water company.

## THE USE OF ACIDIFIED CORROSIVE SUBLIMATE AS AN ANTISEPTIC.

SOME very intcresting experiments of great practical importanco havo recantly been madu by E. Laplace (Deutsshe Medicinische Wochenseirift, 185\%, No. 10 , 1. S 86.7 ) in the Hygienic Institute of Derlin, on the autiseptic action of corrosire sublimate rhen used in acid solutim. It has long heen known that the efficiency of bichlaride of mercury is mueh reduced when it is brought in contact with albuminous substances, owing to the formation of insoluble compounds; thus when appliod to snimal tissues, the mercury becomes mordauted, as it were, on the surfaces with which it first comes 'in contact, the sphere of its setivity being thus greatly diminished. Laplace finds that fire culic centimètres of blood sernm is sufficient to precipitate the mercury from five cubic centimetres of the bichloride solution $(1-1000)$. The formation of this precipitate of albuminate of mercury can be prevented by adding dilute hydrochloric acid ( $5-1,000$ ) to the bichloride solution ( $1-1,000$ ), whereby the antiseptic power of the latter is greatly increased. Similar results were obtained by the addition of tartaric acid. The solution recommended for nse consists of 1 part sublimate, 5 parts tartaric acid, sud 1,000 parts of distilled water. The bandages, gruze, etc., on the other hand, are soaked for two hours in a stronger solution; namely, sublimate 5 parts, tartaric acid 20 parts, distilled water 1,000 parts, after which they are wrung ont and dried.

## ST. JOHN'S HOSPITAL.

A special meeting was held this week of the Governors of St . John's Hospital, at which there was mach discussion on the subject of the charges brought of financial irregularities and other defects in the management of this hospital. Lord Aherdare took the chair at the request of the Duke of Northumberland, the President, who expressed his opinion that an independent inquiry seemod absolutely necessary; a telegram to that effect was read by Mr. Hamilton Iioare. Mr. Raymond mored and Mr. Maudslay seconded a motion for the appointment of a committee of inquiry into the management of the hospital, to roport to a future special general board, and to have power to call for documents and professional aid. A detailed statement was real by the official auditors on behalf of the Board, admitting irregularities of system, but exonerating individuals from any othor than the best motives and apright conduct. Much complaint was made by 31 r . L. Browne of the extraragant expenditure of the hospital; and it was alleged that the nuraing had been placed in entirely unskilled hands, the cook having been instructed with a view of undertaking the dities in replacing the matron. The discussion was long and angry, the meeting appearing to cousist of hostile parties. In the end an amendment was moved expressing confidence in the Board nad hostile to the original motion of Mr. Raymond and Mr. Mandslay. Dr. Robinson and Dr. Harries, two of the medical offisers who oljected to the existing management, wore silenced, and after three hours' discussion the amendment was carried by a considerable majority. The general result remains to be seen. For our umn part, wo cannot but feel that the proceedings seem to indicato that the opinion of the Dake of Northumberland, the l'resident of the hospital, that an independont inquiry is necessary, is rery mach strengthened by the result of this meetidg. The manegers of a hospital greatly weaken themselvos by refasing to co-operate in a fall and independent inquirs
where charges of this kind are brought. A full viadication of the alfairs of a public institution of this kind is best obtained, not ly a partissn voto or by statements at a general meotiug, but by the calm detailed inquiry of a committeo which hay the confidenco of all parties, and we hope the Duke of North. umberland and Lord Aberdaro will insist on ouch an iuquiry, and that the result may be for tho best iuterests of the public and the institution.

OUR NOMADIC POPULATION.
Mr. George Smith, of Coalville, giving his experiences of a number of visits made to gipsy encampments in all parts of the country, says he fond that the leading traits in the character of many of the gipsies were: liviog in dirt, hoathenish ignorance, idleness, lying, dishonesty, immorality, fortune-teliing, and deception. With sone notable exceptions, these people huddled together in tents, regardless of any sense of decency or morality. He calculated that there were at the present time about 30,000 children in this country living in raos and tents, not 5 per cent. of whom could read or write. Bad as was the condition of the people hera, it was, he said, even worse in Scotland, sud he intended to include them in a Bill he was promoting for the poor travelling children's welfare. What he wanted, withont interfering with liberty, was, in the first place, that pans and other abodes of the kind should be registered annually in a simple, easy, and inexpensive way, so as to gire the sanitary officer power, instead of the polceman, to see to the health and well-being of those who live in them. The healthy appearance of many of our gipsy, van, and other travellers was vanishing, and disease was carried from rillage to village. He desired to give them all free education. The only means of improving the condition of these people was the esnitary officer's influence upon their homes, and the schoolmaster's inflaence apon the children.

## CLINICAL SOCIETY OF LONDON.

The annual meeting of this Society was held on Friday evening, January 13th. The officers and Council for 1588 , nominated by the outgoing Council, ss published in the Journal of January 14th, at page 108, were elected. Dr. S. Mackenzie, the Medical Secretary, resd the report of the Council, which spoke of the continued and progressive success of the Society, the number of members being 464, of whom 336 are resident. In 1887 death removed six ordinory and one foreign member, namely, Dr. Carrington, Dr. Wilson For, Dr. Meadows, Mr. Teeran, Dr. de Castro, Sir G. Burrows (an honorary member), and Dr. Von Langenbeek (a foreign member). Tho Council had decided to seud a copy of the Transactions each year to about fifty of the principal medical libraries sbroad, and had done so in 1887. It had also sent all the back numbers of tho Transactions to the chief medicsl society of Berlin, and also to that of Vienna. The recently published volume contains tine report of the Committee appainted to investigate joint disease in connection rith locomotor ataxy, which was presided over by Sir J. Paget, and of which Mr. Bilton Follard was the honorary eecretary. The Council, in their report, warmly acknowledged their indebtedness to the latter gentleman for his labours on their behalf. The myxoedema Committee arc still at work at their great task, iut it is expacted that their labours will be concluded during this session. The work of this Committee, especially the exteusive tabular record of cases, has already cost a large sum of mones, and Dr. Ord, the chairman, has gencrously volunteered to contribute $£ 100$ towards the expenses of the production of the report, his offer has been gratefully accepted. The report will be printed as a separate volume, and a copy presented to every member of the Societf, while it will also be offored for sale. The Committeo on Scoliosis are still at work, and will, after a time, report the results to the So :iety. The kalance-sheet was read liy Mr. Ch:istopher liaath, tho treasurer ; i: slowed that the year began with a balanse of £94, and ended with one of $£ 37$; whilst the Society hes
$£ 600$ invested in Consols. The chief expense had been incurred in the printing, illustrating, snd publishing of the volnme of Transactions, and the myxcedema tables, and for the use of the Socicty's meeting room. The reports were adopted. Dr. Glover proposed a vote of thanks to the retiring Vice-Presidents and other members of the Council, snd remarked that in the list of the new Council he could find the name of only one general practitione: ; Mr. Silcock seconded the vote, which was carried. The President said that it was clearly an oversight that only one general practitioner had been nominated. Mr. Herbert Page, in eloquent and eulogistic terms, proposed that a very hearty voto of thanks be accorded to the retiring Secretary, Dr. S. Mackenzie ; Mr. Pearce Gould seconded the vete, which was carried with acclsmation. The President added his testimony to the value of Dr. Msckenzie's labours on behalf of the Scciety, and that gentleman feelingly acknowledged the cordial vote accorded him.

## PROPOSED LARYNGOLOGICAL SOCIETY,

We are informed that a newsociety isin course of organisation, ss a sequel to the resolution passed by the Subsection of Laryngelogy and Rhinology at the Dublin meeting of the British Medical Association. The Chairnan, Dr. W. MeNeill Whistler, in his opening address on that occasion, dwelt strongly on the sdvantages that such a society would afford to workers in these special branches, who at present have no means of bringing their results to the test of direct criticism by competent judges, except at the annual meetings of the Associstien. It was decided that immediate steps should be taken to carry Dr. Whistler's suggestion into effect, and to Dr. R. A. Hayes, of Dublin, the able Secretary of the Subsection, was entrusted the duty of making the necessary arrangements. His efforts have been so successful that the list of original members slready comprises about fifty names, which include those of nearly all the prominent laryngologists in the three kingdoms. The folloring gentlemen, among others, have sig. nified their intention of joining the society : Sir Morell Msckenzie, Dr. Whipham, Dr. E. Woskes, Dr. Prosser James, Dr. A. Orwin, Dr. Coleman Jewell, Dr. Greville Macdonald, Dr. Dundas Grant, and Messrs. Lennox Browne, Carmalt Jones, George Stoker, W. R. H. Stewart, and Percy Jakins, of London ; Mr. C. Werden, of Birming. bam; Dr. Ward Cousins, of Portsmouth; Mr. Creswell Baher, of Brighton ; Dr. P. Mc Bride and Dr. G. Hunter Mackenzie, of Edinburgh ; Dr. T. Burr, of Glaggot ; Dr. Philip Sayly, and Messrs. Kendal Franks, Thernley Stoker, and J. B. Storey, of Dublin ; Dr. Walton Browne, of Belfast ; sud Dr. A. Sandford, of Cork.

## the behaviour of the blood in ligatured VESSELS.

Bötccher's researches on this subject, conducted according to tho latest histological methods, are to bs found in the Arbeiten aus dem pathologischen Institut zu Lönigsbcrg. They fully confirm the conclusions of Dr. Geiterbock, slso those of Professor Pick, of Prague, on the processes which occur in the (socalled) organisation of thrombi. Bötcher finds that the blood contained in a portion of a vessel intercepted between two ligatures, applied under antiseptic precautions, does not coagulate. The changes which occur in the stagnated hlood are as follows : 1. Arterial hlood becomes venous in character by long standing. 2. The red corpuscles may remain perfectly intact, even after the circulation'has been suspended for several weeks. 3. The leucocytes early undergo degeneration, even in a week, but thir nuclei presorve their capacity for stains. 4. The blood-tablets may be found in well preserved condition, oven after several dass' stagnation. Finally, enumeration of the rsricus forms of leucocytes in rabbits' blood led to the conclusion that the "lymphocytes," that is, the small, uninucleated forms of letcocytes, poor in protoplasm, represent the majoity of the leucocstes existing in the blood. This is contrary to the provailing assumption on the sabject, which puts these very forms in the minority. This is a point, as Geiterbock remarks, of great importance in the study of the products of chronic influmms.
tion, the leucocyte elements of which are mostly in the form of lymphocytes, as is well known, and this circumstance has been addnced as an argument against their hæmatogenous derivation.

## TREATMENT OF INEBRIETY.

Dr. Norman Kerr delivered the second of his conrse of lectares on Inebriety on January 18th. He said that the predisposing and exciting csuses of the disesse in each case should be ascortzined, and the treatment cenducted on thoroughly scientific priuciples. Proceeding by an unscientific method, numerous alleged "cures" had been oracularly declared to bo iniallible; yet all these, snch as alcoholic frog extract, raw meat and food steeped in alcohol, had been foand to be ineffectusl. There was nospecific. The first indication of sound treatment was the withdrawal of the narcotic, so that the narcotising process might be terminated. This withdrawal should be immediate with alcohol, chloroform, chloral, and ether, but should be gradual mith morphine and opium. The risk and suffering with the last named were as a rule too sorious in sudden withholding. Bromides with hyoscyamus were useful in allaying the irritability of the nervous condition. When gastric irritability was present, the bromides could be sdministered in an effervescent form. Ice, milk, and soda or lime water were of service. The second indication of scientific treatment was the remoral of the exciting canse, or its counteraction when it could not be get out of the way. The third indication was the reparation of the physical damage wronght by the disease, the remedying of the pre-inebriate morbid state, and the strengthening of inhibition. Good sound wholsome food was essen. tial to the renovation of healthy tissue. No restricted diet suited all, and a judicious misture of flesh, fruit, grains, and regetables was generally the most desirable. Tenics, contra-indicated at an earlier stage of treatment, were useful here. Among the best was unintoxicating "port with bark." The correction of the pre-inebriate morbid stats was of importance. Disordered function should be set right, and complicating disease sttended to. The inhilitery power should be strengthened by exercise, by bracing hygienic measures, by mental, moral, and religious influences, and by nerve tonics, as strychnine. When seen early the inebriate could be treated while pursuing his usual calling, bat resort was seldom had to medical advice till later. Then it was generally best to sdvise residence for st least twelve months in a genuine home for inebriates, preferably under the prorisions of the Habitual Drunkards Act. When seen st an early stage this disease was as curable as most other diseases.

## SPONTANEOUS DETACHMENT OF LARYNGEAL POLYPUS.

AT the meeting of the Berlin Medical Societr, December 21st, Professor Fränkel resd a very interesting communication from Sanitätsrath, Dr. von Swidersky, of Posen, on a case of extrusion of a polypus of the larynx during the act of conghing. Dr. von Swidersky had known the patient, a cavalry officer, since 184 S . In 1862 he began to be affected with hoarseness and dyspucea, and D: Valentiner then diagnosed laryngeal polypns. Other authorities in Berlin and Tuibingen were consulted; one of these was of opinion thst villous cancer was present, becanse the growth (plainly risible on the posterior third of the left vocal cord, snd attached to its inferior aspect) bled profusely when touched. All who were consulted adrised trache. otomy, but this the patient would never hear of. The dsspnoic attacks occurred from time to time, often sccompanied by serere hemorrlage, and the hoarseness incressed. In 1570, von Swidersky, tracheotomy being still refused, attempted local trestment. The tumour was first touched with canstic potash (well solidified), and afterwards daily with a concentrated solution of ergotin. On May 12th, 1870, the patient was in imminent danger of suffocstion, but next day his medial attendant fonnd him in good roice and spinits, enjoying a cigarelte with his coffee. He triumphantly pointed to a substance which be had coughed
up, and which ho had placed in water. Nicroscopical esamination shoorod that it mas a fibroid polypus. The patieut has remained well sinco then, and there is only a slight iaclination to laryageal catarrla. V. Suidersky attributed the cure to the ergotin treatmont. Professor Friakel had nover in his largo experience mot with a similar case, and wss of opinion that practically we ahould nover trust to such a lucky termination, quite as uncertain as tho chief prize in a lottery. But he had scen a case in which a polypus had very gradually retrogressed. Dr. Bocker had independently diagnosed the existence of a polypus in this case, so that there was no doubt about it. Hensch thought that it might have been coughed up withoat the pationt's knowlodge, and argued from analogous rectal polypi in children, but Friankel persisted in his opinion that the improvement io his case bad been bat gradual, and promised farther details in a paper on the subject about to appoar.
the case of trance at battersea.
Some cxeitement has boen caused by the case of Florence Chisnell, a young girl, who has lain in bed, at her homa in Battersea, in a state of trance crer since November 20th, 1857. She is tull, well nourished, and well developed, contrary to what has been reported, with plain, intelligent features and reddish-brown hair. She lies on her back with her eyes half open and generally oscillating slowly ; the pupils are dilated and sluggish, the conjunctive sensitive; the lids seldom close or blink. The pulse is about 81 ; the temperature on Thursday morning was $98.0^{\circ}$. The arms are very rigid, the forearms bent, the handscrossed over the epigastrium, with the fingers extended. On extending the elbow, we found that the hand remained elevated for three minutes, then returned to its former position very slomly. The hips, kaees, and ankle joints are extended and very rigid. The abdomen is somewhat distended with flatus. Deep pressure in the iliac region produces absolotely no effect. On tapping the skin of the cheekg, fingers, abdomea, or feet with the point of a tootapick, or on pressing the point under onc of the finger nails, the eyea oscillate a little more rapidly than asual, but no mascular movements occur. The bowe's act spontaneously abont three times weekly. The periods commenced a year ago, and have continued to appear since the trance began. In the summer of last year she became aphonic ; her voice improved a little late in the autumn. On the evening of Fovember 20th, she fell into the trance; the rigidity of the muscles was noticed from the first. Freqnent fits of langhing and crying occarred until three weeks ago. Florence Chisnell, in fact, is suffering from a nearotic condition not unknown to science.

## the comparative antiseptic values of CHLORIDES, NITRATES, AND SULPHATES.

In a recent number of the Journal of the Socicty of Chemical Industry (Vol, vi, No. 11), Mr. C. T. Kiogzett,'F.C.S., records the results of aome experiments which he bas conducted in order to determine the relative extent to which certain metallic chlorides, nitrates, and sulphates retard the appearance of mould on flour-paste, and putrefaction in extract of beef respectively. The genoral bearing of the results is to ahow that the aalts of the alkalies and alkaline earths, excepting magnesium sulplate, appear in many instances to promote and nevor to retard tho growth of mould. The corapounds of rinc resemble thoso of the alkaline earths in their action. On the other hand, the salts of iron, tin, load, and aluminium exercise distinct hat not very powerful effects in preventing the appearance of mould. T'he chloride of lead is, however, more active, whilst the most efficient are the chloridea of mercury and copper. In preventing the putrefaction of extract of beef, the chlorides of mercury and copper were aleo the most effective; whilst chloride of zins: was more and chloride of lead less activo than in retarding the growth of mould on flour-paste. The value of the investigation is very much redaced owiog to the experiments not baving been conducted on the modern lincs of bacteriological reasesch. Thus the various test-
glasses containiug tho experimontal media were allowed to become accldcutally infected from the air to which they wore exposed, instead of being all inoculated either with some definite microorganiem or with eome defidite mixtere of microbes, as is now invariably dono in experiments of the kiud.

## HOMICIDAL INSANITY IN CHINA.

Accordise to the law of China, the punishment inflicted on the murderer of a father, mother, brother, husband, uucle, or tutor, and on traitors, is that appalling process known as liny-chic, or elow denth. The fact that tho crime has been committed under the infuence of insanity procures no mitigation of the dread sentonce, and the miserable culprit is sentenced to be cat into $24,36,72$, or 120 pieces, a large proportion of which must be accomplished ere the executioner dares to touch a vital part, and end the torture of the victim. Only in certain csses does the Imperial clemency grant death after the eighth division. The commonest form of this penslty is that of twenty-four cats; and the execntioner prides himself on the anatomical skill with which they are administered. The victim being bound to a cross, the butcher by the first two cnts removes the cyebrows, by the third and fourth the shouldere, the fifth and sisth the breasts, the seventh and eighth the flesh of the forearm, the niuth and tenth the flesh of the arm, the eleventh and twelfth the flesh of oach thigh, and so on.

## ANGIOMA OF THE EPIGLOTTIS.

In the Revister de Ciencias Medicas Dr. C. M. Desvernine reports an example of pedunculated angioma of the epiglotis. The patient was a man agcd 53 , of robust constitution, who for two months before he came under notice had suffered from occasional slight bleeding from the throat. On November 14th he lost a large amount of blood, and the hremorrlage only ceased on ejncopo supervening. Laryngosiopic examination showed an ovoid tumour of lobulated appearance and dsrk-blue colour, and measuring two centimètres in length by one in breadth, springing from the laryngesl snfface of the epiglottis to the left of the middle line, about inidway between the base and the sper. The tumour was attached by a short pedicle, and there mas no infiltration of the tissucs around its root. On iNovember 27th, the pharynx and larynx having first been ancesthetised with a concentrated solution of cucaine, the tumour was removed with the galvanocanstic snare. The only trace of the operation was a small eschar which came sway a few days later, learing the site of the tumour completely healed. Microscopic exsmination showed that it was an angioma cnclased in a fibrous capsule.

## STROPHANTHUS IN RUSSIA.

Dr. A. Kazex-Bek, of Kazan ( $V$ ructch, Nos. 40 and 41, 1857) relates seven everere cases treated by tincture of strophanthus (one part of the seeds to ten of aliohol), five drops being given overy three houre, four times during the first day, and ten drops three times daily subsequently. The cases included chronic myocarditis, with consecutive cardiac dilatation, with calcareons deposits on the aortic valves and walls ; mitral stenosis, with regurgitation (two cases), alone or complicated with parenchymatous nophritis; bronchial asthma, with pulmonary emphysoma (two cases) ; aortic stenosis, with rogurgitation ; and cardiac neurosis in a hyetero-cpileptic woman. In ouly ono case, that of a woman, aged 37 , with rheumatic mitral disease and chronic nephritie, did the drug partly fail, and, even in that case, it proved beyond all comparison better than succinate of caffeine and sodium, or digitalis with valerian, or griadelia robusta, or convallaria, with which the lady had been saceessively trated before. In the remaining aix cases, strophanthus produced a strikiog improvement, uqually in a very short space of time; dyspuca ceased; the paroxysms of bronchial or cardiac asthma, a9 well as oalema, grsdushly disappeared ; the herrt's action became much less frequent and more regalar, and the pulse fuller and stronger ; whilo the daily amount of
nrine considerably increased. When taking the medicine, the patien ts slept soundly and quietly for many successive hours. This circumstance is attrilunted by Dr. Kazem-Bek partly to an improvement in their general state, luat partly to a direct sedative action of the drug on the brain, since a drowsy condition was observed by him also in dogs after an intravenons injection of the tincture. The experiments on animals (frogg, turtles, and dogs) were nndertaken by the writer mainly with the object of elucidating the question whether strophanthus acts solely on the muscular tissue or not. He has come to the conclusion that the drug acts, not only on the cardiac mascle itself, bnt also on the cardiac ganglia and peripheral endings of the vagi. This conclnsion is based on the following facts : 1. That atropine givee rise to a considerable aceeleration of the heart's contractions which have been previonsly slowed by atrophanthus; and 2 , that strophanthns does not slow the heart's beats which have been previously acceleratod by atropine. Dr. Kazem-Bek has also found that stro phanthus increases the blood-pressure, bnt this increase seems to be independent of the heart's contractions; at least the arterial tension continues to rise, while the number of the beats remain unchanged.

THE DYEING OF COFFEE BERRIES.
Havive succeeded in obtaining fonr specimens of colouring mixtures employed by coffee dealers for dyeing inferior sorts of coffee beans as well as damaged coffee grains, Mr. K. Sykora (Farmatzevtitchesky Jürnal, No. 48, 1887, p. 756) subjected them to analysis, and found that they consisted of (a) 4.5 to 8.0 per cent. of chromate of lead $\left(\mathrm{PbCrO}_{4}\right)$, (b) 12 to 15 per cent. of ultramarine, (c) 5 to 12 per cent. of indigo and gamboge, (d) 65 to 82 per cent. of kaolin, and (e) 3 to 10 per cent. of charcoal. Mr. Sykora recommends the following means of detecting this adulteration. First of all, on being touched with a brush moistened in distilled water, an artificially colonred coffee grain becomes spotted or mottled. On washing the grain with distilled water the latter becomes turbid in appearance. On evaporating a portion of the fluid on a watch glass, it leaves a solid residue, consisting of kaolin, charcoal, and various dyes, which may be thon recognised under the microscope. Another portion of the water should be be dried and subsequently made red-hot in a platinum vessel, to be similarly examined microscopically. On one occasion Mŕ. Sykora found that coffee berries had been dyed with yellow brown ochre.

## UNMERITED SYPHILIS.

M. Fournier, in a recent communication, has set forth the statistics which he has taken the trouble to collect of "unmerited" cases of syphilis. In 842 out of 887 infected women, the disesse was of venereal origin, leaving 45 who had contracted it in some other way. On anslysing the latter group he found that in seven the disease was hereditary; four had contracted it accidentally in infancy; eight were wet nurses who had been infected by syphilitic infants; five were mid wives who had caught it in the practice of their profession; twentytwo were cases of "domestic infection," either from nurse to child or vice versit, or from diseased servants; two of raccinal syphilis; two in which the infection was convejed in catheterising the Eastachian tabe ; one consequent on rape; and finally four of unknown origin, bat certainly independent of sexual contamination. With respect to the first group of 842 infected women, 366 were "gay" women; 220 were married women, and 256 were of "doubtful" social status. Of the married women no fewer than 164 had taken tho disesse from their hnsbands. In view of these figures, M. Fournier maintains that the doctrine which forbids discrimination between the different groaps of safferera is one to be unhesitatiagly condemned.

## CUCAINE TOXAEMIA.

AT the last meeting of the American Association for the Cure of Inebriates, Dr. J. B. Mattison, of Brooklyn, razd au interesting paper on the toxic symptoms observed after the administration of cucaine. The object of the paper was to disprove Dr. Hammond's assertion that
he did not believe any dose that could be taken was dangerons. If it were needful to proluce more proof of the unsoundness of Dr. Hammond's statement, Dr. Mattison has effectaally done this. More than thirty cases, reported by various practitioners in difforent parts of the world, were brought forward. In all these dangerous symptoms were developed, and in several instances thero mas an exceedingly narrow escape from a fatal termination. Toxic symptoms were exhibited in an adult after even so small a dose as fonr minims of a 4 per cent. solution, given hypolermically. The leading symptoms were uansea, emesis, headacha, blindness, deafness, loss of taste and smell, profuse perspiration, lividity, gastric cramp; pulse frequent, feeble, irregular, intermittent ; respiration ehallow, gaqping, irregular, difficult, convulsive, suspended ; impairment of gait, speech, and swallowing; mascalar rigidity, palpitation, sense of suffocation and constriction of chest ; loss of motion and sensation in limbs; restlessness, prostration, giddiness, faintness, feeling of impendiug death ; convulsive twitchings, paralysis, mania, delirium. The general conclusions arrived at were that there is a lethal dose, though the fatal quantity is uncertain ; that toxic effects may appear at all ages and in every state of health; that the drug should be administered with great caution, and never without the antidotes of amyl nitrite and hypodermie morphine for immediate use.

## PROGNOSIS.

Dr. Pye-Smitri has contributed to the current (forty-fourth) wolume of Guy's Hospital Reports an interesting article, entitled Observations on Prognosis. It is likely to prove of great scrvice to students, who have better opportunities of studying the main clinical appearances in disease than of acquiring prognostic faculties before qualification. Prognosis requires experience, and experience is just what every stodent mast lack. The look of many diseases may soon be learnt, but prognosis requires the observation of many cases of the same disease in every type of subjoct which it is likely to attack, and the student cannot observe to this extent. Moreover, hospital patients recorer from some diseases, and die from others which are more or less dangerous to private patients neither inured to hardships nor debilitated by poverty ; so the limited prognostic power of the diligent student may serve him false after qualification. Dr. Pge-Smith dwells upon the temperature question. He notes how a transitory ailment may send up a child's temperatore to $102^{\circ}$ or $103^{\circ}$, whilst a high temperature, as $105^{\circ}$ in scarlatina or pneumonia, in a child does not add to the gravity of the prognosis as it would in an adult. Women resemble children in this as in other respects. A temperatnre of $103^{\circ}$ in a girl of 18 may be caused by menstrual irrogularity, by non-specific sorethroat, or by slight gastric catarrh. A rise of temperature during menstruation is often noted after ovariotomy. Dr. Pye-Smith's observations on fevers and tubercular meningitis are most instructive, but cannot fairly be given here in a condensed form. He conclndes his paper with some interesting prognostic aphorisms.

## THE LESSON <br> OF <br> THE EPIDEMIC IN MONTREAL.

A paper on the Outbreak of Small-pox in Montreal, Canada, during 1885-86, was read by Dr. Henry Tomkius, officer of health to the borough, before the Leicester Medical Suciety, on Jannary 13th, 1888. For some years previous to the outbreak the city had bean free from amall-pox, and vaccination had been very much neglected, compulsory powers not being enforced. A man from Chicago suffering from a very alight attack, so mild as to be mistaken for chicken-pox, was admitted into a large general hospital, and from him the infection spread to several other iumates, from thence the disease was disseminated in numerous parts of the tomn, and extencled with such rapidity that before the end of 1885 moro than 3,000 deaths had occurred. During the progress of the disease so great was the demand for vaccination amongst those who had prericusly neglected it that more than 80,000 vaccinations and revaccinations were performed in a popula-
tion of about 100,000 at a great expense and by the patting into force of compulsory motification of iufectious disease, vaccination, and eflicient isolatiou and disinfection, the diseaso rapilly abated, aud by the enil of April, 1830 , not a case was knowu to exist within the city. $\mathrm{U}_{0}$ p to the ond of 18S5, 3,161 deatlis were recorded, of which no loss than 2,717 were childreu under 10 years of age, showing how scverely these suffered compared with raccinated communities. From the rettrns supplied by the hospitals, the following figures wero given:- Tho anmber of paticuts treated in hospital was 1,332 ; tho deaths amongst these were 418 , or 31.3 per cent.; of these patients, 805 were not vaccinated and 527 raccinated ; of the lalter 103 died, or 19.5 per cent.; of the 305 not vaccinatod there died 315 , or 30.1 per cent. As further ehowing how many more children suffered than adults, who had mostly been once racciuated, it is to bo observed that out of tho 1,332 patients adnitted into hospital, $4 S 9$ were undor 10 years of age, and St3 above that age ; of the former 202 died, whilst of the latter 216 only died.

SCOTLAND.
CHAIR OF BOTANY, EDINBURGH UNIVERSITY.
Vartoes gentlomen are spoken of as probable candidates for the Cbair of Botany at Elinburgh University-namely, Professor Isazc Baily Balfonr (Oxford), Mr. Patrick Cidues (Eliuburgh), and Professor Traill (Aberdeen) ; but it may ba conjectored that the list will be cousiderably enlarged when notice of furmal application has bcea given.

## THE PROPOSED NEW CHARTER FOR THE LONDON COLLEGES.

Lees interest has been excited in Elinburgh regarding the memorial of the London Colleges. Considerable diversity of opinion has manifested itself as to the effect this move, if succossful, will have on tho Ediuburgh Medical School. The Soolsman has taken up the cudgels against the London Colleges, and calls on puhlic opirited citizeus and members of the profession to resist a measure so destructive to their city's iatcrests. Professional opinion appears divided, if we are to jadga from the rumours of compromise; but there is almost complete nnanimity of vicw, even among keen opponents of the primary meaanre, that whatever is granted to the London Colleges must, of necessity, bo granted to the Edinburgh Colleges likewise.

MATERNITY HOSPITAL, EDINBURGH.
TEE arrangements in the Royal Maternity and Simpzon Memorial Hospital, Eliuburgh, during the next three months, will ba thast Professor Simpson will be succeeded as Plysician ou daty by Dr. Underhill, iwith Dr. Barbaur as assistant-phfsici3n. The present house surgeons, Messra. John G. Havciock, M.B. and C.M., and Caristopher Martiu, M.B. and C.M., will be succeeded by Jessrs. F. A. Jakkes, MI. B. and C.M., and Inglia Taylor, M. B. and C.M.

## ROYAL INFIRMARY, EDINBURGH.

Thr series of entertainments given to patients, nurses, and students which commencel with the kitchen coucert in the middle of December in the liogal Infirmary, E.liuburgh, and consistiug of soirtes and concerts in various wards, havo afforded much critertainment an l been on a more extensive scale than in previous years. From the report submitted at the anaal masting of the aubscribers to the lufirnary, which was held on Monday, wa learn that the total number of indoor patients treatod during the year was 8,823 , as compared with 8,033 in the preceding jear, this large increase being mainly due to the greater number of wards now open. This is the largest number of patients ever treated in the wards in any year, and becomes mora striking when it is considered that no cases of infastions disease aro now treated in the Infirmary. The proportion of medical and sargical
cases treated to a conclusion was: surgical cases 529 per cent., and modical cases 47.1 per cent. The average number of days of residence Fas much the same as last year, 20.1 as agaiat 25.9. Tho nu mher of outdoor cases has alss increaset, and last year reachad the number of 25,000. The number of buds now arailablo for uso in tho wards is 670, with 30 cotsia additiun available for childrcu. The averago daily iucrease of beds has b:en 27 comparoll with previous years, and the rate of maintenauce per bed has been £55. The fioancial condition is not so satisfactory as could be dosired, the capital stock having been reducad by $£ 5,711$, while the building debt remains the same. There has boon an unusually small antount of money derived from legacies during tho year, amounting to ouly $£ 7,6 \% 0$. In $1850-81$ it was rather under $£ 7,000$, but the ten jears praceding that gave an avoraga of $£ 15,000$, and since that the average las been as high as $£ 37,896$. In their report the direators apesk in high terms of their apprecistion of the sorrices of the superintendent, Daputy Surgeon-General Fasson.

## GLASGOW LUNATIC ASYLUM.

Tar annual meetiog of the directors of the Glangow Lunatic Asylnm was held last week. The report submited stated that at the begin. ning of the year the number of paticuts at Gartuavel was 480. The adnissions during the jear munbered 153, the discharges 137, of which 69 were recoveries, and there were 20 deaths. Of the tatal 470 at the close of the year, $2 S 6$ were 1 rivate patienta, and 184 chargeable to their parishes. The report on the health of the inmates was erceptionally good, the percentage of recoveries being highar and the death-rate lower than on auy occasion ever recorded at Gartnavel. The financial statement showed that tha reserre fund of the asplum amounts to $£ 28,796$.

## CONVALESCENT HOME, GLASGOW.

The Lonzie Convalescent Hame continnes to complete the goud work done in the Glasgow infirma ies and disyensaries. At the twenty-third annual meeting it was statel that last year 1,441 pationts were receiped at the institution, and their arerage stay was 18 days. The expenditure during tha year included $£ 408$ for alterstions and additions to the farmsteadiag, the cost per head for patients amonnted to 1s. $4 \frac{1}{2}$ d. a day, the total amonnt expendal beigg $£ 2,170$ 16s. 6 d. The anoual subscriptions came to $£ 902$ 9s. 6U., the contributions from employes of works, otc., $£ 3062_{3} 3111$, and the legacies £ 438.

THE LATE PROFESSOR DICKSON: A REMINISCENCE. A conrespondent writes: Of five or six men distioguished by their labours in various brayches of science, who.tauglat iu tha medical curriculum at Glasgow University, some fourtecn years aga, there was none who left a more onduring inpression on a certain order of youthful minds than the late Professor Alexander Dickson. In no sense a brilliant orator, or shomy dispanger of secondhand information, ho yet managed to gain a respect'ul hearing from audiences, who might perhaps not unasturally have been thougat but slightly appreciative of higher claims upon their regard. There was in him a sleepless intellectual inquisitiveness, and he combined a rare gentleness and modesty with a certain nairpe self-poosession and unaffected easo of manner, the infallible marks, as all felt, of good breeding. and of a five ciaracter. Whed interrupted in his discourss by more than usually noisy demonstrations of applause or disapproral, he has been heard somewhat pathetically to ask indulgence, on the ground that he was "not without norvousncess," and it was this very excess of sansibility which, pervading the whale range of his mental actirities, made bim sympathetically alivo to tho perplexities and difficulties of others, whilg it, at the same timo, had no small share in inspiring those feelings of almost chivalrous devotion, with which he was wont erolong to be regarded by the more "finely toached" among the students. As I write, the memory of our botanicsl excursions comes back after the lipze of years, fresh as thoss early spriug mornings,
when we left the darkness and din of the great eity. to wander in the sunny lanes of Clydesdale, or on the Camprie Hill. The figure of the Professor is still belore me, tallish and slightly stooping, dressed in grey tweeds and small round cap, smoking a short pipe, with both hands in tronsers pockets, striding rapidly slong one side of the rosd, or pansing to describe some pcculiarity of plant structure, with an enthusiasm which regarded neither time nor place, snd which would constantly, when the discourse seemed to be near an end, as it were, spasmodically hurry the speaker away on some fresh line of inquiry and speculation, till at leugth he was bronght op by noticing that his sadience had dwindled to not more than one or two, whose blank faces indicated awe and dismay at the recondite and interminable course of the argument, and then an amused smile wonld pass into the dark blue eyes, snd as if suddenly recollecting himself, he would resume his walk. There are some to whom the earth will seem colder and even the spring violats less sweet, by the death of such a lover, but in that place where the "shades of the pions" still linger, sfter their bodios havo decayed, the grateful recollection of hondreds whose intellectual life owes something to the kind friend and horoured teacher whose loss they mourn, Dr. Dickson's memory will be a perpetusl inspiration while life lasts.

## SANITATION IN ABERDEEN.

A considerable smount of work, directed towsrds the improvement of the sanitary condition of Aberdeen, has been done during the past year. No less thsn 3,180 nuisances were abated and 4,206 orders were given for smendment of houses snd premises. Patients, to the number of 517, who were suffering from infections diseases, were removed to the hospital, and 4,380 were supervised at home. Un wholesome meat was seized in 105 cases, and fines for dealing in it were imposed to the extent of $£ 19$, the total weight seized wss 32 tons, an increase of 20 tons on that of the preceding year. Dr. Mackenzie Booth has been appointed interim medical officer of heslth in plase of Dr. Thomson, who has beon appointed to a similar office in Sheffield.

> FEVER IN PAISLEY.

Pascley has lately had an unenvisble notoriety for the namber of cases of fevers which have cecurred in it. Daring the month of December, eighty-one cases of infections disesses were admitted to the hospital, comprising sixteen cases of typhus, sixty-three of enteric, and two of scarlet fever. It is stated that no fomer than one hundred and twenty-six casos of enteric fever which ocenred during the epidemic were associated with the milk supply from one dairy in the town. It is remarkable that so large a number should have been allowed to occur from one source of contamination. Twenty-four deaths from infuctious disesses occurred during the month. There remained in the hospital on December 31st nine cases of typhns, fiftyfour of enteric, and three of scarlet fever.

## IRELAND.

Tee desth-rate of Belfast is said to be increasing to an alarming extent. It has been 41.4 per 1,000 -more than double the rate in London and one-half greater than in Dablin.

THE LATE MR. D. F. BRADY.
Mr. Daniel Fredrnick Brady died at his residence, Rathgar, on Monday, st an advanced age. He obtained the diploms of M.R.C.S. Eng. iu 1836. He $\pi$ rss inspector of anatomy in Ireland.

FOISONING BY SEVER GAS.
Seyeral cases of illness, believed to bo due to poisoning by sewer gas have occurred at Sandymonnt, Dublin, and three children of Mr. O'Callaghan have lost their lives. Dr. Murphy, of IIarcourt I Strect, who .rss in attendance, found s boy, agred

11 years, suffering from nlcerated sore-throat, and haring at the eame time sore patches over the body. The child was then in a low typhoid condition and be never rallied. A second child, a girl, aged 15 years, subsequently displayed the same symptome, and she also succumbed; and the third child died soon after being attacked.

## JERVIS STREET HOSPITAL.

A ball in aid of the funds of this institution is announced to take place on January 25th. In the present state of depression in Ireland all charities are suffering. There is still a balance of $£ 16,000$ die on the new building of Jervis Strcet Hospital.

## PROPOSED SCHEME FOR NURSING THE SICK IN COLERAINE.

A meeting of those interested in the proposed scheme for the better nursing of the sick in Coleraine was held in thę Town Hall last week. A report was read from the committee sppointed at the last public meeting, which showed the estimated cost of a cottage hospital, with the rules for its management. A committee was appointed to solicit subscriptions and report to a public meeting which will shortly be beld.

EPIDEMIC OF MEASLES AT CORK.
Dr. Donovan, medicsl officer of health, in his monthly report for December, states that there is at present an epidemic of measles in Cork, which has not occurred previonsly for seven years. It is difficult to prevent it spreading, owing to the fact of the infection being so intense in its esrly stage, and also because nearly all the cases are treated at home, where, ss a rule, the disease runs through whole families. This clearly points to the necessity of having cases of infections diseases speedily removed to hospital, which is the only proper means of isolsting them. At the police court last week a man named Noonan was charged by the corporation with a breach of the Public Health Act by "wsking" his child, who had died from measles. Dr. Donovan expressed his belief that the recent spresd of measles was owing to such conduct as the defendant was charged with. All the persors who attended the wake (abont thirty) were, he said, liable to spread the infection, snd might communicste it to 200 or 300 persons. A fine of forty shillings wss inflicted, but remitted on his promising to go to the workhonse.

## THE NORTH-WEST SECTION OF THE NORTH OF IRELAND BRANCH.

The second snnual dinner of the North-West Section of the North of Ireland Branch of the British Medical Association wss held on Wednesdsy, January 11th, when the members spent a most pleasant and enjoyable evening. Dr. Bernard, President of the Section, was in the chair, and Dr. Warnock, Donegal, in the rice-chair; the great majority of the members were present. After the nsual toasts had been honoured, that of "Success to the North-West Section of the British Medical Association" was received with much enthusiasm. Dr. Donaldson, the able and energetic honorary secretsry, responded in a few appropriate and eloquent words. Ho showed that the success of the Society depended principally on two factors: 1. That the medical men in the North. West of Ireland be imbued with the scientific spirit and with love for their mork. 2. That the meetings be conducted properly; and in this respect he dwelt on the importsnce of showing living cases and pathological specimens at those meetings.
He then went on to spesk of the success which hsd slresdy attended the Section, and finished by an account of the outlook of medicine Thich advancing knowledge rendered possible.

A correction. - In reference to the case of Dr. Habu referred to last week, wo are informed that the report given in the condensed extrsct on which our notice was based wss incorrect in fact; the operation performed during life was tracheotomy, and that the larynx was extracted sfter death.

## ANNUAL SANITARI REPORT FOR 1986 BY TIIE SANITARY COMMISSIONER OF BUMBAY.

We have alrealy doalt with the Roport on the IToslth of the Euro jean Troons in the Bombay Coumand for 1856.

There is nothing more notahis than the rapid increase of the population of Iudis, in apite of the annual mortality from malarial ferers, and the recurrence of epidemics of cholera, at intorvals more or less uncertain, and oceasional faniues from destruction of tho staple grsin crop by failure of the monsoon. Fortunately such visitatious, althongh prevailiug over wide areas, nre not unirersal, aud as year by year the railways are pushod into provinces and districts formerly ill-supplied rith tho means of carriago, famines, whon they do occur, will bo more easily dealt with and attonded with loss mortality. If population iu the Indian empire goes on increasing st the present ratio, the food supply for the teoming nultitudes of people will become a serious question. The number of children born in tho liombay Prosidency in 1586 was $5: 2,431$. They were 2,122 in oxcess of the number recorded in the presious yoar, while they exceed the mean of the proceding ten years ending 1585 by 169,643 . The total increase of the Presidency was 10.12 per 1,000 of the popnlation, above the mean of the preceding ten years.

The desths in 1886 among the civil popnatation in the 255 rursl, town, and cantonment circles in the Presidency of Bombay amounted to 200,140 msles and $1 \$ 1,045$ females, or a total 381,185 of both sexes. As compared with the three previous yesrs, 1886 was a tolerably healthy jear. The death-rate per 1,000 was 23.17 , against 28.78 in 1855, and a decennial mean of 26.16 . It is very interesting to note the grest improvement in the death-rate in Abmedabad for 1886, compared with thst of 1885 and previous years; the Sanitary Commissioner gives the crodit of this improvement to the wide eanitary measnres introduced by Ris Bahididur Ranchorelíl, C.I.E., President of the 3Iunicipality. Under this onlightened gentlemsn, Ahmedabad, according to the Commissioner, "has certainlytaken the lead of sll the manicipalities in Western India, including Bombay, in having provided a tramway, by which all tho night soil collected in the city is removed to a distance of three miles from it." This would in any city in the world be deemed a sanitary measure of cardinal importance. In an Indian city it is impossiblo to exaggerate the good effect certain to spring from it. It is safe to prophesy that when cholers next visits Abmedabad, Mr. Tanchorelil will have the gratification of seeing a greatly diminished mortslity, to say nothing of the good already abtained. The Government havie acknowledged this gentleman's beneroleat efforts ; it frould be well to hold uphis goad example to every municipality in India.
The mortality from cholera in 1880 was a mero flea-bite compared with that of the previons year, which anounted to 37,286 , while in 1886 it was only 167 . On this difference the Sanitary Commissioner remarks: "We know so little shout the laws which govern the preralence of choiera that it rould bo useless to speculate is to why the disease, after causing 87,286 desths in $188 \%$, should suddenly cease in the first month of 1886 ," and he adds, "the lessened prevalence was not due to any diminution of filth, in and around the villages and towns in the Presidencr, and the only way to account for it is by the supposition that the factor necessary for its derelopmont (probably atmospheric) was absent." Trde ; but this fact mnst never be kept ont of eight : that in every place in tho world, be it city, village, or hamlet, fisited by cholera, tho mortality has been in proportion to the filth present.
The Sanitary Commissioner, in obodience to a Government order, has given a mar, which illustrates the distribntion of and mortality from cholera in the different registration circles in which the diseaso was present. Apponded to this is a statement showing each collectorato affected; tha name and number of each circle; its pupulation; the dates of first and last cases; the total cholera dcaths ; their ratio per 10,000 of the popuatation ; the periol of maxinum intensity ; the number of villages in each rural circle; and the number of those affected and not affectel by the disease. It is needless to ray that a map illnstratel in this way glves us instructive information as to the course and progress of an epidemic. As is usual in maps of this kind, it is coloured in difforont shades of groen, according as a high or low death-rate obtsined in the affectod districts.

The deaths from emall-pox amonatod to 876 porsons; the diseass was of a mild type. During 1886, 146,986 males and 134,464 females diad from "fevor," a total of 281,450, whilo in tho previons rear tho death-rate from this canse was 814,237 . This illustrates an old Indian obsorration that a bad cholera year is also a bad fover year. Tho same rulo obtains as regards bowol disoases; thus, in 1836, a non-cholera jear, 36,612 persons died from bowel com-
plainte ; in 1865, a cholera year, the deaths from this cause amounted to 45,056 .
It is satisfactory to read of the zeal with which raccination is carried on ; 855,972 porsons were primarily vaccinated, and 47,938 wero re-vaccinated, a net incrosso of 1,585 , or 0.19 per cont. nnder primary vacciuation. It is evident that the poople in the liombay Presidency are wissr in their generstion than the citizens of enlighteued Leicoster. The former know what smsll-pox is, the latter have to wait a little for their experience ; when it comes it will bo found in Leiccster, as elsewhere, that Dame Experience keeps a dear achaol.

## ARMY MEDICAL DEPARTMENT REPORT FOR THE YEAR $18 \times 5$ <br> (Continued froms vol. ii, 1897, p. 1393.)

The foreign stations st whioh British troops were quarterod during the year 1885 were twolve in number, and inclnded a wide diversity of climates. They rere Gibraltar, Malta, Cyprus, Egypt, Nora Scotia, Bermuds, West Indies, Cspe of Good Hope and St. Helena, Msuritius, Ccylon, China, and India. A soparate section of the report is devoted to a history of the health of the officars and men who were serving in each of these twelve military commands. Thelesding statistical and medical particulars furnished in the report on some of these foreign stations now follow.

The average atrength of the troops comprising the garrison of Gihraltar was 4,353. There were 4,587 admissions into hospital during the year, giving a ratio of 1053.8 per 1,000 ; the desths amounted to 35 , a ratio of mortality of $8.0 \pm$ por 1,000 ; and the average number coustantly sick was 253.58 , showing a constant inefficiency throngh sickness st the rate of 58.25 per 1,000 . These ratios sre all bigher than the averages of the preceding ten years, and considerably higher, as regsrds the death-rate, than that of the previous year 1884, when the ratio of mortslity was 4.01 per 1,000 less. The death-rate of 1884 was, however, the lowest on record at Gibraltar. Brigade-surgeon Warren, in medical charge of the station hospital, when remarking on the increase in the ratios of aickness and mortality during the sear 1885, pointe out that the rato of mortality was incroased by the occurrence of 2 desths from cholera, 3 from enteritis, and by several deaths from injuries. Diseases of the febrile group led to 730 admissions, and among these were 10 deaths, of which 5 wore due to enteric fever. In the preceding year there were only 3 cases of enteric. iever ; in 1885 there were 25 cases admitted. The medical report states that tho disease cauld not be traced to any defects in the barrscka or their vicinity, or in the water-supply. Primary syphilis caused 747 admissions, snd secondary syphilis 140 , giving ratios of 171.6 and 32.2 per 1,000 respectively, which are congiderably bigher than the ratios of 1884 , snd much above the average. Including gonorrhea and its sequelr, the total ratio of admissions for vencreal diseases was 362 per 1,000, and the ratio of constant inefficiency from these disorders was 21.91 per 1,000 , both very mach above the arerge. Onc officer died from cholera. He w8s residing at Europa, whero another csse had occurred five weeks osrlier, but no connection between the two cases, nor any cause for either of them, could be traced. No other cases occurred subsequentiy at Europa.

The average strength of the troops composing the garrison of Malta was 4,602. This number does not include the men of the Malta Fencible Artillery. The force enumerated caused 4,249 admissions into hospital, giring a ratio of 923.3 per 1,000 ; and among these wero 68 deaths, a nortality of 14.77 per 1,000 . The average number constantly sick was 272.04 , boing at the rate of 59.11 per 1,000 . All these proportions are higher than they were in 1884, and are above the averages of the preceding 10 yoars. Enteric fever caused 98 admissions and 24 desths. The deatles from this disease were equal to 35 per cent. of the deaths from all canses. Of tho cases, 14, with 6 deaths, occurred at Valletta; 74, with 15 deaths, at Cottonera; aud the principal medical officer attributes the disproportion in the number of cases which occurred at the two places to the improved water-supply of Valletta, while there was no corresponding improvement in the water-supply of Cottonera. The remaining 5 casos took place at Civita Vecchia. The medical officer of Cottonera remarks that the "enteric fever was very fatal during the hot months, and the year 1885 was one of the liottest ever knorn in Malta." Two casee of small-pos occurred among the troops; they were sovere, but both the patients recovered. The disease was said to have been introduced by sailors at the lazaretto. Thirty-nine cases occurred among the civil population, but, careful precautionsry messures being adopted, it did not epread among the military beyond the two cases already named. Primary syphilis cansed 172 admissions, and secondary syphilis 102 , the ratios being 37.4 and 22.2 per 1,000 respectively. Gonorrboes and its sequolx
caused 309 admissions, equal to 67.1 per 1,000 of the atrength. Seren deatha were due to injuriea; 3 beivg due to falls, 2 over lattlementa, and 1 from a terrace at the Valletta hospital ; 2 resulted from drowning, and 2 wero suicidal.

Some remarks, which appear to demand sttention, ara made by the Principal Medical Officer aud other medical officers with regard to the bad state of health of the Dorsetshire Regiment. This corns hed the lighest ratios of admission and of constant sicknesa during the year, namely, $1,465.8$ and 114.48 per 1,000 respectively. These high' ratios are attributed in the report to "the inferior phyaique and great youth of the men, which rendered them quite unable to evaure the unnsual heat of the summer." The medical officers in immediate connection with the regiment also point out that the spring of the year was the most unfavourable time in which the regiment conld have arrived in the command. The Principal Medical Officer concura in this view, and adds he has noticed that regiments which have arrived in the island in the spring havo suffered much from fever during the following summer and autume.

The average strength of the Royal Malta Fencible Artillery was 353 non-commissioned officers and men and 20 -officers. The corps was not so healthy as it was in 1884, and the admissions into hospital were sbore the average of the previous sir years, hut only one death occurred; this death resnlted from remittent fever. It rould appear from the report on the recrniting for this corps that there is considerable room for improvement in the matter of education in the island of Malta. Out of 111 recruits inspected during the year, only 1 was retnrned as well educated; and of the remainder, only 25 were able to read and write, while 2 could read but not write, and 83 were nable to read.

The troops quartered in Cyprus averaged 852 in number. There were 918 admissions into hospital, and 18 deaths; being at the rates of 1077.4 , and 21.13 per 1,000 respectively. These numbers ahow a conaiderable increase by comparison with the corresponding ratios for the jear 1884, and also as regarda the average similar ratios for the preceding 6 years. With regard to the increase of disease and mortality in 1885, the Senior Hedical Officer remarks that "the high ratios are due to the arrival of certain battalions from Egypt, the men being in a very aickly and dobilitated condition from the hardships of the recent campaign at Suakin, and to enteric fever having brokeu out among them. A somewhat similar increase in sickness and mortality occurred in 18S2, when a regiment arrived from Egspt nnder similar circnmstances." Enteric ferer caused 51 admissions to hospital, and 15 deaths. The greater bumber of the admisaions and deatha ocearred at Troodos, and the medical officer in charge at that port-remarka:"During the two years I have been in charge of the military hospitals at Cypras I never sam a case of enteric fever amongst the men of the garrison except among those just arrived from Egypt." There was no death among the conumissioned officers, who were 37 in number, nor amoug the women and children, whose numbers were 27 and 40 reapectively.
The only atation in the Dominion of Canada in which there was a garrison of imperial troops during the year 1885 was Halifax. The average strength of the troops quartered there was 1,273 non-commisaioned officera and men, and 66 commissioned officers. Among the former there 910 admisaious into hospital and 10 deaths, being at the rates of 714.8 and 7.86 per 1,000 respectively. There were 24 attacks of illness among the officera, but no death. Among the women, $\$ 9$ in number, there were two deaths from phthisia pulmonalis ; and among the children, who averaged 183 in number during the year, there were 11 deaths. One soldier, who had managed to conceal his illness for a fortnight, died from enteric fever, and this was the ouly case that occurred among the troops during the jear at this station.
(7o se continud.)
The College of State Medicine. - The following gentlemen were elccted Associates of the College at the meeting of Council on January 13th, 18s8, Sir Joseph Fayrer, K.C.S.I., in the chair :Adams, Charles, M.B., LL.B., Qual. State Med. Dub., Surgeon I. M.D., Madras ; Alexander, F. W., Dip. Pub. Iealth R. Coll. Phya. Surg. Fing., Mile End Infirmary ; Birch. Edrd. A., MLD., F.R.C.S.I., Cert. Pub. Health, R. Coll. Phys, Edin. ; Corban, Laurence, M.D., Dir. San. Sci. R. Irel., Surg. Major M.S. ; Callen, Peter, MI: D., Ccrt. Pub. Health, R. Coll. Phys. Edin., Surg. Major I.M.D. Bengal : Evers, Benjamin, D. Г.H.Camb., Surg. MLajor I. M. D., Bengal ;Hehir, Patrick, D. P.HI. Camb., Surg. I. M.D., Bengal ; McGann, T. C., F.R.C.S.I., D.P.H.Camb, Surg. Major 1 M.D., Madras; McNally, C. I., M.D., D.P.H.Camb., Surg-Major, I M.D., Madras ; Simpson, W. I. R., M.D., D.P.H.Camb., Med. Officer of Health, Calcutta; Thompson, S. I., D.P.H.Camb., Surg. I.M:D., Bengal ; Weightwick, F.P., M. B., D.F.H. , R. Coll Phys. Surg. Eng. St. John's, Horsleydown.

## ROYAL COLLEGE OF SURGEONS.

An extraordinary meeting of the Council waa held at the College on Thursday afternoon, Japuary 19th. The minutea of the quarterly Conncil, held on Jannary 12 ch , were read and confirmed. A report Was read from the Secretary of a candidate found qualified for the diploma of Fellow. It was resolved to issue a diploma of Fellow to Mr. C. L. Hudson, of Midddesex Hospital.

The Council then proceeded to the further consideration of the proposed reply to the Prizy Council respecting the atatement made on behalf ot the Absociation of Fellowa in reference to the supplemental charter. The revised reply, as proposed by the President and VicePresidents, was read, and, after some discossion and amendment; was agreed to, and ordered to he sent to the Lord President of the Prisy Conncil, without waiting for confirmation by next meeting of Council.

## ASSOCIATION INTELLICENCE:

## COLLECTIVE INVESTIGATION OF DISEASE.

The Repert upon the Connbotion of Disfass with Habits of InTEMPERANOE, which was presented to the Section of BIedicime in the Annal Meeting' of 1887, and a further portion of the Report upon Old Age have been completed, and will shortly be published in the Journal.

Reports apon the two remaining inquiries, namely, that into Diphtereia, and that into the Grographical Distribetion of certain Diseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first seriea remains open, namely, that on The Etiology of Phteisis.

A fresh inquiry into the Origin and Mode of Propagation of Epidemics of Liphtheria has just been issued.

Memoranda upon these subjects, and forns for recording observations, may be had on application to the Secretary of the Collective Investigation Committee, 439, Strand, W.C.

## BRANCH MEETINGS TO BE HELD.

Metropolitay Counties Branch : Western District.-.The next mecting will be held on Friday, Jannary 27 th , at St. Mary's Hospital, Paddingtod (by kind permission of the reedical staff. The chair will ba taken, at 8.20 P.M., by H. Charlton Bastian, Esq., M.D., F.R.S., the Vice-President of the District, Bosiness: 1. Minates of preceding meeting. 2. Clinical remarks on Cbronic
Diseases of the Knee-joint in Yomg People: by Edmund Owen, Esq., 3r.B., F.R.C.S., Surgeon to St. Mary's Hospital and the Cbildren's Hospital; 'several F.R.C.s., Surgeon tu st. Maryts will be shown. 3. Demonsiration of cases of Chronic Disease of the spinat Cord: by D. B. Lees, Esq., M.D., F.R.C.P., Physician to St, Mary's Hespital and Assistant Physician to the Childrea's Hospital. 4. Drs. Waller (Lecturer on Physiology), R. Msgnire, Silcock (Joint Lecturers on Pathology, etc.), and Handtield-Joues (Joint Lecturer on Midwifery and Diseases of Women), St. Mary's Medical School, will exhibit toicroscopic specimens, and-give short demonstrations.-C. A. Pattin, Honorary secretary, Marpool House, Esling, W.

Dublin Braxch. - The eleventh annual genersl meeting of the Dublin Branch of the British Medical Assnciatiou will, hy the kind permission of the President and Fellows, be held on Wednesday, Jantary 25th, at 4 P. s.., in the hall of the Kiug and Queen's College of Physicians, Kildara Street. Thc officers and Conneil for the ensuing year will be elected hy hallot, and any other necessary bnsiuess transacted. Edward D. Mapother, Esq., M.D., Fresident-elect, will deliver the transacted. Edward D. Hapother, Esqu., Ahe. Dusiness of the annnal meeting, the portrait of the President of the Assooistion, Dr. Bsaks, will be presented w the President and Fellows of tha King and Queca's College of Physicians by the President of the Branch, on behalf of the smbscribers to the Reception Fund of the late snnual meeting of the British Medical 'Associstion in Duhlin. Snbscribers to the Reception Fund, slthongh not members of the Brsnch, are invited to attend tha mecting. Members wishing to lring any sulject of professional interest before the meeting, to nominate any member to serve as an officer or on the Conucil of the Branch, or to propose any geutlensa as a member of tha Association, or tha Branch, must inform the Honorary Secretary on or befure January 13 . The annual dinner of the Brasach will be in the College haln, at . P.an, onse day of the meeting. The chsrga for dinner tickets for members who parchase their tickets on br hefore Tuesday, Jaunary $2 t$ th, is Ifs. ©d.; for members puroliasing that tickets after that date, and the guests el. Applications for tickets and the name and address must be forwarded to the Monorary Secretary. Members gnests are not limited to their professional fricnds.-L. II. Onalisy, M.D., Honorary Secretary and Treasurer.

Oxford and District Braste. - The next meeting will be beld at tha Radcliffe Infrmary, Oxford, at $30^{\circ}$ clock ou Friday, Jannary $2 i t h$. Notice of papers to be read and cases to be shown must be given to either of the Ilonorary secre-
arles od or tefore Monday, Jmanary 2Sri. Members aro requested to send their aries on subscinetinns to thio Assoclation abd the Branch, «Inc Jaouary lat, to Dr.
 Groad Street, Oxford, Honorery Sceretarles.
 Districh will to held at Daski"s 11 otel, Shanklin, on Thursday, Jabuary $20 t h$, aL Ar. M. J. Willamson, M.D., Fresldent, in the Chair. Agenda: J. Q. sinclair Coghiliyin. Antlefria in the i'srexim of Phehisis. R. Robertson, M.i). : Jeart Con-
 dition io rify Cases of Pumonary Comanm. W. E. Green, Sing. : Vegetable I'aralus of Dental Caries and cptothrixic Succalin. W. Guillemict who are desirous of alten ; l'hotographa and Microscopic specinens. Geutlemen who are demirous of fotroducing latienta, exhibiting patholngical specincus, or Mange comecretary-
 lifaner al
secretary.

Merropocitas Coostig Brasen: Nosth London Distalct.-The mext mecting of thls District wtli be held at the Deaconesseg' Iostitution and Training Itoapital it Totteoham, N, on the evening of Thursday, Febrnary 2od, at \& P.M. Dr. Bridgwater, J.P., Vice-I'resident of the Distrlet), wheu Dr. Dowse will read - paper on Masenge, and demoosimate its practice. Several interesting cnses will alio be exhibited in the hospitat.-Gienoee Hentr, M.D., Hooorary Sccretary.

Corth of Irelasin Brasert- A gegeral meeting of the North of Jreland Branch will he held in the Belfnst Hoyal Hospital on Tharsday, Jauuary 26th, 1888, at 12 o'clock nood. Busioess :- The President (Dr. Palmer) will show a case of Excision of the Kince.joint. Professor Dill will iatroduces discussion on the anbject of Pucrperal Fever. Dr, O'Neill will exhibit lwo patients on whom he performed Amputation of the Thlah by Sedillot's method; and also a patient perficd for a severe case of Wry Neck. Ife will read ahort notes of the cases. Dr. Derapsey wlll ahow an Ovarian Cyst and also a Uterine Fibroid which he Draccessfully retwoved, aod will read notes of the cases. Dr. Byers will read a hort paper on the Local Trentment of the Uterns in Puerperal Fever.-Joun W. Brers, M.D., Secretary, Lower Cregcent, Belfast.

## BERMUDA BRANCH

A yerting of this Branch was held at the Town Hall, Hamilton, on December 13th. In the absence of Denaty Surgeon. General C. Graves Irwin, P.M. O., the Iresident, Dr. Park Teceer rwas asked to take the chair. Five members were present.
Thanks to Late President.- Dr. Tucker ssid that on the eve of the departure of Dr. Irwin from Bermuda, they had all to offer him their heartfelt thanks for many acts of kindness, and especially for the manner in which he had discharged the duties of his office as President of the Bermada Branch of the British Medical Association.

New Acting Presidenl.-Dr. Eldon Harvey proposed, and Dr. E. C. Wilkisson seconded, that Dr. Park Tucker be asked to act as president pro tem. Dr. Tucker consented.
Cascs.-Dr. Eldon Ilarvey showed a case of Ulceration of the Palate ; also a case of Naso. Pharyngeal Growth of Adenoid Tissue.
Stonc in the Male Bladder.-Dr. Park Tuckrr, after ad experience of some forty years, had only heard of two cases occurring in persons who had lived all their lives in the island. Stone in children must be extremely rare ; ne member present had ever seen a case.
Death of Dr. Krueger.-Dr. Richard O. E. Krueger having died since the last meeting, the Secretary was directed to write a letter of condolence to the widow.

New Nember.-Surgeon James Porter, R.N., was proposed.

## SPECIAL CORRESPONDENCE.

## I'ARIS.

[PROM OUR OWN CORRESPONDENT.]
Professor Charcot's Clinique.-Faradisation of the Right Pneumogastric Derve and the Urinary Secretion.-Physiological Effects of Gases Resulling from Incomplete Combustion of Coal Gias.
Professor Canfcot lately delivered an interesting lectore at tho Salpétriere on hysteriz and syphilis, and the iofluence which previous affections or intoxication hall in determining tho localisation and form of hysterical symptoms. Infectious diseases, sach as typhoid fever, pneumonia; intoxication (alcoholism, saturnism or hydrargyrism), traumatism, and syphilis may determine hysteria which had proviously been latent ; bat hysteria induced by tranatism, saturnism, alcoholism, or other affections remains identical. The lecalisation of the aymptems may differ, and the form which certin accidents assume will show what part must be ascribed to the previous affection in the symptomatelogy of hyateria. M. Charcot ahowed a patient in whom hyaterical phenomena had been attriluted to syphilis. The patient was 23 pears old. Ho had syphilis at 18 , which was not properly treated. On retnraing bame one day screa years ago he fell down unconscious.

There was hemiplegis and hemianæsthesia of the right side; tho muscles of the corresponding arm and leg were contracted. The end of the tongue was forced up against the right molar teeth. A few days later nocturnal headaclie came on, followed by convalsions of epileptic character. Mercury and iodide wero administered. Two attacke of convulsions occurred. The paralysis and nocturnal headache persisted. Theso symptoms were regarded as syphilitic phenomena until M. Charcot pointed out the peculiar sigus of hysteria by which they wore characterised. Hemiplegia was accompanied by complete hemianasthesia, which is of extremely rare occurrence in organic lesions. The patient was partially unconscious of the muscular function of the regions affected. Finally, the spasmodic sympteme in the tongue, which closely resombled the glessolabial spasm of hysteria, and tho peculiar nature of the attacks of convulsions rendered the existence of hysteria unmistakable. M. Charcot considers thast the hemianesthesia observed in certain femalo syphilitic patients, especially during the second period of syphilis may be attributed to hysteria, determined by mental depression and distress in patients of nervous diathesis. The nocturnal headache was accompanied by marked hyperæsthesia of the scalp. This is a characteristic sign of hysteria. M. Charcot believes that the localisation of the neurotic phenomens tras influenced by the provious existence of syphilis, and that the hysterical headache was due to the remembrance of syphilitic headache, and resulted from a process of auto-suggestion. M. Charcot cited a curious case described by M. Fotain of a patient suffering from lead poisoning, in whom the extensor muscles of the right arm were paralysed. There was hemiauresthesia ; the paralysed muscles showed no traces of degeneration. M. Potain showed that this case was one of hysterical paralysis of the extensor muscles in a cass of lead poisoning. Hysteris had assumed the appearance of saturnism, but its special nature was in no way changed. In the same manner the hysteria manifested by M. Charcot's patient assumed the appearance of eyphilis. In describing a case of hysteroepilepsy in a syphilitic patient, M. Potain plainly showed that "the patient in question was a bysterical patient. The syphilis mere'y provoked the nervous disturbance and hystcro-epilepsy."
MM. Arthaud and Batte, communicated to the Sociéte de Biologie, at the meeting of December 17 th , a paper on the elfects of faradisation of the right pneumogastric nerve on uriasry secretion. The authors, in oriler to obtaia the above effects by purely physiological means, administered curare to animals nntil they became motionless : then, by means of induction currents, gradually increasing in inten. sity, they successively excited the entire pueumogastric, and then its peripheral end after being cut. The quantity of urine eliminated was messured by comparing the column of urine running, in a given time, threugh a long horizontal capillary tube fitted to the right ureter. The first cxperiment was on a sheep-dog, which had received an iojection of 0.03 centigramme of curare. In a normal condition, the urine runs threugh a length of tube equsl to 4 or $4 \frac{1}{2}$ centimetres in five minutes. Daring stimulation of the right pneumogastric by a very weak current, the above length was reduced to 2.3 centimètres in the same time; when the current was a little stronger the length was further reduced to 1.4 centimètre. The pneumogastric was then cut, and the peripheral end on stimulation with a fecble curreut gave a normal figure-4 centimetres. With a stronger currcnt, the length foll to 3 centimetres, and when the current was raised to its maximum the urinary secretion almost complotely ceased. When the current was stopped, the secretion was. restored to its normal condition. The experiment lasted two hours, and the animal was then killed. The kidneys, examined under the microscope, showed small red spots in the cortical substance. The urino passed during the experiment was cleuded, pale, slightly albuminous, and contsined blood corpuscles, and perhaps some epithelial cells. A second experiment on another dog gare similar results. Experiments on other dogs, without injection of curare, but with application of mechanical pressure or the use of chloroform, did not gire such definite results. The authors conclude that the right pneumegastric has a distinct action, through its peripheral branches, on urinary secration.

In the Comptes-Renclus of the Société do Biologie there is a commu. nication frem M. N. Gréhart on the physiological effects of the gases resulting from incomplete combustion of common coal-gas. M. Gréhant placed in a narrow chamber 12 cubic mètres in capacity a Bunsen burner, which he lighted in such a manner that the combustion of the gas took place underneath and produced acetylene. While the combustion was taking place he prepared the caretid artery of a dog, from which he cxtractod aome blooul in a nomal state, which contained 41.2 centimetres per cent. of carbonic acid and 19.5 centimetres por coat. of oxygen. A ligature was then appliod to the central cad of the artery, and a little water was injected iato the glase
tube fixed in the artery, so as to be sble later on to withdraw some more blood withont a clot being formed. The snimal was then left in the chamber. At the end of forty minutes the confined air had the disagreeable snd very pungent smell charscteristic of acetylene. The dog lay down on its side. At the end of an hour and trenty minutes the animal barked plaintirely and became unconscious; it was then killed, and a second sample of blood, being drawn from the csrotid, gave the following analytical result: 30.3 centimestres per cent. of carbonic acid and 6 centimetres per cent. of oxygen. Fur-
ther ther chemical experiments showed that this considerable diminntion of oxygen wss due to the presence of 20 centimettres per cent. of oxide of carbon in the biood. This experiment proves conclusively that the qnantity of oxide of carbon given out by a Bunsen barner burning from below during two hours, in a chsmber of 12 cubic métres capacity, is sufficient to almost completely oxycarbonise the blood and endanger the life of an animal exposed to its effects.

## VIENNA.

[From our own correspondent.]
Antipyrin.-Creolin.-Strophanthus.-Disinfection in Schools.
Gendral-Stabsarzt Dr. Neudöpfer of Vienna gives, in a recent number of the Internationale Klinische Rundschau, some details on the antiseptic effect of antipyrin and creelin. The chemical name of antipyrin was dimethyloxychinicin, being a methyl compound of the hypothetical basis chinicin, and oxychinicin, $\mathrm{C}_{21}, \mathrm{H}_{22}, \mathrm{~N}_{2} \mathrm{O}$, and for practical reasons one of its properties serred to give this alkaloid its nsme. This preperty, however, namely, that of lowering bigh temperature, was the least of ita qualities, and the name "antipyrin" did not represent the whole value of the drug. It had to be administered in doses of at least three grammes, one gramme each hour, in order to produce any temporary decrease of temperature. The daily dose for diminishing pyrexial temperature was from five to seren grammes, and in the case of children from ten to fifteen years of age the daily dose consisted in as many decigrammes. Its anodyne and antiseptic properties were of much greater importance, and Dr. Neudïrfer, therefore, proposes the names "a anodynin" and "anti. sepsin," as it iqually deserved both these names. These synonyms are also used in Dr. Neudürfer's paper. In all affections attended with pain, one, or st most troo, Prarsz syringefuls ot the 5 per cent. solntion of anodynin, subcutaneously injested, sufficed to remore the pain completely, or at least to diminish it to a great extent. The anthor has often observed that the hemicranis of women disappeared for a long time after a single subcutaneous ivjection of this solution. He has performed seversl injections simnltaneously, and repeated them daily without having noticed any disagreeable atter-effect. The drug was decidedly preferable to morphine, and was in many respects quite equal to cucaiue. Anodynin had local as well as general snasthetic properties withoat producing mental disorder and without giving rise to any toxic symptoms, such as nsusea, giddiuess, vomiting, constipstion, anorexis, etc. The anodyne dose for internsl use was from 30 to 50 centigranimes, to be administered from three to four times a day at intervals of from 20 to 30 minutes. The synonym "antisep in" was eqnally justifable, because the alkaloid in question prerented putrefaction, killed bscteria, reliered the psins caused by the wounds, and did not affect the surgoon's hands or instruments. Antisepsin could be used in a 5 per cent. solution, just in the same way as carbolic acid, and it was in this degree of concentration much more efficient than carbolic acid, gauze, lint, and ungreased wool, and other materials could be advantageonsly impregnsted with as 5 per cent. solution of antisepsin and a $\frac{1}{2}$ per cent. solution of glycerine, and emplosed for dressing purposes. The high price of antisepsin was still an obstacle to jits being generailly used. Owing to the imperial patentee, the wholesale price was at present seventy florins (about £5 12s. a kilogramme, or seven kreuzers a gramme-a little more than a penny). It could now, however, be used as a powder, which could be sprinkled over chancres, and in eases of scrofulous ophthal. mis, etc. Antisepsin was also nodoubtedly of great value in cases of throat and ear disease, owing to its anodyne and antiseptic properties.

Another antiseptic which Dr. Neudörfer has advantageously tried is creolin. This is a sort of tar which is obtained from the English pit coals by dry distillation, and from which the poisounus hydrocarbons have been eliminsted. The chemical constitution is not yet established, but owing to its characteristic qualities it can be very easily recognised by the prastitioner. It is derived from the sromatic class of hydrocarbone, sad is closely related to creasote, earbolic acid, resorcin, hydrochinon, etc. The very first results which Dr. Neudürfer had obtained with this d:ng жere very favourable, and he had for
this reason at last ebandoned all the other antiseptics and nsed only croolin. The first success he had obtained with it was in the case of a girl, aged 7 , who suffered from erysipclas bullosum migrans facici. The skin of the nose, the upper lip, snd over both zJgomatic arches was greatly stretched and much reddened ; some pustules mere also present. The lower eyelids were cederatons, the frequency of the pulse and the temperaturs were increased, and the patient also suf. fered from headache. Dr. Nendörfer said to the relatives that the erysipelas would spread over the forehead and the ears, and that it would disappear in from seren to ten days. Ho ordered a 2 per cent. solution of hydrocarbonate of sodium with syrupus simplex, and directed the eryeipelatous parts to bo brushed thrice a day with undiluted creolin. The erysipclas did not adrance; the pustules dried up; the infiltration of the skin disappeared, and the patient cessed to complain of any pains. The symptoms of fever also dissppeared, and the erysipelas was cared in two daye and a half. Dr. Nendörfer has, since thst time, tried creolin in two other cases of erysipelas with like success. In former times ho used always to treat severe cases of erysipelas snccessfally with subcataneous injections of carbolic acid, and he had therefore no reason to resort to the method of Krascke. Since he had tried creolin, however, he no longer nsed subentaneous injections of carbolic acid, which had recently been again recommended by Fehleisen. The second case which had been antiseptically treated with creelin was that of a butcher, aged 27 , who had crt the last phalanx of his left middle-finger and the terminal front of his ring-finger. After treatment with a 2 per cent. solntion of creolin and the applicstion of creolin ganze, the wonnd healed, in eight days, without sny suppnration or swelling. In the third case, in which a tumour in the region of the lower jaw was removed from a woman agged 30, creolin was used during operation and afterwards as a aressing, two silk satures closed the wound, and no drainage.tabe was put in. On the third day the sutures were remored; the wonnd was already closed, and the dressing could also be remored. The anthor has since used creolin in zeveral minor operations both in the Polyklinik and in private practice, and has almays observed that it relieved pain, checked the hæmorrhage, and limited sup. puration. At first he used a 2 per cent. solution, bnt he has now found that creolin is efficient in a $\frac{1}{3}$ per cent. solntion. Dr. Neudörfer prepares a fresh solution each time by adding two drops of creolin to 200 grammes of mater. He uses only ungreased ganze, which, being folled from ten to twelve times, is mrung ont of the milky solution and applied to the wound, which is aftermards covered with several layers of dry gauze. The dressing masy be left nntil healing has taken place. This dressing is very convenient, both for the physician and tho patient, and it is also very cheap. The surgeon's wards, the patient's skin, snd the instruments can be disinfected with a 2 per cent. solution of creolin. Dr. Neudörfer concludes his paper by stating that he is so satisfied with creolin that he does not desire any nther antiseptic. For conntry practice as well as for use in war creolin is, in his opinion, the most trust worthy and convenient, as well as the cheapest and most harmless sntiseptic.
According to observations in Professor Bamberger's clinic, strophanthus mas used with success in (1) every kind of disease of the cardiac muscle, in thich its effect exceeded that of all other remedies; (2) ralvalar failures, in which the cardiac muscle conld not do tho necessary work, either owing to commenciag degenerstion or to slight hypertrophy ; (3) those cascs of renal diseases in which the action of the heart was impaired or normal, but where there was in ans case an increase of the cardiac activity, and thus indirectly increased diaresis. Success was not to be expected in: (1) too adranced degeneration of the cardiac muscles ; (2) valvular failures with great hypertrophy, where the greatest possible quantity of work was already done and an increase of the cardiac energy was no longer possible; and (3) in renal diseases with cardiac hypertrophy. Though the indications for the use of strophanthus mere in general exactly the same as those of digitalis, the new remedy had nerertheless the advantage that its effect was produced in from ten to fifteen minutes, and that it had no cumnlative effect, and could thus be given for $s$ long period of time. The tincture rerecommended by Fraser ( $1: 20$ ), or the strophanthin itself was nsed. After the administration of the first dose nauses snd increased action of the borvels were observed in susceptible persons. Strophanthin could be given by the month withont any disagreeable after-effects. The following were the formulx nsed: R Tinct. strophanthi $1.5-3.0$ (grammes); aq. distill. 180.0; syr. simpl. or syr. cort. aurant. $20.0-$ 30.0. M. Sig. The whole to be tsken during the day. R Strophanthini puri $0.002-0.004$ (from tmo to four milligrammes); aq. distill.
180.0 ; syr. sinpl. 30.0. M. Sig. The wholo to be taken doring the day.

The Austrian Minister of l'ullic Iustruction has forwarded to all school antherities instructions as to the carrying out of disinfoction, based on the reconmendations of tho "Oberster-Sanitatsrath" (Superior Suuitary Cunncil). Those in charge of schools are invited to use these neasures for tho purpose of preventing the spread of contagious diseases in schouls.

## Sherfield.

[FROM OUR OW: corregronnest.]
The Small-pox Eipidemic: its Ineidence on the Traccinated and Urivaccinated respectively. - Leal poisoning by the Toun Irater.
Tur opponeuts of vaccination will not find much comfort in pernsing the alditional report which, at the request of tho Local Goverament Board, the medical officer of health has just made as to the epidemic of small-pox in Sheffielu. Commencing in March, the epidemic did uot assume alarming proportions until July. Altogether 2,73S cases were heard of up to the end of 1887. Revacciastion has been extensively carried out in tho town, and out of the 20.000-a small esti-mate-that Dr. White presumes have thus protected themselves, only a very few cases of the most trivial character bave been reported. Niaety five per cent. of the children of Sheffield who live are vacciuated and 5 per ceat. uavaccinated, or for every 19 raccinated children there is 1 unveccioated. Now, 367 children under the age of 10 are reported as having small-pox; 14 are excluded from calculation for want of particulars as to vacciaation; of the remaining 353 children, 207 were vaccinated and 146 unvaccianted; the vacciasted formed less than two-thirds of the entire number. If raccination wero valueless, they should bave formed nineteen-trentieths of those attacked. $A_{s}$ to death-rate: 2 died out of tho 207 raccinated, or about I per cont. ; whereas no less than 70 deatha aro recorded in the 146 unvaccinated, or 48 per cent. Out of the whole total of small-pox cases at all agea, as giren above, 2,198 ss raccinsted, 382 as uavaccinated, and 148 as not known, the deaths are mentioned as being 157 in the raccinated, 97 in the unvaccinated, and 23 iu the not known. The Sheffeld Daily Telegraph has brought forcibly home to its readers, in more thas one leading article, tho lessons to be derived from the small-por enidemic as to the value of raccination, and enforces, as the duty of tho hour, vaccination and revaccination. Taking it that 95 per cent. of the popalation are raccinated, and estimating the pepulation at 300,000 , there will be 255,000 raccinated, and 15,000 dot protected by vaccination. The lesson taught by the statistics in Dr. White's report is that the chances of a vaccinated person escaping small-pos are three times the chances of tho unvaccinated, and that if bo actually take the disease, his chance of survival is ten times greater than the chance of an uovacciated patient. The repart states that 332 unvaccinated persons were aflicted with smallpor, or one in 39 of the 15,000 unvaccinated population. Of these 382, as many as 157 diod, or two in every five. Of the 255,000 raccinater population, 2,198 had small prox, which is equivalont to one in 130. Only 97 of the vacciasted died, or oac in 22 . I! all the popalation had been unraccinated, and the rate of infection had been the same for the whole populstion as it has been for the 5 per cent. koown to be unvaccinatod, thero would have been nearly 5,000 , instead of being 3,000 patients, and about 3,000 , instead of not quite 300 , deaths. Or, if tho death-rate that prevailed among tho unvaccinated had doaesoamong the vaccinated, the number of deaths, instead of being nearly 300 , would liave been 1,000 . The report shows that the revacciasted enjoy almost complete immunity. Every effort is buing made to complete quickly the new small-por hospital at Ledge Moor. At night the micu nork by the sild of the electric light. I'ha hospital is for 100 beds, which will give whea completed, together with tho present accommodation, 235 beds for small-pox cases, in addition to which are those at the two workhouges.

It is reported that at Dronfield Dr. Rook has had 200 cases of lead poisoning noder his care traceablo to the water bupply. There are Boveral hundreds of empty bonses, aud the Local Board lias been urged to cut off the water supply to these empty honses, and thus diminish the quastity of loaden piping in which the water may settle. The Local Board alvise the pooplo to filter the water.
Dr. William Dyson has been elected president of the Shefield Literary and Philosonhical Society.

At a meeting of tho North. Western Asgociation of Medical Officers of Health, Dr. Tatham in the chair, Dr. H. Falconor, Oldham (resident
medical ollicer of Monsall Fevor Ilospital), moved the following resolution:

以 Woyフa3
That this Association desires to draw the attention of the pulble to the prevs. loace of small-gox in Shenteld the the present time, and to the faot that during the pust month seversl cases of kioall-phx have ocelirred ln Slanehoster, Balford, adad the surronnding districts, of whieli the aource of lufection has been oliructly traced to shetheld. That this Association, thercforc, alvises all those who from lusiaess or ofher necessity must visit Shettleld to be revaccinated, and thus nrocect both theuselves and the localities to which they may return from rlak of infectioa. That this Assoclation desires further to impress upon boards of guardians and That whs Association desires further to impress upon boards of puardiass and
upe all tramplodging-house and other lodgiag.house keepers the importance of exercising sficeial [recautions in the cases of all yersons who come from or have rocently passed through Sheffleli, sad npon the lodging-bouse licepers the responalbility that rosts upon them of reporting at ouce to the proper authotities any anspicious case that may coase nuder their notice. And this A gsociation bas good reasoa to hope that the danger which at present threatens of tho spread of smallpox from Shetheld will be warded off from any district or town protected by com. pulsory notification of dangerous infectlous disetse ia which the public wilt earnestly co-operate in acting upoa the primeiplos here rccommeaded.
He said that four casos of small-pox had recently occurred in Manchester and Salford in widoly-separated districts, but in each case the infection had been directly traced to a visit made to Sheffield. The cases were promptly isolated, and no further damage had been done. but if many sach cases were to arise the time might come when some case would escape detection early enough, and would become a focus of infection from which an epidemic might spring that would rapidly envelop Mancheater and Salford and the densely populated districts surroundiug thoes boroughs. He had carefully avoided recommending universal revaccination, bccause unless it was made compulsory it could not be carried out. The resolution was seconded by Dr. Vaoher, and adopted.

## CORRESPONDENCE.

## DEGREES FOR LONDON STUDENTS.

Sir, - In a leading article in the Journsh of January I 4 th, referring to proceedings at the University of London, it is said: "Inasmuch as the Universities of Durham and Aberdeen, as was pointed out, confer their degrees, the one after a very moderste amount of evidence of preliminary education, and the other on the production of the ordiDary certificate of registration as a medical student" -

Allow me to remark: 1. I should not have thought of classifying Durham and Aberdeen together. In history, in nature, in aim, and and in what the public and the profession owe to them, they differ diametrically. 2. The regulations for preliminary examination in general education for Aberdeen University are the ssme as those for Edinburgh and Glasgow Universitics. Anyone who will take the trouble to look at the Calendars will see in what their preliningry examination differs from "the ordinary certificate of registration." 3. In the present excited condition of the great metropolitan medical mind on the subject of degrees, wo must expect an exaccrbation of the chronic de haut en bas to the rest of the medical world. On this side the Treed we have the fortification that the long medical war out of which we have come successfully has spread the reputation of the combined excellence and cheapness of our education. Whatever may be the outcoms of the present "plan of campaign" of onr London frieads, or of its successors when it has failed, London can never in medical education compete successfully with Scotland in the abovementioned combination.-I am, etc.,

John Struthers.
Aberdeen, January 16th, 1888.

## DEGREES FOR MEDICAL STUDENTS.-TIIE CLAIMS OF SCOTCH LICENTIATES.

SIR, - I am surprised that the determined effort of the Royal College of Physicians of London and the Royal College of Surgeons of Logland to obtain from the Qucen in Council the power to coafer the degree of M.D. on their licentistes, that is, these of the new Conjoint Board, has not been initated by tho corporations in Scotland. The Scottish corporations havo certainly as equal right to claim a privilege as tho English corporations. It may bo arguod that in Scolland we have four universitics granting modical degrees, and that we do not requireany further facilities. It may be replied thst there are as many universities in England, at which students may obtain a medical degroe if they choose to accept the conditions. But they object to these conditions, tho expense, sec. Well, if there is anything unjust in the conditions enforced, why not altor these conditions? This evidently will not be dono. But insteal a great scheme is drafted ont whoreby great injustice will be dono alike to Scottish universities and corporations, namely, the facilitsting by this scheme an M.D. degree for a low pass examination. This is denied to the universities-to confer an M.D. at the pass oxamination. But it is chiefly the

Scottish corporations that will suffer. Students will not care for studying for a degree in Edinbargh to obtain a licence when they can get for a similar examination and same fees an M.D. in London (this of course is unjust also to the universities). The Edinburgh colleges will lose a large proportion of students, and also the licerce of these colleges will be at a disconnt. The only way left to them is to open their examination to third-rate students and grant their licence for the fees proffered, thus establishing an unheallthy competition for the sale of degrees. The universities also will suffer ; for a pass examination they can only confer an M.B. ; and besidcs, their examinations are much higher than the Conjoint Board on Thames Embankment examination. They will hare, to enable them to compete, to lower their standard of examination or lose the candidates. It is utterly too absurd for the Eaglish colleges to make such unreasonable and uajust demands. Lat them raise their standard of examination and confer an M.D. and procced the same as the university, bat incorporate the Apothecaries' Society, and do away with lower examinations and try as far as pessible to make a one-portal system. Let the Scottish and Irish corperations do the same. What is good for London is good for Edinburgh and Dublin. Let all the licentiates of the Edinburgh colleges urge the councils of these to be rp and doing in looking after their interests. This is a beginning on this subject; I hope it will be reiterated again and again until we are placed on equal footing and receive honourable treatment and justice. -1 am , etc
W. Mcfadien.

## Lochinver, Sutherlandshire, January 13th, 1888.

## HOW SHOOTING ACCIDENTS OCCUR.

Sif, -I am rery glad to seo that you hare opened your columns to a discussion on "How Shoeting Accidents Occur," and that so experienced a eportsman as Sir William Dalhy has followed up yonr own remarks on the principle that "prevention is better than cure." No one can doubt that this subject is particularly adapted to the pages of a medical iournal, and the frequency of these accidents, no less than their preventable nature, nakes the inquiry into their causation one of real importance. My friend, Sir William, writes with the authority of long experience, and I agree with much of what he says. Bat I cannot help thinking that the dangers included under his first two headings would be lessened, and perhaps removed, by the universal adoption of hammerless guns. This ingenioas mechanism makes the half cocking process so simple as to prevent that confusion hetween the triggers and the hammers which is so great a stumbling-block to beginners, and the slipping a way of the hammer from the poiot of the thumbin cold weather, the pulling back by a twig or branch when going through a hedge, and, last but not least, the peril in which the sportsman is sometimes placed by a careless or inexperienced loader. For it is obrious that as the hammerless gun always closes at half-cock after the insertion of the cartridges, no accident can possibly occur when all tampering with the safety sliding cover is absolutely forbidden. Grouse driving, I agree with Sir William to be the cause of much mischief, and the foot must be pat firmly down on the practice of following birds. But to many this habit is quite irresistible, and to avoid mischief the recommendation of the Duke of Beaufort (Badmin. ton Library Shooting Vol.) should be adopted, that "there shonld be some sort of screeu between all batteries." This would enable the guns to shoot freely all round, and would obviate the risk which I hardly think is yet enough recognised, of shot, and more especially chilled shot, glancing back or to one side from stones or roots, or even from the ground hardened by frost. Nor am I quite sure that a high wind may not defloct some portion of a charge from its right direction and land some of the pellets in or near the orcupant of the next battery. The only accident which I bave $\varepsilon$ een this year was caused by one of the most experienced members of the party, who described to me the horror with which he found that he had freely peppered his neigbbour after firing, as he thought, in a perfectly safe direction and well away from the adjoining battery.
But what we have to coma to is this: Putting aside all unavoidable causes, are shooting acridents due to want of care, or to ignorance? You adopt the first; Sir William argaes in favour of the second. I agree with you. No one can have seen much of cover shooting without regretting the culpable rashness with which some socealled sportsmen handle their guns, and the recklessness which is the result of jealousy and wholesale rivalry as to the individnal contributions to the bag. Nor can it be denied that the arrangements of the ordinary battue are of a very dangerous character. Outside a wood we place a certain unmber of guns, and inside an advancing line of beaters, armed and unarmed, waik formard and drive everything to the outside. Then the fire grows fast and furious, for the pheasants rocket up into space, and hares and rabbits swarm in perplexing numbers, and tempt
the oldest hands into rashness. Shot now begins to swish almost as though the opposing parties were serionsly onder fire, and hairbreadth escanes are made ta be afterwards recounted at luncheon or in the smoking-room. Caution snd moderation are at this time all essential, and whoever habitually disregards the first principles of sport and pnlls trigger at a low-fying bird or any crceping thing after he hears the cry of "guns ahead!" or sees the advancing forms brushing through the rough ground, should be carefully left ont when invitatiors to the next "shoot" are being made up. Whether this is or is not a true picture I will leave to the recollections of your readers, merely reminding them of the old story of the beater who declined to take a message to a well known noblemsa stationed in the middle of a wood because, is he said, "Lord-_ always fires when he sees anything move." This is evidently the motto of some modern sportsmen, and instead of labelling them dangerons, and keeping as well as possible out of their rasy, I would advise a tonic course of "boycotting " until they recognised the responsibilitics as well as the pleasares of sport, and the discredit into which it may fall by their means ; and it will do us all good to take stock of our own individual experience, and see whether the most careful among ns may not have something to learn or to nulearn.-I am, etc.,
horert Farquilarson.
Finzean, Aboyne, N.B., Jannary 11th.

## intracapsular injection in the extraction of cataract.

Sir, - A few observations on that part of the ophthalmic review (Journal of December 31st) which relates to the above subject are desirable.
Referring to the paper which I read at the annual meeting, the writer says that the opinion of the meeting was lecidedly adverse to the proceeding, and that the Sectional President, Mr. Swanzy, expressed an opinion that my paper had given the "deathblow" to the method. In the Jourpal of August 20th last a correspondent speaks in much the same strain. These two anonymons contributions may be from one and the same person, who may be one of the hostile critics at the meeting-critics, who either had no experience whatever of the method, or the most meagre one.
The statements in the Jourvar of August 20th last led to my writing a letter (which appears in the Jourval of September 3rd), in which I compared results by my method and results by the other methods. Of that letter the reviewer has taken no notice, neither has he told us what has been his own experience of intra-ocular injection ; but he tells us the method "has not met with much favoar, most surgeons who have tried it having reverted to the methods of remoring the cortex which have been in use for many years."
I suppose this assertion is based upon the discussion at the meeting, a discussion of which the adverse critics were, I think, pretty tired. If it be not, I shall be glad to see a short statement giving the names of the surgeons referred to, and the grounds upon which they hare retraced their steps. I do not know whether the reviewer has thought it his duty to confine himself to work done in these islands. But, even $s \mathfrak{n}$, he omits to notice that it is much used in Liverpool, particularly by Mr. Lee. I know it is practised by other surgeons who have said and written nothing about it.
Beyond our limits there are some men who have a world-wide reputation, who do a large operative work, and who not only approve of but pratise intra-ocular injection. The names of MAI, de Wecker and Panas are above cavil. The report of the meetings of La Société d'Ophthalmologie of France and the jonrnals published in France may be consulted with much advantage. From them we learn that intra-ocular injection has been most extensively. practised in that country, and we do not read of any condemnation of the method there. Indeed, the invention of instruments to carry out the method more perfectly occupy the attention of some of our Continental confreres.
Pending the publication of my papor and the discussion thereon, I shall merely add that intra-ocular injection has not only given results in very unripe cataract such as have never been otherwise obtained, but also brings within the range of successful operation cases that without it have been regarded as ontside the pale of operation. Ify paper comprises many cases of very uuripe cataract, of which tho details are given, which are without parallel in ophthalnological literature. 1 am , etc.,

## Pelfast, January 10th, 1585.

*     * The remarks of our reviewer refer red chiefly to British operators. Intra-ocular injection appears to be practised abroad more as a means of introdusing antiseptic agents than for its mechanical effect, and the details have been modified accordingly. Those remarks were not solely based on the opinions expressed at the discussion, but, without consent,
it would be unfair to name individnal sargeons, and impossible to give their reasons. In the only paper hy Atr. Lee with which we aro acquainted (Jounsal, 1887, vol. i, p. 103), the experience given is as meagre as that of the "hostile critics." Xo doubt before long we shall hear Mr. Lee's further experience, as well as that of the other surgeons referred to by our correspendent.
ETIIE ERGOSTAT AND LATERAL CURTATURE f. Sir, -My collcague, Mr. Clay, has given so much attention and original thought to the subject of scoliosis, and his riews as to its etiology and the broad principles of treatment coincide so closely with those which experience continncs to prove to ma are correct, that I regret I cendet endorse his remarks in the Joursal of January 14th respecting the advantages of the ergostat as an instrument of treatment in such cases. The conditions of the spinal column are so diverse and complex in such cases, and the bony, muscular, and ligamentous structures generally, so much involved, that it is almost useless to erpect any great measure of success from attempts to treat them in a stercotyped manner, as is unfortunately the caso now that surgeous are at last beginning to discard the old system of relegating their cases to the tender mercies of the instrament maker, with "here a ratchet, there a ratchet, everywhere a ratchet," and a fee for each turn of the cog.

While cordially appreciating the spirit which has led to a more rational manner of treatiug deformities, which, in the great majority of cases, are the result origiually of bad positions and weakened mnscles, by niming at improring those faulty positions, and treagthening those weakened moscles, I hold that this treatment is ar better carried ont by sach exercises as ore adapted to each individual cose, and without such complicated machines as the one slluded to.
$\leftrightarrow$ Kinesi-therapeutics, to the perfecting of which Ling devoted his lifetime, and which, while they hare long been understood and practised on the Continent, owe their enunciation in this county to the untiring efforts of Dr. Mathias Roth and his son, Mr. Bernard Roth, comprise several handred exercises from which preseriptions may be chosen or modified by the surgeon for each indiridual case as it arises, commencing nsnally with simple exercises in a lying position, and as the weakened muscles and the patient'a general constitntion improve, gradually increasing the dosage and substituting other exercises. I cannot here go fully into a description of the treatment, but wonld refer those interested to the exhaustive works of Dr. Roth on the subject.

If I may be excused the digression, I should like to state that out of the hundreds of cases I have noted in hospital and private practice, 1 lase traced the majority to bad position of the patients dnring their scholastic life, and I consider it is our duty to go beyond our attempts at corative treatment, and considering the irrevocable injory that is involred, to impress forciblr upon school onthorities the necessity, as a preventive mensure, of red ucing the length of time that children are kept atanling at class, improving their seats and desks, correcting fanley positions, and, above all, of making physical exercise a part of the daily curriculum. I am pleased to say that this last desideratum is being admirably carried cor in our Birmiagham Board Schools, but the funds have to be provided by a givecial subscription list, wheress, consideriog the great importance of its general adoption, it is our dnty to impress non the authorities most strongly the necessity of providing for such syste natic physical training out of the grant.

In conclusion, although for other reasons besides those I have men. tioned, I do not consider Dr. Gartner's invention suitable to cases of Ecoliosis, I have no donbt of its utility in obesity, gout, and many
other ailments. I wonld, howtver, sagecst that it might be made of more practical velue, if, by a simple addition to the machinery, the obese patient conld be enabled to grind his own coffee or churn bis own butter. - I am, etc.

Edward L. Frefr, Hon. Surgeon,
Birmingham Ortbopredic and Spinal Hospital.
7, Newhall Street, Birmingham.

## ELECTROLYSIS 1N THE TREATMENT OF UTERINE FIBROLDS.

Sin, -The comments on my case of electrolysis in yonr last issne by Dr. W. S. Playfair are consistent with the doctrine I have been incnlcating the last thrce months at Soho Hospital ; and, without ruestioning the propriety of asing the high carrents recommended hy onr American fricnds, 1 am at present feeling my way with mach weaker currents (from 70 to 120), and should be loth to resort to 250 or 300 milliampires, anless, as 1 have repaatedly observed to our pnoils, everything general and local in the paticnt was favourable to enuclestion.-I nan, etc.
E. Hollasi.

1, Titchfield Terrace, North Gate, Rogent's Park, X.W.

## UNIVERSITY INTELLIGENCE.

## CAMBRIDGE.

Lectures on Caildioon. - At the request of the Teachers' Syndicate, Dr. lirancis Warner will delifer a conrse of lectures on the "Growth and Development of the Intellectual liaculty." The lectures will be six in number, and will be illustrated by casts, disgrams, and batanical specimens; they will be delivered in the Literary Schools at 2.15 p.M., on Wednesdays and Saturdays during Lent term, beginning on Jnnuary 25th.

Arfoniments. - Sir Frederick Abel las been appointed Rede Lecturer for the present year. H. D. Rolleston, B.A., M.B., Scholar of St. Johu's College, has been appointed Dermonstrator of Pathology. On Mondar, Jauuary 16th, at a Special Court of Governors of Addenbrooke's Hospital, Mr. Frederick W. Burton, ML.R.C.S., L.R.C.P., lato house-playsician and gold medallist of University College, was unanimously elected house-physician, in the place of Mr. R. H. Martin, who has left for Adelaide. The following have been admitted to the degrees of N.B. and B.C. :-F. I. B. Bisshopn, King's ; H. D.
Rolleston, St. John's ; R. H. Lartin, Caius ; E. Lloyd Jones, noncollegiate. The following bare been admitted to the degree of M.D. : James Harris Lilley, St. John's ; Harry Groom, Magdalene.

## UNIVERSITY OF LONDON.

A mebting of Conrocation was beld at the University building on Tuesday last, January 17th. Mr. F. J. Wood, LL.D., presided. The first resolution, to present the report of the $\Delta$ nnual Committee and to more its reception, was to have been proposed by Sir P. Magnus. Being unadroidably detained, he sent a letter, which was read by tha Chnirman, and which stated that a deputation from tha special committee of Convocation on reform of the University, of which be is chairman, had had a aecond interview with the Senate, and that probably in tha scheme which the Senate would eventually adopt several points cousidered important by Convocation wonld bo embodied. The Senate had deferred the publication of its scheme 80 as to ascertain if it might not be possible to introduce into it snch modifications as might satisfy the iegitimate requirements of the University and King's Colleges, and thereby render their petition to the Crown needless. The University should resist the petition of the Colleges, not for any selfish policy, but in the interests of higher education generally. As regards the action taken by the Royal Colleges of Physicians and Surgeons, the letter suggested that a Royal Commission should examine the whole question. The report was then received.
Mr. T, B. Napier, LL.D., neved the adoption of the following resolution, recommended in the report of the Annual Committee: "That Convocation expresses its approval of the Senate's action in objecting to the joint scheme of King's College and University College." He thought that no scheme which could be proposed by these Colleges could bave an equal authority with that which had been so carefulily discnssed on many occasions, both in the Senate and Convocation and of which the maiu object was the same as that of the promoters of the new scheme-namely, the establishment of a teaching university for London. London certainly did want facilities for higher education, and better organisation of the metropolitan teaching bodies. The viows of the Senste and of Convocation were gradually approximating, and agreement might be expected to ensua in a shorttime, when it would be found that tha scheme of the two bodies would give quite sufficient authority and power to the teachers, as much, in fact, as any university could properly concede.-Mr. Ross, M.A., B.Sc., seconded tho proposition.-Professor Carey Fuster, in oppusing it, said that Dr. Napier's speech was full of misrepresentations. The main objection brought forward hy him affected ouly the minor principles of the acheme whilst he (the speaker) contended that, in the true eense of the tarm, London had no university to put the highest education within the reach of all. The chief function of a university was not to eramine but to teach; the University of Berlin, for instance, would not lose its influence if it gave no further degrees at all. The teachers of the colleges desired to promote the intercsts of higher eaucation, hence their anxiety to establish the Albert University. - Mr. Ronerts, D.Sc., moved an addition to the original proposal that no neve university should bo established in London which did not make provision for the large class of persons who, though compelled to follow their occupations during tho day, could attend lectures, demonetrations, cte,, in the evening. The university should strike out a new line in this respect, and neet the grost wants of the Londen popula. tion by proriding eveniag instructions for all classes of students. If
the carricalum wore extended opar eight or ten years, too, such students might at the end of that time obtzin a degree. -Mr. B. H. Coorer, B.A., seconded the proposal, desiring that educational facilities should be extended in evary direction.-Dr. Curnow thought the eatablishmeat of ths proposed Albart University would do no harm to the University of Loadon; the former would be onlo for London students, aud would include the medical schools and have a medical faculty. Scotland, with a less population thau London, had four flourishing universities. The scheme of the Colleges of Phy sicians and Surgeons was not promulgated in the interests of higher education, but for professional motives ; and such a degree-conferring body the University of London did not oppose, though it did oppose the proposed Albert University, which will promote higher education. -Mr. Hutron theught the Colleges could organise themselves as much as they might desire to further higher education, without forming themselves into a second university.-DD. Qustr thought it was a question of common senss. He had heard no good objections offered to the present University ; then why desire the Albert University? The statement of the Senate was good, but it did not speak of the great benefits which that University had conferred.-Dr. Silvaxus Thompson thought the great drawback of the University was that it was still under the control of the Treasury in Downivg Street; it should be emancipated therefrom, and the sooner the batter. The proposed amendment was then withdrawn; and the motion of Dr. Napier was carried by a large majority.
Mr. H. A. Nesbitt, M. A., and Dr. A. Thompson proposed a resolution by which standing order No. 58 was amended, so that st future clections to the Senate eash member of Convocation can vote for three candidates to be placed upon the list to be submitted to the Crown. The resolution was carried.
Mr. J. G. Fitce, M.A., and Dr. Silvanus Thompson, D Sc., next moved a series of propositions, the object of which is to economise the expense of circulars and notices, ell of which relating to all the proceedings of Convocation are now sent to all the 2,400 mermbers of Convocation. These propositions, with a slight verbal addition to make clear one of the standing orders, were all carricd as proposed by the Anqual Committee.
The remsinder of the business on the agenda paper was then adjourned to the meeting which will be held on Msrch 6 th next.

## NAVAL AND MILITARYY MEDICAL SERVICES.

## CHANGES OF STATION.

THR following changes of station among the officers of the Medical Staff of the Army have been officially notified as having taken place during the past month :-

| Brigade-Surgeon F. H. Weleh .. |  |
| :---: | :---: |
| Sargeon-Major T |  |
| , | G. Andrew, M.B. |
|  | A. H. Ratigar |
| " | T. O'Reilly |
|  | T. S. Cagan |
| " | T. J. P. Hol |
| " | J. A. MeCrack |
| O. II. S. M | F.历. J. A, |
|  | H. C. Kirkpatrick, |
|  | O. E P. Lioyd |
| " | M. F. Maenamars |
| " | T. Arelier, M. D. |
|  | T. R. Lucas, M. B. |
|  | C. A. P. Mitchell, M.D. |
| " | H. J. Whatt . |
| ", | H.J. A. Hast |
| " | 11. A. Hume |
|  | IR. E. Kelly, M. D. |
|  | (i. H. Barefut |
|  | C. W. Allport, M. D. |
| " | (i. Seott, M. B. |
| - | J. Ritchate, , ${ }^{\text {d }}$. |
| " | S. Mredrnah, M.B. |
| " | I. Still, Mr. |
| " | J. W. \#iullen, M, D. |
|  | J. W. Bullen, M1. D. |


|  | From Netley |
| :---: | :---: |
|  | Hilsea |
|  | Bimbay |
|  | Madras |
| . | Bengal |
|  | London |
|  | York |
|  | Devonport |
|  | Queenstown |
|  | Neweastle.. |
|  | Tipperary |
|  | Canterbury |
|  | Jersey |
|  | Cork |
|  | Bermuda |
|  | EgJpt |
|  | Egypt |
|  | Bebsal .. |
|  | Honduras.. |
|  | Colchester |
|  | Cork |
|  | Cork |
|  | Pontefract |
|  | Aldershot .. |
| . | Edin burgh |
| . | Warwiek |
| . | Ayr |
|  | lork |
|  | Cork |
|  | Curk |

To
Bengal.
Aldershot.
London.
Portland.
Portand.
Neweastle
Bengal.
Bengal.
Bengal.
Bengal.
Bengal.
Madras.
Gueenstown.
Netley.
Sierra Leone
Tipperary.
Portsmonth
Dersinonth.
Eedinhurgi.
Oxfurd.
Oxfurd.

- Dublin.

Gibraltar.
Queenstown.
Mitchelstown.
York.
Cork.
Cork.
Wrexham
Edinburgh.
Lontefraet.
Pontefract.
Newcastle.
Queenstown

## TAE NATY

Tue good service pension of $£ 100$ n year, raeant by the death, on December 2nd last, of Sir William IL. E. Siusit, K.C.B., Inspeetor-General of Hospitals and Fleets, has beeu swarded to Inspector.General R. 1). Masos, C.B., from that date. The latter entered the service in $153 \%$; beame Flet-Surgeon, February $22 n d$, 1844: Deputy Inspector-Genera!, September 2lat. 1801: snd Inspector-General, November 3 rd, 15 it ; he retired rebrusry $4 t h, 15 \%$. He is a Companion of th

Order of the Bsth, a Enight of the Legion of Honour, and an Honorary Surgeon to the Qneen.
The following appointments have been made at the Afmiralty: Tromas Fisch, M.B., to be Surgeun and Agent at Torquay and Bahhieomba; H. W. Acarsons, to be Surgeon and Agent at Jorris Castle and Cahnre; Filham Shaw, to be Surgeon and Agent at Portruck.

THE MEDICAL STAFF.
Surgeds R. R. K. Elimes has resigned his commission, which was dated Fehrusry l5th, 1881.

Deputy Snrgeon-General A. F. Branszaty is posted to the administrative nedical eharge of the Rawal Pindee Division, in the Bengal command, vice Deputy Surgeon-General J. Ferguson, whose tour nt service has expired.

## INDIAN MEDICAL SERVICE.

Surgeos.Major A. S. Reid, M.B., Bengal Establishment, is appointed to the permanent medieal charge of the 2nd Battslion 4th Goorkhas, vice J. C. Morice, appointed Depnty Sargeon-General.
Surgeon R. Pemberton, Madras Establiahment, Acting Civil Surgeon of Chittont, is appointed Civil Surgeon of Guntoor, in suecession to Surgeon A. P. Adams, deceased.
Gurgeon J. W. Eravs, Madras Establiahment, is appoinfed Civil Sargeon of Cochin.
Surgeon H. K. Foller, M.B., Madras Establishroent, is directed to act as Assistant-Physician at the General Hospital, during the employment of Surgenn-Assistant-Physician at the General Hos
Major H. Allison, M. D.. on other duty.
Surgeon W. H. Karney is admitted to the Mauras Establishment from November $2 n d$, the date of his arrival at Bombay.
Surgeon J. Scotr, M.B., Madras Establishment, Medical Offieer 4th Infentry Hyderabad Contingent, has leave of absezce from November 15 th for one gear on medical certificate.
Deputy Inspeetor-General Herbert Jahn Giraod, M.D., late of the Bombay Establishment, died at Shanklin, in the Isle of Wight, on January 12th, aged ro. Surgeon-General R. H. Perkiss, of the Bengat Establishment, died in London or Janusry lith, at the age of 64. He entered the Indian Medical Service ss Assistant-Surgeon November 20th, 1850, and rose to Depaty Surgeon-General December 10th, 1877 ; he retired with a step of honorary rank Maj 44 , 1884. He was engaged in the campaign against the Cossyah and Jyntiah Hill tribes in 1S62-63.

## THE VOLUNTEERS.

Acting.Sorgeon E. Treves, of the 1st Volunteer Brigade Cinque Ports Division Roysl Artillery (late the 1st Sussex Artillery), has resigned his commission, which dated from Deeember 7th, 1851.
Aeting-Surgeon D. Jacksos, of the Ist Volanteer Brigade Northomberlatid Fusiliers (late the lst Northumberland), has also resigned his commission, whicli bore date November 2ith, 1572 ; he is permitted to retain his rank and uniform. Acting-surgeon J. P. Elliot, who joined the ssme corps on September Iith last, is promoted to be surgeon therein.

# MEDICO-LEGAL AND MEDICO-ETHICAL. 

MILLICAN v. ADMIRALTSULLIVAN AND OTHERS.<br>Court.of Appeal.

(Before the Master of the Rolls and Lords.Justices Fry and Lopes.)
Tuis was an appeal by the defendants, members of the Committee of Managemeut of the Qucen's Jubilee Hospital, from the judgment of Mr. Justice Manisty at the trial grantiug an injunction restraining the defendants from interferiug with the plaintiff in the performance of his duties as medical officer of the hospital by suspeading him.

Sir H. Jasms, on behalf of the defendants, cited rarious anthorities for the parpose of showing that a Court of Equity would not interfere by grantiog an iujunction in a case where, even thongh there might be a binding contract, relationship between the parties to such contract was of a personal nature. It could not be contended in the present case that the plaintiff, in his position as sargeon, had any rights of property in the institution. On the point of damages, it was not suggested that the plaintifi had sustained any pecanisry loss whaterer by being dismissed frou his position, and therefore the defeudonts were entitled to judgment on that part of the claim. The manner in which the breach of contract had been made did not, except in cases of breach of promise of marrisge, entitle the plaintif to damages.
The Plaistiff, in person, submitted that as a subscriber of a gninea a year to the iustitution, be kad, independent of his positiou as sargeon, an actual iuterest in the property of the hospital, from the use of which he had been debarred by the action of the defendants.
The Master of the Rolls, in delivering judgment, said that their lordships were not called upon to give any opinion as to the propriety or the fairness or good sense ot what had heen doue by either of the parties in this matter, and ther had nothing to do except to deal with their respective legal rights or legal wrong3. The lirst question was, what were the rights of the plaintulf. The plaintitf clained to hare the same rights in regard to this hospital as a member of a club hat with regard to his clab. Nembers of clabs had
rights of property in their clubs, and it was mpon that ground, and that gronnd alone, that the Conrts had interfered on their bohalf. No doubt the plaintiff, as a subscriber to the hospital, might have an interest in tho property of the institation, but the claim he sought to eaforen here was in reference to his rights, not as a subscriber to the institation, but as a surgeon, and it was impossible to contend thst as surgeon ho had any legal or equitable intorest in tho property of the iustitation. As surgeon he Lad, no doubt, a licence to nse certain rooms and furniture in the hospital, but that licence might be revocable at any moment, and there was no gromd for contending that he had sustained any pecuniary loss by the rerocation of that licence. Tho relation between the medical officer and the committee of tho hospital, whether it was a contractual relation or not, and whether binding or not, was a strictly personal relation, and the Courts of Equity had always distinctly refuscd to afforl relief in the form of an injonction where tho relations between the parties were strictly personal. The perpetual injunction which Mr, Justice Manisty had granted in the case could not be right, as the utmost that the plaintiff could have claimed wis that he should be permitted to fill the office at surgeon for a year, for which he had been appointed. Bat, in his opinion, no injonction ought to have been granted at all. There was another rule by which the Court of Equity did not give its awn peeuliar remedy when there was a perfect remedy at common law, as was the case here. As the plaintitf had not sustained any pecuniary loss, if he were entitled to damages they would bo merely nominal damages, and would not affect the result of this case. In the cireamstances, whilst it wonld be unfair to make the defendants pay the costs of the trial below, he thought that the plaintiff ought not to be called upon to pay their costs in the Court below. The defendants, hewever, having succeeded in their sppeal, were entitled to have the judgment of the Conrt below reversed, with costs of the appeal. - Lords Jastice Fry and Lopes concurred.
Jadgment reversed, with costs.

## VULVAR DISCHARGE LN CHILDREN AND CHATGES OF RAPE

G. S. 34. -Thn only thing thatcan be done is to determine, if possible, with certainty whelher the child is suffering from gonorrhes or not. Vaginal discharges nre very common in delicate ehildren (the age of the patient is not stated). If there was no discbarge before the date of the alleged intercourse, and if it arpeared within a few days of that date, and was purulent almost from the first, and was accompabled by itching and scalding daring micturition, the probsbilities would be in faronr of govorrhcea. If the discharge is gonorrhoea, there would to a strong presomption that it was contracted in the usual way. In all other reapects the case must be decided on other than mudical grounds. In lew the alightest amount of valvar pesetration is snfficient to constitute rape, and the absence of all signs after the lapse of three weeks would therefore not be any argament that a rape had not heen committed. The majority of these charges are talae, and, as a rule, the most important fonction the jury has to perform is to decide on the credibility of the child

## TENLRE OF CLUN APPOIXTMENTS.

Mamurn (Withnell) writes: A. and B. are in practice in the same neighbourbood. A. holda all the clubs, but several noembers of one club prefer B. At a ful mecting of thla clob the majority decided to have 13. as their medical officer. Will it te necessary that A. shonld have aix months' natice? He is pald every aix months, and there is no agreement.
$\because$ Tbough there is no written agreement, we presume that aomething must bave beensid at the time of A.'a appointment which would constitute a verbsl agreement, and wonld, among other matters, debne the term for which he was appointed. The feet of hia being paid every six months would be evidence that the appointment was for at least that period, and be probably conlal decline to accept leas than a six monthas notice.

## U゙XQUALIEIED ASSISTANTS

Mr. II. L. $1100 \mathrm{~m}_{\text {, }}$ L.R.C.S.1., L.K.Q.C.P.J., etc., (Eccles) writes: Mr. Charles 11. Iarral, In one part of his lefter in tho Jochval of January ith, says, con cerning nanuslined assistants visiting, ctc., in their employer a stead, and the employers belag subsequently uon-suited at the court for such attendance, etc. esoraly this is unfair to the emplorer and also to the uoqualifind ansistant who Is generally coninellel to work for his living natil he can obtain his diplomn, Is generally connpellecl to work for his living nath he can obanm has diplama, fesslon."
Taking the employer first, If fail to aco anything unfair in the decision allnded to. Houbtless Str. Harral is no of those practitioners who does yot think it onprofesmlanal and anfair towards the pmblic to employ the aervices of an unquallied agatatant, which can be hal for a small atipend. IInts can the jodge'a deciaion be onfulr when it is atrictly in accorl with the law of the land relating to the medical profeasion, which every fractitioner acta at denance when he emplose men not recombed by law (hecalse they have not t denance when passed say quslifyingexamination), and aends them forth to viait and preseribe for sach ailments as they meet with, and wheh they may or rasy not understand anything about i The real unfainera acema to mo to consist in the fact that legally qualided medical mea are allowed to take such a mean advantage of their less prosperons medical brethren who have to sulfer from the encroach-
ments of the "make belfeve" doctor. I have siffered not $\pi$ little throigh this cmuse uyself, whilh will account for my taking the subject up.
Now, concerning the unqualined asslatant. We all know that nost of that clasg (or ghall I say many?) aro me "good for nothings," who not voly have passed no cxamination, lut never intend to. There are, i am sure, honourable oxecntionato this rule, and for their sakes 1 shan say little stout tha class. Why could not such men do bs thave known many do in my tine in publin, namely retemployment in some city where there is a medleal selmol, at some
 large chenist a classes at night, and liasect ns 1 used to have to do, and others with me, carly in the winter morniugs for an hour hefore lreakfast, as well as for an hour or two at night after class? I know yonng men who have done this, and who today hold responsible posts in Her Majesty's army, and other branches of nedical aervice. They gained in very practical knowledge of drugg aml their uaes both behind the connter and at hospital where they attended as they had opportunity.
This much to show that hard-working young men ean gel on by their own honest endeavonrs without starting out and becoming unqualined assistanta, Which, in so many cases, neans never getting any further. I onfy hope tand the county court judges will get their faces against such things as are constantiy being practised; I have secn two inatances tate the veryantis, in the other not perineams ripped up, in one instance back the far back, through the use of the mid wifery forceps during Inhour, whilst the patient was nnder chloruform, and all this done by an unqualitical assistant upon his own unaided judgment. That suchlicence may be no longer sllowed to naqnaliffed mea by the General Medical Council is not ouly my earnest wish, but that of many anather.
Now, Sir, 1 have shown that a young man wishing to be a doctor can work and ret quatified withont breaking the law; and there is no reason in lifo why doctors should bave to employ anqualifted men when pleaty of duly qualifed ores are willing to come forward for a reasonable salary, except the reason eforementioned, the love of mooey, which in this case is the root of a great tree of evil.

## SCALE OF FEES FOR MISCARRIAGE

W. was called to attend the wife of $\mathbf{H}$. Syinptoms of a fano monehs' pregnancy aborting were found, and the case was treated until after the miscarriage to entire recovery. In all the amount of attendance required was a special visit, nine visits, and fonr medicines. When an acconnt of 110 s fid. was sent to H . he tendered a guinea in full payment, saying that that was the amount he had hitherto paid a doctor for attending his wifo in her conflnements. Should W. have charged as for ordinary medical attendance, or trested the case as a confinerent, and charged accordingly?
** If our correspondent will refer to tbe medico-chirurgical tarifts issued by the late Shropshire Ethical Branch he will, we thiak, find under the head of "Miscarriages" a solntion of his difficulty in the case of his patient II., aud which is as follows :-

Miscarriayes. - In simple premature labour the same charge should be made us in ordinary cases of milwifery. In abortions the necessary visits should be clarged as such, plus an additional fee for detention."

## ADVERTISING 15 SEWSPAPERS

Memner, - lt can scarcely be necessary after our repeated comments on similar conduct to assure " A Member" that Dr. J. MacCornack's "eard advertisement in the Belfost paper is contrary to professional rulc and custom. We Fould adviae our correspondent to address a brief note to the university or college in question, setring forth the simple facts, and enclosing therewith cony of question, scturg orthich the objcctionable advertisement has appeared.

The Britisin Gynacological Society, -The following is the list of officers and Conncil elected at the general meeting of this Society held on Wedaesday, Jsnusry 11th:-Honorary Preaident: Robert Barnes, M.D., F.R.C.1. (Lond.). President: Arthur Wellesley Edis, M,D., F.R.C.P. (Lond.). Vice-Presidents: Fancourt Barnes, M.D. (Lond.) ; John Chaluers, M.D. (Lond.) ; J. T. Sinclair Coghill, M.D. Frentnor) ; J. Halliday Croom, M.D. (Edinburgh); William Gsrdaer, M.D. (Montresi); W. Chapman Grigg, M.D. (Lond.); William 1'. Lusk, M.D. (Now Tork); Arthur V. Macsn, M.D. (Dublin) ; Paal F. Jurde, MI.D. (New Iork) ; F. L. Nengebauer, M.D. (Warsary) ; Thomas Sarage, MI.D. (Birmingham) ; William Walter, M.D. (Isanchester). Treasurer: G. Granville Bantock, MI.D., F.R.C.S.Ed. (Lond.) Librarisn: Bedford Fenwick, M.D. (Lond.). Council: William Alexander, M.D. (Livernool); F. A. Newton Bateman, M.R.C.S. (Lond.); Thos, A. Cambridgc, MI.R.C.S. (Lond.); Thos. M1. Dolan, M.D. (Halifsx) ; R. W. Edgington, J.D. (Birmingham) ; C. Egerton Fitzgerald, M.D. (Folkestone) ; A. Phillips Hills, M.R.C.S. (Lond.) ; Francis Imlsch, M.D. (Liverpool) ; R. Milne Marray, M. B. (Edinburgh) ; Thos. Morton, MI.D. (I.ond.) ; F. Albert Pureoll, M.D. (Lond.); J. A. liawlinws, M.R.C.P. (Swsasea) ; W. London Reid, M.D. (Glasgow) ; C. II. F. Ronth, M.D. (Lond.) ; John Shaw, M.D. (Lond.) ; J. ITerbert Simpson, MI.D. (Rucby); W. Japp Sinclair, M.D. (Manchester) ; Bryce Smith, M. B. (Belfast); J. Greig Smith, ML.D. (Bristol) ; W. J. Smyly, M.D. (Dublin); W. Duanett Spanton, F.R.C.S.Ed. (Hanley); Lawson Tail, F.R.C.S. (Birming. ham). Honorary Secretaries: J. A. Mansell Moallin, M. B. (Lond.) J. Bland Sutton. F.I.C.S. (Lond.).

# PUBLIC HEALTH AND 

POOR-LAW MEDICAL SERVICES.

## ENGLISH URBAN MORTALITY IN THE FOURTH QUARTER

 OF 1887.Tere vital and mortal statistics of the twenty-eight towns dealt with by the Fegistrar-General in his weekly return are summarised in the accompanying table. During the three months ending December last, 73,235 births were registered in the twenty-eight large towns, equal to an annual rate of 31.8 per 1,000 of their aggregate population, estimated at about nine and a quarter millions of persons. In the corresponding periods of the two preceding years, 1885 and 1886, the meau birth-rate in these towns was 33.3 and 32.1 per 1,000 respectively. The birth-rate in London last quarter was equal to 31.2 per 1,000 , while in the twenty-seven provincial towns it averaged 32.3 , and ranged from 25.5 in Brighton, 26.2 in Bradford, and 29.2 in Bristol, to 37.2 in Preston, 38.0 in Portsmouth, 40.2 in Newcastle-upon-Tyne, and 40.5 in Cardiff.

The 48,533 deaths registered in the twenty-eight towns daring the fourth quarter of 1887 were equal to an annual rate 21.1 per 1,000 , against $21.7,20.0$, and 20.3 in the corresponding quarters of the three years 1884-5.6. In London, the rate of mortality did not exceed 20.0 per 1,000 , whereas in the twenty-seven provincial towns it averaged 22.0 per 1,000 . The lowest rates in these provincial towns were 16.3 in Brighton, 17.2 in Hnll, 18.3 in Norwich, 19.0 in Leicester, and 19.S in Bradford and in Sunderland ; the highest were 26.0 in Newcastle-upon-TYne, 26.6 in Bolton, 27.4 in Manchester, 28.6 in Blackburn, and 29.8 in Preston. During the three months under notice, 5,757 deaths were referred to the principal zymotic diseases in the twenty-eight towns, equal to an annual rate of 2.50 per 1,000 ; the zymotic death-rates in these towns in the fourth quarter of the five preceding years averaged 2.60 per 1,000 . The lowest zymotic rates in these towns last quarter were 1.09 in Brighton and in Plymouth, 1.24 in Hull, 1.36 in Sanderland, and 1.38 in Cardiff; while they ranged upwards in the other towns to 3.85 in Preston, 4.50 in Blackburn, 4.61 in Derby, 4.56 in Bolton, and 4.92 in Sheffield. The 5,757 deaths referred to the principal zymotic diseases inclnded 1,434 which resulted from scarlet fever, 1,256 from whooping-cough, 951 from measles, 714 from "fever" (including typhus, enteric, and simple and ill-defined
forms of continued fever), 622 from diarrhcea, 531 from diphtheris, and 249 from small-pox. The 1,434 deaths from scarlet fever registered in the twenty-e日ght towns during the quarter under notice were equal to an annual rate of 0.62 per 1,000 , showing a marked further increase upon the rates recorded in the two preceding quarters, which had been 0.26 and 0.39 respectively. The rate of mortality from scarlet fever in London last quarter was equal to 0.63 per 1,000 , and almost corresponded with the mean rate in the twenty-seven provincial towns. The scarlet fever death-rates exceeded 1.0 per 1,000 in Salford, Bristol, Oldham, Preston, Blackburn, and Birkenhead. The number of scarlet fever patients in the Metropolitan Asylums Hospitals, which had been 1,778 at the beginning of October, rose to 2,602 at the end of November, and afterwards steadily declined to 2,049 at the end of the year. The admissions into these hospitals, which had been 466,616 , and 1,943 in the first three quarters of 1887 , further rose to 2,908 during the three months ending December last. The death-rate from whooping-cough in the twenty-eight towns daring the quarter under notice was equal to 0.55 per 1,000 , and exceeded that recorded in the corresponding period of any recent year. This disease was proportionally more than twice as fatally prevalent in London as in the aggregate of the proFincial towns; for, while the death-rate from whooping-cough in London was as high as 0.79 per 1,000 , it averaged only 0.34 in the provincial towns, among which it was highest in Notting. ham, Salford, Oldham, Wolverhampton, and Leicester. The rate of mortality from measles, which had been 1.35 and 0.44 per 1,000 in the two preceding quarters, further declined to 0.41 during the lase three months of 1S8\%. The measles death-rate in London last quarter was only 0.31 per 1,000 , while it averaged 0.50 in the twenty-seven provincial tomns, among which this disease showed the highest proportional fatality in Bradford, Blackburn, Birmingham, Bolton, and Derby. The 714 deaths referred to different forms of "fever" in the twenty-eight towns last quarter were equal to an annual rate of 0.31 per 1,000 , showing a farther increase upon the rates recorded in the two previous quarters of the year, which had been 0.14 and 0.23 per 1,000 respectively. In London the fever death-rate last quarter was 0.25 per 1,000, while it averaged 0.36 in the trenty-seren provincial towns, and was highest in Derby, Sunderland, Blackbarn, Leeds, Bolton, and Preston. The rate of mortality from diarrhœa was equal to 0.27 per 1,000, and differed but slightly from that recorded in recent corresponding quarters. The $\overline{5} 31$ deaths from diphtheria in the twenty-

Public Health Statistics rclating to Twenty-eight Large English Towns, for the Fourth Quarter of 1887.

eight towns during the quarter under notice were equal to a rate of 0.23 per 1,000 , against 0.14 and 0.16 for tho two preceling quarters ; while the rato of mortality from this disosse in London last quarter was equal to 0.31 per 1,000 , it did not average more than 0.10 in the twenty-seven prorincial towns, among which, how. orer, diphtheria was somewhat fatslly prevalont in Brighton and Hadderstield. During the Hireo months ending Ducember last, 249 deaths resulted from small-pox in the twenty-eight towns; of theso, no fower than 230 occurred in Sheffield (against 3 and 45 in the two prerious quarters), 11 in Eristol, 3 in London, 2 in Hull, 1 in Firmingham, 1 in Preston, and 1 in Leeds. Only 7 cases of small-pox were under treatment in the Metropolitan Asylums llos. pitals at tha end of December, but 30 cases of this disease had been admitted during the Iuarier, against only 7 in tho preceding quarter.
The rate of infant mortality in the trenty-eight towns, messured by the proportion of deaths of children under one year of age to 1,000 registered births, was $]^{\text {ual }}$ to $15 \%$ during the quarter under notice, against 146 and 100 in the corrosponding pariods of the two precoding years, 15\$5.86. While the rate of inlant mertality did not exceed 145 per 1,000 in London, it averaged 162 in the twenty-seven prorincial towns, among which it ranged from 111 in Brighton, 127 in Norwich, and 127 in Birkenhead, to 189 in Halifax, $19 S^{\circ}$ in Oldham, $21 \%$ in Boltod, and 233 in Blackburn.
The cause of 1,084, or 2.2 per cent. of the deaths registered in the twenty-eight towns daring last quarter were not certified, either by registered medical practithoners or by coroners. The proportion of ancertified deaths in London dil not exceed 1.0 per cent., while it spersged 3.2 in the twenty-seven proviacial towns, and ranged from 0.4 sid 0.7 in Portsmouth and Forwich, to 45 in Oldham, 4.6 in Holl, 5.0 in Liverpool, and 9.1 in Halifax.

## THE METROPOLITAN ASYLUMS BOARD.

Tae retarns presented to a meeting of the Metropolitan Asylams Board on Saturday last showed the gratifying result of a decrase in the total zumber of patients remaining nudar treatment for scarlet fover of 528 . It was pointed out that, although the matropolis was at the present moment almost entirely freo from small-pox, the managers were taking energetic stens to meet any epidemic of small-pos that might arise. The buildings as well as the ships appropriated to smallpox patients were already in preparation; and a letter was read from the Local Government Board, authorising the managers at once to enter into contracts for the erection of a hospital for small-pox convalescent patients at Darenth withont the necessity of advertising for sealed tenders.

TIIE ABERDEEN DOUBLE QUALIFICATION.
V5. X. Y. asks: (1) If an M.D., C.M.C゙nir. Aberdeen is a recognised double qualiacation for pmor law appointment? (2) Whether an M.R C.S.Eng., L.R.C.P.Ed. bas the priority of claim as a double qualicication in contesting os poor law appoialment?

$$
\because \text { (1) Ycs. (2) Ň. }
$$

Hfaltil of Enclisil Towss. - In the twenty-cight large English towns, including Londou, which have an estimated population of 9,398,273 porsons, 5,875 births and 4,194 deaths wera remistered during the week cuding Jannary 14th. The annual rate of mortality per 1,000 persons living in thesa towns, Which had heen 24.8 and 23.8 in the two preceding weeks, further declinod during the weak under notice to 23 3. Tho rates in the several towns ranged from 14.2 in Sanderland, 15.3 in Leicestor, 17.7 in Pirkonhead, and 183 in Brighton and in Intll to $2 \% .6$ in Blackbura, 28.2 in llymouth, 287 in Wolrer. hampton, and 34.3 in Manchester. In tho trenty-cevon provincial towns the mean death-rato was 23.0 per 1,000 , and was 0.6 below the rate recorded in London, which was 23.6 per 1,000. The 4,194 deaths registered during tho weck uoder natice in the twenty eight towns incladed 208 which wore referred to whoopiog.cough, 68 to searlet fovor, 60 to measles, 47 ta "fover" (principally enteric), 33 to diphtheria, 33 to small-pox, nnd 27 to diarrboes; in all, 476 desth resulted from theso princigal zymotic diseases, againgt 503 and 493 in tho two nreceding weeks. These 476 death wero equal to an annual rate of 26 per 1,000 ; in Lonlon the zymotic death-rato was 3.1, while in the twenty-seven provincial towns it averserel only 23 per 1,000 , and ranged from 0.0 in IIalifax and 0.4 in Brichton and in Suaderland to 4.5 in Wolverhampton and 5.4 in Sheffiche. Meisles cansed the highest proportional fatality in Nottingham, Derby, and Birmingham; scarlet fover in 13ristal, Wolverhampton, Birkeuhearl, and Noraich; whooping.cough in Ireston, Derby, Manchester, Norwich, Leicester, Wolverhampton, and London; and "faver" in Preston. Of tho 33 deaths from dightheis rocorled in tho weck
nudor notice io tho twenty eight towns, 16 occurred in London, 4 in Liverpool, 2 in Nowcastle-mpon-Tyne, and 2 in Oldham. The 33 fatal cases of small-pox included 27 in Shefliold, 4 in Leeds, 1 in London, and 1 in Bristol. The number ol small-pox patients in the Jletropolitan Asylum Hospitals was 6 on Saturday, January 14th, of which 3 were sdmitted during tha week. These hospitals also contained 1,792 scarlet-fever patients on Saturday, Jaunay l4th. against ummbars steadily declining from 2,602 to 1,959 in the six preceding weeks; thare were 148 admissions during tho week. The desth-rata from diseases of the respiratory organs in London was equal to 7.0 [er 1,000, and slightly exceeded the avorage.

Health of Scotor Towns, - During tho week ending Saturday, Jannary 14 th, 845 births and 607 deathywero registered in the eight principal Scotch towns. The nanual rate of mortality in these topras, which had been 24.3 and 27.1 per 1,000 in the two precoding weeks. declined to 24.0 during the weck under notie?, and slightly exceeded the mean rato duriog the same period iu the twonty-eight large English towns. Among these Scotch towns the lowest were recorded in Grecnoek and Perth, and the highest in Dondee and Paislay. The 607 deaths in these towns daring the meek under netice iacluded 78 which were refarred to the priacipal zymotic disenses, equal to su annal sate of 3.1 per 1,000 , which exceeded by 0.5 the mean zymotic death-rate during the week under cotice in the large English towns. The highest zymotic rates were recorded in Edinburgh, Leith, and Paisley. The highest proportional fatality of measles occurred in Dundee, Edinbargh, and Leith; from diphtheria in Glasgon ; from whoopiog-congh iu Glasgow, Aherdeen, and Paisley ; and from "fever" in Paislay. The ntortality from diseases of the respiratory organs in these Scotch towns during the week under notice was equal to 6.6 per 1,000 , agginst 7.0 in London.

Healte of Irisif Towns. - In tha sixteen princips! town districts of Ircland the 592 deaths registered during the weak ending Saturday, Jsnuary lith, were equal to an snnaal rate of 35.4 per 1,000 . The lowest rates were recorded in Slige and Waterford, and the highest in Armagh, Newry, and Dundalk. Tha desth-rate from tha principal zymotic disessas in these towns averaged 6.7 per 1,000, and was highest in Cork and Nowry. Measles showed fatal prevalence in Limarick, Cork, and Nowry ; and whooping-cough in Belfast. The 242 deaths registored in Dublin during the week under notice were equal to 35.3 per 1,000 (against 36.2 and 33.6 in the twa preceding weeks), the rate for the same period being but 21.0 in London and 21.5 in Edinbargh. The deaths included 32 from tha principal zymotic diseases (equal to an annual rate of 4.7 per 1,000 ), of which 10 resulted from scarlet fever, 7 from whooping.cough, 8 from "fevar," 4 from measles, 4 from diarrbœes, and 2 from diphtheris.

## OBITUARY.

## PROFESSOR TITO VANZETTI, M.D.

Turs distinguishad Italian surgeon died at Padus on January 6th, aftar a long and painful illuess, at theage of 78. His family belonged to Palaa, and he was educsted in the celebrated university of that city. At the age of 26 ho settlod in Russin, where he soon acquired a great repatation. Ho was Professor of Surgery and Ophthalmelogy in the University of Kharker for fifteen years. On his roturn to ltaly he wsa nppointed Professor of Surgery in the University of Padua, a post which ho filled with the highest distinction till 1866, when political intrigues led to his dismissal. He was thereupon immediatoly named Professor of Surgery at Palermo, and adrantageans offers were also made to him to migrate to Paris. He preferred, however, to continua practising in his native town, and he was afterwards restored to the position from which he had been so unjustly remored.

C'anzetti had a European reputation as a practical surgeon. To him We owe tho suggestion of digital compression in the treatment of aneurysm, and as a means of cattiog off the blood supply from inflamed parts. Ile mas not only venerated as a teacher of the highost order, bat was the object of the warnest personal affection on the part of his numerous papils. Profeseor Vanzatti was a member of many learned badies not only in Europe but in America, but, strangely enough, no English society seoms to have thought him worthy of such a distinction, though his name is faniliar to erery stndent of surgery in this cauntry. By his will he left 100,000 lire ( $£ 4,000$ ), tegother with a most valuable scientific library to his Alma Mater. Ho directed that his body should be cremated.

## T. K. WHEELER, M.D., Beliset.

Profound regret was universally felt in Belfast when it became known, upon the morning of Fridsy, January 13th, that Dr. T. K. Wheeler had just died from s dose of hydrocyanic acid sdministered by his own hsud. So improbshle did the event seem thst the chief feeling on the part of msny was st first one of simple incredulity, but all doubt upon the subject was soon dispolled. It seems that the deceased gentleman left his own house early on the morning of Jsnuary 13th, snd repairing to the medical hsll of Messrs. Wheeler and Whitaker ordered s lotiou contsining hydrocysnic scid. The dispenser left the stock bottle contsining the scid upon the counter, and went to another part of the shop to complete the preparstion of the lotion. When he returned he found the bottle had disappesred, snd feeling alarmed he proceeded to sesrch the bsck premises, where he found Dr. Wheeler insensible and evidently dying. Dr. O'Neill and Dr. Strsfford Smith were hastily summoned, hut their efforts were unavailing, sud death resulted about twenty minutes after the acid lad been taken. From the evidence given st the coroner's inquest it sppesred thst the deceased gentleman, although nsturally one of the most genial snd cheerful of men, had lstely been in very depressed spirits, and his altered condition had excited the attention and slarm of his friends. The post-mortem exsmination, conducted by Dr. O'Neill snd Professor Sinclair, showed extensive disesse of the vessels of the brsin and old-standing hesrt disease. The verdict of the jury was "Suicide while in a stste of unsound mind"-a conclusion which the medicsl testimony smply warrsnted and in which all will concur.
Dr. Wheeler was one of the original gradustes of the late Queen's University, snd was one of the oldest practitioners in Belfisst. He had sn extensive family practice, and was greatly esteemed and beloved. He was in s very special sense not only the adviser, but the personal friend, of sll his patients, by whom his loss is deeply lsmented. His relations with his medical brethren were invariably cordial and kindly, snd his sudden decease has come ss a painful shock in medical circles. The tragic nature of the melancholy event is much increased by the fact that Dr. Wheeler had heen present at the marriage of his son on the dsy preceding his death. The most profound sympathy is felt for the sfficted family in their sorrow and beresvement.

PROFESSOR GUSTAVUS WERTHEIM, M.D. Professor Gustayus Wertheim, chief physicisn in the dermatological snd venereal wards of the "Rudolf-Stiftnng" Hospital, in Vienns, died on January 8th. In 1851 he became house-physician in the dermstological wards of the Genersl Hospitsl under Hebra, snd from that time date seversl valusble suggestions as to treatment, such ss epilation in sycosis, etc. Among his later works may be mentioned : experiments on the causes of death in severe burns; experiments on the expired air in various febrile diseases ; the external application of carbonic acid in sexual impotence in the msle; examinations of the blood in psoriasis rulgsris, and of pas in syphilitic and nonsyphilitic infective ulcers.

## INSPECTOR.GENERAL HERBERT JOHN GIRAUD, M.D.

Dr. Gifaud, Inspector-General of Her Misjesty's Bombay Army, has died st Shanklin, in his 71st year, from general paralysis. Dr. Giraud was born at Faversham, Kent, in 1817, and educated st the University of Edinburgh. In 1842, after graduating in honoure, he entered the medicsl service of the East Indis Compsny. In that year his "Observations on Vegetsble Emhryology " appesred in the Transactions of the Linncean Socicty, and were subsequently largely embodied in textbooks on botsny. Dr. Girsud filled the office of Professor of Chemistry and Botany, snd subsequently that of Principsl of the Grant Medicsl College, Bombay, and he was slso chief medicsl officer of Sir Jamsetjee Jeejebhoy's Hospital, Chemist Analyst to the Bombsy Government, and in 1863 Syndic snd Dean of the Faculty of Medicine in the University of the province. Dr. Giraud was s frequent contributor of papers on botany and chemistry to the Transactions of the Botanical Socicty of Edinburgh and other kindred publicstions.

Open Spaces for the Metropolis. - At a recent meeting of the Metropolitan Public Gardens Associstion, presided over by Mr. Ernest Hart, it was sunounced thst sn snonymous donor had generously offered fourteen scres of land as s public recreation gronnd for Camberwell. The Mansion House Committee of the Gardens and Pleasure Grounds Fund have since placed $£ 3,000$ at the dispossl of the Association for convertiag the above and a psrt of the Tower Garden into open spaces for the public.

## MEDICAL NEWS,

Examining Board in England by the Royal Colleges of Physicians and Suroeons. - The following gentlemen psssed the Exsmination in Anatomy only, at a meeting of the Board on Jsnusry 12th.
A. H. Bird, W. D. Lockhart, II. R. Carter, and G. Gerrard, students of Et, Mary's Hospital ; H. Richardson, of Guy'a Hospital; A. Gurney, A. C. Fox, ${ }^{*}$ C. Welch, P. A. Colmer, and *J. G. Wilson, of the London Hospital E. J. Hayford, and T. W. E. Morton, of St. Thomas's Hoapital ; H. E. Tracey, of St. Bartholomew'a Hospital; C. H. White, C. L. Howe, and H. B. Shepherd, of Middlesex Hospital ; and H. de R. Morgan, of St. George's Hospital.
Passed in Physiology only.
J. M. James, *T. R. M. Berridge, P. J. Atkey, E. W. Livesey, B. Goddard, and H. S. Lindsay, of St. Thomas's Hospital ; R. L. Thomas, of University College Hospital; *J. P. Watkins, of Guy's Hospital ; A. E. Handcock, and H. Wiggins, of Charing Cross Hospital ; H. C. Barnes, and H. Vallance, of London Hospital : L. E. James, and E. L. Hoghes, of Westminater Hoa. pital ; "W. A. Andrews, and *J. L. Rubel, of King's College ; *R. F. Burry of St. George's Hospital.
Passed in Anatomy only on Jsnuary 13 th.
H. B. S. Stradling, W. P. T. Toller, and J. Terry, of St. Thomas's Hospital ; J, H. Maund, E. Collins, J. R. Williams, C. S. Wood, and G. J. Amy, of St Bartholomew's Hospital; E. W. Brunton, of Charing Cross Hoapital and Mr. Cooke's ; F. P. Harris, and J. B. M. Kennedy, of King's College; F. R Lookesury, and R. C. Middlemist, of London Hospital ; *H. S. Challenor, of Middlesex Hospital ; *S. T. Richardson, of Owens College and Mr. Cooke's ${ }^{*}$ D. Thomas, of University College and Mr. Cooke's.

* Under Old Regulstions of Royal College of Surgeons.

Royal College of Surgeons of England. - The following gentleman, having psssed the necesssry exsminstion snd having aince attained the legal sge ( 25 years), was, at s meeting of the Council on Janusry 19th, granted his diplomass Fellow of the College.
Hudson, Charles LeopoId, L. R.C.F.L., Middlesex Hospital.

## MEDICAL VACANCIES.

The following vacancies are announced :
BELGRAVE HOSPITAL FOR CHILDREN, io, Gloucester Street, S. W. House Surgeon. Applications by January 31st, to the Honorary Secretary.
BIRKENHEAD BOROUGH HOSPITAL.-Senior House-Surgeon. Salary, £@o per annum. Applications by Jannary 30th, to the Chairman of the Weekly Board.
BIRMINGHAM OENERAL HOSPITAL.-TwO Assistant House-Surgeons. Applications by Janaary $28 t h$, to the House Governor.
BRIGHTON, HOVE, AND PRESTON DISPENSARY.-Two Hoase-Sमrgeonz. Salary, £l40 per annum, with apsrtments, etc. Applications by January 3Ist to the Assistant Secretary.
BRISTOL. GENERAL HOSPITAL.-Assistant Physician. Salary, e50 per annum, with board, etc. Applications by January 23 rd, to the secretary.
BRISTOL ROYAL INFIRMARY. - Dental Surgeon. Applications by Febraary 18th, to the Secretary.
BRIXTON, STREATHAM, AND HERNE HILL DISPENSARY.-Residen Honse-Surgeon. Salary, £I50 per annum. Applications by January 26th, to the Secretary, Dispensary, Wster Lane, Brixton, S. W.
DOWNPATRICK UNION.-Medical Officer, Killyleagh Dispensary. Salary, £10. per annum and fees. Applications to Mr. James Heron, Tullyvery House Honorary Secretary. Election on Jßnuary 30th.
DURHAM UNION.-Medical Officer of Health. Ealary, eloo per sminm. Applications by February Srd to the Clerk.
FOREST HILL PROVIDENT DISPENSARY.-Meñical Officer. Applications hy February 15 th to F. J. Marriott, Esq., 2, Perry Villas, Perry Vale, Forest Hill, S.E.
HOSPITAL FOR SICE CHILDREN, Great Ormond Street, W.C.-Medical Registrar and Pathologist. Honorarium, £52 I0s. Applicstions by Jsnuary $24 t h$, to the secretary.
HUDDERSFIELD INFIRMARY.-Jnnior Honse-Snrgeon. Salary, £40 per annum, with board, etc. Applications by January 27th, to the Honorary Sccretary.
MACCLESFIELD GENERAL INFIRMARY.-Junior House-Snrgeon. Sajary, fro per annum, with board, etc. Applications by January 21st, to the Chairinan of the House Committee.
FATIONAL DENTAL HOSPITAL, Great Portiand Street, W.-Anæsthétist. Applications by January 27th to the Secretary.
NATIONAL DENTAL HOSPITAL, Great Portland Street, W.-House-Sargeon. Applications by January 27 th, to the Sccretary.
ROYAL COLLEGE OF SURGEONS OF ENGLAND.-Assistant in the PsthoIogical Dcpartment of the Museum. Applications by Jsnuary 2lst, to the Secretary.
ROYAL HOSPITAL FOR DISEASES OF THE CHEST, City RoBd, E.C.Physician. Applications by January 20th, to the Secretary.
ROYAL NATIONAL HOSPITAL FOR CONSUMPTION, Ventnor.-Aasistant Resident Medical Officer. Applications to the Secretary; 34, Craven Street, W.C.

ROYAL SURREY COUミ゙TY HOSPITAL, Guildford.-Honse-Surgeon. Salary, £SO per annum, with board, etc. Applications by February 15th, to the Assistant Secretary.
STOURPORT FRIENDLY SOCIETIES',MEDICAL ASSOCLATION.-Resident Medical Ofticer. Salsry, $£ 170$ per snnum, sud extras. Applications by Jannary 21st, to A. Bonckley, Esq., Areley Kings, Stourport.

## MEDDIOAL APPOLNTMFNTS.

Becanx, Nillism A., 3t. B., appolated Fhymidiaris Alsistant to the Publle Dis peasmry, Plymouth.
Gabaikla Lemand, 3t. M.B.Lond, M.B.C.S., apminted House-Surgoon to the flospital forsiok Children, Great Urmend Strect.
Rantuacis. A. \&., B A., M. K.C.S., appoint Clinleal Assighat to tho Contral Lonsdon Throstand the Ifwplest.
Mrecea, James, M.F.C.S., arpolnted Clinical Asmlatant to the Contral London Taroal nod Far llosplant.
FImĽPs, J. R., L K.Q.C.P.I., L.F.R.S.O., Y. M., L.A.M., apmointed Madical Onlecr to the Anihuacloy Dispensery of the Clogher Unfou, wlee L, M. Cordnor, L.K.C.CrP.I., L R.C.S.1., L.J., tesigned.
rownit, Charles J., M, A., M.D., Io, R.C.I', M. T., C, S., かppolated, Certrifying'Factory Surgean for tho Nailswarth listrict.
Savahy, Frank, 11.R.C.S. L.R.C.P., appointed Juulor Aswistant Mouse. Surgean to the Ilull Rayal Intirmary, vive 13. I'earson, M. IR.C.S., L,d.O.I., re.an'lueti.
Fivbafool Mfdioal Institution.-At the aninal meeting held on Thursiay, Junary 12th, the following list of officers, councal, and microsconical committeo was adopted. President: William Carter, 3 D., F.R C P. V̈ico-Presidents: R. Kobertson, ML.D.; William Williams, M.D.; F. J. Baley, L. R C.P.; G. E. Walker, F.R C.S. Homorary Treasurer: J. N. Cregeen, L.R.C.F. Henorary General Searetary : A. Bernard, M B. Honorary Searetary Ordinary Meeting: G. Harrissom, ML.R.C.S. Honorary Librarisn: R. Williame, M.R.Q.S. Cunacil: K. A. Grossmanu, M. D.; W. Irvine, M.D.; C. G. Lce, M.R C.S.; W. P. Rowe, L.R.O.P.; W. Whitford.. M.D.; R. E.cles, 11. D.; J. B. Nerins, M. D.; E. W. Hnpe, M. D.; E. H. Dickinson, M.D. ; W, H. Flestwood, M K.Q.C.P.; Robert Jones, M. R C S.; C. Pusey, iMLFC.S. Micros-opical Committoo: W. Alexander, F. $\mathbb{R}$ C.s.i. di Barron, M. B. ; P" M. /Braidwood, M.D.; H. Briggs, F.R C.S.; G. Gribson Hamilton, F. R.C.S. Ed. ; J. S. Hicks, F. R.C S Ed.; J. R. Logan, M. B. ; Rashton Parker, F.R C.S.; F. T. Paul, F.R.C.S.; W. Williams, M.D.; J. Wiglesworth, M.D. Auditors: W. Whitford, M.D. ; T. H. Bickerton, M. R.C.S. $/$

Manchester Medical Socirty. - At the annual meeting of the Jianchester Medical Society, held on 'January 11th, the following rere elected offee-bearcra tor tha preeent. jear:-President: Julius Dreschfera, M.D. Vica-Presidents: C. J. Cullingworth, M.D.; James Ross, M. D.; George A. Wright, M. B.; Alfred H. Young, M. B. Trea. surer : Charles E. Glascott, M. D. Secretary: Frederick A. Southam, M.B. Elected Members of Committee: H. A. G. Brooke, M.B.; Thonas Jones, M. B.; IW. N. Maccall, M.D.; Frederiok Melland; Simeon H. Owen, M.D.; Frederick M. Pierce, M.D.; Thomas C. Railton, MiD. ; Thomas Smith, M. D. ; Graham Stoell, M.D.; Alfred W. Stock-; John Wiltiams, M.D.; William Yeats, M.D. Tho above, with the phast Presidents of the Sociaty and two representatives of the Orens College, form, the Committor, Library Committeo: A. MI. Edgo, DLD. ; A. Fmrss.Jomes, MI.D. ; Stégmund Moritz, M1. D.; James Ross, M1. D. ; William Yeats, M.D. Auditors : William Coates; H. R. Hatton.e
Protectron in the Statrsis, -Not long aince, in virtue of a recent law, forbiddiug tho iupportation of contrat labour, a trained nurbe who had bean angazed in London to take charge of tha nursing department $3 \%$ the Penasylvanin Gecbral Hospital, was forbidden to land at Now York, and was seat back by tho next stesmer, on the ground that her oogagement constituted an infringemont of the law. Tha same fato is probably in store for Dr. Heneage Gibbes, late of Westminster Hospital, who accerited an engagemont as Professor of Phyaiology at the Uaiversity of Michipra, The local press, atimu lated probably hy disappointed eandidstes or nnsctupulous rivals, hsvolately called attention to the torms of his cagegument with a Fiem to putting the law in force should ho vonturo aut. A more preposterous lan it would be difficult to imagine.

Lectures to Art Stlidents at Newcantlki-A scries of public lectures on anatongy and phyaiology adapted for artists, art studeuts, school teachers, and others, will be given in connection with the Fowcastle College of Medicinc. The course will oxtend orer two months, and the lecturers will be Dr. Mears, Lecturer and Examiner io Anatomy: Dr. Oliper, Lacturgr and Examiner io Pbyaiology in the Faculty of Medician of Durham Uaiversity ; the eubject to be dealt Fith byiug "The Joohsnisus and Fores of tho Human Body." The lectares will be given on auccessive Weduesday ovenings, beginning on Fobruary lyt.

Is a paper rocently read bufore the Vienna Hygienic Socinty it was atated thit tho spft part of a loaf is an oxcollant disinfoctant for polished कood puper, and like substances, sud that experimonts medo in several Losplitale bed given very satisfactory reoultw.

Major Inector Tullocm; R E., has been appointed by the Presidont of the Local Government Beard to be the Board's Chief Eaginceriug iaspector, in place of Sir Robert Rawlinson, K. C. B, who has resigned. Major Tulloch is wall virsed in the duties of the department, having actod as inspector since 1873.

Spain, - Among other signs of medical progress, Spain now possesses a lady doctor in tbe person of Sencrita Doloree Lleonart, who hea just ombarked 'on " medico-toco-gynæcological" practice in Barcelona. This menas, no doubt, that the fair projcsora will confine her professidnsl work to midwifery and diseases of women.
leter Jaing, of. Elgin, who has just colabrated his 103nd birth day, is still ablo to follow his occupation as a carter.

A TELEGRAM from Lims, dated January 17 th , states that the cholora is now decreasing at Santiago and Valparaiso.

## MEETINGS OF SOCIETIES DURING THE NELT WEEK. <br> MONUAY

Menical Society or Lonnos, 8.30 p.M.-Clinicsl Evenfag.-Mr. Walsham will exhibit \& Case of Epispadias and Partial Extreversinn after Operatinn. Mr. Clutton will klow a Case of Recovery from Cbronle Pyamia. Mr. Hurry Fenwick will give a Demenstration of tho Urethrnseppe and the Vesicoacope. Cases also will be showa by Dr. Hadden, Mr. Bernard Pitts, aud Mr. Malcolm Morrls.

## TCEMDAY.

Royal Medical and Ceircagical Saciety-Mr. William M. Bennett: On the Occurrence of Tubercular Disease of the Testis as a Local Affection, particulsrly with reference to the Desirabllity of Early Castration in Certain Caseg. Mr. W. J. Walsham: Case of IntraPeritanesl Rupture of the Bladder; Abdominal Section; Suture of the Bladder; Recovery.

## WEDNESDAY.

Britisn Gynacological Society, 8.30 p.M. -Itrodnctory remarks by the President, Dr. Arthur W, Edis. Specimens will be shown by Dr. G. Graaville Bartuck, Dr. W. Japp Staclair, Dr. R. T. smith, Dr. Msasell Moullia, and others.
Hunterias Sociert, 6 p.ah $\rightarrow$ Mr, De Berdt Havell: Too Therapeutleal Indications of Neurastheais contrasted with thase of Hysteria,

## THEIENAY:

Opathalaological Saciety of the Uniten Kiwadom, 6.30 p. M.-Living ant Card Specimens at s p:x. Mr. Critcbett: 1, small Fixatioa Forceps; for Cataract Extraction; 2, A new Farm of Liaesr Knife. Mr. Higgens: IResult of Operation by Cantery, for Conical Cornea, Mr, Gunn: Growth of New Lens Fibres after Epontancour Ausorptinn of Tranmatic Cataract, Fapers. Dr. Miles Miley: On the Progansis as recards Life in Albuminuric Retiaitis. Dr, James Anderson: On Sur-Retinal Effusion in Chronic Nephrifls. Mr. Lang: On a Caso of Hemorthage In Rogion of Mactula.

## FITIBAY

Clinioal Nuchety ay Lonnon, 8.30 p.3r-Dr. Moncy and Mr. Paget: 1 Crae of So-called Idlopathic Dilatation of tha Calna. Dr. Barnay Yeas A Case nf Embolism of the Right Axillary Artory, connceted with Mitral Stenasis: Gangrene of the Forearn: Amputation; anbso quent Embolic Fleuro-rncumonia aad Death. Sir Dyce Duckworth: A Case of Tricuspid and Mitral Steaoris, in which Rhyaj cal Sigas of Pulmonary Arterial Rẹlux were present. Dr. J. K. Fowler: A Case no Disease of the Aortic sad Mitral Valvea, of prolonged duration, Living Specimen: Dr. de Havilland IIslt, Large Nixvus on the Back.

## births, marriages, and deaths.

The chargn for inserting announcements of Births, Marriages, and Deaths is 3s. Ed. whfon shoulat bo foruarded in tiamps with the connouncement.

BIRTI.
Curyak. - January 19th, at b?, Welbeck streck. Wi, the wito of W. Watson Cherae है.R.C.S., of a son.

MARRIICESS.
BULLOCK-GAEATMFAD,-On January llth, at Sto Juhes's, Weatgate-on-Sea, Jeseph Eraest Bullnck, 3I. D., of Ladbroke Grore, Notting Jlin, kon af the late Jayeph Billingsley Bullock, Solicitor, of Berkhemsted, Horts, to Ada, only daughter of J.J. Oreathead, R.N., of Sevenoalin.
Jasies-Edwandas, - On January 11th, at Belbel Chapel, Dolgeily, J. Kearick Joaes, L.R.C.M. and S., L.F.P.S., Eirlanfa, Llantlaradr, Onwestry, to Mary, second dangliter of the late Mr. Edwerds, Plas-yn-du, Dolgelly, Sferioneth: ahlre.

## DEATHS.

Obkevin. - On Janmary 12th, nt Meathfioid, Shanklin, Isla ni Wigbt, Jerbert Giratd, M.1), late Deputy Inspector.Oencral II.M. Bombay Army, in his ilat year
McDonald.-On January 1ith, at 25, Gledstanea Roar, Vest Kabaingion, Aleasander McDoanla, M.D., Fleet Srirgent (retlred), Royal Nsvy, sged 4 P.
Rider. - At Barawnod Hance, Gloacester. on Jaunary I7th. Bichard Ryder M.D., late of Hazelwood, Nislsworth, atter three mottis'nnesg, sged 47.

## OPERATION DAYS AT THE" EONDON HOSPITALS.

 thalmic Department): and Royst Weistminnter Ophthalme.-
 -mic; Roysi, Qrthopadic; and
 Royal London Ophthatmic:- 1.90 R.t.: $\operatorname{Ong}$; Bt. Bartholo

 London Ophthalmic. 2.30 P .,..: Wert Landon; Cancer Hospital, Brompton. H Pr.s. : St. Thomas's (Ophthelmic Depsrtment).

 mew'; Aty Tharmag's ; Ropal Weatminster Ophtsalulc. - 2 P.M. : London : Univeriity College ; Wostminster ; Geat Northern Oentral;' Oentral Landon Ophthalmic.-2.90 p.4.: Samaritan
 P M, King's Colloga.,
THORSDAY - 00.80 A.MI: Royat London Ophthalmic.- 1 P.x. : St. George'e $-1,30$ F.M. : St. Bsitholomem's (Ophthalmic Department); Ouy $\begin{gathered}\text { (Ophthalmic Departinent) ; Rogsl Weatminster: Ophthal. }\end{gathered}$ mic.-2 p.м. ; Charing Groas ; Loodon ; Centrat Loidou Ophohalmic ; Hospital fort Diseasee of the Throat ; Hospital for Women, -2.30, P. . $4 .:$ : North-west: Landon; Chel Pes Hoeppital for Women.
FRIDAT - - - . 9 A.u.: st. Mary's (Ophthaimio Department) - 10.30 A.rr Raysi London Ophthatmio - -1.11 P.M. : Et George's (Ophthal-

 Department); Contril Loidon Ophthalmic ; Ropal Ronth Lon.
 West Liondorn.
 1 p.,.: Kug'a Collega,-1.30 P.M.: Bt. Bartholomew'a; ; 86. Thomas' $;$ Roys! Wastmineter 'Ophthslmic.- 2 p.s. : Oharing Crose ; Londoas ; Middleser; Royal Free ; Oentral Lọdon Oph-thalimic.-2.90 P. M.: Canceri Uospltat Brompton

## HOURS; OF ATIENDANCE AT. THE LONDON HOSPITALŚ

Ofarned Cross.-Mbaimal and Sargical, dsily, 1; Obstetrio, Tu. F., 1.30 ; Skln, M. Th. 1.30 ; Dental, M. W. F.;n.

GuF e- Medical and Surgical, dsuly, 1,30; Obatetric, M. Tau F. 1.30; Eye; M. Tu Th. F. 1.30; Ear, Tu. Fi, 22.80; Skin, Tru; 18.30 ; Dentai, Tu. Tr.' F., 12. Sivo's doizece.-Medical, dally, 2 ; Surgical, daly, 1.30 ; Obetetric, Ti. Tb. S. : 0.D., M. W. F., 18.50 ; Eyo, M. Thi, 1 ; Ophthalmie Department, W.,1; Ear Thi., 2, , Skin, Th. ; Throab, Th, 3 ; Dentsi, Tu. F., 10.
Londoñ, - M eillonl, daily, esc. $8 ., 2$; Surgical, dally, 1.30 , sud $2 ;$; betetric, M. Th. 1.30 ; о.p. W. S., 1.30 ; Eye, W. $8 . ; 9$; Ear, $8 ., 9.20 ;$ Skin, Th. 9 ; Dental, Tro, 9 . Mimplesex. - Medical and Surgical, dsily, 1 ; Obstetric, Tu. F., 1.30; o.p., W. S. $1.30 ;$ Eye, W. 8.8 8.30;-Ear and Throat, Tu., $9 ;$ Skin, Tu., $4 ;$ Dental, daily, 9. St. Bartholomew 8 - Modical and Euzgical, daily, 1.80 ; Obstetric, Tu. Th. ©., ${ }^{2}$

Sr GroraE's. - Medical and Surgical, M. Tu. F., S., 1; Obstetric, Tu. S., 1; 0.p.
 Th. ${ }^{2}$; EYe, W. S., 2 ; Ear,
Sr. Marv's.-Medical and Sarglcal, dally, 1.45 ; Obstetric, Ta. F., 1.45 ; 0.p. M. Th., 1.30: Eye, Tu. F. S., 9 ; Ear, M. Th. 8 ; Thraat. Tu. F., 1.30 ; Skin, M, Th., 9.30 ; Elactricisn, Tu. F., $2=$ Dental, W, $\mathrm{S}, \mathrm{g} 9.30$; Consultatilons, M.9, 2.30 ; Ope rations, Th., $1.30^{\circ}$. Ophthalmic Operationg, F., 9.
8т. Tвомas'b. - Medical and Surgical, daily, except Sat., 2 ; Obstetric, M. Th., 8 o.p.; W., 1.30; Ey日, M. Th., 2; 0.p., daily; oxcept Sst., 1.30 ; Ear, M. 12.30 Skin, W., 12.30 ; Throat, Tu. F., 1.30;' Ohildren, S., 12.50 ; Dental, Tu. F. 10 . Univeraity Dolleoz. - Medical and Eurgical, daily, 1 to 2 ; Obstetrice, M. Th. Th. F., 1.30 ; Epe, M. Tu. Th. F., 2 ; Esr, S., 1.80; Skin, W., 1.45 S., 9.15 ; Throst,



## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

OOMMONTARTON 'rempeting aditorial msttare abould be addressed to the Edivor 429, Strand, W.O., London; those concerning business mattara, non-dalivery of the Jointut, etc, shonld bo addressad to the Mansger, sto the Oflcs, 489 strand, W.O., Londan.
Ls arder to avold delay, it te particularly requested that all lettera on the editorta buafnese of the Journal be addrassed to the Efitor at the office of the Jocranal and not to hile private bonse
Aotaors dotiring reprinta of thetr articies publighed in the Beifise Medicar Joornal. are requested to communicste beforehand with the Mgnager, 429 Strend, W.O.
Conrespondents the winpr notice ta be taken of their commanicationa, shanid anthenticato them with ofr names-of courge not necosearily for publication Cormespondrnts not anewsered are requested to look to the Notices to Oorce spnndents of the thllovin heric OfPice or tais Jourvili cannot onder an Manobchipts yorwikded
Perifo Haitas Departarent. - We shald be much obliged to Merical Offcess o Huaith if thoy will, on forwarding thoiv Andua? snd other Reporta, fawource FIth Dupitricie Oontiti.

CTH To Corsespondente. Th
and aro reminded that prolivity ta a great bar to pabllcation sid, with the constant pressare apain overy department of the Joursal, brevity of atyle and conoisedens of statement grestly facilitate early insertion. We ure compelled to returm and hold over a great number of commanications, abiefy by reason of their ninecesssry length.

## ncEREES.

C. W. asks for reforince to any anthentic records of diphtheritic paralysls withont previous angins.
W. 1. C. asks to be enlightened $s \mathrm{~s}$ to the canses and prevention of eczems iris and whether any treatcoent will shorten the attacks.
Asaocute asiks for the formnla of a good cheap cough tiocture or mixture for club union, and hospital practice.
L.R.C.S. EDus, asks any reader who has very recently passed the final examina. ton for the Fellowship of the Royal College of Surgeons of Edinburgh to inform bins $a n$ to the best books to read on the various subjects of the examinstion.
Mp. Huon Heald (Ormskirk) writes: If avy of your readers who are connected ith a emall cattage bospital would be willing to give me snme information with regard to cist of establishing and of carrying one on, I should be very muoh obliged. They might communica te with me direct.

Suitability of Florida for Asthma.
IDQulrens writes: A patient who is hable lo occasional attacks of apasmodic ovinens billty or otherwise of Elorida, between degrees 29 and 28 , 38 a place of nermapent resideuce.

## Avswres.

Dr. R. I. Stevens shonld in the first instance commanicete with Dr. R. Burnet, 6, Upper Wimpole Street, who.Tras the treasurer of the fund refersed ta.
Dr. V. G. Fitzgerald, Surgeon-General.-Regulations as ta Defects of Vision which Disqualify Candidates for Admission into the Civil or Military Gavernment Services, by sir Joseph Fayrer, K.C.S.T., is published by Messrs. Cburchall Oar correspondent might have ascertained this by reterring to the "Index to, Advertisements " in the Joveral for Jamuary ith (ex gr.).
East Anglis, who inquires about the removal of superfuans hairs, might refer to the treatment by electrolgsis which have sppeared in the Jocrsal durlng the last few jears, for examplo-1856, vol. 1, pp. 151, and vol. ii, p. 978 .

StPhills.
Dr. C. R. Illingworte (Accrington) writes : Tu answer to "M.D.," I beg to be allowed to recommend the lollowing method of treatment, which 1 have found rapidiy efficaciuas for some years past.
interally, the biniodide of nercury in fodide of potassinm, thas:-Sol. hyd. bichlor. B.P., 3j ; potass. iodid., jss ; ferri am. cit., 2) ; aq. menth. pip. et egrupi, ad $\overline{\tilde{s}}$ rijj; $\bar{z}$ as ter, quaterve die. Locally, to the slonghing ulcers, after paintras witha 4 per cent. solution of cucaine, spply 30 to 30 grain solution of nitrat of silver every day or other day. Toany secondary patches of syphilitic psorissis on the face or body let the patient spply a 10 per cent. ointment of the sis on of mercury twice a daj."

## Undescended Testicles.

Mr. S. Osborx thines that, 1. It is undouhtedly the duty of the medica attendant to examine the scrotum, to see if the condition of affairs is still $\varepsilon$. previonsly diagnosed. 2. 14 would also be the duty of the medical tasu to ex. plain fully the result of such a condition, producing as it does sterinty. Eoth contractine parties should be made cognisant of the fact, othermise lemal pro ceedings might in the future be taken to set aside the coutract.

## NOTES, LETTERA, ETC.

Appliómion of Electriotit by Meaks op, Douches.
Dr. J. G. Dovolas Kerr (Bath) writes: I have recently been making some cxperiments which prove that the water of the donches employed in the massagc deuche batho is in sufiicignt continuity to conduct an electric current. 80 13s 1 know, this is the tirat attempt which has been-made to ntilise this power ful therapentics seut in this way. Either the continuous or interrapted car ful therapeutic: igeut in this way. sice very simple. One pole of the battery is rants may be used. The procodure. attached to the body can be msde to complete the circuit, and thus int positions, any part of the bodyctricity. When it is desired to act apon the be brought under the action of electricity. When is douched. For the srm legs the patient sits upun a flat pole, sud the limbs aro duuched. For the srm the pole is beld in the hapu., Then there is un reed to limit the sction to a single limb, the noovable pole is placed in the water which covers the $p$
feet, and the doviche brougint to bear on the difterant parts in succession
This ruode of application, which onubings the effeet of douching with elect tricity, has the advantaue over or linary electric bathas of belng used when the limbs ooly are scted hom than would be dsfe io a general body-bsth where the limbs aoly are scted uerve ceutres ate also jnrolved.

Chlorofors is Desial Operations
Mr. Sinnet Spqnes, M.R.C.S. (Anæsthetist to the Nationsi Dentai Hospital) mites: Permit me to record a yrotest agsinse the use of chloroform in dental operations Mr. Staphens alludes to "yetrons lazios pho are prejnđiced ageinst any form

Of aniesthatle other than gas", but I thiak the word "prajodico" is, uader the cir
comatances, hardly a fair one to employ. Withoes hardly a ralir ode to employ.
other operations, surely the timo quastion as to the choico of anmathetice for aeknowledsed as alopely the timo has arrivod when nitrous oxide ahould in ditions contradodicatiog its ince in ordmary dontal cases. Tho rarity of con pertahility and eonvagien use, tho shsonco of after-offects, and its present parsthetic. But eonvenienco, sumelently warrant ith claime ss the dontal chloroform, it is dimeolt to justify its use, risk (as must bo admitted) stitending chlororm, it is dimeolt to justify its use, oven if the inereaso in risk be ever sittion thant. it in asfer to adrintintor gass tivice, or, if neceesary in risk be ever sittiag than chloroform once. In sono excertionsil eases it mayy, hrice, at ono emplay some other in conjunetion with cast, but in the foce the justillable to resule frout chloroform $\mathbf{a s} \boldsymbol{s}$ genoral anresthetic, it is the face of the occasional avold its uso as nuch at tho dental chaire cyen when beter, in my opioiau, to mixturo" with cau de Cologue dental chair, ereo when made Into a "pluasant

Or. Whlian Donovan Ribibtion or Fonzion Deoneza
the faet thast the holders of tho decrees in inedicintes: Permit me to point ant many, snd other forolgn coundries degrees in inedicine granted in Deigium, Oerby virtue of those degrees. Tho decrese swed to practise in theso countries aythortso of tholr holders to Tho degrees are simply seientife titles which Buthorlso thelr holders to present thensolves before the State Examinstion Boarl, and, on passlog the state oxamination, permission is grazed Examination Ithink, thereforo, it would be uaviso to recister degreas in grasted to prsetise. do not authoriao their holders to practise in the genes in this eauntry which granten. It is too bsurd in this age to in the countries in, which they ar remain rosted to a fow old cashloned allow the mosopoly in degrees in thystelan and eurgeon shonld (ss in ex universities. Every legally qualifed Britaja) possess tho right to the title of doctornery under the sun except Great Britaja) jossess the right to the title of doctor of medieine.

## F.fcal Lodgments.

Mr. Wister Hardis (Bournemouth) writes: In the Journal of January 7th Doticra letter on the above subject May I suggest that in most eases an injectlon of amall quantity of yeast (the paticnt keeping the reeumbent position, With tho hips ralsod) would answer far botter then cing the recumbent position,
or Dr. Cousins's spoon and or Dr. Consins's spoon; and that even in those cases whero the use of the for,
mer instrument is deamed advisablo mer inatrument is deamed addisablo, the fluid to ioject is not water, but ordi-
nary brewer'g yeast, which will pren thog else, sod make rectsl rellef perioate aud soites the mass quieker than anyI can not speak too highly of the a very simple and paisless matter. Moreover, tions of the alimentary of the effect of yeast in obstructions of higher par: onen" for explanstion I cansl. The modus operandi it lesve to "thenn claver. onen for explasation. I merely atate my expericnee after an setive carcer (alas ! now ended) extending over a quarter of a century.

## Pass List.

Ebrats.-The Farded of tho Lodion Has List.
who pessed io physiology January ath, is intai Medical College writes :-J. Mall, son, G. Lys, A. Green wood, zod W. H. Oood son, who this hospital. R. Jaek. Jsnuary lith, are students of thils. Goodson, who passed in physiology on reportod.

print in my letter in the Doyne writes : Kindly allow me to point out a misdentally myserted in the followine of Janaary 14th; s "not "" has beeo aceidentally inserted in the following passage: - "A hypermetropo who does not
an. J. A. Willow (yiringturn Casps of Habitual Constipation.
in the Jocrsal or December 24th, observes thet rotreepondent, Dr. Althaus so cases of habitual coustipation is observes that reetal injectlons of glyecriue covered, and ebould bo bronghn to the romedy "which has recently been dis are indehted to him be brought to the noties of the profession generslly," W is at least duo to the writer of the artlele on conest of the remedy, but suroly it of Medicine 1o notico that ho there artlecte on constipation in Quain's Dictionaryy jected in small quantitics into the rectnima." mong the remedies "glycerine in

## Dr. J. Unoumart (aberdeen) wrices the Coligee,

the 3 fembera of the Roys) College of surgagreat deal in the Journal about views with the Privy Councll, , wish to keons and thelr meetings and inter to ootice of the meetings, ss 10 not think 1 have mbers are entitled thing shout it bat what I have scen io tho Jourvi I have ever heard any. It lis, perhaps, not of minch importsace, but I number of thoso in favour of your views. $\cdots$ - Dr trgashart invour of your views.
Association of 3 embera sif send in his namo to one of the secretaries of the stcele, 1. Floreace Terrace, Roysl Collego of Surgenas of Eaghod (Dr. W. C. Dlapensary, Rochester Row, Weatminster, S. W, and Mr. W. A. Ellis, Western
A correction.-Dr. C. R. Illingworth (Acerington) writes: Permit mo to point out
that in your nummary of the work of $\mathbf{2 8 5 7 1} 1 \mathrm{sm}$ mentioned and used the hinlodide of mercury in scarlet fever monty it in on having ndvised letter of Hsy lat, 1888, you will percecive that 1 waly. If you will refer to my and the nrat to use if for diphtheria also. It is aseribed int to advise its vee, year's work to Dr. Watson.

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## BOOKS, eTc., RECEIVED.

 Tote- Wook for Dental Students. By James Rymer, L.D.S., M.R.C.S.
Lectures on Certain Diseases of the Jaws. By Christopher Heath, F.R.C. 8 .
(Illustrated.) London: J. and A. Churehill. (int's Pocket Medical : J. and A. Churehil.

Edition. By Flisa Longley. A New Disenses of the Skin. By W. A. Jamieson, M.D., F.R.C.P. Edinhurgh: Y. J.
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## AN ADDRESS <br> SURGICAL INSTINCT. <br> Delivered at the Annual Mecting of the Staffordshirc Branch, October 2\%ith, 1S8\%. <br> By w. Dunnett spanton, f.r.C.S.Ed., Surgeon to the Jiorth Stalfordshire Infirmary.

Gentlemen, I hope to be able to interest you for a short time in conaidering what I will venture to term surgical instinct.
Now what constitutes a surgeon? I would say that the acquirement of sargical knowledge, so far as is evidenced by the possession of a diploma to practise the art and science of surgery, is no true guarantee that the posseseor of it understands his work. You may perhaps mould an unlikely mortsal into a being who calls himself a aurgeon, but his actions belie him ; and sooner or later, if he does not discover it himself, his friends or his enemies will discover for him that he has mistaken bis rocation.
To hegin with, the surgeon must have that inhereat love of the work he has to do which will render it not an irksome task, but the pleasure of his life ; he must have "s heart at leisare from itself to soothe and sympathise" "with those whom he has to treat. With his surgical instinct to guide him, our ideal surgoon will seek to extend his knowledge, and to allow no obstacle to turn him from the pursuit of it through life. "Let men be assorod that the fond opinion that they have already acquired enough is a priocipsll reason why they know so little" (Becon, Essays, p. 251); and "if a man has not such a degree of enthusiasm and love of his art as will make him im. patient of uoreasonalle opposition, and of encroaschm ents upon his discoreries and his roputation, he will nerer become considerable in any branch of natural knowledga" (Dr. W. Hunter, Medical Commentariess.
How far surgical instinct is a matter of evolution I cannot sasy, bat it is curious to find an illustration of it among fishes, nuch as tha telescope fish, where the male zcts as acconcheur to the fomale in a moot amusing manner by rolling her oree and over, and a still more surfical proceeding in the bufo obstetricans, one of the toads, where the male severs the gelatinous cord by which the ova, sre attached to the female. I cannot, however, imagine that man's primitive surgery was ever quite ao simple as this, especially when we find among some of the oldost writings extant, which carry na back at least twenty-five centuries, indications of sdranced knowledge very little behind what we know now. 460 B.C. We find Hippocrates, while oftrenuously adrocating Nature as the physician of disease, yet in sargery a bold operator. He trephined fearlessly, opened the chest in hydrothorax and empyema, and treated fractures and dialocations by means of wax handages as me now treat them mith plaster of Priris, while in the treatment of infantil c clabfoot be practised and adrocated a plan of bandaging and fixstion such as the most adrancod surgoons now chiefly rely upen.
This oxample will sulfice for my purpose, to ebow that enormous as are the advances which experience has afforded to the present genera. tion, we mast not overlook the fact of instinctive surgery, and that the ancienta who wero the fortunate posscsosors of it hare pared the way for modern adrances far more than those who confine their readiog to the journals and modera textbooks would be led to believe.
In the ages mhen mysticism in its raried forms was rampant, althongh me find glimpses of the knowledge that Natare herealf mould do all that was necessary, no practitioners were bold enough to hazard their reputation by actiog up to this belief, bat almost invari. ably resorted to somis applicstion or . some mysterions performance to give it due effect. To Hippocrates is due the overlasting credit of hav, ing broken through these bonds; which the Asclepiade had so care. fully striven to mainitrain by making the practice of medicine a sectret art. In his famous first aphorism is a sentence not often quotod, though to my mind far more signiig cant thana tho hetter knoma "arss longa, vita brovis.". Ho says: "The physician must not only bo pro: pated to do what is right himself, buit also to make the patient, tho attendants, and exteruals co.operate." Herein he displsys hise true
 time and for centuries after, the surgeons proper were only, as Spence
calls them, "hands for the learned doctors," and thas their sphere of ohservation, and of power to act independently, must have been very limited. It was, in fact, a mechanicsl kind of surgery, confined chiefly to cutting for stone, care of rupture and other specific operations, many of which would probsbly have been far bettor left undone. The true surgical instinct seems to have been handed down through the physicisns, and by a gradasl process the modern sargeon has becn evolved, retaining the true hereditary instinct; necessity, experience, and above all a keen knowledge of all his surioundiags having done the rest.
There may be some danger, perbsps, that surgeons of the present daymay become too mechanical, and that, while the physician looks upon every affertion he meets with as one amenable to therapentic treatment, or, as some would putit, the vis medicatrix natura only, the surgeon is apt to go to the opposite extreme. The medical mind is apt to fall into the error which even in the great minds of Abernethy, of Pott, and of Astley Cooper, almost led them astray-that of largely ipnoring local disease in the importance of considering constitational influences.
It is perfectly true, as Sir Astley Cooper has so well pointed out, that the susceptibility of different individuals is a matter of vital moment. At present we have no means of ganging the resisting power of individasls, some of whom seem almost injury-proof, while others succumb almost from being looked at. I remember a striking instance
of this in of this in a patient who was to have bad an abdominal section performed, but she died suddenly the night before. Nothing was found this had occurred after the operation instead of before, there would have been one more case added to the list of deaths ascribed to surgery, no doubt.

In some instances we meet with the whole system seems imbned, as it were, with a tendency for disease-for example, tubercle-to manifest itself somewhere, as in the metastasis from the chest to the abdomen, or as in a case of a man whose leg I amputated for tubercular synovitis, who went on very well as far as the leg was concerned, but died of acute tubercular meningitis in three weeks after. This is one mode of origin of lacal disease which is not infrequently ignored; where. But may not the tendency to it that it must come out some-
when condition is essentially constitntionsl, probably accumulatiog throngh many gencrations, in the latter case it would be purely local. although it might be of a character to become constitutional, several generations may be needed to endue it with an hereditary character. Experience teaches us that it is far safer to trust bere to the surgical instinct, which says, "Remore the disease forthwith;" and as the wisdom of our patients increases, so as to lead them to speak of local diseases while in their earliest stages, who knows but, in course of time, their hereditary constitutional character may be stampod out ?
The surgeon meets epithelionia of the lip. His instinctive mischief; take, for exsmple, sonnething to deal with which mas (very improbshlir) remsin he has or may, on the other hand, be a focus for the diffusion of changes throughout other parts of the system. How is he to judge of the probabilities of either event happening? In the present state of onr knomledge there can be no besitation as to the course to pursue. We have a state of negative good, which may at any moment lead to one of positive evil; and on this gronnd the surgeon would eradicate it formwith, just as he would a weed in his garden, before it has had nent surgeons and pathologists still maintain aware that some emi. tutional tendency before local disesse can assume a malignanstiracter; but their precepts, I fear, differ from their practice, and their true surgical instinct will guide them into the safer course I bave indicated. I might refor to many instances in support of this principle, but will mention only two or three.
An old lady, 64 years of age, came under mes care for avery large trpical cystic sarcoma of the breast. She informed me that a small lnmp, not larger than a nutmeg, had cxisted for forty years, and that three months before I saw her it hegan to grow, and had become the enormous mass it, was in that short time. I removed the breast, and sho mado a rapid recorery, and, so far as I ain aware, she has remained well since. Her goneral health was good throughout.
Another instance: a man about 40, whe canne for an ulcer on the tongue, which 1 and my colleacules thoucht specific (as there was a
distiuct specific histors) Under medical treatment the proved, and he returned home under tho impression that it would be curcd. Six weeks afterwards he presented himself egain, the sore having rapidly increased, and assuming a decided maligaant oharacter. 1 removed the entire tongue; but rapid glandular implication took place, and death occurred shortly after. "Of course 1 ought to have
operated while "in doubt." Then it was tho, transition, from a ghs. aive to an active malignat coudition probably took place.
Tho only othor case I will refer to is ono of a man over po, an old soldier, whom I saw iu cousultation for a growth ove the ascending ramus of tho lower juk, involving the skid, which, was, beginning to ulcorate. The jaws wero fixct, so that lor some time only linutels roull he noured bohiod tho teoth. The mani, was reduced to a skeleton," aod was kppt alive hy morphine and stimulats; suffering excruciating pain. II wiss seen hy soure rery good surgeons, who coasldered tho disease malignasat, and declinod to interfere, as the submazillary glavid was also culargerl on the sure side. The man's extreme snifering, and bis willinguess to submit to auy measure, which might give even a temporary respite, made $u$ ue resolro to operate. 1 romoped ono half of the larrer jaw, with a largo elliptical piece of stin iovolved in the growth (rbich. Trss sarcomatous, growing from the periostoum) and the patient rapilly got well. After the operation the local glands iucreasod greaty in suze, and slarmed, us, considersbly;, but, in spite of all those adverse conditions, recorery was complete, and he is now, five joors after, a hale, artive man, in perfect health. The disesse hure was cloarly local, in spite of all its decejitive surronndings.

Oo tho other haod, the surgeon will meet with many cases referred to him which woze properly belong to the physicim. One of the ruost cornuion of theso is gont or rheumacism, so often the result of an injury, but whero general treatrnent is of course demandel. ${ }^{2}$
Sous time since-1 met with a very interestiog case, in which the tables were, as it were, turned unou us by that goddes's "Nature." A lail whom I saw in consultation was suffering from the usual indications of ordiancy leukemia. He was extremely feoble, pale, putfy, breathless on exertioo, with rapid heart action and feeble pulse, and had that well-known waxy look characteristic of the disease. He had been a healtly, country-born lad, snd his surroundiags wera favour. able. On examining the blood from his fioger, 1 was struck, not ouly by tha great disproportion of white to red corpuscles, hut hy their relative increase to tho scrum of the hlood. Under the ordlinary trestment he made no progress whatever, took little food, sud seemed reduced alnost to the last extremity, Then Nature, wiser than We, sonchow caused violent epistaxis, and from that time recovery was rapic. 'I confess that it never entered my mind to adopt such a ramedy, and my instinct was clearly at fault. How did it effect the care 3 Tho oaly explanation I cau offer is this: assuming the blood to be too riscid, as it ras, for free circulation to take place, nutrition mould he pro ianto seriously interfercd with ; the heart would fruitlessly eddeavour to orercomo the difliculty (giviog rise to its own symptoms), and a genersl suspension of the sssimilative functions of the hody would occur. The bleeding from the noso released the mechanical impedinient by at ouce getting rid of the surplus of solids in the blood, and the organs were left free to act again.

I am led to think this sis tha true explanation, because it affords a key also to those otherwise obscure cases we meet with in girls rising isto womanhood, which are common enough. The symptows are similar; the girl, keeps too fat, too flabby, pale, and weak, iron does her no good, and her good appotito oaly seams to add to her trouble. There is in these cases invariably amenerrhema $\Delta \mathrm{s}$ soou as that passes sway, the natorsil flow loes for them what the cpistaxis did for the boy, and they rapidly get well.

The number of cascs which fall into the haods of the surireon, haring a local character, ofton completely overlooked or uudiscovered owing to the manner in which a purely medical miul insplects them, is rather remarkable. Chief among these are uterine or, abdominal cases. How ofter do we meet with casos of menorrhagia which have been node- genersl treatment for weeks or even months, and find an unauspectod maslignant disease of the cervix, or perhaps a small polypua uteri.

I zaw anme tinzo ago a lady who had becn the subject of almest constant hæmorthage, ascribed to "chauge of life," but which st leagth alarmed her and her friends. On examining her I fonod nothing more or lass than a small highly vascular urothral carnncle, which way removed, and her troublos coasod. No' surgoon would have sllowed a caso of that aort to remain undotected. I could mention scores of these cases whern the reliance on simple therapeutic or homoopathic treatment (so called) aluost Ied to the death of patients in whom a timely snrgical examination and local treatment would have pat the matter right without risk and at once. In the opposite condition, smenorrhea, I am afraid oven worso blunders of omissiou as well sa commission occur, Quite recently a laticut camo under

[^15]my caro with an enlarged ablomen, who was sont for operation as a cass of ovarian tumgur, The whole surface of the sbdomen was stulded with puatuks, Chichywe, I found, eaused hy hypodermic injections which had boen employed by a man with a medical turn of mind for mapy, meeks, whether to disperse the tumour or no I canuot say. Sho ras prognant simply. One fnstaber "fot मith of a woman who had bcen diligoply, trasted, with emmenagorues, potc., in whom I failed to discover any uterus at all. Sho never had men. struated, and nevor rould.: Other frequent causes of either of these conditions, and alnóse blways acobtopanied with dysimenórrhea, are flexions of the nterus. The medical toind prosoribes tonics, perbaps change of air aod sceae (often the very worst things), and trusta en. tirely to geniorat treatmentrof: symptoms "to; offoct a chre, But how, often docs this succeed I : The patient, after rrearying of this unsstisix factory state, comes to the surgeon, who simply applies his instinctisa surgical knowledge to this, as. he would to soy other part of the hody, and'finding a mechsnical cause, treats it mechanically, twheni the suliordinatis'symptoms speedily dissppedr. I hase a atrong sas? picion that many practitlonere who meet, with cases of this kind, aqt from a sort of kindly wisdom, that it is safest pot to meddle with what they do not pnderstand, and leaveratue ta do for them what they sre themselves unable. 13 ut is this fatr to the firir paticnt? juw

Another class of cases are not uncomiffonly referrod to surgens to deal with as a dernier ressort-abdominal bbstructions'of various kínds! In the course of my practice I bave seon s large (pumber of thuse, some of strangulated heruia treated for seversl days, in one caso by three medical heads, without any suggestion of an operation until when I wss asked to see the patient he was moribnut; sonie of hydrocelo, one of whom has lately seen me having worn a truss for sixtéeri years, which has at last caused a homatoeele. These are commonly the product of that wiseacre the surgical instrunent chemist, who always thinks if he does know one thing better than another it, is \& rupture. I look upon the truss in the hands. of chemists as a most dangerous weapon; the:results of their ill-judged applications are ofteli most disastrous. Not long ago I operated ori a pationt of my friend Dr. Orton, in whom a truss had actually been applied by a Lóndon cheraist on sn, slready strangulated hernis, which almost cost the patient his life.

Similarly with intestinal obstructions. The surgeon only "sees them, too often, when the friends of the patient find desth imminent uuder tentative treatarent. I ssw quite recently a lady at a distance whow I was sent for to operate upon. There was a distinct obstructiou in the right iliac fossa, as plsinly indicated as anything could be, with i history of old local'peritonitis, probably a band. She had bcen well dosed with purgatives until sickaess was incessant-eneurati, etc., likerise. When I saw her sho was woribund and alnost pulsoless, and I declined to operate. The uedicsl man io chargo of the caiso seomed. to. haye no idea of the real state of alfairs; to his purely medical mind it was inflammation, and ho told me with tho blaudest simplicity "it was nothing more." In another instance a moro fortupato result occurred; that of sn elderly man who had boco uoder treatment for absolute constipation for nearly three woeks. Obstruc: tion was completo, roniting incessant, and when' I saw' him hu wiss reduced almost to the last extremity. He had becn, funder treatment by two medical nacn the whole time on the usuil expectsrit plau, rational enough from a modical point of viow, only it did no good. Another surgeon was callou in who asked me to see him; sud finding from the history indicstions of obstruction on the left side of the colon, ill as be was we doclded'to operate. Colotomy was performed, and an enormous quantity of andigested potato-skios canio rushing out, very mach to our amazement. On inquiry we found that the last meal he had moro thao three wecks before had been some potatocs whole, of which be ste freely. Hence the result, and the wisdom of treating the case surgically. He is now quite well.
In no departmeat has the surgical instinct been shown more conpicuously than in what is usually termed abdominal surgery. This has undcrgone a complete rovolitiou during tho last twenty-five years. The subject is now too faniliar to need many words, but, it is only due to our distinguished member, Mr. Lawson Tait, to say that it is mainly to his energetic sad powerful suvocacy that the reformation is due. Sir Speacer Wells made opariotony a justifiable and successful operation, Marion Sims gave the impetus to other pelvic surgery, Jut to Lawson Tait the creditis certainly due of haviug inaugurated a wider se pee, whicla briogsalmost allabdomiaal, certaiulyalmost all pelvic, diaeases within the range of not only justifiable but eminently successful operativosurgery. When I was obotetric assistantat Mildlesox Hospital iu 1862, tro rery illustrative cases cano under my care, which indicate the state of feeling in the profession at that time, and which I will briefly. rclale. A narried , roman, aged 23, hal, fye children
naturally. The mid wife who attended her in her sixth labour, finding her after delivery still measuring forty five inches, sent for mee, supposing there was suother child, I saw her with Dr. Priestley, and we found she had a large ovarian tumour. At the end of three weeks she Was about again, her size undiminisued. as I touul most mortion. During the, whole time such a thing as an operation was never discussed, so far as 1 remember ; and sho died, as so many nsed to do and even now do, from rupture of the cyst.
The other case was one in which ovariotomy was performed by Mr. Mitchell Heurs, with Sir Spencer Wells at lis elbow-the first ever performed in Middlesex Hospital. The case was ono which we now should consider a simple one, with rather extensive adhesious. All went well until at night, as I was watching the patient, every indication of interual hemorrhage came on. I sent to the surgeon to know what to do, snd to ask if he would reopen the abdomen. The reply was that uothing could be done beyond giving brandy, etci, secundum artem A.1. 1\$62. The young woman died in a few hours, and we tound, post mortem, one bloeding vessel in the omentum and a quan-
tity of blood in the abdominal cavity. I veuture to say that, under the influence of Tait's teaching, such an event now rould amount to surgical treachery. I can recall, also, the instance of a young woman whom I saw soon after this period, blanched, with a history of suppressed menses, and evident internal hemorrhage, I will quote the words of the standard texthook at that time, rectung to such cases of what I assumed to be rupture of the Fallopian tube : dent is almost always fatal. If there be time for remedies, of course the most active, autiphlogistic treatment is the most appropriate ; ouch, in fact, , would be prescribed for peritonitis under ordinary
circumstances this teaching, (Churchill, Dis. Womn., 1864, P. 494. I trustad to before night. Now that the ordinary rules of surgery are applied to the interior of the abdomer as to the exterior, such a lamentable result cannot occur without eulpable negligence somewhere. In those days we knew no better.
So with regard to other affections of the female pelvic organs, it is quite clear that many of these, which have formerly been in the hands of the physician, will become proper subjects for the surgeon. A new light has dawned on many obscure conditions which have been too often guessed at, frequently mistaken, and perhans in many instances entirely overlooked. The unhappy ratient suffiering from chronic ovaritis, from.pyosalpinx, or zome allieel disease, is often the victim of evarlasting medical treatment, sometimes a little better, much more often worse, until the cause of her trouble is removed; and our united experience as a Society 1 am sure fully ' confirms Mr . Tait's decided statement that nothing short of the removal of the offending parts will he permanently effectual. Indeed, he has made this no longer a question of doubt, but an established rule of snrgery. For my part, I fail to appreciate the sickly sentimentality of those who raise objections to all such operations for removal of ovaries, whether diseased or not, on the ground of unsexing a woman, because I think the reasoning is founded on a false assumption. Has anybody shown one of the converted masculine women as a complaiuant orr her own behalf? I never beard of one and never expect to see one.
Now to turn for a moment to some of those cases in which we are 80 greatly indebted to physicians and physiologists, such as cerebral
tumours tumours. Although the brain has been dissected and known for three thousand jears or more, it is only within a recent period, since the localisation of the functions of the brain has been carefully ascertaiued by physinlogical inveatigations after pathological observations failed, that a sufficiently precise knowledge has been obtained to justify any apecific surgical operation for their remaval.
experience that the interior of the brain may be surgically dealt with like other interior parts of the body, provided proper skill and precautions be exercised.
My friend and colleaguo, Mr. John Alcock, some time ago had a case in which he removed a depressed portion of the skull which had bcen the cause of epileptic attacks cointiuning niauy jears, and did so with conylete success. Thete is every reason to hope that in this happy union of fhysiological knowledge and practical surgery many lipes will in future be saved from some of the most distressing ills which torment the human body.
Since I read a paper at Cork in 1579, by which I acquired a rather unenviable title, the snouldering fire of attempts to cure hernia under modern systems has been fanneel into a flame, as will be readily seen by the masas of literature which has since appeared on that sibbject, and I am disposed to hope that the old misdirected surgical instinct (like that which does not prevont swallows flying against objects in their was) has been so far modified by recent knomledge and expe-
rience that operation for this affection has now become what it never Was formerly, not only a justifiable proceediag, but one which the Caie has a right to look for in the interest of future gencrations.
But I have already bad a good deal to say on this matter elserhere, and will now only add that the evidence of the last few years is largely in favour of some operative procednre, and that deaths from strangulated bernie ought iu time to be almost nnknown.
Let us now proceed to consider bow the surgeon is to "make the patient, the attendants, and externals co-operate." With regard to the first point, the great thing is to keep onr pationt in a good humour, especiallv if any operation has to be done, not mentally only but plyssically. His stomach, liis kidneys, and other working gear must be put into as favodurable a condition as the circomstances will permit, as everybody knows.
The second object is an important one. Ilowever much may defiend on the skill of the surgeon, his efforts may be entirely frustrated hy
an officious nurse or an ionorant but wiling fried an officious nurse or an ignorant but willing friend. Let him take
caire, therefore to caie, therefore, to ascertain for himself that the sttendant is one on Whom he.can safely rely. Trained nurses are very mnch like trained medicsl men, some are excellently practical, while others are uselessty
asthetical NI arsthetical. NInny of the best surgical nurses are ill-fitted for a tedious
medical case, and vice rersat. It is a great adrant medical case, and vice versa. It is a great advantage to have a norse
well acquainted with one's foibles, who knows by a sort of surgical instinct what to do and when to do it, and does not irritato the operator by fussiness on the one hand or a listless inertness on the other. There are plenty such, and a great comfort it is to hario them.
How much deperids on the "externals !" The experience of recent
yara has caused ani entire change in the ideas shich fore jeara has caused an entire change in the ideas which formerly pre-
vailed with regard vained with regard to a patient's surroundings. In ancient as in
modern times tbe most salubrious sites were chosen for hospitals and yet the internal sanitary arrangements were such as to bring about the rery evils they were intended to overcome. I will not weary you by reiterating the defects of old buildings inten ded for the
sick; they are now well known sick; they are now well known ; bnt I wonld refer to the necessity
which still exists for the surgeon to ascertain for himself the which still exists for the surgeon to ascertain for himself the sanitary condition of any house or institution in which his surgical patient is placed, possibly operated upon.
His surgical instinct
His surgieal instinct will help him here, very much as it helps as dignity to see for himself that the drainage is right; that thereart ho direct communications between soil-pipes and lavatories and snch like within the house ; that no middens or other such objectionable accumulations lie under his patient's window ; that the ventilation of the roou is good, without draught; that, if ueedful, the room is fumigated, wbitewashed, and so on, before his patient enters it; and that no contagious illness has previously existed in the place. The slightest hint of erysipelas, of blood-poisoning, tetanus, or obscure conditions euphemistically termed "low fover," ought to put the observer on his guard at once. I am quite sure sufficient attention-personal attention those surgeons who can boast of the most successful work make it sine quat non to satisfy theruselves on this rital question. That we all need this reminder is evidenced by circumstances within my knowledge, where a first-rate surgeon actually performed a capital operation in a room which was appropriated primarily and principally to a water-closet and a lavatory basin, from which the waste-pipe ran directly on to a not over clean grid immetiately below
And a painful case occurred to myself some time ago, which also indicates the need for circumspection. I was called apon to amputate the breast of the wife of a farmer whose house I had never visited. I made sure of a good nurse, and a reliable ascistant, who thoronghly understood Lister's antiseptic spray treatment, with which we went
fnily oquipped. On alproacli good one, to my horror and consternation a certain well-known malodorous exhalation led me to exclaim, "Surely this mnst be a serrage farm !" and, having ascertained this to be the fact, I hesitated abont operating with such precious "externals:" but a blind faith then in listerisu made me hold; with every minute detail most implicitly and specially observed, my nnfortunate patient the next day gave evidences of my temerity in a high temperature, an oily serous exndation from the wound, and, in short, every indication of septicemic
mischief, which culmian conralescence. That this mas attributable to the state of the atmosplere surrounding my patient I have no doubt whaterer.
It tanght me tro lessons: oue never to operate if possible withont Kuowing the sanitary state of the residerce, and the other to shake my kuowing the sanitary state of wost afraid to enter on this question, but
faith in Listerism. I am aluort ant
must say a for words abont it. How did the foul atmosphere affect
my patient! dccording to Listerian doctrimes, such an effoct was im possiblo. But it occurred, nevertheless, and to my mind it affords a clue to some important considerations in coanection with this subject. IV all koow that Lister's theory is based on the principle that to produce morbid results after an operation or a brcach of surface germe of some kind must find an entranco; and the object of his practice is to keup out if possible, or to reader inert, any such morbilic bodies. But I havo loag thought, and anm now very much inclined to agrce with Sir Ileury Roscoe (Address, Brit. Assoc., Msnchester, 1887) when he says: "Present research points to the conclusion that the microscopist must give way to the chemist, and that it is by chenical rather than by biological iuvestigutions that the canses of diseases will bo discovered and the power of removing them obtained." I do not thiok aufficient regard bas beeu had to the influence of ptomaines, which must be far greater than that of mere germs, and which havo been proved capable of producing their specific poisonous effects "in catiro abscace of living organisms." Take, for example, yeast, in itself inert, and so far as 1 know quite harmless in a woand; but place it in some saccharine solution, and you get an active poison (alcohol) epeedily developod. Aro there not analogous conditions of the blood or fluids of our own body in which, when a certain germ is introduced, poisonous ptowaines are developel which excrt an influeace which the germ itsolf was quite powerless to effect? Given a certain condition of the hody, whether due to influences from within or surroundings without, and the introduction of a certain kind of germ immediately leads to auch changes in the state of the pabulum as to create a poisonous pro. duct. Take, for example, a case of osteomyelitis. We often wonder why, in a case of this kind, in which there has been no contact with outer air or any outside germs, we should have priemia, porbaps septicremis, set up. Now, we know how subtle must be some of the agents which sffect us in this world. Evon Dr. Dallinger has not yet discovercel the size or shape of an atom of scent. But let a minute portion of some substances be inhaled only, and you will find evidences of their having passed into the organism. If we assume, therefore, that a quiet process of living death is going on in the bone nirrrow, so long as it is permittel to go on quietly no harm results ; wo know this olten goes on for months, or perhaps years, unsuspected even ; but so soon as certain prolucts to which the body may be exposed find access to the part through the blood, then I imagine tbat change takes alace which enables the micrococeus ta set up its poisonous fermentative action, sud the result iy soon manifested in the develop. ment of the ordinary symptoms of septicremia. It is not necessary for the hacilli or other organisuns to fiad their way in; they arc probably there already; but only for that special poison in the presence of which they can do evil to find access to them. Therefore, it is quite as inportant to see that the conditions under which organic germs can work are absent as to trouble quite so much about the organisms themselves. Antiseptics will do much, but common senso will do more to offect this in dealing with wounds. The latter being a not orer-abundat commodity, it is as well perhaps for the majority of us to ase antiscptics in our work, notwithstanding what may be argued in favour of their abolition. The perfect surgeon has not been ovolrod yot, and until be is I cortainly adrocate the use of those antiseptics which are best adlapted for indivilual cases.

At this point, whenever anything surgical has to bo done, surgical instinct will show itself in strict attention to minute details. A careful preliminary examination is made-under an anesthetic, if necessary; nothing is taken for granted, and the course of procceding determined upat. The surgeon must have brains in the tips of his fingers as weth ay in his organs of sense, givo definito instructions to bis nurses and his assistants beforehand, so that his eponges may be properly prepared, silk ligatures proviously boilod, instruments faultlessly clean and metholically arranged; the patient's aurroundings in accordance with directions given as to bed, temperature, ligbt, and
accessories. No detail ought to be too trivial to have his attention; accessories. No detail ought to be too trivial to have his attention;
it is the completencss of lis prelimioaries which goes far to ensure it is the completencss of his prelimioaries which goes far to onsure
success. In the caso of hospital aurses it is useful to have defiaite rules drawn op, so that each one may know ber duty, more especially in abdominal surgery, when everythiog should go on lika elockwork, and as silently.

In the method of dressing wounds I beliere we shall revert to the eimplest, of which none is better than scorched lint. Some of the best resulta in my practice have followed its use. Gangee tissue is er. tremely osefnl for almost all piurposes, though more coufortablo often when reverse.l. Much is said about ilrainage, and a recent writer (Profussor Turazza, Lancet, vol. i, 1887, p. 94') endeavours to show that it is altogether a mistake. It may be so in his country, but I think not bere. Dramage-tubes need discrianination in their use, far beyond the pedantic dsily shortening of some surgeons. The
sooner the tube is remored the better-at any rate in private practice and I ususilly take it out at the end of twenty four or thirty-gix hours after it has served its purpose of drsining away the first effusion. Chassaignac has immortalised himself by its invention, though it was devised originally for sinuses and such like. There is a small point regarding silver sutures I may mention, which is very useful ; and that is, as soon as tension occurs, to nick them through. They maintain a sufficient hold, and need not be removed until nnion is firm. Many wounds are torn open in removing them too soon, because they cat, as they will sometiones in the best-rcgulatedsurgical clinigucs. Then, again, in the after-treatment of his cases, there is a tendoncy Dow for our sorgeon to revert to the practice of many years ago. The simplest possible dict takes the place of repletion and blecding, the use of purgatives after abdominal oplerations superseding opium and aromatica. On this point Abernetliy wrote (On the Constilutional Origin of Diseases, $\mathrm{r}, 13$ ): "In many instances opium will not provent continual efforts to romit ; yet when, by sulphate of magDesia, etc., stools are procured, vomiting cesses, the stomach retains both food and me. dicine, and general tranquillity of constitution is as suddenly restored." This accords with the most recent opinions on the subject of abdominal operations by Lawson Tait and others, and the view is commonly expressed that those patients who vomit freely after an abdominal section make more rapid and more certain recoverics. Tho most striking results obtained by the modern surgeon are the rapid healing of wounds and the larger proportion who recover. It is usually safe, for example, to promise a patient whose breast bas been removed in private practice that she shall be quite well in a week, and I have hore some extracts taken at random from my notes of such cases which show that four or five days often suffice for such rounds entirely to beal.
Extract from Notes of Ercast Cases in Privalc Practice.-1. Miss B., aged 40, bad Ebroma of breast removed, with large part of mammary gland, November 17th, 1885. Wbale-tendog ligaturcs, wire sintures, and sublimate gauze dressings and drainage-tube. 18th. Removed tube. 21st (4th day). Took out all sutures ; wound perfectly uvitod, without a drop of pus. Quite well.-2. Mrs. M. C., aged 41, on October 16th, 1883, had larga fibrocystic tumour of breast removed, weighing s pound, and involving a long incision. Catgut ligatures, silkworne gat sutures, eucalyptus gauze dressings and drain-age-tube. 18th. Tube removed. 21 ist (fifth day). All sutures removed. Quite well ; no further dreasings.-3. Mrs. M., aged 42 removed entire breast for scirrhus, September 26th, 1887. Wire sutures, catgnt ligatures, alembroth gauze dressings. Tube removed nert day. On October 1st (five days) perfectly well ; all sutures removed. No further dressing.
Among such casos I bave no death to record in private practice, and I find there have now been forty consecutive breast amputations at the North Staffordshire Infirmary without a death.
In looking over notes of operations in the old days of unhealthy bospitals, one is struck by two significant facts; the patient's record is eitber a very long or a very short ono; or, in other words, a large number quickly succumbed to the erit influences around them, while those who did recover had a long and oftentimes bard strugglo for life. To show what a change has taken place, I bave collected some etatistics of our own North Staffordshire Infirmary, and eome which have been published as typical by Sir J. Lister.

Sir Joseph Lister has given the atatistics of deatha from larger amputations in the Glasgow Royal Infirmary, before and after the introduction of his antiseptic treatment. Here are the figures: For the two jears, 1864 and 1866 (old style), total amputations, 35 ; deaths, 16 i mortality rate, 47.70 per cont. For the years 1867,1808 and 1869 (Listerian), 40 amputations ; deaths, 6 ; mortality rate, 15.00 fer cent. And in 1879 the same surgeon published the results of 80 amputationa performed at the Edinburgh Royal Infirmary, under his own mothod, of which 16 ouly were for injury, the other 64 for disease; 80 amputations: deaths, 3 ; mortality rate, 11.2 per cent.

I think, howcver, the figures I am about to give from the records of the NorthStaffordshire Infirmary will convince you thatother modes of treatment are even better. The old infirmary at Hanley was a much patched up building, containing about 130 beds, with nearly all the defects of insufficient cubic space and sanitary arraagements of such institutions built seventy years ago. The only redeeming foature was its open situation. In 186!, this building was abandoned on the opening of the new infirmary at Ifaitahill, built to hold about 190 patients; and the addition of detached wards for children and for ovarian cases has incroased the number of beds to 212, of which a large proportion are usually filled. The Listerian period began in 1871, and was contipued with more or less strictness up to 1881. It was theagradnally relinquished, and for the last four or fire years has been used only
in anch operations as osteotomy and some excisiens. Now, so far as the spray is concerucd, it is not employed at all, or only as an offen. sive instead of a defensive weapon. I have been obliged to take for our purpose the figures given in those years which contain the best kept records-some arc defective-but they are taken irregularly for no other reason. They represent, I think, faitly the periods for which they are given.

Major Operations Performed at the North Staffordshire Infirmary During Five Years.


Tutal fur 5 years:-Cases, 95 ; Deaths, $14=14.13$ per cent.

Major Oicrations Performed at the North Staffordshire Infirmary During Five I'ears.


Total for 5 Years:-Cases, 119 ; Deaths, $20=10$. SO jer cent.
${ }^{1}$ A-Burns. B-Comp. Fract. Tib. and Fih. and Femur. Comp. Com. Fract. Femur. D-
2A-Comp. Fract. J.eg. C- E-Comp. Conu. Fract. Tib. and Fibula sinist, and Fract. Femur. (i-Com. Fract. Tib, and Fib. B-Comp. Fract. Leg. D-Fueu. monia after Operation. F-Fyaluia. 11-Fract. Tib. Comp. Fract. Tib and Fib. 1-Gangrenc. J-Conup. Com. Fract. Tih. et Fib. K-Fract. Clavicle. Corup.Cous. Fract. Tib. et Fib.
${ }^{3}$ A-Comp. Commin. Fract. of Hand. B-Comp. Fract. Ulna and Rad., Fract. Fomur, Injury to spiue, Paralssis. C-Comp, liact. Humerus.

A- ancer of Mand.

Mojor Operalions Performed at the Iorth Skafiondstire Infirmary Inerinu Five lears.


Total for 5 years:-Cases, 136; Deathe, $94=1 \% .65$ per cent.
${ }^{1}$ A-Burns. B-Comp. Fract. Loth Legs. Amputation Left Kinee Joint and Rirbt Thigh. C-Ünnited Fracture. Tetanus.
${ }^{2}$ A-First, Syme's Ampatation, afterwards Amputation of Leg in consequence of sloughiug, Strumons. B-Comp. Commiu. Fract. C-Cotap. Fract. of Lez Lacerated Wound of Groin. D-Ulcer of Leg. E-Left Leg Blown OHt, Fract of Right Foot, Fract. of Sknli.
sa-Comp. Fract. of Right Arm, Commin. Fract. Right Leg, Laceration of Scrotum. B-Tetanus.
4-Malignant Disease.
Major Operations Performed at the North Stajurdshire Infirmary during Three Years.

| Operation. | 1579. |  | 1550. |  | 1851. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. of Cases. | Dicd. | No. of Cases. | Died. | No. of Cases. | Died. |
| Amputation Hip Joint ${ }^{1}$ |  | 1 | 01 | - | 10 | 1 |
| ", Thigh ${ }^{2}$, ${ }^{\text {a }}$ | 11 | 1 | $\underline{21}$ | - | 10 10 | 1 |
| " Leg, or both ${ }^{3}$.. | 11 | 1 |  | - | 2 |  |
| " Snklo Joint ${ }^{\text {Shoulder Joint }}$ | - | - | 1 | 1 | 1 | - |
| ", Arm ${ }^{\text {", }}$ A | - | - | 1 | - | 4 | - |
| " Forearm ${ }^{5}$ \# $\quad$. | 2 | - | s | 1 | 5 | - |
| Excision Hip Joint (Disease) ${ }^{6}$ | 3 | - | 7 | 3 | 1 | - |
| ", Kinee (Disease) . | - | - | 2 | - | - | - |
| ", Elbow (Mixed) .i. | 5 | - | 4 | - | 2 | - |
| " Up. or Low, Maxilla | 1 | - | $\cdots$ |  | $\cdots$ |  |
| " Shonlder Joint . | - | - | 2 | - | $\cdots$ |  |
| $\because$ Auklo Joint | - | - | - |  | 1 |  |
| " Wrist .. * | 5 | 1 | 16 | - | 13 |  |
| " Breast ${ }^{7}$.. ${ }^{\text {Pestis }}$. ${ }^{\text {a }}$ | 5 | 1 | 10 | - | 3 |  |
|  | $\stackrel{5}{5}$ | - | 8 | 2 | 19 | 1 |
| Amputation 「enis $\quad$ - |  | - | 2 | - | 1 |  |
| Amputation Tonguc :. | $\stackrel{1}{2}$ | - | - | - | 1 |  |
| Radical Cure Hernia | 10 | - | 6 | - | 5 4 |  |
| Osteutomy ${ }^{9}$.. | - | - | 11 | - |  |  |
| Total . $\quad$ - | so | 4 | 97 | \% | 80 | 5 |

Total for 3 years :-Cases, 2 (3; Deaths, $10=6.03$ per centu
1 A-Shock, 17 hours. Euormons Sarcoma of Thigh, woman recently contined B-Shock, 12' hours. Compound Fracture, Railwsy Accident.
a A-Tubercular Meningitis a fortuight after. Wonnd nearly' well. B-
${ }_{3}$ A-Crnsh. Died in a fow hours from shock. B-Shock and previus expoo sure. Lived only a few hours after accident.
${ }^{4}$ Bronchitis, with secondary Cancer io Luugs.
${ }_{3}^{4}$ Bronchitis, with secondary Cancer iu Lunss. in a few hours.
6 A and B-Erysipelas. C-Einbolisu.

- Erysipelas following Abortiou.
- Peritonitis, all in Adults.

Q sepricumia. Patieut very unmanageatle

Major Operations performel at the North Stafiordshire＂Infirmary， during Three Vears．

| Operstion． | 1 ss ． |  | 1sis． |  | 1s57． |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Mo. or } \\ \text { Casce. } \end{gathered}$ | Died． | cors | Died． | $\begin{aligned} & \text { Mo of } \\ & \text { cases. } \end{aligned}$ | Died． |
| Amputation Mip Joont |  |  |  | ＝ |  | － |
| ，Le Ler or both ．． | ${ }_{5}^{5}$ | － | 5 | － | 5 |  |
|  | 1 | ב | 1 | ＝ | － | － |
|  | $\frac{1}{2}$ | 二 | $\frac{1}{3}$ | ＝ | 4 |  |
|  | $\stackrel{2}{2}$ | － | 1 | － | 3 | ＝ |
| Exisioa knee（Diseasc）$\quad$ A | $\stackrel{\square}{6}$ | － | $\stackrel{1}{2}$ | － | $i$ | － |
|  | 2 | － | － | ニ | 1 |  |
|  | $\underline{1}$ | ＝ | － | － | ＝ |  |
|  | － | － | － | Z | －3 | － |
|  | $\stackrel{3}{3}$ | － | 4 | － | $\stackrel{13}{1}$ |  |
| Lithütoms | $\stackrel{\square}{3}$ | Z | $\stackrel{4}{3}$ | 二 | ${ }_{3}$ | － |
|  | － | － | － | － | $\stackrel{s}{s}$ | 二 |
| Rasicnii Care of lleralaz Coteotumy | $\frac{1}{2}$ | － | $\stackrel{8}{8}$ | 1 | － | Z |
| Total ．． | 53 | 1 | 4 | 1 | 59 | 2 |

Total for 3 sears ：－Casce， 161 ；Deaths， $4=2.42$ per cent．
${ }^{1}$ A－Seplicemis present heforo operation．C－Other Leg also amputated for amain．B－For Gangrene with Septicemia dae to compond fracture week before adminstoth．
${ }^{3} \mathrm{~A}$－peritonltis．
Summary of Major Operations and Rate of Mortality during the Forrgoing Periods．

| Yersa inclusive）． | $\begin{aligned} & 185.4 \text { to } \\ & \text { l.s.8 } \\ & \text { (UH11 } \\ & \text { Intirmary) } \end{aligned}$ | $\begin{aligned} & 9850 \text { to } \\ & 18+3 \\ & \text { (1)14. } \\ & \text { Infiryary). } \end{aligned}$ | $\begin{gathered} 1 \mathrm{sie} \text { to } \\ \text { 1sit } \\ \text { (New } \\ \text { Intrmary). } \end{gathered}$ | $\begin{aligned} & 15.9 \text { to } \\ & \text { 1ssi } \\ & \text { (New } \\ & \text { lutirmary). } \end{aligned}$ | $\begin{gathered} 1585 \text { to } \\ \text { 3ssi } \\ \text { (New } \\ \text { Infinary). } \end{gathered}$ | 成 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tutal Number of upirations named in fure $\begin{gathered}\text { uing Tables }\end{gathered}$ |  |  |  |  |  |  |
|  | 35 | 11.0 | 130 | 963 | 101 | 59 |
| Deaths． | 14 | 20 | 24 | 13 | 1 | $\bigcirc$ |
| Rate of Jortalits per cent． | 14.73 | 10．50 | 17.65 | 6.08 | 2.42 | 3.39 |

If you will refer to the tables，you will obserse in the first two quin－ quennial periols，when the old building had been practically con－ nemne is unfit for its purpose，an avcrage mortality of $14 . i 3$ per cent． and 16.80 per cent．respectively．These are far better than most of thase poblished for that time．Then we come to the time immediately after entering the pew huilding，and wo get a mortality rate of 17.65 per eent．This was sufficiently blarming to cause an investigstion to ho made as to the cause．A contaminated mater supply，unventilated draios，aud othor lefects in the drainagoarrangements were discovered， aud partially remedjed．This，no doubt，led to the more favonrable liguras we get for 1879．81： 6.08 ner cent．But eases of selticemia oc－ casionally occurrred and other indicatious nointed to the conclusson that all was not yet right．After aome demur，the Committee sanctioned fur－ ther improvements，by having overy wasto pipe disconnectect，closet． pans ventilated，and，in fact，all that we anked for；and the result of this is found in the figures for tho last threo years since the work was done．A mortality of 2.42 per cont．，in 161 cases，for three years major shrgery，with a full proportion of cases of injury included in them，is the gratifying reward for the large outlay involved．This staternent is one of the most satisfactory ever recorded for an aggregate of such cares．Wo can all select favourable jears with a run of good fortune，as for example，in 1885 and 1886，ishen there prete 32 major suputations，about cepually divided for injury and disease，with only ono death．13ut，if wa take the two last scrics of 1890.81 aod 1855.87 as representing our rocent work，wo find： 97 amputations， 8 dcaths； 57 amputations， 3 deaths．In six yearz， 154 amputations and 11 deaths．Mortality， 7.14 per cent．－s record of which no lioapital need be ashamed．

It is abundantly clear that，howeser fine a building may be in its
arrangements for cubic spaco and geberal comfort aud convenionce，it a rails little so long as the drainage aystern is wrong；in this as in many things，we know more than we did a few years ago，and it is well for the community when an enlightened committes will aecond the efforts of the modical staff，as our Committee has iavariably dome． Were it otberwise，I should have a very different story to relate to you to day．
Tho surgeon onght to ho ablo to speak with authority，and he will best do that who can speak from his own koowledge．We are often asked about watering places，voyages，and special articles of food and drink；and the surgeon will derive great ailrantage from gaining ex－ pericuce in all these os for as lie cad in his own corpus vile；only in doing so I would advise him not to do as I once did at a fanous foreign health－resort，drink of every spring in the place，and then go home to breakfast．He may wish he had uot．
Then as to different elimates．There is a tendency to send everybody to the South，whereas quite as often as not it is a bracing，dry air which is most needed，not a warm，relaxing one．Too often，fashionable and otherwise attractiro places have soms great drawhack which is care－ fully concesled in guide－bonks，and cau only bo discorerod by one＇s own personal obervation．Therefore it is well to visit all the pleasant resorts he can，to make trial conscientiously ol eversthing about which he is pretty sure to be asked；but haring done so，let the surgcon be－ ware of putting his opinion into writiog，or he may find himself macio famous in a way he never interded in the pages of some advertising medinm．So with regard to clothing．Here tho married man has an advantage over the bschelor，whose knowrledge of infantile and feminine garments is nsually secondhand，and his advica of little use． It is well to note how auscep tible to cold convalescents，especially children，usually are，and need advice accardingly．

It is an amazing thing how persons ordinarily gifted with common gense and good judgroent are led away by some specious form of ham－ bug，in the shape of a lapsed surgical instinct，such as that of bone－ setters，el hoc genus omne．The death of one of these notahle characters gave rise not long ago to some ridiculous articles in the daily press．Everyone of us is well aware in what the strength of these quacks lies，and there is no reasonable doubt that in some cases of stiff joints and such like，their rough methods succeed where others have failed．But hor manny of their failures do we hear of？Where do we find recorded the histories of inflamed joints，of permaneatly injured limbs which aro not infrequently the outcome of their attempts to cure？I know of one instance where the ligamentum teres was torn completely througl，and the patiout lamed for life，by one of them．
It is too often forgotten that in the case of a surgeon who honestlg and rightly makes a forcible attempt to overcome an old standing ankylosis or similar condition，and sets up thercby acuto mischief，he is very naturally condemned by the patient and the friends for having mada matters worse；whereas，in the case of the bonesatter such a result is lookod upon only as an accidental failure in what is recognisad by an ignorant clientilc as his legitimato aphere．
No men，I imagine，belongiag to any profession，have been the sobject of so much popular ignoranse，and the objeets of such ssr－ castic attacks at the hands of popular writers as znedical men， although I gladly acknowledge that wo are greatly indebted to some． of the most powerful hiterary organs for fair and generous treatment． Tako，for instance that wratched caricature of＂Heart and Science＂ written by an author who is supposed to know what he writes sbout． I do not hesitate to say there！never was written in a norel a more vile representation of a molorn scientifie physiologist．Morbid senti－ mentality（which ho is pleased to eall＂heart，＂forsooth ！）is raised upon a pedestal for admiration，while the＂science＂．of the adranced physiologist，simply becauso based unon virisection，is reduced to the level of simplo indulgence iu brutal experiments．Such fictions as theso may be all very fine for the edification of our yongg raen and womon，but we haro a right to expect that an educated onthor will at least refrain from introducing such rubbish by a preface declaring their foundation in fact．We may very well，however，with our tried friend， Punch：－
feave aham humantty its lies， And cry Got sjueed to nıcn of lieallog．

I do not auppose for a moment that my experience of more than a quarter of a contury＇s renponsiblo hard work at practical surgery differs much，if at all，frsm that of other surgeons who have enjoyed similar opportunities，an I tho lesson I have learned and rould impress on thoso who have not je：मassed throngh such an ordeal is this－do to your patient as you woull be dono to yourself ；make up your minal as to the conrse to purs ie，then act as quickly，as safely，ond ss plea－
santly for the patient ss your surgical instincts impel you. Let his or her welfare be paramount. Allow no golden apples like those of Hippomenes to hinder you in your course of duty. Remember how Atalsnta lost the race, and let not such a fate be jours.
Gentlemen, we cannot stand still. The world will not wait for us, and whether wo will or no, we must go onward. I deroutly hope that our course may be at the same time upward.

## ABSTRACT OF AN ADDRESS <br> THE MEDICAL STUDENT AND HIS ENVIRONMENT: <br> Delivered beforc the Ilarveian Society, January 19th, 1SSS: By EDMUND OWEN, F.R.C.S., <br> Retiring President.

One subject on which I wish to speak is that of medical education. If it be asked how this can interest the Harveian Society, I shall urge that every question concerns this Society which affects the welfare of our profession. Similarly it might have been questioned trenty years or so ago, what has this Society to do with so outlying a subject as that of baby-farming? But our Society not only interested itself in that matter, but instituted an inquiry upon it, and issued a report theroon, which went a long way towards the passing of a Bill in Parliament by which a scandalous waste of infant-life was, if not entirely done a way with, at least brought within comparatively narrow limits. Honour to whom honour is due. Let us not forget that the two members to whom not only our own thanks, but also those of the whole State, were chiefly due are Messrs. Ernest Hart and Curgenven.

In this age of specialism the student is tanght that there are special centres for almost every operation and function throughout the economy, a centro for heat, another for respirstion, and one for micturition. It may bo thst this is all corrcct, and that its accoptauce will be co-existent with the soience itself. Certainly it is correct at present, at least, as a subject matter for cexamination purposes, and as affording a good working hypothesis. But it is quite within the range of possibilitios that, before another generation is set to work, the entire scieuce of plysiology will have to be rewritten in the light of fresh acquirements, and with entire disregard of such centres.
Froude truly says, "Philosophical belief st the bottom means a 'perhaps' snd nothing more" ; nevertheless, we are teaching it as if we were assured of its being truth itself. Thus I have heard it urged by an enthusiastic apostle of science that Haeckel's interesting work should be atraightway constituted the recognised authority upon the history of creation, and that a knowledge of it slould be rendered compulsory in every student of art and science. Let it be read and enjoyed by all means, but at tho same time let us remember the words which its translator uses in another place (Dcgencration, by E. Ray Lankoster, M.A.): "In everyday life we have often to be content without fully testing the truth of our ,gnesses, and hurry into action based on such unverifed suppositions."
Twenty-five years ago physiology, as taught in our medical schools, was not wortliy of the name of science; now she has developed into a subject of vast importance, and anatomy has had to make way for her. ljat I think that physiology has now raised herself to fully her proper position as a subject in the education and examinations of the ordinary medical student. The average student wishes to qualify hiunself as a trustworthy practitioner of medicine and surgery, not merely as a man of science. But rith this increasing intellectual pressure the stadent of to day is himself somewhat changed. In obedience to a natural Iam the individual student has adapted himself to the enviroument. The medical student of 'to-day is, by his previous education and by intellectual development, vastly superior to his homologue of a few generations back, and to what he was as I first knew him twenty-five years sgo.
The medical student of to day is crammed with a store of teaching which would do crodit to a nineteonth century Solomon. He is ex pected to know a good deal about most branches of natural science, from the coniferx-I mould gay, but for some reason it does not happen to be "officinal" - from the cedar of Lebanon to the bacillus that grows on the wall of the tubercular cavity; and yet, with all this, the day still contains but twenty four hours, and the average weight of the
humsn brain has not perceptiblyincreased. His studies err in the way of diffiseness, and he does not know how much or how little will be eventally required of him-unless, perchance, ho has had the sdvantage of attending the special conrse of instruction by the gentleman who is going to examine him. His examinations ought, therefore, to he conducted on the broadest lines and in the most liberal spirit. Unfortunately, be is not sufficiently left alone at his work. It is a case of lecture and demonstration, demonstration and lecture all day long, and sometimes in preparation for examinations, which are a test of cram rather than of knowledge.
There are several matters in which the environment has, however, recently been endcarouring to adapt itself to the student, in esch case with the best intentions ; but in esch case with unfortnnate results, at least in my opinion. Its method of procedure seems spasmodic snd specalative. First, in the praisemorthy endeavour to insure that a student works in his first summer-a part of the year which in my time was chiefly dedicated to cricket and outdoor amusements gene-rally-the powers that bo have instituted a compulsory examination in materia medica and chemistry, which is held at the end of the first July. The idea of this first summer examination is excellent, if only the men rould pass it. Bat, as a matter of fact, they do not; and the result is that, at the beginning of the second winter session, when they ought all to be settling down to the important work of the dis-secting-room and the physiological laboratory, they are frittering sway golden time over flowering tops and sliced corns, over test tabes and sulphuretted hydrogen. The occupation is harmless in itself, I have no doubt ; but it amounts to little less than a crime when it is carried on at such a time.

If the men who have failed at this summer examinstion start rork in October on the studies proper to that season, they do it in an uneasy, half-hearted way.

I sincerely beliere that a kuowledge of materia medica and chemistry is of the greatest advantage to ns sll, but I grestly regret that the medical student should be submitted to the risk of having his entire career wrecked over an sttempt to acquire it. Yet so it is. And I therefore take this opportnnity of urging that the requirements in these subjects be reduced to the minimum, snd that the student be compelled to pass the examination in them before being registered at a medical school. This semi-professional examination would then be a boon to the medical student, for it would set him free for his proper school work; to his parents and guardians it would he a sort of test for his fitness for the profession which blind chauce or stern necessity seems to have chosen for him; to the teachers of physiologs and anstomy the change rould be most hlessed.
Another "adsptation" is that by which the student is permitted to break up the subject matter of his various examinations into small fragments. Chemistry now, materia medica later; anatomy without physiology ; surgery divorced from medicine, and medicino from obstetrics. There is one particular in which, with all respect I say it, this new system is directly productive of harm to medical cducation. I refer to the power which the candidate now possesses of passing his examination in physiology when he is absolutely ignorant of anatomy, and vice versd. The fallacy, it seems to $m e_{1}$ is abundantly manifest, but to make it ahsurdly clear let me cite an instance that occurred. only last week. A candidate was asked by an examiner in physiology a simple question, the answer to which involved an elementary knowledge of the brain. Thereon the candidate politely informed the examiner that he did not know anything abont the anatomy of the brain, that he was "only up for physiology" on that accasion.
There is an excellent way, it appears to me, of escaping from the dilemms without injustice to the student, and that is by issuing a syllabus of those physiological functions aud processes in which a sound practical knowledge will be required. Better a sonnd know-? ledge in a dozen of the chief physiological functions than what I will call an official minimum thinly spread over the entire science.
Before ending my remarks upon medical education, I feel it my duty to lay baro before you what I consider to be the most heartless regulation of modern days. It has been issued by the University of Loudon. After that terrible ordeal of the Preliminary Scientific Examination, there comes another of only slightly diminished rigour in anatomy, physiology, materia medica and organic chemistry. At the July holding of this examination, when the weather is apt to be bot and sultry, and the examiners would fain he getting away, they find their labours shortened for then in a most delightfnl manner, but entirely at the expeuse of the nnhappy candidates. Formerly, those who had succeeded in passing the examination, and had sufficient energy left, were allowed to enter the lists for honours. But the Senate has recently enacted as follows :-
Every eandidate for the vuly examiuation, on sendius in has name for the
examinatioo, muat st ate whet her he latedis to compete for hooours in any sub. ject or abbjectas ; and, if he duss so latend, nust specify the nubject or subjucts. A candidste Wian euters for, but faila to oblain, houours in any onlject, may be recummeaded by the examaers for a past fa that subject, if they are watislled that he has ahowa such a e mpotent kituledgu theroof as la required by tho regulatious for the pasy oxaminatloo.
That is to say, that if a young fellor thinks that bo knows ouough organie chomistry to warrant his aspiring for houours in that subject, and happens to have over-estimated his attainments by but a fow degroos, ho not ooly fails to obtain those houours (whieh must now look rery ompty; Ishould think), but he eveu fails to get a passplace. Ion notice that the rexulation sajs that tho examiners may recommend him for a pass in that subject. But, for my own part, I would have littlo belief in the tender mercies of a gentleman who conld, without a murnut, mako bimself a party to such a schome. Moreover, a fout-note to the regulation honestly hints that when the weather is hot aud sultry, Burliugton Mouso is no place for rest and grateful shado. Here is the foot-noto:-
Gudidetes must besr in mind that the standard of staiansent for the hoonors examiustion la much higher than that for the pass examination ; ond they should, therefore, excreiso doe caution in uaking thelr choiec.
Of course they should be caroful! But it is hardly necessary for the Senate to tell the student that it is moch moro difficult to attain to a piss staudard in an hooours paper than in a pass paper. "Every achoolboy" actually does koow thar.
To call an institution which could elaborato such refinement of unkindness, alma mater, is to misspply two swoet words. Let us rather eall her injusta noverca, for sho 19 still the stony wearted stepmother of our studout days. Aud this, be it remembered, is the ouly institution through which Landon students can at present obtain a degreo in madicine.

## ON ONE IIUNDRED CONSECUTIVE CASES OF CATA. ract, Mature and mmaturf, treated BY INTRAOCULAR INJECTION. ${ }^{2}$ <br> By W. A. MckeOlfn, M.D., <br> Surgeon to the Uister Lege, Ear, and Throat Hospital, Belfast.

Tae question of intra ocular injection in the extraction of cataraet, broughe by me before the profession in 1881, has occupied so much attention, particularly on the Continent, that I embrace the opportunity now presented of stating my views and my most recent experience before the representatives of oplathalmology of various nationalities.
From the time I began the practice in 1884 till the present time, I have used intra-ocnlar injection in every case in which it was indicated. I have followed generally tho lines laid down in my address to the Ophthalmological section at Belfast in 1884. Dy views at that time are my views now. I have proceeded cautiously step by step, operating on cataracts less and less matare, uatil I have reachod the practical point of extracting loases which are sufficiently clear to admit of patients gring safely abont, but presenting too moch opacity to enable them to follow their occupations. I cousider it a blemish on ophthalmic surgery that patients with opacities of the lens requiring vers many years to develop to anytaing like maturity, as hitherto unelerstood, shoulel be obliged to go about doing nothiog, losing health, strength, sjirit, and, if without means or helping friends, to become inmates of workhouses or privato charitable insti. tutions.

I purpose now prosenting to you the statistics of the last 100 operations for cataract, of nll ces rees of maturity and immatarity, in which I nsed intra-ocular injection, and I rould remind you that jou lave no analogous statistics. There is a largo number of eases of striatod cortex with clear triagles interspereed, and of cases in which the surgeon could see more or less the det tils of tho fundus. All these would be rejected by the surgeon practising ordinary methods as unsuitablo for operation.

Of the 100 cases thore were 81 eases of idiopathic catarast uncom. rlicated, 5 complicated by affections of the eyo or its appondages, and 14 tranmatic. Of tho 81,13 patients before operation could seo to go abont, and conld connt fingers from two to fifteen feet, but hall not been ablo to work for a considerablo period, and the findus conld bo seen with more or less distinctnesa; 9 had striated cortex with tringoular areas transparent; makioy in all 22 of various degrees of immaturity. In tho 81 cases there were 8 escapes of vitrenus, all ${ }^{1}$ Kead ia tbu section of Ophthatmology at the sumul Mectiag of the Lritish Medica! Assochation haid ia Uublio, Auginst, 15 s\% $^{\circ}$.
slight but one, and of these only 2 occurred dusing injectiou. Tho proportion of escapos of vitroous, though a little moro than usual, has, theroloro, no boaring ou iutra-acular injection. As to tho sequences of the 81 operations, there were:
. One case of panophthalinitis occurring threo weeks aftor opera. tion. On the sixth dsy I opoucd the eye, expecting everything right, there haviog been no complaint. I found vitreous projecting in weund enclosed in unruptured hyaloid mombrane. Bandage for two weeks having been contiuucd without material improrement, I cut off projecting vitreous; panophthalmitis supervened. The operation had boen perfect in overy respect, and I think the prolapse occurred from some injury to the eyo.
2. Three cases of pretty severe iritis; fair vision still remaining, and capable of improvement. One counts fingers at four fect, another at one foot, and another at six inches. The first was owing probably to syphilis and rheumatism, and the other two to impaction of iris in ayglo of wound.
3. Three cases of irido-cyclitis aud choroiditis, $a$. One in case of patient (in whom double extraction was performed) who would not allow bandage to remain on for six days after operation. Fortunately only one eye suffered, and when he left hespital the oyo was quiet and field good. $b$. Another in case of old congenital cataract with thickeued capsule in mau, agou 30. Removed thickened capsule with forceps; vitreous began to come; used scoop syringo, as I hare sometimes done successfully in escape of vitreous, but in this instance was obliged to leare considerable part of lens bohind. An iritis with a nodule of pus and inflammation of ciliary region developed after some weeks. Made a seetion; removed remains of lens with syringe with complete relief. Saw him lately, when I found ogo perfectly quiet, perception of light good, and tension normal ; but as other aye, also operated on, had good vision, I did not propose further operation. c. The third iu case of man, aged 70 , very nervous, and aecustomed to stimulants in the morning, as I learned aftersards. Operation normal. On sixth day wound unhealthy, showing a slight feeus of infiltration at one part of cornea, and a little pus in antericr chamber. Iris became invelved; no pain. Treated by stimulants and hot steeping. Field of vision good, and conld seo bulk when I saw him a month ago. I have not seen him since, and cannot give furt er partieulars.

Haring entered into theso details regardiug the robole, 81 cases, I shall refer in particular to the 13 very unripa eataracts.
Case 1.-Female, 65. (Counts fiugers at 2 feet before operatiou); after operation reads 0.5 at 8 inches with +18 D.S.

Case ni.-Male, 63. (Before operation counts fingers at 1 foot, pupil undilated); reads 0.8 at $S$ inches with +15 D.S. after operation. Case ini- - Female, 70. (Before operation counts fiugers at 15 feet); aft 3 r operation reads 0.5 at 7 inches with $+18 \mathrm{D} . \mathrm{S}$.

Case 1v.-Male, 61. Opacities in leas ill-defined, slight central haze of cornea; sees No. 3 So. at 4 iuches; can seo dise; oxtensive posterior staphyloma. After operatiou roals 2.25 Sn . at 4 inches with +16 D.S.

Case v.-Dale, 57. Refore operation counts figgors at 3 feet; after operation raads 1.75 with +18 DS .

Case Vr.-Male, 51. Able to go abjut. After operation, iritis. Syphilitic and rheumstic subjoct. After opration counts fingers at 4 feet; iridectomy indicated; other eje perlectly suceessful.

Case vir. - Male, 63. letoro uperation counts fingers at 2 foet, can see large part of fundus; after operation sees 0.5 at 5 inches with +18 D.S.
Case vin-Male, 55 . Sees 1.75 at 3 iuches, vary myopic alwass, vision sune for years, cau see fumlus; after operation sees 0.6 at 4 inches with +18 D.S.; will probably bo furthor improved by tearing eaprule. After tearing capsule he came to see 0.5 at abou: 10 inches with very weak convex glass.

Case ix.-Male, 61. Iridectomy performed by auother surgeon forr years ago, probably for simple glaucoma; alrays very myopic; small radiate opacities only ; can sie fundus. Alter operation ready 1.75 at 4 inches with +16 D.S. The vivion was only slightly ims: proved by operation; slight irritation and fluctustion of tension for a loug timo after operation ; slight haziuess of cornea.

Case x.-Male, 55 . Obligod to givo up rerk a jear ago ; left eye simply a central clouliness and somo periphoral streaks of opacity ; can see fundus. After operation seas 0.5 at 8 inches mith +18 D.S.
Case di.-Same pratient. Right eyo same condition; tiad he can read with great effort smallest typo, but could not see far off, which he required to do for his work, aud ho desired operation. After operation and subsequent reedligg of wriukled capsulo sces 05 at 8 inchos with +18 D.S.
Case dir. - Malo, 50. Not ahlo to work for four yeara, and vision stationary; can scefundus; superficia! raliato opasities. On injection
old syringe, whose piston $\pi$ ras too casy-is always enough. Sometimes two or three aro required; but it is probable, with the improved piston of the new syringe, the clearing out of the cortex may be more easily accomplished. Experience teaches the snregen what he can safely do. He should use injection at first in sases in which be is not likely to experience any difficnlty; then take np cases of striated cortex not far from being ripo; and, finally, cases of very slowly progressing cataract, such as those of which I have given particulars. In this wsy he will acquire confideace and the dexterity born of experience.
6. Allied to the question of force is that of the instrument to be used. One of the nost striking things about this question of intraocular injection is the number of instruments devised siace 1884. at first used the force of gravitation, and changed to injection. M. Wicherkiewicz uses the force of gravitation from his "undine," and the force may be considerable. M. Panas describes his instrument as follows: "L'ingtrument laveur du globe est analogne à an comptegoutte muni d' un tube en caontchouc durci. SL. de Wecker's consists of a body like a small sized esr speculum, the wide extremity being covered by india-rubber, and the small end having a silver terminal to introduce into the eye. He says: "C'est éridemment lo meilleur instrument de contrôle car la pulpe si sensible da doigt indicateur appliquée sur le tambour permet de régler avec la plus grande précision le degré de pression qu'on rent exercer pour introM. de Wecter iojecter dans la chambre antérieure.
M. de Wecker also points out as an advantage of his instrument the eye estimated and danger of suction is avoided, and the tengion of the eye estimated and regarded. It the tension is high, the small that the instrument shonld be so constructed and capable of exercisiog such force as to clear out the remains of the lens, withont regard to tension. The very small instruments, with small capacity, with tiny nozzles and small slits and holes in the sides and in front are insuff. cient to cope with ease with unripa cataract, but are doubtless usefnl in waghing out the anterior chamber and interior of the capsnle in ordinary operations. My instrument is so constructed as to field a free and broad flow regulated in its force by the finger on the piston, just as the force in M. de Wecker's instrument is regnlated by the inger on the iodia-rubber covering of his compte-goutte. The finger is just as delicate a regulator of force in one case as the other.
There are two bodies of syringe of different length many changes. nozzles of different lengths widths and forms to suit difierent various and sections of different position sod size. I have found that the syringe and nozzle hitherto in uss are unsuitable for the upper section in very prominent eyes, particulariy if the hand of the operator is short, and likewise for lower and for lateral sections. I have, therefore, provided short nozzles of various widths and lengths. The chief idea to he borne in mind is: that the various nozzles ara only the chanael for conreyance of the water power, and are not to be regarded agents for exercisiog the ordinary mechanical force of considered as terminals with a little ledge at the end, like that of Critchett's scoop, may bo used as scoops, but they are oaly meant by a bitto to and fro movement, snd not by a leverage action, to aid the remeval of masses scooped out cataract set in motion by the wate:. in cases requiri at each siue, is mesnt to break 7. Should iridectomy be performed? In one of my papers I stated that 1 considered iridectomy should be performed in all cases of intraocular injection. M. de Wecker peints out, however, that intra-ocnlar injection has a marked influence in causiag contraction of the iris, and therefore ensuring a greater immanaity from the old blot in the old flap operation-prolapsus of the iris. He adds to the beneficial effect by using a solution of eserine instead of plain water. He, however, congiders iridectony necessary in immature cataract. I entirely agreo with his view is to the regtriction of iridectomy, and now I always operate on cataracts, mature or nearly mature, in patients on whosa obedience to instructions reliance may to placed, withont iridectomy; but in veryimmature catarscts with indectomy. I do not now, as a sule, inject eserine into the eye, but instil it freely, as I have already stated. 3. General applicability of iutra.ocular iojection. A point which cannat be troo injection. It masy ho nsed in every sort of ertras of excent the extraction of the lens in its capsule ; for exsmplo, in the tlap operation, old or new, with or mithout inidectomy; in Graofe's oneration, in simple linear extraction, as a substitnte for the old spoon extraction sud tho suction operation. It may be applied in anripe idiopsthic cataract and naripe traumstic cataract. Its naiversal likely is forco to do harm, and the more it is regnired. I ans never troubled because of the quantity remaining after the nucleus is expelled. It is a mistake to snppose that one injection-at least by the
applicability is ono great feature. The gentle, moderste, sud diffused power of a tluid is substicuted for leverage instrumeuts and pressure outside the oje. It rejnvenates old mothods discarded, unsettlea old notions abont ripeness of eataracts, and brings us noarer the goal of the surgeon-to give speedy and effectusl relief to sufferers hitherto doomed by imperfect methods to loug years of delay and misfortune.

I do not wish to say that any one of all tho instruments devised for iotra-ocular injection is perfect. I wish to emphasise the method as that of the reutovsl of cortex by the foree of a lluid. The operation for eataraet is \& purely mechauical procedure, and I hopo that year by year we shall more and moro perfoct our sppliances, and thst all the instruments we bave hitherto devisod may be replaced by others giore offeetual, and thast by our labours to shail increase the snm of lmman Lappiness.

## ON TIIE AFTER-TREATMENT OF CATARACT AND OTIIER OPERATIVE CASES TO THE EKCLUSION OF DARK ROOMS, BANDAGES, Etc. <br> By SIMEON SNELL, M.R.C.S., <br> Ophthalmic Sargeon to tho Shemeld General InArmary, and to the fostitation for the Blind.

Wrics a new method of treatment has been adrocated, especially when at variance with the plans ususliy adoptod, it appears to we to be only fitting that he who is responsible for such advocacy should, at a subsequeut date, state whether or not further experience has confirmed his views. These are the reasons for my reading this brief comnunicatiou. For it mayy be recolleetod, by some at all events, that in an article in the Lancet nearly twelvo months sgo (September loth, 1556), I spoke iu high terms of a mode of treatiog cataract and other cases alter operation without the stereotyped bandages, dark rooms, cte. Iustauces of operation eases in support were recorded, and I said I was disposed to adont Chisholm's words, "From this cimes hence all bandages, compresses, aud dark rooms will be among the things of the past, to be remembered only for the discomfort they occasioned."
My subsequent experienco confirms all I stated in my first artiele. Tho plaster method hay now been used in my hands in forty-aight cataract extractions in hospital and private practice. and in over one hundred otber operations, including several for traunatic cataract, needliogs for congenital cataract, opaque capsule, iridectomics, sclerotnmies, and others. The stay in hospital of the cataract cascs has been shortened, and the comfort to the patients has been great. Those who bad previously undergone treatment under the old regime readily appreciated the nitered conditions of the new plan. The mode of eutting and applying the plaster recommended by me I have found very courenieut.

with Michel, was in Amorica the adrocate of this revolution in tho after-treatneent, has adranced beyond the position to which I alluded last year. Now he fuds elosing ono eye sufficient, and no longer requires the patient to take to bis bed; ho liee on a lounge, and retires at ordinary hed time, and dresses before breakfast in the morniag. "llis present practice is to troat the wound made in the extraction of cataract as if it were an ordinary corneal wound, such as we daily see resulting from accident." At the end of the first week the patient can be allowed the privilege of the entire house.

From tho frst in cases of operation for traumatie cataract, and in some iridectomies and sclerotomies, I have not alvaya seen the necessity of fastening up both eyes, and bed.has, aftor the day of oporation, been dispensed with. As far as cataract extractions aro concernod, there have appeared to mo to be advantages in eecuring both eyos, and I should rather hesitate to regard them merely as ordinary cos: neal wounds.

## ON THE OPERATIVE TREATMENT OF ZONULAR CATARACT. ${ }^{1}$ <br> By DAVID LITTLE, M.D. <br> Seulor Surgeon to the Royal Eye Hospital, Manchester ; Lecturer on Ophthalmology, Owens Colloge.

In bringing the subject of zonular catarset before you, it is my inten. tion to make a few remarks on the operative treatment, and I shall eonfine my observations chiefly to those cases of ordinary uncomplicated zonular cataraet in which there is no arrest in the development of the cye, no shrinking of the lens, and no vitreous opacity or deeper seated disease.
I may say at the ontset that I bave nothing new to offer in the way of operation, beyond ndvocating a method which I have found from experience to be the best for gaining good vision. It is this, that when destruction of the lens is decided upon, I recommend a free erueial rupture of the capsule with a needle, so ss to make tho whole lens opaque and more soft, and two or tbree daysafterwards to perform extraction by means of a Teale's suction instrument.
The disturbance of vision caused by zonular cataract depends altogether upon the extent and density of the oraque layer. If, on dilating the pupil, the zone is brosd and perfectly transparent, vision may be fairly good ; on the other hand, if the central opacity is great, considerable reduction of sight must exist.
My experience in the examination of the refraction in these cases is that some are emmetropic, a few only are hypermetropic, but tha great msjority are myopic. I never fail to test the vision before and after atropine, st the same using lenses to correct any defect in tho refraction.
In the case of very joung subjects whose vision eannot be accurately ascertained I post poae all interference for a time, unless it is quite manifest from tha extent of the opaeity that sight is bad. It is unon such an examination as this that I base my opinion for operative in. terference or otherwise.

1 recommend destruction of the lens in all cases that are found to be of a progressive character, also in non-progressive eases where vision equal to at least twenty-fiftieths is not obtainable, after dilating the pupil with atropine. I mould go further than this in exceptional cases, and say, if I found thast twenty-fiftieths was not suflicient sight for the requirements of the patient, and if he or she were between the ages of 10 snd 25 (which I consider the most favourable age for operstion), with perhaps some myopis, aud sll other conditions favourable, I would not hesitate to recommend extrsetion. When the lens, then, has to be deale with, there is the operation by solution. This is a tedious process, and I hardly ever adopt it in zonular cataract.
I have bean most satisfied with the suction operation. Having dilatel the pupil, I make a free rupture of the capsule across the pupil extending from margin to uasrgin ; a similar rent is made from abovo downwards, keeping the needle well in the anterior part of the lons. The cansule ie extensively ruptured in this way to cause its retraction well bohind the iris, and so avoid secondary operations; the needle should not penetrato too deeply for fear of rupturing the hya. loid or dialoeating the lens. A light bandage is placed over the eye, the patient is kept quiet, and atropine freely used to dilato the pupil. After two or three days, or more, aecording to the condition of the oye, extraction is performed by a Teale a suction curette. This is accomplished by making an incision in the outer part of the cornea, halfway between the limbus and centre, with a double cutting edged needle from 3 to 4 millimetres brosd. Throngh this wound the curetto

[^16]with very few cases of iritis. The resulting vision had heen in the majority of cases very good. -MIr. Berry had seen three cases performed by Dr. DlcKeown, and mast admit that his method was fairly efficient as far as the removal of cortex, which might otherwise give rise to difficulty, was concerned ; but as it produced not a little irrita. tion he (the speaker) had not adopted it nntil more experience had been accumulated. With regard to Dr. Little's excellent paper it was interesting to find that Dr. Little nsed suction. He (the speaker) had always found linear extraction, which mnst, however, be done by means of a sufficiently large incision, 4 to 5 millimètres, practically in every way efficient.-Mr. Mchardy considered that, having regard to the published analyses of the water supplied by the various London companies, Dr. Jicheown's "pamping procceding" mast he franght accustomed to utilise the aqueous humonr as a solvent for any remaining cortex; this was rapidly resecreted after its escape, and il the eye he closed for a few minntes after the escape of the nuclens, the ad. mixture of aquenns with the corter materially facilitates its removal by friction. In the cases of immatnre cataract in which operation was indicated he adopted Förster's plan of artificial maturation. -
Mr. Priestley Surth thought that Dr Chisholm's claim had introduced a novel method, which wonld revolutionise practice, went beyond the merits of the case. His friend Mr. Hodges would bear him ont in saying that at the Birmingham Eye Hospital, fifteen years ago, closing the lids with strips of black conrt plaster, without pad or handage, was a favonrite method of dressing cataract operait in glaucoma iridectomies. It was, he bolieved, a very old line of practice. In using adhesive plaster, it was important to leave an exit for tears, and he thought itching was rather more apt to occur than nnder the pad and bandage. As to confinement in bed, it was not of great momeat whether we kept our patients in an apright or in a horizontal position, but it was very important to avoid frequent or
sudden changes of position. Sudden changes in the pressure of the sudden changes of position. Sudden changes in that pressure of the rhage into the chambers. Sach slight transgressions as stooping to reach a shoe or to move a footstool, or, as in one case of his own, carrying a coal-hox, were dangerous shortly alter cataract extraction. If operating surgeons were going to disregard common sense and timehonoured principles, we should soon hear of disasters. With regard to dark rooms, the speaker's own hospital patients lay in large wards, occupied also by medical cases. He gave more or less protection by a bed-curtain, but had never employed dark rooms.-Mr. Adays Frost had used Dr. McKeown's method on several occasions, and as far as its mere mechanical effect was concerned, had found it as efficient as friction; the risk of infection, horever, rendered it imperative to take elaborate precautions, and as thrre was always the uncertainty his abandoning the proceeding. - The President said that Dr. McKeown's method was not one that recommended itself to his surgical instinct, and the results that Dr. Mrkeown had himself adduced would not encourage him to attenpt it in the future.Dr. Mckeown, in reply, said with respect to the surgical instinct instinct of the profession, as a whole, in relation to wew operatious, was invariably wrong for a variable period of time, when the new operations were much at variance with old practice and preconceired notions. The surgical instinct of the professiou generally was long against ovariotomy, but the surgical instinct of the orariotomists had proved to be a safe guide. The same held abont more recent questions. The President had taken an enticely wrong view ahout the beariug of the statistics. A little escape of ritreous was not a serious matter, and, in the eight cases referred to, only two had any relation to the question nnder discussion, uamely, iatra-ocular iojection. His paper, when carefully read, would show that, taking the whole cases, complicated and uncomplicated, ripe and unrine, idiopathic and trall tics of selected cases of masture cataract. In the equal to the statis idionathic cataract (including 22 cases of most unripe cataract, on the majority of which no surgeon with the ordinary methods would operate), there were only three total losses at the utmost. As to the casc of the President, in which injection did not remove any umripa cortex, the prohability was that the terminal had not been introduced
inside the capsule. The President thought that some of the cases deseribed were not simply immature cataract, but incipient cataract: but, if incipient cataract of oue to three or four years, or more, standing conld be operated on by injection, nothing further was reqnired to put it on a level ahove any other operation ever practised. Dr. Emrys.Jones'and Mr. McHardy, without having had any experieuce
of tho method, or oven hasing seen anybody use intra-ocular injectwh, had condemed it. No doubt the mast competent critics were these who knew nething practically abont it-of course, they were far botter ablo to jadge of it than one who had been asing it for three years in a public institution, open to the profession, and who had, on evory occasion possihlo, demonstratod its utility to stndents and madical mes. As ta the cases montioncd by other speakers, they only amountod to six or seven, and thoy were not to be takeu into sorions consideration in face of the details Dr. Mckeown gave in his paper, and of the experience of tho most clistiaguighed. Contivental ophthalmic aurgoons. Mr. Priestley Smith inquired respacting the size of the nozzles. It was well known that, if water bo driven with force through a very small opening, the force exerted on a limited area was very much greater than if the same force were exercised through a wide opening. The object was to direct a pretty nniform forco on the whole of the internal surface of the capsula, and not a strong force on any one point. The nozzlo heing broad and the slit long, this was accomplished. Besides, the broad nozzle gavo support to the vitreons humour. The capacity of the body of the syringe was considerable, as it was a mistake to have only a few drops when force had to be used. Whou the operator ball mare than he required, he need not use it; When he had too little, ho had to remove tho instrument, and replenish it.Mr. SNRLL, replying to the romarks made on the treatment advocatel in his hrief communication, pointed out that many of the subjects raised had been dealt with in his former article. The mode of cutting the placter allowed for the eacape of tears, and patients did not complain of any discomfort ; hut those who bad been treated otherwise on previous occasions acknowledged the graater comfort of the pluster treatmont. He was not amare that Mr. Priestlog Smith had used plaster so much in his practice. The mathod he had adrocatel, however, appeared mare complete than had previously boen adopted. Reforrigg to Dr. Littlo's paper, ho remarked thast he had not seen the danger from using the snction curette which in some hands had been experienced. For some time he had used suction very little because it appeared unnecessary, for if the lens were well hooked np, the softened matter readily eacaped threugh a small corneal
woond. His rule was to intreduce as woond. His rule was to introduce as few instraments as possible into
the eye. the eye.

## A CONTRIBUTION TOWARDS THE ETIOLOGY OF PHTHISIS.

Br R W. PHILIP, M.A., M.D., F.R.C.P.Edin.
Fhysician to the Victoris Dispensary for Conshmption and Diseasos of the Chest,
Ir is not my intention to discuss the morhid anatomy of the phthisical lesions, nor the lependence of the phthisical process on the pressacs of the tubercle bacillus, nor the important questiona of heredity and of climatic and other influences, "which bulk so largely
in the etiological chapter.
For the preseat, I start with an acceptance of the doctrine of the uaity of the phthisical process, and of the immediate dependence of the process on the presence of the bacillns. The rigidly exact observations and experiments of Koch and others havo, in my judgment, placed this beyond doubt. I prefer, at least, not to raise the question now. Lnat, in spite of the comparativo fulness and clearness of our knowledgo in these lines, it appears to me that we are for from a rational conception of the actaal cause of death in phthisis. It ras with the viow of further elucidating this higher otiological problem that the prosent investigation was nndertaken.

A glanco through the litemtnre of the subject reveals how seldom the attompt has been marle to solve the problem, how comparatively seldom, indeed, the question las teen raised. Where the matter has becn discuased, oxplanations have been effered, which may be classiferl ronghly under four heads, namoly: (1) progressive asthenia; (2) loss of hematosis; (3) the lighting up of freah inllammatory foci ; (1) the absorption of waste products. Now, I have no desire to depreciate the value of these as integral factors in the process. My contention is that, in view of the comparative regularity of the cliniall phenmmena, and in tho light of more recent work, they do not
atford bulliciont explanation. Each of them wan fully discussed prior atford bulliciont explanation. Each of then was fully discussed prior to the discovory of the tuherile hacillus, and Jaccoad, more eapeci-
ally, has the credit of emphasising the importance of the fourth, ally, has the credit of emphasising the importance of the fourth,
namely, the shsorption of waste prodacts. Since the annourcement namely, the ahsorption of waste prodacts. Since the annourcement
of the tubercle bacllas, co sparatively littlo has bcen added in this
direction, though the features and clinical course of an ordinary caso of phthisis and those of oxperimentally induced tuberculosis are well defined and atrikingly bimilar.

What, then, is the modus operandi of the tubercle bacillus in leading towards death? Its fatal propertios cannot, I think, bo regarded as merely irritant or privative. In all probability they are attributable to a power possesscel by it of elaborating new products, which are afterwards absorbed.

Before explaining on what facts I base that statement, I ought to mention that Dr. Mermann Weber has hinted at the probability of such elaboratien and absorptiou. In the Croonian Lectures (1885) Dr. Weber speaks of "the chemical poison which probably is originated by the development of the tubercle bacillus in the tissues in an analo. gous manner, as, according to the rescarches of Gaspard, Panum, Billroth, Burdon Sanderaon, and others, a powerful chemical poison-sepsin-is developed in the process of septicemia." I am not a ware, however, that up to the present any attempt has been made to treat the matter more seriously. Whether the suppositious product or preducts are e日creted by the bacillus or are elaborated from the tissuca which it infects raises another queation which must be discussed later. It is enough, meanwhile, if we recogaise the probable dopendence of these new producta on the presence and action of the bacillus.

Such a process of elaboration or secretion has its analogue in the more evident varieties of fermentation, which havo been studied by Pasteur, Schutzenberger, and others; for example, the alcoholic, the lactic acid, the butyric acid, and the ammoniacal. JIore particularly the view appears to me substantiated by the following weighty evidence. Thas association of apecial forms of microzymes with special forms of fermentative action has been conclusively demenstrated by Pasteur and a large school of subsequent observers. A distinct variety of fermentation as certainly follows the admission into a suitable medium of a given microbe, as the exclusion of the same microbe excludea the possibility of its occurrence. Fusther, the rearing of pare cultivations has shornn that different effects are obtained, though seme of the observations in this direction are open to question, and, cer-
tainly, marked differences in the rate of growth are observed, accordtainly, marked differences in the rate of growth are observed, according the constitution of the medium in which the cultivation is attempted, while certain organisms are meat exclusive in their selcctive affinities. Morcover, if tho ssmo medium, say Koch's gelatine, be atilised for the cultivation in diferent tubes of different microparasites, the effecta produced on the medium are very differant in the eeveral instances. Even in the gross, auch differences, for example, in the rate and amount of liquefaction in the production of certain gases are marked. And it is in the highest degree probable that care. ful examination of the medium after cultivation has bean carried on for some time would ehow important alterations in its chemical con. atitution, as occurs in the better known forms of fermentation. In other worda, the living organism has the power of disturbing, or rather, in order to the preservation of its orn life, the organism is compelled to disturb, the molecular arrangoment of the clements in the medium of cultivation.

These considerations open up a wide and promising fiold for in. vestigation. This appears the aspect of bacteriological observation, which is pregnant with moat sesults. In illustration of this, the work of Panum, Selmi, Gautier, Brieger, Bergmann, and Schutzenberger, need only oo cited.
In practically spplying this hypothesis to the problem of phthisis, I directed myattention first of all to the nrine. The results ob, thined, which have been given elapwhere, wcre not sufficiently definito in character to warrant their citation hero. Examinations ot portions of the diseased organs, of of their glandular appendages, pas abandoned, as it was found impossible to have theas sufficiently fresh to avoid the ohjections that would incritably assail successful results ao obtained. This led to the adoption of the sputum ss the materics morbi for investigation, and that, on the following, among other, grounds:-

1. The sputum is the constant accompaniment of the morbid condition, and stande in a peculiar relationship to the diseased organs. 2. It is always accessible in large quantity, frosh, and, therefore, as much as possible free from such contamination as might bc supposed to iutroluce fallacy. 3. It has been shown that the maximnm amount of the contagious olement resides in the sputum. 4. Haviog segard to tho conditions of growth of the tubercle bacillua, it seems likely that the muco-purelent ascetion is a peculiarly good medium for cultivation. 5. It has been proved that tubercular aputum rotains its virulence for months. 6. The presence of the tubercle bacillas can be comparatively easily dotormined, whilo with greater care its relative abundance in different specimens may be gauged. 7. The sputum.
can readily bo subjected artificially to similar conditions outside the body as withia the chest. 8. Much of the experimental work already carried out with refereoce to tuberculosia has been done by the subcataneous and intravenous injection of unaltered phthisical sputnm (cf. the work of Villemio, Chanvesu, Bifili, Vezz, Semmer, Tappeiner, etc.). 9. Collateral evidence from the side of other ptomaine investigations seems to imply that the ready access of oxygen to the centre of ptomaine production aids considerably in their rapid and sbundant derelopment.

After approaching the subject in a variety of waya, with a remark able conatancy of results, I thought it best to institute a series of experiments with extracts obtained from different phthisical spata by such methods sa could be least open to objection in respect of complications introduced from withont.

Method. - The sputum was carefully collected in a clean vessel, preferably a closed jar, with centrsl hole for the entrance of the expectorated material, such as is used in some of the Edinburgh Roysl Infirmary wards. In the selection of the patient the greatest care was exercised. a. Unly such cases were made use of as showed unloubted signs of advancing phthisis. b. No wase was sccepted where the temperature chart did not record a more or less persistent elevation. c. Aiter the first tro or three examinations it was found best to restrict the selection to subjects where possible impurities from smoking were sbsent.
Similar care was taken in the selection of the sputum, $\alpha$. The sputum was rejected when sny foreign admixture was present, such as vomited materials. $b$. It was rejected when saliva was present in sppreciable smonat. c. The resction of the sputum was tested, and only such admitted as gave an acid or neutral reaction. This last condition was found always associated with a peculiar odour which may be regarded as sui generis. il. The presence, sud approximately the relative abundance of the tuherele bacillus was in every instance ascertained.

The sputum, thus carefully collected for twelve or twenty.four hours, is at ooce subjected to further examination. Its bnik is measured, and three volumes of rectified spirits are added to it . Tho mixing process is carried out guttatim, so that the separation of tho elements of the sputum may be rendered complete, snd the admixture made as intimate ss possible. If the sputum be neutral, or but faintly acid, a trace of tartaric acid is added to the rectified spirits previous to mixing. The whole is transferred to a Florence flask. Its month having been protected by a fine muslin rag, the flask is placed in a Koch's stcam steriliser, and exposed to a gentle moist temperature of $36^{\circ}$ to $40^{\circ} \mathrm{C}$. for twent to twenty-four hours. At the end of this time the fluid is carefully filtered, first once or twice through fine muslin, and then three or four times through filter paper, till the filtrate roas off perfectly clear. Its volume is then measured, and the whole evaporated down in open beakers to one fifteenth of ita bulk (circa). This reduces it to the consistence of a more or less muddy extract, varying in colour according to that of the original sputum. The latter part of the process is couducted slowly, with the view of driving off all remaioing trace of spirits, and to prevent the escape of other volatile products.

The extract thos obtained was utilised for injection. With regard to its constitution, it must be obserred thst it is as pure an extract es can well be obtsined of the carefully-selected sputum. The only additions made are measured quantities of fsintly neidulated rectified spirit. This, in the process of slow evaporation to one6fteenth of ita original volume, was presumably entirely given off; so thst, in observing the results, we have to deal with the tifects of a fairly purified extract of phthisical sputum-that ia, sputum minus the coagulable elements, separated out by the addition of the rectified spirits and the after-process of filtratiou.

It should be fucther mentioned that the extract, when properly preparod, is most unstable; and, being extremely liable to the attack of fungi, breaks down in a few days, giviog rise to new prodncts. The extract was, therefore, never used lor experimental purpeses after it had been prepared for three or four days.
Fourscries of experiments were conducted with the extractso obtained:

1. To observe its ffects on the system generally: 2. To observe its effects on the circulation ; that is, on the cardiac rate. 3. To test tho antagonistic effucts of certain drugs, especially atropine, as regards the system generally. 4. To test these autagouistic effects as reen more especially in the cardias rate. It is impossible hero to give details of tho numesons experiments couducted under these heads, but the general rosuits may ba summarised.
Series $1 .-A$. On Frogs.-Thirten experiments carried out with varying quantities, and under a variety of conditions, sicld results of striking uniformity, and foint to the presence in the ex'ract of a
toxic principle, or of toxic principles, of considerable potency. The results differ only in degree, 3 progressive increase in the intensity 0 : the symptoms being observable with the increased dosage. The general lino of symptoms is that of tho gradual development of voluntary motor depression. In no instance was a staga of ezcitement tracesble. This coudition of depression appears, in part, explicable by a toxic infuence exerted on the higher centres. This is evidenced by the general character of the depression, by the sluggish uature of the morements while coordinstion remains littlo affected, and by contraction of the pupils. The spinal cord appears to be ausffected, tho reflexes remsining normal throughout in the less severe cases, and in the graver being unsffected till later on.
B. On Mrammalia.-In mice it was foud possible to induce distinct symptoms with 0.3 cubic centimètre of the extract. These symptoms resembled in general character those observed in the frog, and passed off gradually in the course of so hour or two. With increased injec. tiou, the intensity and duration of the symptoms were correspondionly increased. As in the frog, the scope of the symptoms saggested implication more especially of the higher centres. There was the same early appearance of gradually adrancing depression. This, as before, was not preceded by any trace of excitation. In the course of ten minutes the mimal insariably became quieter, the stage of quiescence passing on to more or less complete passivity and disincliaation for movement, according to the amonnt injected. In the lighter cases this was gradually recovered from. In the more severe cases it deepened into death, or death followed after more or less complete approach towards recovery. In addition to these symptoms, common to frog and mice, certain well-marked phenomena were observed. Among the more striking of these should be noted fibrillary twitcking of the sur face of the body, and convalsive movements of the truak and limber Regarding chavges in the respiration, it has to be borne io mind that the estimation of the rate of breathing is always difficult in mice. The general impression, however, was that after the pteliminary excite ment there remained a certain increase in the reppiratory rate, to hu followed later, when symptoms were sufficiently prolonged, by retardation. Io those animals which died after prolonged symptoms, anorexia was a conspicuous fuature, while rater was drunk freely.

In rabbits, comparatively large quantities of the extract wero required to produce urgeat symptoms. On economic groands this line of experimentation was less systematically carried out. So far as they go, the results obtained were in strict accord with those just detailed. Of greater interest, however, in the case of the rabbit, was the clfec: of daily repeated small doses. Thus, for example, two rabbits were fed on measured quantities ol oats aud mater, and their weights regis tered for some days, until the daily register became fairl ${ }_{j}$ constaut. The same conditions mere continued, with the addition that once in the twentr-four hours each animal received subcutaneonsly swall injections of the extract. Presumably as a result of this, their weights progressively decreased by amounts varsing from one-fourth of aid ounce up to one ounce per diem, and the smount of food consnmed was reduced to one-half, and on one occasion to one-quarter, of the amount previously consumed in the corresponding time. After some days the system appeared to grow more tolerant of tho morbid mate rial, as it was found necessary to iocrease the dose to produco the samo effect. At the ond of ten dass the iujestions were discontioned, and the weights, without increasing, renained almost constant for a week or two. Then a gradual progression downwards, ansit from fresh injection, was observel, each animal continuing to lose a frar tiou of an ounce daily uotil death. It appears likely that the esrl) loss of weight was due directly to the action of the morbil prodnet which doubtless led to loss of appetite, ete. This is evidenced by the daily loss of weight corresponding with the dates of injection and by return to a more constaut condition when the injections meri stopped. The later progresuise loss of Weight, apart from injection. is more dificult of explapation. We may suppose that, followivg the earlier injections, a condition of marasmus developed. In neither at the rabbits was there found, on fost-mortem examination, the slightes: traco of cascatiou to which rabbits are prone.

Serres il -Eflects on the circulation, that is, on the cardiae rate. A considerable number of experiments were coudueted urder th: hend. They prove couclusively the prezerio of a pwerful cardias depressant. Io each instance the fall is striking. Where lasge ciosetrero nsed it was remarkiale, the cardiae sate being reduced, in the comrso of four hours under the iuflueace of the estract, ir. MI 16 , miunto to 18 , and even 14 . Cuinculeut with the decicas in rate, 8 marked lengthening of the diantolic in relation to the sys:olic 1 hase was ovideut. These resules, taken a oug with those of Senex iv (in ira). imply, I think, that the depressed action on the beart is prodned
through the medium of the inhibitory fibres, and not by direct action on the caraliac ganglia.
SRREs 111 and 1 F .-It is conveniout in this brief summary to conbipe the resalts obtaiued in Sories HII and iv. In each it was attempted to ueutrolise the ascortaiued depressat effects of tho extract by the cabibition of presumably antugonistic drugs. For the present, I limit mysel to the results obtained with atropine. The double series yield results in remarkable consenance with those obtained in tho earlier series. In tho first place, they afford strong corroborative criduce as to both the general systemic and the special cardiac effects of the extract. But, in the second place, they prove that the combind esbibition of atropise undoubtedly modifies these resnlts in a striking manner. Of this thore is evidence in all the experiments, the degree to which sach modification is produced varying with the relative quantity of the antagonistic priuciple. Most perfect satagonisur was producel by the combined iujection of of milligramme of sulphate of atropine with 0.6 cubic ceutimetres of cxtract. Under such conditions the gonelal srstenic effects-easily produced both in frogs and in mice by 0.6 cubic centimetres of extract-were almost completcly absent, while tho cardiac rate, which 0.6 cubic contimetres suffice! to ilepress considerably, remained practically constant. The ollects wero similar, whether the atropine were exhibited simultaneously with the extract, or at varying iutervals before or after. Tho antaguaising influence of atropine is most atrikingly demonstrated in those experiments where the iajection of the extract preceded that of the atropino by an measured interval of time. In such cases the effects of the cxtract were first of all well defined, and gradually declined on the addition of the atropine. Similar resulta, though less striking, were obtaincd when the atropine preceded the extract. It should bo allled that, in every instance where counter-experiments were made with atropine, the extract ras first tested, with the view of egtablishing its physiological action.
This experimental record is necessarily too brief, and doubtless is open to much criticism. But the results at my disposal-which I hope to pablish in more extended form-appear to me to justify the statement that from the tubercular sputum there is soparable one or more prodncts possessed of well-marked toxic propertics, these toxic properties being more or less completely opposed by atropine.
The remaining question is, in how far this poisonous principle is dependent on the presence of the bacillas? Might not such toxic offects be produced by extracts obtained from other oputa besides those strictly bacillar? There is, unfortunately, no time to give in full the ground for my statcment, but my belief, which rests on experiroental bssis, is that the prescuce of the bacilli is causally related to the poisonous product obtained from the sputum. I incline also, for similar reasons, to the belief that there is a relation traceable between the tosicity of the extract and the abundance of the bacillar clemente discoverable in the sputnm.
On the line of absorption and the therapeutic indications, regarding which I had proposed speaking, I must not $d$ well ; but it may be convenicnt in closing to tabulate shortly the chicf points which havo been briefly disenssci.

Conclusions.-1. lu view of the work of lioch, it is impossible to avoid admitting that 3 causal relationship, exists between the tubercle bacillus and the phthisical procoss. 2. The mere predication of this relationship is wot sufficient in explanation of the clinical fasts and the generally fatal terminatiou of such cases. 3. The usually received explanations of the modus moriendi in phthisis are insufficient. 4. It appears probable that tho lothsl inllucuce of the bacillus is due to tho pioduction thereby of certain poisouous products. 5. Clinical and experimental evidence appears to indicate that the morbid sccretions from the re-piratory surfaces afford a good medium fur the growth of the tulurcle bacillus, and, presumbaily, for the claboration of such products. ©. Such a proluct is separable from the carefally selceted and prepared sputum. \%. This product is possessed of wellmarked physiological properties, being eminently toxic to frogs, mico, and other animals. 8. Tho toxic properties of the product are, speaking generally, depressent. 9. Jore particularly thcy include a markel dopressant influence on the heart. 10. This depressant inTnence sccins to be exerted through tho medium of the cardio-inhibitory mechanism. 11. The toxic action of the product is more or less completely opposed by atropinc. 12. The amonnt of the product which may te beprated appears to bear a distinet relation to the abandane of tho ba.illar elements present. 13. Absorption of the prisonous product most probably occurs by way of tio lymphatic circalation

Wes aro infurmed that Mre. Il. O D. Darthaleyns hes resigned the Secretarysuin of the Middlesex Hospuital.

## ON CERTAIN NEPHRAIGIAS SIMULATING RENAL Calculus. ${ }^{1}$

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The purpose of the present paper is partly to draw attention to certain painful affections of the kidney which may be taken for calculeus discase of that organ, and to scek for information from those who may have had a wide experience of such cases as to the distinguishing points that may be best relicd on for diagnosis in cases in which doubt exists. As a rule, the diagnosis of renal calculus is easy ; a tinse ususlly comes, either early or late, in which the calcalus endoarours to escape by the ureter, giving rise to severe colic, sud causing blood and pus to appear in the urine; to these is usually added a aymptom which writers bave been accnstomed to consider as absolately symptomatic of renal calculus, namely, retraction of the testicle on the side affectsd. Thongh this latter symptom is of undonbted importance, nevertheless, too much dependence must not bo placed on it, since the phenomenon will appear quite indepondently of renal calculus, and is evoker whenerer a tenacious mass of any size passes from the pelvis of the kidney down the ureter; thus, it may be observed in cases of hydatid of the kidney, or when tubercnlous or scrofnlons masses are passed downwards into the bladder. It is also a wellascertained fact that a stonc in the kidney may exist for a considerable time without giving rise to any of these symptoms, except pain, and that in seme instances may be quite unimportant, giving rise rather to a feeling of weight and dragging than to actual snffering; Whilst the urine may be examined repeatedly with only negative results. Thns, Dr. Murchison (Diseases of the Liver, third edition) refers to a case which was under his care, and other physicians, in which for years the painful affection of the right side was referred to hepatic neuralgia and treated as such, till after years of suffering the patient was relieved by the passage of a renal calculus. One can hardly suppose that snch an acute clinical obseryer as Dr. Murchison wonld have neglected to examine the urine, and had blood or pus been present to hare come to a speedy and right conclusion. An interesting illustration of a similar incident wss reported in the March number of the Chicago Review for this year (1887), in which the patient for eighteen yuars had suffered from severe lambar pain and whose urine had been frequently examined, but with negative results, till at last pyelitis was evoked, and then, after eighteen years of donbt, the nature of the case was fally revealed. I have myself (Morbid Conditions of the Urine, Churchill, 1882) recorded a case in which a gentleman snffering from severe lumbar psin consulted an emincat surgeon and a distinguished physician. The surgeon told him he was suffering from locomotor ataxy, the physician that the symptoms were due to syphilitic diease of the spinal cord, and placed him on a course of mercury; two years afterwards he passed an oxalate of lime calculns, which complotely relieved him of his pains. He assured me that during the whole time of his sufferings his nrine continued bright and clear, and that it was frequently cxamined by his medical attendants, and it was not till the day be passcd tho calculus that he noticod it thick and bloody.

It would be easy to onumerate other cases in which stcne in the kidney existed without being rccognised by the usual symptoms, but the conrerse of these cases, namely, when lambar pains of long stand. ing have been attributed to renal calculus, are not su namerous, and are certainly more perploxing. Thus, some years since a pationt of the late Dr. Murchison, who was thought by him, and by the other physicians whoalso saw the case, to be suffering from stons in the left kidney, although the urine was repeatedly exanined with negative rosults, and who went on suffering excruciating agonies of paroxysmal pain, died suddenly one night. At the inquest the post-mortem examination showed the peritoneum full of blood, which proceeded from the rupturo of an aneurysn of onv of the smaller meseateric vessels, but which evidently pressed on some verro plexus supplying the pelvis of the left kidney. Here, indead, is an instance in which a correct diagnosis was impossible; lut all cases of rena! pain aro not so obacure, and I have endeavoured to classity them in the following order.

1. Neuroses of the Kidney. - (a) A true neuralgia of the kidney is of very rare occurrence. I cannot say I have ever met with an instance. Delicate women at the meustraal period, and for some time after, suffer from aching pains in the renal region, and these pains by rome have becn considered neuralgic. Bat it has been shown that
${ }^{1}$ Read in the Section of Modicine at the Ammal Meeting of the British Medica Association held in Dublin, August, 18-7.
there is an intimate sympathy rbetween the remal ofgans and "the female generative apparatus, snd that during menstruation slight onIargement of the kidney occurs. In delicate women this physiological engorgement may become exaggerated, and the distended capsule give rise to pain. Renal neuralgis, it is said, sometimes occurs in malarial sabjects-it may be well to note the possibility; but with eeven years' experience of tropical diseasea at the Scaman's Hospital, where the opportunities of watching the sequele of malarial disease are very great, I never met with an instance of renal neuralgis, (b) Reflected neuroses of the kidney, howevet, ste not uncommon. In. 1878 the late Dr. Murchison gave me the particulars of a pectiar form of nearosal attack which he designated as a rensl storm, sud which had frequently occurred in a patient suffering from aortic 'regurgitation. The attack commenced with excruciating pain over the region of the right kidney, exactly like renal colic, but there was no sickness or retraction of the testicle, and the urine passed after the attack was perfectly normal, nor was there jaundice, or anything to suggest that the pain was due to either renal or biliary calculus. After lasting some hours the pain passed off as suddenly as it came on. With reference to this case I may mention the remarks made by Dr. Habershon (Diseases of the liver, p. 13)* with regard to the neuralgic, pain sometimes met with in organic disease of the beart, sud which is referred to as being situated deeply behind the first part of the duode num. "It is," he sass, "severe, almest like that of gall-stone, but it is without janndice or other symptoms of calculus; it is not connected with the stomach, for it is not affected by food, but paroxysmal, and sometimes recursiwith great regularity." "In 1880 a man, aged 47, applied as an out-patient at the London Hospital, solely on account of severe paroxysmal attacks of pain, which, commencing at the angle of the epigastric region, where it joined the right hypechondrium, passed downwards into the right lumbsr region. No disease of the liver or kidney:could be detected, and the nrine was perfectly normal. On examining the chest, however, we found the left ventricle considerably hypertrophied, the result of aortic regurgitation. This case and that of the late Dr. Murchison are probably of a similar character. Reflected mephralgiss may occur in connection with inflammatory affections of other organs. Thus, in tpoeumonia, the pain is often at first more tumbar than dorgal, and I have known an acute practitioner taken in, for he sent for' me "aaying that one of his patients was passing a renal calculus, the symptoms being intense pain in the right lumbar region and albumea in the urine. Shortly after, on examining the patient again, he discovered fiue crepitation at the right base, but not before lie had given the patient a warm bath and a dose of opium for the relief of the supposed colic. In disease of the bladder the pain may be wholly nephritic. A gentleman sent for me some timésince on his arrival in tomn from Edinburgh, suffering from intense paroxysmal pain in the right kidney; the testicle on the same side was retracted, there was blood and pus in the urine ; no irritability of the bladder. Abeut a fortnight after he began to get intermittent diecharges of pue, the penal pain still continuing severe and no bladder symptonis. Dr. Murchison, who saw the case with me, agreed that there was nyonephrosis of the right kidney. About 3 week after this the renal pain suddenly transferred itself to the neck of the bladder; a finger passed into the rectum detected a hard mass lying between the rectum and this bladder. I then asked Mr. John Wood to see the case ' with mee, and he came to the conclusion that an abscess had formed in the cellular tissue between the rectum and bladder; and had burst into the latter. At first the discharge had been intermittent, but was now becoming continuous. The patient did very well, the discharged pus soon "ceasing, and the urine clearing up, no symptoms of renal calculus or of renal pain ever again declared themselves. "Had this case occiurred in the present days of nephrotomy, I am sure that when the case first came under obscration operative procedures would have been taken under consideration.
2. Nephralyias from Disease of Contiguous Parts:- If we consider the anatomical relationship of the duodenum to the right kidney, wo shall not be surprised to find that many morbid conditions of that portion of the intestine may give rise to pain simulating a nephralgia of calculous origin. Thus Mr. Cursham Corner asked me some short time since to see a patient who had many symptoms of renal colic; namely, attacks of paroxysmsl pain accompsnied by vomiting, igreat tenderness ou prossure over the right renal region, a urine loaded with uric acid and turbid with mneus, hut no bload or $\mathrm{p}^{\mathrm{ms}}$. Mr. Corner had his doubts about the case, but rather inclined to the risw of renal calculus, and so at first did I ; buti on strict inquiry, we found the attacks of pain had a very constant relation to food, and that tho romit was not so purely reflex as we generslly meet with in renal colic, but contained undigested food; then, again, the patient was
losing flesh rapidly: The conclusion we finally arrived at was duodenal ulcer, and though we did, not exclade the possibility of a stene being present as well, and advised the usual trestment, we added to this treatment substantial doses of hismuth, and a light farinaceous diet. Under this treatment the patitnt made a complete recovery, losing his pain a very few days after it was commenced. No sasricion of the existerice of calculas was left behind after his recovery.

Another instructive case illustrates this point of the connection of duodenal irritation with nephralgiz.! About four years ago Dr. Ball brought a patient of his to my house for consultation. This gentleman had suffered for some time from severe paroxysmal pain in the right bypochondrium. He had consulted' many medical friends, and the general verdict was visceral neurosis, and $\mathbf{I}$, at first thought, had pretty much the same view. The urine was examined, but it was perfectly normal. Then the idea of biliary colic or retained gall stones without jaundioe occurred as a'passible aolution, and a terebinthin mixture was prescribed.' To our astonishment, a few days alter, instead of a gall-stone out came s large round worm. The symptoms were greatly relieved, though not completely; probably some degree of chronic ulceration of the duodennm was present as well. Bat the patient being a medical man conld not give himself sufficient rest till he could take a good holiday, when I believe he bocame entirely free from pain.
Gall-stones retained in the gall-bladder are often taken for stome in the right kidney, and vice rersa ; as a rale, horvever, the direction of the pain serves as a guide. With gall-stones the pain radiates from the right hypochondrinm towards the epigsstrium and umbilical region. With right-sided nephralgia the pain comes forward from the lumbar region into the right hypachondrium, and is then reflected downwards towards the right hypogastrium.
Caries of the spine with psozs abscess in the early stage sometimes gives rise to lumbar pain that'msy bo' taken for nephralgia, bat a careful examination of the spine is sure, saoner or later, to reveal a tender spot along the spinal column, and so lead us to a right conelusion.
3. Nepluralgias from the Discase of the Kidrey.- "The tender kid ney," caused .probably by some displacement of the organ, with consequenrly a certain degree of perinephritis attendant on the disloca. tion, is often a condition extremely dificult to diagnose, and atill more to treat. Early in February, 1887, Dr. John Williams sent a young lady to me with many symptoms of renal calculns. She had constant sching pain in the right kidney, eometimes severe paroxysms of pain, the nrine was turbid, contained some pus cells, but no blood. :The right kidney was exquisitely tender to the touch, and its dimensions, which were enlsrged, could be easily mapped out. Her account was as follows. Une day, during the menstral period, she was playing lawn tennis, 'when she felt a sudden rick in her side, so paintul as to make her quit her game; 'since then she had never felt free from pain. I had no donbt' that the kidney had been displaced slightly dowiwards, with partial rapture of tha surrounding cellular tissuo during the sct of usizig the racket at lawn tennis, the displacement being aided by two conditions-the naturally enlarged stite of the kidney during menstruation; tight lacing, pnshing the liver downwards. It was quite two months, with absolute rest on bed and sofa, before she could move without piain, and then required the support of an abdominal belt." This casse I at first thought was one of renal calculus, the pus in the arine and the paroxysmal psin being misleading. I have seen two similar cases at the hospital; both occurred after working at a mangle daring the menstrusl period.

Dr. Samuel West, in a communication to the Jourvar in 1885, drew attention to the frequency and importance of bæmaturia occurring in patients suffering from granular kidney, and observed upon the fact that writers on urinary psthology had neglected to describe a symptom of sach importance. So important is it to recognise the fact that bematuria does occur in these cases that Dr. West says that in one the operation of nephrotomy was going to be performed under the supposition that the hxmaturis was cansed by calculus, when Dr. West saw the case and proved the true nature of the hrmorrhage. Other diseases of the kidney, giring rise to a semblauce of renal colic from time to time daring their progress naturally occur to us; thas the passage of an hydatid vesicle, a miass of tubercle or cancer, gires rise to a colic often indistinguishable from calculous colic till the oftending mass comes under observation.
4. Nephralgias due to Functional Derangements of the Urine.-Dr. Prout some years a go drew the followiug graphic picture : a middlaaged individual, who has lived an easy and somewhat luxurious life, after stme slight disorder of the howels or exposure to cold, begius to complain of uneasiness in the region of the Eidneys, which gradually
increases an! extends forwards and downwards to the groin sad testicle. The stomach now froqueutly sympathises, znd ohere is oither absolate nauses or at lenst ivability to take food. The tongue is muck furred; thero is thirst ; the palse is full, strong, and usually sccelerated. There is a tendency to drowsipess and headache. In conjuoction with these symptoms tho patient complaing of a constant desire to pass his urine, which is scanty, highly coloured, extremely acil, snd often losded with bile. Undor these circamstances the ariasry symptoms somatimes incroase to a great degree of severity, only small quantities of orine being excroted at a time, and the colicky symptoms strongly resembling those of renal calculus, being decidedly pronounced-and yet ander careful treatment-when the medical attendant and the patient have come to the conclusion that the aymptomy are due to renal calculos, and to reval calculus alone; they clear ap and pive no further trouble.

A pationt exhibiting similar symptoms came nuder my care last smmen. Early ia 3larch Dr. Allt, of Clapham, advised a gentleman, aged 47, to consult me, as it was faared that premonitory symptoms of disbetes were making their appenrance, that is, the amount of nrioary water was increased and the specific gravity considerably above the aversge, though no sugar was present. The patient had lost flesh, and his appetite was capricions. He had formerly led an active life, ridiug many miles daily, but since he had left the country be had taken to driving in a closed carriage, took little or no walking exercise, whilst his social popularity being great, he was in demand for dinner parties and other functions that led him in the way of more eating and drinking than mas good for a man of his habit and constitution, snI which was also against his natural inclination, which was for plain and simple food. Daring the two years ho had been in London his health had certainly failed him, and the attack in March was undoubtedly premonitory of something more sarious. I prescribed mineral acids and Carlsbad salts, and advised a less nitrogenisced diet than he had been taking. Under this treatment he seemed to be doing well, when one day he took a long drive outside a coach to St. Albass and back. The day happened to he cold, with a dorth-east wind. Oa his return hefelt chilly, with general malaise accompanied by severe lnmbar pain; tho next day he took a Turkish bath, in which he bappened unfortonately to alip; this seemed to increase the pain in the back, which gradually localised itself in the left kidncy. When I saw him the next day in consaltation with Dr. Allt, hic hal a quick pulse, a fonl tongue, obstionte constination, constant nausea, often actual retching, scanty, highly-coloured, acid arine, with intense rensl pain on the left side shooting down into the left ingaiual region. For some days the paina increased in severity and the aymptoms were decidedly aggravated, and the late Dr. Wilson Fox was added to our consultation. He held strongly for the view of renal calculus, and thoagh I was rather biassed tbat way mysolf, atill, remennberiag Prout's description, I had hopes that with due purgation and a light non-nitrogenous diet, the symptoms would pass off and leave no trace of mischief bahind. Time proved the correctnees of the surmiso, nod a fortnight after, the patient made a good recovery; and thongh he occasionally suffers from dyspeptic attacke, atill the renal symptoms have eatirely subsided.
Thare is agzio another form of naphralgia which nfter gives rise to the suapiciou of renal calculus, connected with functional derangemeat of the urine, which is the converse of the above. In this class of cases the paticot, instead of being stont and plethoric, is asually thin and some what emaciated; he complains of a aensation of soreness, beat, or chilliness aboat the spine, loins, or ascram ; in some instances mach increased by pressare, and sccompanied by abooting pains and aense of heat or fushing axtending to various parts of the body, soluetimes by an occasional seneation of tinnitus anrinm, also with varions nervons affections is different parts of the body, as pain and sorcness in the ejigastric region, along the coarse of the nerves of the arm, thigh, etc. These symptong ere generally accompanisd by great distarbance of the ansimiating functions, and condition of urino leading to the depreition of oxalate of lime and excessive elimioation of phosphoric acil. I'rout, speeking of these csses, pays their termination is often critical, and the crisis nafavoursble. I have at present a case of this kind under observation ; the pains in the renal region (the right) have nor lasted three ycars, and thongh resembling in many respects the pains of ronal colic, still the urine, with the exception of the deposition of oxalate of lime, gives a negitive resolt. Tho patient continues to lose weight, though the dysper psia is not marked, and there is no orgnnic mischief to acconnt for it Tho case has bech seen by other plys. cians, who have from time to time given different opinions-rheumatiand, goot, aneuryam, etc. The Isst time the paticat was in town Sir Androw Clakkeaw him with mo. Sir Andraw Clark was doubtfnl whother the symptoms pointed decidedly to renal
calculus, ss the urine gave such a negative result, but ho agreed that the case was ono resembling the description givon by Pront, and that the nephralgia was due to the irritation of the urinary passages by the pasegze of crystals of oxalate of lime. Treatment in accordance with this vicw has been sdopted, but I hesr the patient still contioues to lose weight and to suffer from renal pain; and the case, I foar, is likely to terminata both critically and unfavoarably.

## Cases illustrating the antiseptic and ANTIPYRETIC TREATMENT OF PHTHISIS. ${ }^{1}$

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It is only in quite recent times that there could be said to exist any rational treatment of phthisis founded apon sciantific knowledge; and the past few years have witnessed a new departure in the ratiousl treatment of phthisis consequent apou tho rapid strides made in the new aciance of bacteriology and in all that, ralates to the share and inlluence of micro-organisms in disease. Ners modes of treatment have sprung up whose priaciples rest on experimental evideace and scientific deduction therefrom, and now much attention is being bestowed on the use of antiseptics in the treatment of phthisis. Already the reanlts of this mode of treatment justity most fsvoursble expectation, and promise much benefit to the common humanity we work for.

I propose to relate some of my experiences whilst nsing in acato phthisis remedies now tolerably common, jet still the subject of experimeat and discossion-antisaptics and antipyretics, to wit-and whilst using them under circumstances better adapted to contiouous trial and caraful observation than can generally be compassed in private practice. And any thooghts and saggestions and practical points that I may give as the ontcome of my experiences relate not only to these two cases, but are drama from many other cases and a much wider observation.

Case I. Acute Preumonia of Left Lung, passing rapidly into Aeute Tubercular Phthisis; Almost Complete Repair by Fibroid Substitution; Bacilli, Abundant during the Acute Skages, Disappcaring as Recovery Progressed; Complete Recovery Almost Assured, when Sudden Profuse Hamoptysis Causel Death; Duration of Case, Ten Months ; Treatment by Kairin, Quinine, and Iodoform.-E. B., aged 20, a domestic acrvant, after definite exposure to severe cold, was seized with acute paeumonia on the day followiog the exposure, and was admitted to the infirmary threo days later, on March 15th, 1884. Tha patient had bi ea previonsly in good bealth; sha was somewhat subject to cold amd cough, but had never beea laid up with any illneos. On admission the paticat was fonnd to be well nourisbed, bat rather anæmic. Further was noted : flushed face; berpes on lips; profuse sweating; a short hacking cough; teraperature, $104^{\circ}$; pulse, 124 ; respirations, $44 ;$ viscid aputa; at the left bsse and ap to the apine of the scapula phrsical sigas of consolidation, with fiae crepitation.

The day after admission the temperature rose to $105^{\circ}$, and the uso of antipyretics was commenced. Notwithstanding the daily use of antipyretics, continued for a period of four weeks, the temperature rose daily (sometimes twice in the twenty-four hours) to a point bstreen $104^{\circ}$ and $105.4^{\circ}$. At first kairin was used in ten-grain doscs, and it was alwaya given when the temperature had reached $104^{\circ}$ or over. After each dose the temperature fell rapidly; observstions made every quarter of an hour showed that the fall was continuous for about two hours, the total fall being from three to five degrees. Thero was a etriking constaucy in the effects produced by a givon dose of kairin, whether the dose was five, ten, or filteen grains; on no occasion was more than fifteen grains given. A dose of ten grains gsve always the beat resulta; fifteen grains did no more than five grains, and neither did eo much as ten grains. The stationary period varite, but at most it lasted only a few hours; the longeat time rocorded was ted hours. The subsequent rise of temperature was usnally as rapid as the decliae. Each dose of kairin was followed, within half on hour, by profuse sweating sod symptoms of depression; and when two doses were given in closo auccession (the intorval bcing three and a half hours) parkzd cyanosis and collapso occurred. Kairin was exhibited twico daily for ten daya. At the end of this time, the ficrteonth day of the dissase, the maximum teunperature was etill $105^{\circ}$ or theresbonts. Meauwhile, tho aputs liad ceased to be viscid and rasty, tho cough was looser, the crepitation at the left base had become coares. Then the sputa became viveil sud roaty
${ }^{1}$ Read before the Bath and Briotil Branch of the Britiah Meilical Association.
again, the congh more teasing, and there was evidence that the left apex had become involved - consalidation and fine crepitation.
On March 29 th, the seventeenth day of the disease, the spata were found to be loaded with the hacillus tuberculosis. The left apex rapidly nnderwent softening, and by $\Delta$ pril 10th the phrsical signs of a cavily were well marked. From the date of leasing of the kairin, the pyrexia had been trested by large doses of quinine. Quinine was given from March 25 th to April 5 th, almost daily, in twenty-grain loses; and only when the temperature was over $104^{\circ}$ and rising. The effect of each dose was to lower the temperatare by four or five degrees, to control the piresia from twelve to sixteen hours, and to ameliorate the general condition of the patient. Little or no permanent effect, however, was ohtsined, since, for some twelve days after discontinuing the quinine, the deily maximum temperature was over $103^{\circ}$.
On April 10th treatment by iodoform was commenced. The iodoform was given in pills, each containing one grain, at intervals of four hours. This was the time of greatest lung destruction; the whole of the left lung appeared to he riddled with suppnrating carities ; the expectoration was profuse and purulent, temperature hectic, night sweats profuse, emaciation and weakness extreme. Hæmoptysis also had occurred.
After iodoform had been taken for about two weeks, the temperataro came down to a lower level, rarely over $102^{\circ}$, the hectic character was less marked, and the patient began sensibly to improve. In two weeks mere, the temperature fell and continued upon a still lower levol, and the improvement all round was going on rapidly.
On May 2 sth, forty-eight days after beginning the iodoform, the temperature was normal morniog and evening, and it continued practically normal for the next six weeks. The patient now was greatly improved in appearance, took her food well, and was vastly hetter in every respect. At this time the physical sigas showed that repair had commenced, and mado somo progress at the left base. Weight now, 6 st. 8 lb .
Passing on to June 17 th , an interval of three weeks, the physical sigos showed almost complete repzir in the left lower lobe and as high as the spine of the scapula. The whole left chest was markedily retracted, but there was no carvature of the spine, the right luog extended beyond the left margin of the sternum, and the heart was diaplaced, the apex being tilted npwards and three inches outside the left nipple. No bacilli were found in the sputs, but after further repeated eraminations with the highest powers, a very few small and partially developed bacilli were seen with difficulty.

By the ond of June, the signs of repsir in the left apex were unequivocal. On August lst the patient was so much better that she was allowed to get up, but the temperature rose, and the effect generally was snch that the hed was kept for some time longer. Weight now, 6 st. 12 lb . Curvature of the spine had become marked. Things went on much in the sams way, with occasional recurrence of temperature of the hectic type, and slight hemoptysis ; but with improvement in the general condition and increase of weight for about two months.

Towards the end of September, an attack of colic and diarrhees oc. curred-the first during the progress of the case. (Tubercles and ulceration were found in the intestine post mortem.) The tempera. ture rose, and the patient was a good deal pulled down. The attack did not last long, however. The iodoform was discontinned now for about two weeks, on account of gastric distarbance, and resumed on October 10th. At this time an effort to get up was attended by syncope. From the middle of October to the beginuing of November the temporature was normal ; progreas was steady, and the weight increased to 7 ot. 7 lbs . The pationt kept her bed during this time.
Early in Nopember the temperature rose again, and continued hectic for a week. The patient became very drowsy, and slept a good desl, with snoring. She complained of oevero pain in the head, the pupils were dilated (contracting to light) ; there was nauso3, without ectual pomiting; the pulse became very rapid-144. The retine were oxamined, and found normal. These symptoms soon passed off ; the ternperature became normal in ten days, and remained so until the end of the case. From this time to Jenuary 6th, the day the pationt died, there was steady though slow and gradual progress towards recovery. The patient heyna to get up daily, and was eveutually able to be up a good part of the day. The weight increased at the rate of abont 1 lb . per week, and on Janusry 5 th it was 7 st. 13 lbs . ( 6 st. 8 lbs . on May 28 th). The physical signs denoted conplete repair at the left base ; and, as to the apex, they had indicated progressive diminution in the size of the vonica, until only a few dry crackice were discovered at the apex. There mas much retraction of tho left chest, and much lateral curvature of the spine. On January 6 th, 1885 -ten months after the onset of the acute pueumnia-the patient was sitting np in bod, talking anil cheerful, at 10.15 p. s., when an attack of coughing
came on; this lasted for ahout five minntes, and was sacceeded by a sudden hæmoptysis to twenty onnces. The blood was bright red, alkaline, and lormed firm clots. There was no retching or vomiting. The patient's fase became livid, and breathing ceased at 11 p. M. There had been no hxmoptysis since September.
Necropsy. - On opening the thorax, the right lang was fonnd to be greatly expanded, extending far over to the left side. The left lung greaty expanded, contracted, and firmly bonnd to the chest-wall hy adhesions, reaching from spex to bass. At the apex of the left lang were two or three very small vomicx, and a larger one about the size of a filbert. These contained very small quantities of pus. The lnng sub. stance had to a great extent disappeared throughout this lung, and had beea replaced by strong firm bands of glistening fibrous tissue ; this tissue was well-marked around the bronchial tubes. There was a small deep seated cavity in the apex of the right lang. The contents of the head were healthy. Fat was prominent in the walls of the abdomen, and in tho tissue round the abdominal orgins. In the intestines there were deeply congested patches here and there. In the ileum there were several small tubercular ulcers, and near the valve a few scattered tnbercles; other organs healthy; no trace of the site of the hæmorrhage could be discovered. ${ }^{2}$
Case 11. Acute Double Preumoniz, passing into. Acute Tulercular Phthisis; Phlebitis; Complcte Recovery, maintained at the end of Twelve Mrmths: Duration of Case, Fite Nonths; Treatment by Quinine, Iodoform, and Eucalyptol Inhalations.-L. D., aged 22, a domestic servant, admitted to the infirmary on January 16 th , 1885, haring been ill abont four days. The patient was reported to have been a delicate girl, but had had no serious illuess. There was no family history of phthisis. On admission, she masin a very prostrate condition ; she was well nourished, but ancrmic ; sho had muct pain in the chest ; temperatare $1032^{\circ}$; pulse 132; respirations 85; a trace of albumen. At the left baso were found dulness, tnbular breathing, bronchophony and fioe crepitation; and at the right base also there were signs of commencing pnenmonia. For two days the patient was very bad, requiring a good deal of stimulation; temperature between $103^{\circ}$ and $105^{\circ}$. The temperature then came down, and in six days from the time of admission, resolution appeared to have commenced.
Eight days after admission, on Janaary 24 th, the temperature rose to $103^{\circ}$, pain in the calf of the right ley was complained of, and now the patient suffored an attack of phlehitis of the right popliteal vein. This attack ended favourably.
Bat on Febrnary lst it was fonnd that at both bases there was still abundance of crepiration, yet not altogether that of a resolving pnenmonis of the ordinary type. The temperature had assumed a hectic charecter, end the physical signs showed that the right aper had become involved; indeed, there was evidence that both apices were implicated. There was also extension and renemal of acute inflam. matory mischief at the left base; the temperature rose to $104^{\circ}$ and over, and the condition of the patient hecame extremely critical. For four successive days the temperature remained persistently at between $103^{\circ}$ and $104^{\circ}$. Then salics lic acid with hydrobromic acid and ether in mixture was given; in two days the temperature was below $100^{\circ}$, and the mixture was discontinued. The temperatare soon rose egain, and the salicylic acid misture was resumed and continued for four days; during this time the temperature was kept helow $103^{\circ}$.
At this time there was evidence of extensive breaking-down at both bases and, to a slighter extent, at both spices; the patient was delirions, had little or no sleep, sweated copioulsly day and night, and was dicrotic the tongu; there had been some hamoptysis; the pulse found in the sputa.
February 14th, the patient began to take iodoform in one-grain doses every four hour.3. For the five subseqnent days the pastien remained in very much tho same critical and prostrate state. Then improyement began. The temperature settled down to a hectic form, with masimumu never above $103^{\circ}$; the general condition of the patient hecame better ; the pulse got steady and tho appetite inproved greatly. The iodoform had to be stopped on March Sth ou accuunt of gastric distarbance. No change worthy of note occurred up to 3arch 18 th, exch that the terupcraturo showed marked cscillatione, twice reach. ing $101^{\circ}$ and twice touchiog the normal.
Ou March 1 Sth inhalation
Ou March 18 th inhals tion of tho vapour of encslyptol was commenced. At this time there was dulness with coarse crepitation all over both of excasation mere excoscation in places ; coarso crepititation and signs greatly emaciated, and, including the temperature, all the symptoms

F The hemoptysis was doubtless due to shrinblag of the cicstricial tissue la the lang, and consequent iaceration of vessels.

Fere those of prononnced hectic. Thencoforword the patient impfored:

On March 24 th tho iodoform was resnmed. Now an attempt was made to control the pyrexia. The temperaturo was distinctly of the hectic type, the daily maximm being about $102^{\circ}$. Quinine in tongrain doses was given from March eith for six days, at particular hours correspondiog with tho definito times in the day at which the maximuua temperatures wera observed to occur. The idea was to break a habit, so to say; The plan succeoded, but the temporature fell to adupting different hours at which to reach its maximum, keep. ing at a markedly lower level than before. Accordingly the times at which the quinine was given wero chaoged. Tho temperature camo down to below $100^{\circ}$ for four or fivo days, and tho pyrexia seemed for a timo to hase been "scotcheu." Again tho temperature got into its old ways, and took to rising, sometimes to $102^{\circ}$, at an unusual time in the afternoons. Tu meot this, an additional dose of quinine was givon at 5 P. 3r. ; and now thirty grains were taken daily. The mext day tho temperaturs fell practically to tho zormal, and remained so, with occasioun and isolated exacerbations, to the end of the case in tho middle of June. The quinine was gradually discontinued, and Was stopped aitogether on Maj 16 th, the temperstnre having theu been norinal for ahont threo weeks. On thia day, May 160 ch , the
patient weighed 6 st. 7 lbs ., as sgainst 5 st .9 lbs a month before. Meanwhile ithe luags had been improving stoadily. The evidences of repair, first detected at the ond of March, wero now very marked; there was only a littlo dry crepitation at the right base close to the spice, and tho apices showed no signs of active mischief at all. At the end of May the patient was so much better ss to be able to get up overy afternoon.
On June 17th, the piticnt was sent to the seasido. The weight now was 7 st. 7 lbs. Tho spices wero quite clesr, and the only romaining sign of any mischief in tho lungs was a little dry crepitation at the right sile, between the angle of the seapula snd the spine. Three Weeks later, the patient canno up to report herself; she was then look. ing well, hat gained 2 lbs . in weight, and there was no trace of any lang mischief at all.
In July, 1887, twelve months after, the patient wis still well, her only troublo being shortness of breath on exertion.
Tho pathological coulitions and tho clinical featnres of thege cases, as set forth in the foregoing bistories, may loo recapitulatod, by way of summary, thny: An acute pocurnonic condition of tho lower lobes of the lungs at first-both lungs in one case-with concomitant general and special symptoms, declaring the disease to be acute croupous paeumonia.
A transition from the pnoumopic condition into an scuto tubercular and phthisical condition, beginuing in the parts first affected, namoly, the lower lobes. Thence, invasion of the apices, after the phthisical condition of tho bases was well assurof. Mapid breakiug down and the formation of romice both at base and apex. Then, the discovery of tho tubercle bacillus in tho sputa confirmed tho nature of tho later lang mischirf, and gare significance to the geaeral constitational sym-ptoms-hectic temperature, night-sweats, wasting, etc.-as wellas the local characters.
After thiy, wa havo the repair of the damaged lang-tisaue by fibroid substitution. This repair Iroceoding simultsreously both at base and apes, and traced by physical signs most distinctly duriog its progress.
Finally, in tho first caso, the accilent of profuse hemoptrsis; cansed no donbt by the contraction of tho luag tissue, whoso building up, step by atep through many months, had brought with it both healiog and destruction.
It will, I think, bo of alrantage to recapitulate what has beon eet forth 35 to tha treatment of these cases, and at the same time to add some particulars, so that a complete view of the wholo troatment adopted may bo gained. A distinction into goneral snd local trestmont seems bardly possible ; yet it may be conreniont to apply the terin "local treatmont" to those means a lopted with the spucial object of infloencing the localised mischief in the lungs-tho antiseptics, to wit.
As regards the general trestment: For Caso i, a mixturo of solphuric acid, bark, and cther was used protey continuonsly throaghont the caso, and along with the other remedies. Codliver oil was taken at intervals and for short poriods, but it was horne badly. Kairin and quinine wero ased as antipyretics. Tho former did always cffoctually reiluce ternperaturo, and quickly; but, as is uscual with all antipyretics of its clesg, tho fall of tcinperaturs was transient, and the resulting dep;ession was marked. Quiuine was nsed in large doses, at intervals only ond for a sbort time, without any effect as to the general progrees of the case.

In Case If, a mixture of snlpharicacil and quinine (four grains), or
one of tincture of perchloride of irou and quinine, was used almost throughout the case. Cod.liver oil was borne well and taken for a considerable time. Salicylic acid and quinine wero usod as antipyretics. The formor produced good effects undonbtodly as regards steady and continuous reduction of temperaturo. But, notwithstanding its combination with other, the depressing effects were sometimes a source of auxicty. A spocial festure in the treatment of this caso was the mode of using quiaine, in moderate doses, to control the pyrexia-a method attendel with unqualified success.

Aa regards the locsl treatment: This consisted in tho uso of, first, iodoform. The drug was given in pill in deses of one grain, six grains in the twenty-four hours, It was givon for long periods in both eases. In Case 11 it was given slone, and was tolerated remsrkably well. In Case I it was for a tione combined with ono grain of quinine and one-eighth of a grain of hydrochlorate of morphine, but no advantage was gained. On mere then one occasion the attempt was made to increase the doso to two grains, bat this dose always caused psin anil gastric disturbance. The iodoform wes taken by this patient for nino months continuously, with the exception of two weoks. Secondly, inhalation of the vapour of oil of eucalyptns. This was used only in Caso $\mathrm{Ir}_{\text {, }}$ sud here along with the iodoform. The vapour was inhalcd by means of a celluloid respirator inhaler, worn continuously except when taking food or sleeping. No nansea or other unpleasant effect resulted. Finally, a liberal diet was allowed throughout the cases. As soon as the patients begsin to experience the good effects of the iodoform, the appotite improved remarkably, aud good food was supplied rithout stint. From an early periou after the return of appatite some stout was taken with the dioper.
Remarks.-As regards the general principles of the trestment, everyone knows what they are; and it would ill become me in this assembly to reproduce them. But, as regards the special methods of the treatment by iodoform and eucalyptol, or both together, lot me ssy :

I see no reason to doubt that, when iodoform is given in doses which tho stomach will tolorate well, and given frequently and continuously for long periods, it is absorbed into the circulation; and in the lungs, in whatever form it be, manifests its antiscptic (shall I also say, antibacillary ?) pronerties. The good effects of iodoform so admiuistered, in phthisical couditions, is too unequivocal to be gainsaid, hovever they may be produced.
2. I see no reasen to doubt that, when the rapour of the oil of enealyptus (or other antisentic vapour that can be tolerated equally well) is inhalod continuously and for long poriods, it reaches the residusl air in the lungs; and so externally, as it rore, bathes the affected tissues, or 昭purating cavitics, which may be open to the ingress of the air.
3. That so, I apprehend, we may have antiseptic ramedies, not antagonistic, brought up on two sides to the sites of inflemmatory lung lesions, or the sites of bacillary activity; and theso antiseptics, mutually co-operative, do affect for good both the inflammatory process and the bacillary ectivity, and bring about repair by the mode of organisation after suppuration or fibroid substitution.
4. And further, let me say, that I thiok it is both correct and deeirable to treat the pyrexie of acute phthisical processea, whather the temperature be high or moderate, by and for itbelf. I think Case II goes to ahow, that there is both an agent-quinine, to wit-and a mode of using it, which will do great things for us in regard to this object. I think no other specisl antipyrotic than quinine ehonld be used in phthisie; and quinine aserves other purposes as well when nsed as buabtipyretic in moderato doses. And at lesst it is in evidence that tho delibarate intention and plan which was carried out in Case II bucceaded perfectly threo times in succession in controlling the pyrexianot the temperature only.
1 may now sum up the whole in some remarke on what I conceive to be the practical outcome:

In our treatment and goneral management of these cases, it is our aims to promote or bring about healing of the damaged lung tissue, and thit by means of fibroid substitution. In order to attain this end, we must secure the amo conditions and adopt similar measures, if we ean by any means compass it, to those ro tind successfal in dealing With suppurations, ulecrations, and tho like losions, in parts exposed to view. To eecure these conditions, we should adopt moasnres for supplying aderquate nutrition-that is, alernate anabolism of tissue and tho storing of energy-in tho body geuerally, and in tho damagod part in particular. We ahonld deal with pyrezia on its own account, as a general and constitutional stato, apart from tho local suppuration or ulceration (as by quinine). We should bring the lesion under the influence of antisoptic remedios, both by internal medication (as by
iodoform), and by external applications (as by inhalations of enca. lyptol) ; and the applicstion and influence of the antiscptic should be complete, continuous, and prolenged.

## DERMEPENTHESIS.

( $\Delta \hat{f} \rho \mu \alpha-\bar{\epsilon} \pi \epsilon \nu \theta \in \sigma \tau s$.)
ib G. F. CADOGAN-MIASTERMAN, L.K.Q C.P.I.
Tue valusble expedient of skin grafting is attended with several inconveniences. The donor finds the "snip" rather painful, the little sores are some days in healing, and there is danger, if alien skin be used, of convesing, disesse with it ; and, when there is a large surface to be covered, the process is tedious and often disappeinting. Frog's skin has been used, but theso amphibia are so repulsive to many poople, and especially to women and children, that after two trials and failures I gave it up.
About two years ago I was treating in the nsual way a broad wound surface in a young farmer, whe while riding sustained, from the shaft of a passing cart, a ragged, laceratel weund extending from the middle of the thigh to Ponpart's ligament, and invelving the muscles. The wound was cleansed and treated aseptically, but the crushed integument at the back of the thigh and much of that in front sloughed a axay altogether, leaving a surface of about ten square inches to cover, and, after a week of human skin grafts, this was speedily effected with portions of young wild rabbit's skin. The second case was one of a large varicose ulcer, and quite successful; the third, a middle-aged tradesman, hail severe orchitis, the result of an sccidental blow. Delirinm tremens ensued, and prohably as the result of further injury, the whole of the integument of the scrotum sloughed away from the root of the penis to the perineum, leaving the tunic of the testicles cevered only by the pale, pink lattice of the cremaster muscle. There wss a berder of but half an inch of Lealthy skin left after the slough had separated, and the caso was complicated by large hed sores sud the extremely bad state of the patient's health generally. Hewerer, I found that a disc of skin, two inches in diameter, would corer the testicles, and again tried the rabbit as its source. The animal was killed by a blow on its neck, and the previously shavel and marked out piece expeditiously cut from the abdomen, pressed smoethly over the wound, covered by a piece of wet lint; then a fair-sized het poultice, which was in turn kept at a proper temperature by a frequcntly refilled hot-water cushion. At the end of ferty-eight hours the applied skin was cautiousl y examined, and feund to be adherent. It Trsa re-dressed as before, and supported by a special suspensery bag padded with sublimated cetton-weol. On the fourth day the onter layers of the skin separsted, learing a firm, smooth surface more like the mucous lining of the lips than integnment, and, except that it has greatly thickened, so it remains to the present time.
The fourth was a pale, flabby ulcer, after a very tedions case of hipjoint disesse ; and therein, after many trials with rabbits of all ages, the plan failed utterly. The fifth was a very severe case of burning, in a little child; the whole of the skin of the back frem the shoulders to the nates, the back of the arms and thighs, had been destroyed, in some places down to the muscles. After the carbonate of soda treat meut (which relieved the pain immediately), and the surface had heeu pretty well cleared from sloughs by lotions of very dilute nitric acid under an outer dressing of iodoformed cerate, a number of rabbit-skin transplantations were made at iutervals of about three days. The grester number adhered, aud I had succeeded in covering nearly half the trunk, when the child unfortuvately died from pneumonia, three months after the accident.
In order to secure success, healthils granulatiug surfaces should be selected for treatment, and young wild rabbits for the discs of skin. These may be from 0.5 to 1.5 inch in diameter, and, operating alone, rarely more than one can be taken from each saimal ; for, slthough it is killed in the castomary mauner by a blow at the back of the neek, the skiu must necessarily be still alive to be of any sabstitutionsl value. If it were not for an obstructive Act, the best plan would be to chlorofora the auimal, remove as much skiu as neeessary, sud then kill it before it had recorered conscionsness. As it is, not a moment must be lost in the transference. Young wild rabbits are best, because their skiu is very thiu, contsins no fat, and separates readily from the subjacent fascia; and I think discs not larger than a shilling succeed best. There is no need to remore the fur, it comes away within a week; and the skin should be pressed closely down on the surface of the wound, so as to expel the air, and kept thoroughly warm by a poultice or hot-water bag.

1 have used the term "adbering" in place of "growing" for I am in diubt if the transferred skin really unites and grows with the sarface it covers; in every case the fur-bearing layer separated after a timeso, it can be only the inner, perhaps the oupericisl, fascia, which is rcvitalised; and, although prolongatiens could be seen starting from the edges of the adhering discs, they were neither so marked nor so vigorous as those from grafts of human skin. The latter I have often noticed to start the growth of new skin from sites in which they have themselves apparontly perished; and it is possible that the rabbit skin may act rather by influence than substitution, sad se determine the conversion of granulation cells inte integument under the smooth soft, and, pessibly, still living shield.

## CASE OF OBSTRUCTION FROM GALL STONE-SPONTANEOUS FRACTURE AND RECOVERY. <br> By arthur Jamison, m.D., London.

Tre discnssien at the meeting of the Clinical Society on January 13th, on the treatment of gall stones, and the question are we to interfere at once in subsequent obstruction from them induces me to place on record the follewing case. Probably early laparotomy in very urgent cases is the best procedure, but at times cases crop up in practice with such unanticipated endings, that they may rank as true clinical experiments. The patient, a woman 36 jears of age, of very spare habit, had long suffered from gastric troubles, slight jaundice, aud occasional attacks of seevere pain. In the right hypochondrium she had a swelling over the region of the gall bladder, moving up and down with respiration, and general tenderness arond it. I was sent for to seo her in great haste, being told she was dying. When I got to her bedside I found her in comprative ease. She told me she had had an attack of the most violent pain and intense retching 历hich had suddenly ceased. The tenderness over the liver was much less and the swelling hardly to he felt. Things went on very well for two days, when another attack of acute pain came on, now referred to the region of the umbilicus, great rioning and constant nausea; there had been no motion siuce the previous attack of pain. The pain now came on in paroxysms, the intestines could be seen moving,,tortuonsly sbout, and she said the pain seemed to "stick in one spet." There was no rise in temperature and the pulse kept fairly goed. It was obrieus that the case now was one of olstruction from a gall stone. I told her plainly that the issue now might be fatsl, and strengly urged her to subnit to operation. This she steadily refused to de, having heard of a fatal case, so matters went on for fonr days longer, no motion had been passed nor any liatus. I kept repeatedly urging her to have laparotomy performed, bnt she still steadily refused, and I became mere and more confident in telling her of the outlook in her case. Judge of my surprise when in the evening I fonnd her much better, she said she was quite well. She told me that shortly afer my last examination she felt something give way during a violent pain, and almost immediately afterwards passed a hnge bilc-stained metion, aud within an hour another conious motiou. This had not been thrown away, and on examiving it I found two. pieces of what had been a large gall stone of softish consisteuce. I fancy the stone must bayc been grippod and fractured spontaneously from the force of the intestinal contractions. Homever the patient quickly mended and got comparatively strong. She rather drily asked me if I did not think she "was better unopened."
Of course, during the trestment, she was kept ceustantly under opiura ; but she was quite sure that, in the form ef morphine supposi-
tories, she got much or hy she got much more ease than when given either oy the mouth or hypodermically. This was not the first time I had heard patients
prefer opium by the rectum. This patient refused to hare any hypo prermic opium by the rectum. This patient reflused to hare any hypoderric injections of morphine, When she said she 5 .
ret so much more
of a of obstraction werc obvious, she was kept to as little iecd water to sip as possible. She suid that all attempts at rectal feeding bronght on her 1 1aroxysms of paiu, anl preferred to keep to her iced water. These two theraneutic facts I have seen brought out, in esses of obstruction, over and over again ; and I am perfectly suro thst, till the pulso and temperature begin to rise, absolite starvation, and luorphine by the rectum only, give the best chances of success. But, if the temperature or pnlso riso (and I think the pulse is the safest guide), then laparotomy should be resorted to without delas. Ir is quitc possible Mrr. Tait's suggestion of trying to crush the stone might bs tried first. It would do no harm. At all events, this case gocs to show that the chances of spontaneons fracture shonld not be omittel froni our oal. culations.

COLOUR-ELINDNESS IN TIE MEIRCANTILE MARINE OF THE UNITED STATES.
Br S. T. ARMSTHONG, M.D., נп. D.,
[asked A soistant-surgeon Linlevil states Barine Hospital Service.
The very interestiog paper on "Culour. Blindness : ita Present Position in tho Jercantile Marine Servico;" Which was resd by Mr. T. II. Rickerton, at the meeting of the British Medical Association in Dablid, last August, and the Editorial comments thereon in the Jourval of November 12th, have prompted me to prosent the results of the experience with this question of that branch of the United Staics Service which has supervision over the sanitary sffsirs of the unercantile marinc.
It was a mattor of some surprise to note the high percentage of colour-blind seamen in the results of the Board of Trade examinations, hut this seems explicable wheu it is ualerstood that the names of the colours are requirch.
Sinco $15 S 0$, all pilots on harbour vessols aad steamboats, on the rivers and lakea of this ccuntry, have been required to passan exsmi. nation for colonr-blinduess. This examination is requirod of the officers sad seamen of the Revenue Marine Service (coastguard), snd of the surfmen of the Lifo Saving Service. The officers and seamen of the navy are examincd by the eaval surgoons.
The eramioation is made with Holmgren's test. The names of the worstel skeias are not necesssrily referred to, as very often the individual examined doas not know the names of any but the primary colours. Occasionally the mental processes of tho seamen are so slow, that it is necessary for the exminer to frst illastrate the examination liy making the entire selection bofore him, of coursa this would in no miso assist a colonr-blind person to make the proper selections.

From the aprended table it is seen thst during the past e日ven yesrs, 20,742 ocamen havo been examined for colour-blindness, and 478, or 2.3 por cent wero rejected as unfit for service, on account of this disability.

It should be understood thst the law does not reqnire the officers or sovmez of vessels engaged in foreiga tra lo to pass this test. It must also be noted that in reslity the percentsgo of colour-blindnoss, as given above, is a little high on account of nen who hsve been rejected
at one city coming up for an examination elsewhere. This was par. ticnlarly the ca3e when the law was first passed.

Suveral instances of this character may be eitcd. Pilat J. F., exsmined suld rejected on July 13th, 1881, was agsin rejected on July 27 th. P'ilot G. S. F.,. rejected April 6th, 1882 , was again rejected on July 5th. P'ilot J. F., managed to secure examinatiou on Auguat 24 ch , sud Decomber 16th, 1832 , a ad February 7 th, $1 \$ 83$, each time beiog rejected. His experience was equallod by Pilot G. W. H., who was rejocted on August 25 th, November 20th, 1886, and February $9 \mathrm{~h}, 1887$.
In one instance coming onder my notice, a pilot, who bad been rejectei twice, had a friend persowate him, and the latter baving normal colour sense, obtained a successful certificste; the frand mas diseovered, horever.
Mr. Bickcrton's inquiry to ship-owners, relative to the employment of colour-blind men, met with sn affirmative response once in my ex. perionce. The master 3nd owner of a steamboat, on tho Migsissippi liver. brought a man to me for examioation for colour-sense. The man proved to bo colour-blind, and on looking over the recards, his rejection several yesrs previous was found; the uan said he had not expected to pass, and stated that his steamboat had once collided with, and sank, a steamboat, on accourt of his inability to distinguish the signal lights. II w would be emplyer was aware of thesa facts.
As the fxamination of sll railroad cmployes has been required by law in several of the United States, as well as ia some European conntrics ; and public opinion has been edueated towsrds a recognition of the nocessity of examinations of tho ability to distinguish colours by cmployés of railrosds and vessels, it seems desirable that the State should regulate the examination of the first class; aod if by international agreement, no person bo shipped, either as officer or seaman, who has not passed a satisfactory physical exsmination, the competeney of the second class would be assured.

Of course special provision should be made in the case of a sesmsn of ten to thirty yeara' service, who ia colour-blind. It rould be as manifestly unjust to absolutely debar him from following his vocation, as it would be to prevent a man who has spent the ssma time in the atudy and prsctice of medicine from pursuing it for a similar disqualification. In such casos, in this country, day liceaces were issued.

It is to be hoped that international legislation will soon be consum. matcd, ensuring the safety of ships, and of those who travel in them, from accidents due to colour-blind seamen.

Examinations of Seamen for Colour-Blindncss by the United Slates Marine IIospital Service. ${ }^{1}$


1 The Percentages in this table have been added by us.- En.

THERAIEUTIC MEMORANDA.

## A CASE OF URAEMIC CONVUISIONS SUCCESSPULLY TREATED BY PILOCARPINE.

d. M., aged 21, fell ill with scarlet fevor on October 13th. Ho weat on well matil November 3rd, when symptoms of nephritis showed themselves; tho attack was slight, snd appeared to iunrove rapidly ander treatment.
On Novemiter 10th I found him in aremic convulsions; the fits ocenrred every for minutes. My friond Mr. Cox aaw him with mo, and, with his concurreace, I injecterl one \&bird of a grain of pilocarpino into the front of the forearm; the patient soon began to swoat profasoly, and the convalsions gradaally diminiahed looth in force and frequency; they recurred in the early part of the night, a hout every filtcen or tweaty ainntes, but with longer intervala towarila morning; at 8.30 A.M. I ieveated the pilocarpiae, and the intervals between the -mivulsions became still longer; in the afternoon, wheo ho becamo senaiblo enough to swallow, I gava him one-third of a grain of olato.
rium; this acted frealy, and he probably passed a littlo urine at the same time, otherwise ha hsd passed noDe since 7 or 8 the previous evening; as the courulsions still recurred at frequent though longor intervals, I again injected one-third of a grain of pilacarpine at 9.30 P. m, During the night he had a ferv alight fits, and in the mornigg, about 11 A.m., I gave him another injection of pilocarpine, and tho last fit occurred shout 4 r.m. on that day. In the evening I againgave bim ono-third of a grain of elaterium, which acted treely, sud he now passed moro urine, the urine having been vary scant up to this time.
On November 15th he had symptems of more convulsions coming on, but I gave him soothor injectiou of pilocarpine, and this
passerl off. passerl off.
IIe lay io a somi-comatose condition from November 12 th to 17 th, swallowing whst waq put in his mouth, but totally unconscious of overything going on around him, and taking no notice of anything; on Noveniber 17 th he was maniacal, and on November 20 th be could not be kept in bed. Duriog the whole of this time the bowels had
boen kept open by occasional doses of e!sterium, and he had taken a
mixture containing liq. ferri perchlor. and liq. ammon. acetas. On November 22nd he hecame sensible, and talked rationally, but had no recollection of anything that had occurred since November 10th ; on November 25th, for the first time since the commencement of his illiness, there was no trace of albumen, and he improved rapidly ; on November 2sth he got up and dressed, and from that time made a good recovery, and is now again following his trade as a shoemaker.

I think wo have in pilocarpine a most prompt and valuable diaphoretic; the preparation I used was ono of the hyporlermic tabloids prepared by Messrs. Burroughs, Wellcome, and Co.
W. J. Franklin Churchouse, L it C.P.Ed., etc.

Long Buckby, liugby.

## CLINICAL MEMORANDA.

## NARROW ESCAPE FROM CHOKING.

I Was called a short time since in great haste to an old man who, I was told, had had a "fit" while eating his dinner. On my arrival he was lying with his head over the back of the chair, livid and unconscious, his edentulous month wide open. Respiration appeared to have ceased. Nobody had any explanation to offer as to what had oecurred, but seeing his empty plate before him, I put my fingers as far as I could get lown lis throat to search for any morsel which might have become impacted. I conld fcel nothing, however, and sonewhat at a loss what to do, I put him on the couch and tickled lis fauces with a feather pen. In a minute or so he gave a desperate gulp or two, and bronght up a large piece of half chewed meat. Unable to cut his meat himself; and impatient that it had not been cut for him as usual, he had commenced masticating one end of the slice, on attempting to swallow which the whole slice was drawn down the cesophagus, and had become fixed. It was fully five minutes beforo he recovered consciousness, when he showed every disposition to recommence his interrupted repast.
The procedure is a simple one ; and although 1 am not the inveutor of it, any more than le fil id couper le beurre, as the French say, it might be useful to bear in mind as a ready and available emetic.

Alfrem S. Gube, L.R C.P., M.R.C.S., atc.
The Grove, Hammersmith, W.

# ODHTHALMOLOLICAL MEMORANTA. 

## ATLOPHY OF TIE OPTIC NERVES TREATED BY PILOCARPINE.

The Journal of November 8th, 1884, contains notos of a case of atrophy of the optic nerves treated by hypodermic injections of nitrate of pilocarpinc. Prolonged treatment by recognised mathods had been fruitless, and wheu the pilocarpine was commenced (July 15th, 1882) the patient required a guide, and with difficulty could with cither eye see the fugcrs at the distance of a few iuches. The improvement was soon such that the guide was dispensed with, and when the patient was shown at the anuual meeting of 1884 he could with either eye spell words of No. 3 at a distance of sereral inches, and sometimes eren words of 1.75 . The case is one of whose subsequent bistory there should be some record. There was iurther treatment by pilocarpine, and further improvement in vision. On the 26 th of last Mlay the paticut could with the left eyo read 1.5 at $4 \frac{1}{2}$ inches with trouble, and aven make out same words of 1.25 ; and with the right eye spell 2.25 at 4 inches. He distinguished coloure quickly. The discs were white, with the exception of a little piece at the temporal side (reversed image), which was slightly rosy. What is particularly gratijying is, he was then earuiug his livelihood as a labourer in the shipbuilding yard of Harland and Wolfl:

Manchester.
David Mclieow, M.A., M.D, M Ch.
Pasteurism in France.-During the month of November last 115 patients were treated at the Pasteur Iustitute in l'aris. Of these, 28 hal been bitten by animals which were proved to have beeu suffering from rabics, cither by the successful inoculation of other animals with the medulla, or by the production of the discase in other persous or animals bitten at the same time; 64 were bitten by animals declared to bo rabid by competent veteriuary anthorities. In 23 cases the bites were intlictod by "suspected" animals. No informations as to any case of death has been receired at the Institutc.

# REPORTS 

HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND TIIE COLONIES.

## NEWCASTLE.ON.TYNE ROY゙AL INFIRMIARY. <br> (Cases under the care of Mr. Page.)

[Reported by Mr. Maynard, House-Surgeon.]
Central Sarcoma of Upper Eind of Femur; Amputation at Hip-Joint.-J. P., aged 16 (nearly 17), was admitted on February 9th, 1887, complainiug of a swelling of the thigh of seven months and a half duration. Seven months and a half ago he fell and hnrt tho left hip; he whs confined to bed and has never waiked since, though the doctor says he had no shortening or swelling. It was diagnosed as morbus cosx. Six weeks later, swelling hegan in front of the hip. joint-painful, worse at night, and slightly tender. It has gradually increased, and shortening came on since. The hip was examined under chloroform, and a spontaneous fracture found. When admitted, the boy was found to be very feebly developed; no hair on pubes; looks about 12 or 13 ; organs otherwise soucd.

The left leg lies on its outer side, with foot everted ; I inch shortening. The upper third of thigh is occnpiad with a swelling, which is evenly hard, elastic, not lobulated, and which extends all ronnd the joint, beginning abore, ju,t below Poupart's ligament (from which it is separated by an interval), reaching up to perineum on inner side to above the great trochauter on outer side, and to same level behind. Its rertical extent is four inches and a half in front, less at the sides and hehind. It is fixed, and the femur, tumonr, and pelvis all move togother ; no crackling any where. The skin is normal, except that a few veins course under it. No enlarged glands to be felt, though there is some teuderness in left inguiaal region on deep pressure. The left thigh over it measures three inches and a quarter more thau right.
On February 15, Mr. Page amputated at the hip-joint by a short anterior and longer posterior Hap-nsing Esmarch's tubing ronnd abdomen-no bleeding. The tumour proved to be a central sarcoma (slifulle-celled) of upper one-third of femur. The bone was expanded aud thinned, remaining only as plates on surface of a large blood cyst as it wers-sarcoma tissue. The head was completely filled with the gromth, but its cartilage was healthy and the joint not involved. Tho muscles were not involved. He rallied well. February 23rd, had done well. Temperature up a little at nights, and onter end of wound had opented, and some bagging taken place.
Aptil 1st. Appetite improving, but is rery thin. Can stand now. Wound nearly healed. April 12th. Wound qnite healed. June 3rd. Stump firm aud sound. Cau hear weight on it, and is in rery good health.

January 24th, 1888. The lad lias developed considerably since the operation, and is to-day strong and plump, without any sigus of return of the disease.

Hypertroply of Leg. Rare Misplacement of Testis.-J. C., aged 10, was admitted ou March $20^{\circ}$ th, 1836 . He was born with the right leg thicker than the left. Nine years ago the foot began to swell after an ivjury, aud the skin on the dorsum broke five years ago, and has never healed.

On adunission the logs presented a great contrast; the left was normal, and the right also as far down as the knce. The knee joint contained some fluid. The log was eularged, three inches and a quarter more round tho calf than the left, with a flabby sort of adema; no pitting on pressure. The skin is alrays sweating (loft not) and has erythematous rashes on it every fow days, when his temperature rises high. The skin is soft and supple, and contains a fow large veins.
The foot is very large, and on its dorsum is a largo quadrilateral ulcer with uneven, rough socidon base, irregular, indurated, and ele. vated margins. There are no sinuses, and no bare bone can bo felt. The tibis is smaller than the left, though louger (one inch and a quarter).
Lying at the suporior internal anglo of Scarpa's triangle, over the sapheanous opcuing, is au oval swelling the size of a pigeon's egg, parallel to Poupart's ligaument bat one inch below it, and external to the spine of the pubes. It is hard, not very tender, gives riso to a somewhat sickening sensation when squeezed, and is movable. Thera are ceveral eularged lymphatic glands lying round it, and there is a hard iudurated mass running along its posterior border and ending
above in a rathor large "hosd," vory hard. It is evidently the right testis; he asys it has been thoro sinee ho was born, and there is only one testis in the scrotum-the loft. After it hal been examined orchitis set in, and $n$ sort of cord could be felt ruuning from the testis inwarls to the peribeum, though, whother due to inflamod lymphatics or whether it was the cord was donbtful. Syme's amputation was performed on the foot, and the tarsus found carions. He has never consented to hase the testis romovel, though ho has not infrequent attacks of orchitis.

## PMINCE ALPRED HOSPITAL. SVDNEL, NEW SOUTH WALES.

A CASE OF CALASON DISEASE.
(13y G. E. Twrsam, M.R.C S.E., Assistant-Surgeon.)
G. II., a strong, healthy man, weighiag 14 stone 3 lbs., went to work for the first time it the cylinder at the Iron Cove Bringe on March bith, 1589 , at 9.30 A.st, a a d eame out again at 12.30 p.s. During this time he was working under a pressure of 60 lbs to the square inch, or four atmospheres.
Whilst in the cyliuder he seemed well, and especially did not notice the pain in the cars so often complained of. At $12.30 \mathrm{r}, \mathrm{M}$. he came up into the airlock, and in threo minntes the pressure was reduced to the ordinary atmosphere. He left, and shortly after, on the way home, felt a severo prain in the right elhow joint as thongh he lud been struck on the ulnar uerve. Within half an hour his right knee sul. denly gave way, and he fell, and in a fow minutes becana semicodscious.
In this state he was takan home, when very acnte pain set in in both knces and both elbows, but there was no markal swelling in the joints. At 6 p.M. he was almost pulselesy and quito chilled. For two days his face was very swollen, and he spat blood slightly for three or four days after tho areident; it then ceased, but beran again within the month with cough and night sweats. IIo had shiftiog pains in rarious parts of the hody for seven days after the accident. From a week to a fortuight after hio commencement of the attack the min sudilenly left the other joints aud concentrater itself in the right knee, which began to swell and contract. A month later the limb was forcihly straightened under chloroform by Dr. Shewen, and seenred on a back splint. Within fourteen days an abseess in the popliteal space appeared, which atterwards proveil to bo connected with another some inches higher up, at the back of the thigb. These were opened early in Jnly aad drained, when another swelling with but slight pain ress discovered in front of the right trochanter. This was aspirated twice, and about two pints of lluid iu all drame ofl. Tho abicess cavity was attorwards draiued, and finally in August laid open, when a sinus was discovered leading up to the groin, of which the end was never reached by a probe. At this time the leg again coutracted, and remained so during the latient's voyage homo to Eagland.
In April, 1893, thirteen months after the injury, be was seen by an ominent sargoon in London, who failed to discover liseased bone, but advised the leg being straightened ou a Maclotyre's splint, which way done io nineteen days. He left Eogland May 19th, $18 \times 3$; during the voyage the leg contracted agaio, and remained so until I saw hins for the first time in Novenber, 1831. He thed haid two or three sinuses on the onter side of the thigh and one in the popliteal sprace. I enlarged two old oprenings, seraped out the sinnese, and followed one beneath the femoral vessels to tho iuner site of the leg, and op into the pelvia, but conld not touch leal bone. Thia, to my regret, tid him no real benefit, for the sinnges coatinued to discharto, and I $88 \mathrm{~F}^{\circ}$ nothing of him for a year, until October, 1885, when he appoares? at the out-paticut department of the Prince Alfrell Itespital. Dearl bone was then detected in the popliteal space, and ho was advised to come in.

On October 21st, under chloroform, tho ainus was explored, and a prohe passen throngh the condyles.
On October 23th, I amputated hy antarior ent posterior flaps tlrongh tho lower third of the femur. On section, the bone looked anything bot healthy, being of a greenish colonr in the inedullary caosl and cancellons part, with a sioll of sulphuretted brdrogen. I shoull at once have removed it higher up had I not promised not to do so ; however, 1 scraperl ont the ainases near tho trochanter thoronehly.

Ke mado a grool recovery, hia temperataro only once reaching $101^{\circ} \mathrm{F}$., and that on the second night after operation. IIo was dis. charged at tho ond of November with a ainus at the point of the stump, tho old sinus hy tho trochanter still discharging a little thin pas. He coctinned thus notil the beginning of January, when be
camo to be examined again. I then fonnd nocrosis whon probing the upper sinns, and consequently recommencled the removal of the remander of the fomur, as bare bono conld be felt at the point of the ettump also.

On Jannary 13th, 1896, using a strong india-rnbber tobe as tourniquet, npplied in firure of eight round the limb and pelvis, and hold in position by bandages, I removed tho bone by Furneaux Jorlan's mothod.
At first tho patient was vory low, but under opium and braady ho rallied, and the dressings wero changed for the first time on tho second day. T'wo openings on the face of tho stump wero still discharging at the time he lett the hospital.
In June, 1886, I fonnd a roughness at the end of one sinus which had not closed. Some new bune dephsited from the portions of periostoum left behind ; two stout silk ligatures were removed, and afterwards a maioful nerva end was exvised by Dr. MacCurmick when I had left for Eagland. This left hima very good stump or pal, and he has since gained weight considorably, and now weighs 12 stono, 5 pounds.
An examination of the bone after removal showed that the periosteum surrounding the whole bone from end to end was about a third of an inch thick, with a layer of new bone under it closely applied to the old shaft. The compact layer of the old shaft was palo and neerosed, but the caneellons part and modulla were stuffed full of a green coloured fatty material like putty, which no doubt was the original melulla, changed probably by eifusion of hlood into it. The decomposition of this gave the peculiar eolonr noticed on section. The surrounding tissues were matted together, and the openings of the sinuses wore in such situations that the bone could not be reached hy a probe.
Remarks by Mr. Twysam. - The most interesting point of the whole ease lies in its causation; for this I must refer you to the Croonian lectures for 1881 by the late Dr. Moxon. Some of his conclusions are, shortly $:-1$. Having given the anatomical uses of the cerebrospinal lluill, he goes on to prove that the human brain is capable of withstanding cnormons intra-erauid pressure without real damage, provided asphyxia or strangulation be not present. 2. The real danger to the nervous system depends on the pressuro being too rapidly removed. 3. Further on he shows how paraplegia is dependeot on the poor blood supply of the spinal cord, espucially the corda equina, in consequence of the great length and small calibre of the spinal arteries. Through the cervical dorsal portions of the cord these arteries are reinforeed by suall branches which pass in on tho nerves, hut in the corda equing, such as there aro, are long and very small. When the pressure is removed rapidly there is a great rush of bloal into the tissues of the surface of the body. The spinal cord theu being very poorly suppliod with blood is in a state of marked nnemia, and 1 may renind you that anemia in other cases is au early stago of "white softoning," as met with in ordinary paraplegia.
This, then, Dr. Moxon considers the reason why so many mon who have heon subjected to great pressure have suffered from paraplegia. But there is ono factor in this description of which ho makes no direct mention as influoncing the anæmic state, and which seens to me likely to havo considerable boaring on the prevention of these particular symptoms; namoly, the prolonged extraordiuary pressure of the cerebro-spinal flaid on the cord. It is trme that in the earlier part of his anatomical description he shows that as tho brain fills with blood, the cerebro-spinal liuitl is driven out to press on the cord, and that shilst the brain is gorged with blood the mea are lively and work well. One more anatomical fact : in the cord the cavity of the a-achnoil is Jarger below than it is above. Possibly the anatuic condition of the lower end of the cord may in part be produced by the pressure of this fluid, when re consider the hydrostatic relation of tho long column of fluil pressing the hlood ont of the tissues of tho cord. Uuder ordinary atmospheric pressure this effect is not sufficient to damage the cord, as it is mot by the emptying of the vessels in the loose tissues surrounding the dura mater. But with the increased blnod-pressure in the brain, ropresenting the power, and tho lower exd of tho cord tho body to bo colupressed-lying as it does in that part of the cylinder whore the diameter is the larger, and therefore the pressure is the greater-an anamic condition is produced, and the longer this is continued, the worse for the workman, honce the value of the "slort spolls," which hare been found to be the best preventitive under these circumstances. Certain it is that a too long continuance in the air chamber was almost invariably fellowed by exhaustion and paralysiy duriog the sinking of the caissous for the bridge at St . Lonis, whilst this paraplegic condition does not seem to havo beon met with in any of those who romained undor two hours in tho cylinder.

If tho pressure be taken off at once, instead of the circulation gauerally being evenly supportell by the atmospheric pressure being reduced by degrees, the blood will rush into those parts of the system which have not such long arteries, and into these faveured by geavitation, as shown by Dr. Moxen-so contiuning the anemia. Whereas, if the pressure be taken off gradually, there is more likelihoed of alt the vessels getting their fair shaze of nourishment.
With regard to the limb in question, the mednullary cavity auswers in some degree to the cranium, as the compact bone takes the surface pressure frem the medalla, but it had no means for the regulation of its contents, similar to the cerebra-spinal flaid, and I think it highly prohable that under the great pressure of the circnlation some vessels留济 way, and this was the origin of the thrombosis which led to the destruction of the bone, and so to a covdition such as Sir James Paget calls "quiet necrosis.

One more point regarding those cases: May not the pains se commonly noticed in the joiuts be' due to an engorgement of the synovial membranes, similar to that found in carly joint disease ?
[The patient was exhibited at a meeting of the medical section of the Royal Society of New South Wales.]

## REPORTS OF SOCIETIES,

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

## Tuesday, Jandary $24 \mathrm{th}, 188 \mathrm{~S}$.

Crorge D. Pollock, Esq., F.R.C.S., Presiderit, in the Chair, Before the papers were read, a very interesting case was shown by Dr. W. R. Goweris and Mr. Victor Horsley to the Fellows of the Society. It was that of a gentleman of middle ago, who had for mere than three years suffered with acute pain in about the middle of the back, just below and inside the lower angle of the Jeft scapula. The spot was very tender as well as painful, but belew the region of the fifth nerve there was almost complete auresthesia as well as complete paraplegia ; the accuracy of the delinititation was more distinct on the Left side than the right. After some discussion. the diagnosis of tumeur of the spinal cerd was agreed upna, aud Mr. Victor Horsley undertook the operation nocessary for its removal. On June 9th, 1857, the spines and lamine of the fith and fourth dorsal vertebrie wero removed without laying bare the cause of mischief; but when the greater part of the posterior part of the third vertebra had been remeved, a myxoma about the size of a filbert became visible in the spinal canal, lying on the right sille; and compressing the spinal cerd. This was shelled out without difficulty, and nu further new gromth was found. The pain was for a time slightly relieved, but again and again recurred with great severity, and the power of motion was onls slowly and internittently regained during the first three or fonr
weeks. The pressure over the wound jacks. The pressure over the wound was treated by a pad and strong jacket; the local pain gradually diminished; the motor power gradu-
ally returned to the lnwer parts; ; and, after seven months, the use of the lower limbs, though a little stiff, had beceme almost natural, and the remains of the lamine had come so near together in the' wellhealod cicatrix that any further exterual support seemed unnecessary.
On the Ocourrence of Tubercular Disease of the Testis as a Local Affection, parlicullarly leith Reference to the Disirability of Early Castration in Certain Cases. By Whmias H. Bennett, F.R.C.S. -The basis of this paper was a record of five cases of tubercular disease of the testis which came under the author's observations amougst his out.patients at St. George's IIespital. The cases were selected with great care from a considcrable number of patients sufficring from this Cisease, as they possessed the following important characteristics in
commons : 1. An absolutely perfect family history, and an entire abaence of evidence of privation, excess, or other conditions predispesing to the developnent uf tubercular disease. 2. A perfectly clean bill ot lealth up to the time of the onsat of the disease in the testicle. In this respect exception might perhaps be taken to the case of patient Ne . 5, who bad suffered froun ayphilis twenty-three years previously, but had never been troubled by any synuptoms since. 3. The canse of the original inflammation in the scretal contents was due in all the cases to direct local irritation, traumatic in four, gonerrheal in one. 4. In each case the spinal column shomod evidence of disease before in the immediate neighbourhood of the testis oricingally involved The spinal discase neighbourhood of the testidis originally that, with the exception of case No 3, in which it was discovered accidentally, its existence was not suspected by the patient. 5. In neither of the cases did the affection manifest itself in other parts until after the original disease had
broken dowh. These 'points were fully discussed, and the followiog propositions snbmilted : 'a. Inflammation of the testicle or epididy: mis, the consequence of -injury or direct irritation, might resslt ln
tubercular tubercular disease of a purely local kind, whieh, if left to itself, tended surey to gencralisstion. b. The greatost tendency to general infece.
tion was tion was at a time subsequent to tho breakiog down ot the original
diseasc. $e$. Parta rewete from the testis aiseasc. c. Parta remota from the testis orignaily involved might be affected before the opposite testicle, epididymis, or eitber semisa
resicle vesicle. $d$. The rational treatuient of cases like those onder discussion was castration, upon the appearance of disintegration about the original disease-that is; at the conmencement of what the author Marmed, for reasens stated, the "dangerous period." Mr. Howaki MaRES had found the resplts of his experience different frou the
cases which no case in which Bennett had brought forward. Ho conld remember no case in which rpinal disease was resultant -upon tubercular testis.
and be was inelined to fection of lumbar clauds tubercnlosis spreadiog from such a fous. Amons many cases of toner cular disease of the hip-juint that he had watehed there were very feur indeed in whan there was any phthisis; it would be correct to say that, as a rule, there was no sigu of concomitant disease in the body. He thought we were apt to exaggerate the dangera of dissemination of tubercle, and so be led to the umnecessary excision of some parts, for example, the knee, for locil tubercle. It was an operation in which it was difficult to be certain that all the tubercle was remored, and it semetimes happened that an operation merely excited the tubercle to fresh groorth, to wider spread, and ultimately caased rather than checked a tendency to geveral tuberculosis. - Mr. Cuvitosl had found mest out-patients with tuberclo of the testis in a condition quite unfit for uperation, inasmuch as buth testes were already involved when be first saw them. About niue mouths age, however, he saw a patient with a harid nodule in one eqididymis aul a discharging sinus. The orgaus of the other side were healthy. The cord seemed healthy, and there was only one morbid mass, which was considered to be an enr.
arged gland larged gland, ou the affected side. He tried to remave the nodnle
withont openiug the tunica vaginalis; bat in the conrse of the tion the enlarged mass proved to te the cord so that it bee the operaable to remova both cord and testis; a sinus remained open leading down to the stump of the vas deferens. The disease, in fact, proved to be toe widely spread for unilateral treatment, and in most cases he had found diseasa nn one side accempanied by disease on the other. He had not noticed cases in which it had spread to the spive.-Mr. Barieer remarked that if Mr. Clutton's case could have been treated, as $M \mathrm{Mr}$. Bennatt wished, hy castration before the disease spread up the vas deferens a general tuberculosis would probably have been aroided. Mr. Brece clatr bad fuund diagnosis often difficult, for some cases Another difficulty was to determine accurd distinguish from taberde. other foci. It was not difficult to understand the method semination, for a coloured material:such as Berlin blue; if injeoted into the testis, spread upwards easily into the thoracic duct; and that, as he took it, whis sufficient reason to explain why the tabercular disease of the testis spread so. much more readily than that of the had not made his meaning clear to Mr. Marsh. He had not said be meant to imply that what he descrihed was the common course of tubercular disease of the testis, but merely what had actually happened in 5 cases out of about 150 , from which he thought there was something to be learnt as to the method of ditfusion and tha mode as arresting it. The symptoms referred to the spine were berond what could be caused by inflaned glands. In one case theremas carious unine shown at a post-morten examination ; in another the spinal curvature was halt as large as his fist; in a third the stiffoess exteude up to
the upper dorsal proved, bnt relapsed, with spread in the spinal symptans had imMr. Clutton's case was dissinilar in hariag a nodule it the testis: whereas bis own point had been to advise operation bafore the formation of a nodale in the cord. It certainly needed some practice on the living and the dead to acquire a therough practical krowledge of the disease, as raising the had veutured to bring this subject bsore the Society the oprortmnities of stopping it.
Case of Intre-peritoneal Cuphere of the Blaidder; Abdominal Scotion; Suhure of the Bladder; Necorery. By W. J. VAlshan, F.M.C.S. -C. H, aged 22, was admitted March ist, 1887, into St. Bartholeing the night before, and in a fight was butted by his oppon drinkthe abolomen, his bladder being full at the tirae. He passed a night
of great agony, and was brought in a cab to the hospital the following morniog, but ho was then sulfering very little shock, and walked into the surgery with the assistauce of two frienda. He complained of pain in the lower psit of the sblomen, and of haviug been unable to pass any urine since the blow, although his bladder was uucoufortably fall at the time. The periueum was natural, and there wias no history of stricture On passing a catheter no urine flowed, although the point was ascertained to be in the blalder by the finger in the rectum. Oa depressing the handle the catheter was felt to free itself with a jerk, and its point could be then folt more plajuly thau uatural through the abdominal walls. Bloody urine now escaped, the flow varyiag with respiration. Abont twolve hours after the injury Mr. Walaham opened the abdemen, aud having discovered an intra-peritoneal rent in the posterior wall of the bladder, sewed it ur with nine Lembert antnres. The sutures were passed through the muscular and peritoneal coats only, and one was placed above and below the upper and lower angles of the wound reapectirely. The bladder having been forcibly injected with eight ounces of boric acid solution and found watertight, the peritoneum was irrigated with about two gallons of warm boric acid solution, and the abdominal wonnd closed as in ovariotoms. A catheter was left in the bladder for two hours, and the patient subsequently remindod to pass his urine every four hours. There was littlo shock, and the pationt recovered. Daily noteswere giren at length. Tha author remarked that there had now been serenteen cases in which abdomiasl section had been performed for rapture of the bladder, three extra-peritoneal and fourteen intra peritoneal. Of the three extra-peritoneal cases two died and one recovered. In the successful case the wound in the bladder was secured to the abdominal wall but not autured. In the fatal cases death was doe to shoek. The rent in one was fonnd securely sutared at the postmorlem examination ; in the other the rapture had not been discevered on opeaing the abdomen. Of the fonrteen intra-peritoneal ruptures the rent in the bladder was sutured in elever, and in three a drainage tube was placed in the round but no sutures emploged. Of these three one recovered and two died, desth being dne to peritonitis and snppression of urine respectively. Of the eleven cases where the rent in the bladder was secured by sutures fire recorered and six died, death being due in three cases to peritonitis in two probably to shock, and in one to hremorrhage from a perineal incisiou employed for exploration. In the three cases of peritonitis the sutures had piren way in one, and a leakage had occurred in the lower part of the wound in the otber two. In the five successful cases Lembert sutures were employed, aud the peritoneum was washrd out, and in only one was a drainage tube used. Tho author discussed: 1 , the adrisability of early operation ; 2, the impertance of usivg a suture which wif not becoms softened too soon, and of ascertaiuing before closing the abdominal wonod that there is no leakage Irom the bladder; 3 , the cleansing of the peritoneal cavity ; 4 , the inadvisability of a pre liminsry iocision in the nerinoum, or of a subsequent incision in that region tor the purnose of drain; and, 5 , the question of tring in a catheter after the operation. A table of the soventeen cases was given, aixteen of which are in Sir William Mac Cormac's table appended to his work On Abdominal Section. - Mr. Holars took a peeuliar interest in the aubject, and that, not only becanse be believed that he had been the first aurgeon to suggest this mothod of treatment. It was a suggestion that mast bave become obvious as soon as we learat how freely if was possible to deal with the abdomen. The preliminary diagnosis was sometimes very difficult. He had seen a caso in which the postmortem examination ahowed a rupture, but in which the pstient duriog life had passed water without great diticulty. Dr. Weis, of Philadelphia, had anggested the proliminary injection of the bladder with fluid, but that, he thought, added little to the certainty in doubtful cases. The reason of the retention of the capacity to paas water after rupture was atill to seek. If, as ho wasinclined to thiuk, it might depend on the fact that the rent in the wall of the bladder was incomplete at first, thon preliminary injection would be very dangerous. If it was due to the temporary plagging of the rent by the iutestincs, the aser course would be to cut down upon it early. It was important for disgnosis to mako a prelmminary exploration with a eathetor. In his own case that had been aufficient to render the diagnosis quite plain. He doubted whether it was a gool plan to inject the bladder after putting in the autores; it might help to tear them out, and if they were oear enoogh together it would be probably nonecossary. In all other points be condially agreed with Mr. Walsham'a treatment. Pcrineal imcivion had better be avoided; it was tho causo of death in Mr. Teale's caso, and had been merely vezatious in hia own. Me thonght we should come to regard these cases as comparatively casy, ao grest was the improvement in sbdominal surgery, compared to distant days whon bo could remember eecing a patient with ruptured
bladder, but still looking fairly strong, como under Mr. Crsar Haw. kins's treatment, who diagnosed his injory rightly enougls, but had nothing further to do than to watch him die of peritonitia. - Mr. Butian said that he had made a post-mortem on a case of DIr. Willett's, in which an orifica had been found in a sutured bladder after death, and that had led several who had seen it to make up their minds not to refrain from injecting the bladder after suture in any similar easo. Mr. T. Smitn rewarked that the operation could not lo called completed until the bladder had heen proved watertight, as in cases of vesico-vagioal fistula. - Mr. Binwell approved of tho injections before and after operation, though he had had no opportunity of practisiag them. - Mr. Walsham, in reply, had only a few words to say. He thought the prelimioary injoction might do a little good and no harm ; and the iojection subsequent to the sutures, he felt important, for in three fatal cases a leak had been shown to exist.

## DIEDICAL SOCIETY OF LONDOS

Mondar, Javuary 23Rd, 1388.
J. Hughlings Jackson, M.D., F.R.S., President, in the Chair. Clinical Epenina.
Case of Congenital (?) Deformily of Shoulder.Joints.-Mr. Bersarn Pitts showed a child who was brought to the hosnital on account of a supposed deformity of the apine, remarked sioce birth. There was a gap below the acromion processes, and the heads of the humeri could be felt in the subacromial position. No trace of the glenoid cavitios could be detected. The muscles were atrophied symmetrically on beth sides. He asked the opinion of the Fellows as to whether it was a case of congenital deformity or whether it was due to infantile paralysis.

Newoid Growth of Tongue.-Mr. Pitts also sliowed a child with a nepoid condition of the tongue. This had gradually increased in size, until it hung out of the mouth, necessitating the removal of a triangular yiece of the tongue to reduce its size. It was still increasing in size, sud he proposed to try the effect of multiple applications ot Paquelin's cautery.

C'ase of Nievus of the Tongue. - Mr. John Moroas showed a malo child, on whose tongue a nævoid growth was noticed when 18 monthy old. As since that time it had only increased in size pari passu with the gromth of the tongue, and as he had on soveral occasious witnessed spontaneous dis? ${ }^{2}$ pearance of similar growtha, he had decided to await the result of Mr. Pitts's experiment with Paquelin's eantery,

Case of Sporalic Cretinism.-Dr. Haddex showela a child, 3 years of age, with some, but not all, the characteristic signs of crotiuism, The child was dull and lethargie; the body was swollen and the skin harsh. Tho child was a "bleeder," and belonged to a hrmophilic family on the maternal side, and although ho was unsble to defioe the exact relationship of the bæmophilic condition with cretinism, he called attention to the fact that in myxadema hremorrhage was also a common occurrence. He also showed a child, 10 months old, who had various convulsire movements of the head and seck to the right, with nystagmus, the pupils often becoming dilated during the attacks. Tho child talked and walked well. He did not think it wis really a case of epileptiform or functional nature.

Case of Congenital Pemphigus. - A child, who bad suffered from bullous eruptions, which frst appeared within a few weeks of birtb, was shown on behalf of Mr. Malcols Morris. The eruption began on the dorsum of the hands and feet-never on the palms or solesbut had npread, geuerally symmetrically. The child had bcen treatei in the first instance on the auppesition that the eruption was due to hereditary ayphilis ; but the sequel had shown that this was not the case, no other syphilitic mavilestation having shown itself.-Dr. Colcott Fox, under whose care the child had been, had tried mercury and arsenic without success. IIe attributed the success that bad followed the mercurial treatment in other honds to the more favourable hygienic condition of environment as an in-patient. He pointed out the differences between pemphiges due to a specific eause and the idiopathic form.

Case of Epispadias and Partial Extroversion after Operation.- Mr. W. J. Walsham exhibited a patient, aged 9 , on whom ho had operated for completo epispadias aud partial extrorersion of the bladder. The penis was ill-developert, but had a good glans, and the urethra was open in the whole leugth on its dorsal aspect, except at one spot, where a thio bridge of skin about one-eighth of an inch wide indicated an attempt at roofing in. The anterior wall of the bladder was partly deficient, but tho mucous membrane did not bulge forwards, as commonly occurs in completo extroversion. The open pouch which represented the bladuer was sbout the size of the last joint of the thumb. The scrotum was well developed, the testicles
descended, and there was no bernia. On September 21st Mr. Walsham made an incision around the margin of the epening into the bladder, and continued it at each end on either side of the gatter representing the urethra, as far as the glans. The muco-cutaneous tissues having been dissected up, wers turned inwards, so as to bring tho raw surfaces into contact, and united with chromocised catgut sutures, after the method of Lembert. An incision was then made transversely through the skin of the scrotnm at the root of the penis, and a second incision parallel to the first about an inch and a balf lower down. The bridge of skin thus marked out was dissected up, and the penis passed nader it. It was then onited to the skin around the margin of the bladder and urethra by horsehsir sutures. The bladder and urethra were thus provided with a double roof, the raw surface of the lateral flaps being covered over by the bridge of skin taken from the serotura. The flaps united by the first intention exceptover the anterior third of the urethra, where, in consequence of the excessive thinness of the tissues they gave way. Mr. Walsham intended at a future time to complete the cevering of the urethra, by making use of the abundant skin forming the prepuce. At present, however, he thought it better to wait till the penis had become more developed at the age of puberty, and the restored parts had time to consolidate. The boy could now hold his water for five or six hours, and passed from five ounces to half a pint at a time.-Mr. Hurry FErwick said that in the only case he had operated on he bed been obliged to take a sulra-umbilical flap to bring over the bladder, and two flaps from the sides, which united very satisfactorily, although an attack of scarlatina intervened.
Case of Rccovery from Chronic Pycemia.-Dr. Cubtron showed a lad, $8 \frac{1}{3}$ years of age, who was recovering from an attack of what to preferred to deseribe as a case of multiple parulent synovitis. He had suffered for about a year from a discharge from both ears which latterly had become more profuse. He then had an abscess nnder the chin, and subsequently the right shoulder-jiont and both elbows became filled with pus, the right hip.joint becoming also completely disorganised, with the femur on the doreum ilii. He remained in a very precarious state for six weeks, but ultimately recovered.

Elcostric 1 llumination of the Male Bladder and Urethra.-Mr. Huray Fenwick showed a series of instruments made by Leiter of Vienna, aud Hartwig of Bellin, armed with ineandescent lamps for illumiaatiog the male bladder and urethra, and demonstrated their carabilities upou patients and "dummies." He observed that endoscopy had attractel the attentien and effurts of the profession since the commencemcnt of the century, but the candle power hitherto used had proved insnfficient. Quite recently (1887) howerer, the smallest Edison lamp had been employed, and the result had bern brilliaut. Instead of a crmbersome, costly, and fickle instrunient like the Nitze-Leiter endoscope of 1880, we now possessed a simple, practical, and safe apyaratus by which the bladder or arethra could be examined in as strong a light as if it was viewed by direct sunlight. Every detail of the vesical or urethral surface was discernible, under favourable circumstances, even to the small vessels coursing orer the mucous membrane. Mr. Fenwick mentioned certain elements necessary for a snccessful bladder examination, and explained that the vesical endoscope needed mutch practice and patience before the observer could becorie proficient with it. He believed that the value of electric endoseopy could hardly be estimated, and he predicted that it would at once assume a high rank in the diagnosis of obscure vesico-urethral disease, and wonld become almost as indispensable as the opthalmoscope or laryngoscope. [Mr. Schall of Wigmore Street (Mir. Leiter's agent for Great Britaic) was in attendance, and showed varions batteries for workiog the endoscopes.]-Mr. Walshast bore testimony to the ease with which he had been enabled to see a stone in a dummy bladder. - Dr. Routh asked whether the instrument had been applied to the examination of the uterus.-MIr. Frnwick in reply said that the instrument wouid doubtless be applicable to the examination of any orifice of the hody.

Casc of Uniluteral Sweating.-Dr. Anderson showed a young man who suffered from profuse perspiration limitell to the right side of the head, face, and neck. There was nothing in the man's history to give a clue as to its cansation, and no history of sypliilis. Two years ago, when on frentier service in Mexico, ho had noticed what he called "inowerlessness" of the right arm. He was unable to raise his right arm on getting up in the morning, but this generally passel off in an hour or two. The man's general healch was good. He (Dr. Anderseu) asked for opinions as to the cause of this curious condition and suggestions fer treatuent.

A Bill tor the utilisation of the sewage of Paris in the lower part of the forest of St. Germain has been adopted by the Chamber of Deputies.

## MEDICO-CHIRURGICAL SOCIETY OF EDINBURGH. <br> Wednesdat, Janeary 18 th, 1888.

## John Smith, JI.D., F.R.C.S.E., President, in the Chair.

Paticents and Specimens.-Dr. Byrom Bramwrul ahowed a patient - ffering from Locomotor Ataxia, where Optic Atrophy bad appeared, prier to the more characteristic phenomena of the malady.-Dr. AFfleck gave details of a case of Progressive Anæmia, with marked corpuscular depreciation, both in respect of number and form, whero recorery bad been effected.-Dr. Byrom Brasiwell exhibited a plaster cast of a Thoracic Aneurysm of unnsnal clinical interest. The anearysm projected as a considerable tumour from the anterior thoracic wall, and finally-ruptured. The patient had declined to have operative interference attempted. Dr. Bramwell expressed the hope that ere long they might discover some natural blood ferment, which, on injection into the sac, would be able to initiate coagulation. They would remember that Dr. Gamgee had conducted experiments in this direction ; but unfortunately the result showod that the ferment which he employed induced coagulation, not only within the sac, but in the circulation generally. Dr. Bramwell inclined to the belief that they might jet find some ferment which, when combined possibly with Kelatine, might be able to effect coagulation in the sac slone. - Dr. Bramwell, also exhibited photographs of the brain in a case of Cancer of the Left Lateral Lobe of the Cerebellum and the Lenticular
Nucleus. Nucleus. During life, vertigo of a peculiar character had been the
most pronounced symptom. - Dr. JoHi Playmatr showed the of a child patient, of 15 months, was said to have swallowed a pin. Various unsuccessful attempts had been made, at home and in the Royal Infirmary, to deternine the whereabouts of the pin. Soon after admission into the Sick Children's Hospital the child was seized with grave dyspoces, necessitating tracheotomy. This reliered the patient much, and in due time it was dismissed, apparently well. About a year later the resident physician was asked to go to see the child, post.mortenund dead. The cause of death was cancrum oris ; but on posc-mortem examination a large pin was found impacted in the
bronchus, not far from the bifurcation of the trachea. - Mr. A. G. Miller showed a Knee-joint removed for Syphilitic Disease. The joint was so extensively disorganised that, when the patient was admitted, Mr. Diller was inclined to think it must be tubercular. Estmination showed, however, an absence of any trace of tobercular dieease, while the evidences of syphilitic disease were abundant. Comporison with other surgeons showed that such cases were very rare.-Mr. Symingron showed a beautiful section to illustrate the Anatomy of the Ear and Naso-pharyngesl Connections. Among other pionts of interest, it deluocstrated that the antrum does noc communicate directly with the internal meaius, but with that passage through the medinm of the infundibulum. The section also gave farther support to the view that the Eustachian tube is normally a closed tube.

The Place of Specialism in General Practice, with reference to Diseases of the Eyye, Ear, Throat, and Nasal Cavities.-Dr. George Henter (Linlithgow) read an elaborate paper on the above subject. By means of illustrative cases, he showed the value which attached to a fair working knowledge of these diseases, more especially in the case of the general practitioner, ond he advanced a strong plea for their fuller stady in our medieal schools.

## SOUTH INDIAN BRANCH. <br> Friday, August 5th, 1857.

Brigade-Surgeon Roberts in the Chair.
Intestinal Parasites. - Brizade-Sargeon Porter, M. D., reported the case of a young Singhalese domestic, aged 16, who died of fever follewed by dysentery a few hours after his admission into the hospital at Madras. In the duodenum were found after death several specimens of the anchylostomum duodenale, some alive and some dead, adhering to the sowewhat congested nucons membrane.--Surgeon J. H. Pope made some remarks on the case of a Hindu who was infested by tenia mediocancllata. Six of these psrasites were expelled after a
single dose ( $\overline{\mathrm{Jii}})$ of lim single dose ( 3 ii ) of liquid extract of malo fern.
Ainhum.-A paper by Surgeoo J.SıPTh, M.D., was read, in which he pointed out that ainhnm had not hitberto been noticid in Southern
Iedis. He described atypical Iedia. He described a typical case obstrved iu a uative aged 30 , at the Genoral Hospital, Madras, iu June, 1882. The disr- see anpeared to be commen in Dacca, where the people call it suzhce pakila (dry suppuration). Of the causation of the disease, which is characterised plete disappearance of arrophy affecting the toes, snd leading to complete disappearance of all the tissues, tendon, ekin, and bone, being
all roplaced by astraud of fihrocs tisshe, nothtug was known. Dr. Suty thagread with other obververs in compariug tha appearance of the toe to that which wonld bo produced by tying a string firmly romd the paw and allowing it to ulcerate deeply into the tissues:
Injury to Corvical Spine.-7rimade-Surgeon Smuthonpe related the case of a lindu, aged 35 , who sustaiued a strain or perbaps a partinl Iracmre of somo of thie upper cervical rertebre. This was followed by spinal meningitis fud spastic rigidity of the lower limbs. Com pleterest to the iojured part was procured by the nso of sandbags, ind suercury wss adninistered; he slowly improved, and after a year way able to walk without help. He had hecome liablo to attaeks of brouchial asthma, and on one occasion there was a remarkable slewing of the ralse.

1. ruyhnsite Tumours of Groin-Brigade-Surgeon Stathonpe related the ev, danas of cnlargeneut of the lymphatics of the groin, which had fa on under treatment at the General Hospital, Madras, during the previnus fow months. In no case the glauly wereexcised; in another, pnreral attacks of fcrer occurred, during which the glands einlarged; us the thictl, and in that ouly, though cujeful search was made in all theme, muntryos of filaria sanguinia hominis were found in the bloot.
If ibncmia Fibromm. - Brigade-Surgeón Sibthorpe also showed a tritivg of a caiso of congenital turnonr of tho right eyclid, ohserved in s 1 inu mediau, nigid 13 . Rupill growth hat taken place during the four years belore be went to the Geperal Hospital, Madras. The right uppor eyelit formed a large pendulous mass of fibro-vaseular tissue thres inches a ad a half long ; the lower lid was also enormonsly enlarged, and tro pendnlons masses were attached to the skin of the face, on each side; the skiu belind tho tumour, and between it and the ear, was paspillorastous. The cyeball was atrophied, having been 1 -rolably loit from indanamation at the age of 3 . The youth complained of neuralgic pains in the course of the fifth nervo; these were relinved by hypodermic injection of morphia.

## CAMBRIDGE MEDICAL SOCIETY. Friday, Decmider 2nd, 1837.

H. Sprati, ML. K. O.S., V"ice-Presideut, in the Chair.

Abwas bebmen hivar anu Diaphragm.-Mr. J. Hoverr read the notes of this case, and showtel the dnodeum removed after death. Thero wis a small junched-out ulcer, which bad perforated. The zwat.mortem exanination showed an ahacess extendiug up between the liver and diapliragn, iu closo convection with the ulcer in the dumlennm.
Simme Forms of Dismoportion betrern the Fottal Head and Pelvis Cother than Pelvir Deformity) as a Couss of Protracted and Arrested Lahmer.-Dr. Boxsll read a paper on this suhject.
congenital Jyydrocephalus. Mr. G. N. Blutert exhibited a apecimen. The monther tay delivered on Oetriber 20th. Tha breach presented. The trarsk leing horn, the lend would not enter the true palvis. It was, threfnet, perforated behind the ear, and the flnill let out ; cven then its size was sin phormous that it had to he delivered with the cephalotribe. The chil I wa fully develored, having no other deformity ; it measured $2^{7}$ inchea long, weighing $15 / 1 \mathrm{~m}$. The circuinference of the head was $37+$ inches, and it cootained $4 \frac{1}{1}$ pints of fluid. The binarietal diameter froquntud of ioches.
whlen Death in Diphtheria.-Dr. Roper said a hoy aged 12 yeara Was theo ill with sore-throat on October 23rd. II did not seem wry ill, and mo madical attoadance way obtained for him. On Noveniber 2ad-the eleventh day-he appeared weak, and on the evening of that llay he made an attompt to walk npstaira, but failed, and asken! his father to mrry him up. It was olserverl that his voice was nanal. On the following day, Novernber 3rd, his face was palo and stightly livid. The surfice of the body folt cold. The tone of voice was massl, and fluids returaed throngh the nose. The temporature in the mon'h way $97.4^{\circ}$; the pulso was 72 , small and weak; reapira. tion 16, shullow ; tho hoart-siunds feeblo and rather indistiact. Ife diel at 5.30 the following morning, November 4th. On post-mortem examinatinn tho cavities of the heart were completely disten led with cint, espeelally on the right wids. The lungs were healthy, but the left one was attrcherl to the chest walls hy old allhesious. The local lesinn in this case must bavo buen very alight, ay liy the eleventh day thero wis no evidenco in the state of the nucons membrane of the previnus exndation ; and the patient hall taken his food well until tho paralytic aymptoms sot in.

Mahgnant Rindocarditis.-Mr. Latrence, Humpary related this caae. The pratingt, a lanndry woman, aged 50, was admitted into Addonbrooke'a H spital on Niay 4 th, under Dr. Bradbary. P'aysical examination of the chest showed preumonia at the right apex. The
heart sounds were clear at apex and base ; tho apax beat was not felt. On May 6th sho was evidently batter; the temperaturo was normal, pulao 100, tengue moist and cleaning, and tho physical signs at the apex of the right lugg wore clearing. On May Sth the telaporature anddenly rose to $102.6^{\circ}$, and the pulse to 132 , and came down, alter a profuse afreat, to 98 . Oa May 11th she had a diatinct rigor. The breathing was very feeble at the right apex, and there were occasional filction sounds, with impairad resonance at the sccond and third intercostal spaoes. Tha heart sounds were clear end regular. On May 14th her temperature rached. $105^{\circ}$, and she had a severo rigor, and gradually sank after hecoming unconscious. The post-mortom examination revealed a amall abscess in the anterior mediastinum, extending chiefly to the right undor the mediastinal pleura, and backwards as far as the root of the right lung; 'it contained about $1 \frac{1}{5}$ to 2 ounces of green, offensive pas. The right lung mas sulherent antoriorly, and the upper lobe appeared to be undergoing resolution after pneumonia. The pericardium was normal. The endocardium of the loft auriclo was ronghened, and on the aortic cusp of the mitral was a patch of the size of a threepenuy-pieco, rough, ulceratiug, and funkatiug; near the centro was a amall perforation. The aortio valyes wero thickened and atheromatous, and covered with soft fungating vegotations, easily dotached. Tho first part of the sorta was very atheronatous, with' projecting calcareous plstes, but withont vegetations. There was alight hypertrophy of the muscular walls of the ventricles, and several white tibrous patches in their interior. The atheromatous diseasa of the aorta and valves was evidently of old standing; the ulcer and vegetations rocent. There were extensive infarcts in both kidueys, and a small one in the spleen. There was diffuse purulent meningitis of the brain and spinsl cord, with yellowish pus surrounding the cranial nerves; also a fasp patches of inflammatory softening in the brain subatance. Mr. Laurence Hum. phry ramarked upon the frequency with which these cases seemed to begin in a pneumonia, and the association of meningitis of the brain and apinal cord. In this case the recent mycotic process had evidently bcen engrafted npon old atheromatous disease of the aortic valves.

## LEEDS AND WEST RIDING MEDICO-CHIRURGICAL SOCIETY.

Fridat, Janvart 13th, 1888.
Edward Atkinson, M.R.C.S., President, in the Chair.
Trcphining for Compound Depressed Fracture of the Shull.-Mr. Lawfurd Kyaggs read a paper on a case. He adrocated a moro thorough immediate exploration and cleansing of the injured parts (1) by a larga skin flap; (2) by a more liberal ramoval of bona; (3) by a senicircular flap of dora mater, if that membrane should beinjured; (4) by careful cleausing of all the exposed and damaged parts by powerful antiseptic lotions. He pointed out that, in the case related, the durs mater was found completely united hy healthy lymph in eighteen hours. The propertion of eases in which severe after-effects ocourred would probably beconsiderably diminished if operativo interferenco at the time' of injery was tine rule. The experience of mambers was selicited on the suitability of opium in cases of commencing meningitis. Its power of contracting tho cerebral arterioles anggested its emplorment, qnito apart from its snodyna effect.-Mr. McGill understood Mr. Knaggs's main point to be tho desirability of immo. diato trophining in oll cases of compound depressed fracture, with or without cerebral symptous. Mr. McGill's experience was entirely opposod to this view, his own views beiug these: (1) that in cases of sunple depressed fracture, without symptoms, surgical interference, was not advisable ; (2) that if, by asapsis, we could practicslly rednce a compound fractura to the condition of a simpla one, we should treat it on the same lines. If it were impossible to purify the wound without removal of bnee, by all means let it he removed. - Mr. Jessop treated his cases on the lines indicated by Mr. McGill. Ho attached much importance to the complete arrest of hemorrhage, as he thought that the constantly varying intracranial pressure presonted a favourable mechanical condition for tho rapid apread of extravayation and inflammation thoughout the sublural spaeo. Ile considured that opiun was of great value in many cases, - Dr. Rabagliate said, with regord to opima, was it not a congester of tho veina, and, therefore, a dauger ?-Mr. Maso kobson thought much depended on the oxtent aud character of the fracture. When there was mach splintering or extensire de. pression, or when the wound conld nut be efficiently dressed, he alvised trephining; in other cases he trusted to antiseptics. Ho had found opium-of, service iu lessening bæmorrhage.-Mr. Pridgin Teale did not think tha case for immediato interferance was so atrong as Mr. Knaggs argued, as many cases recovered completely and permenently without it. He aome time ago came to the conclusion that:
the dictum, "opium is dangerous in head cases," ws9 a volnerable one, and hegan cautionsly to use it, especially in cases marked by extreme restlessness and a rapid rise of temperature, - Mr. LITTTLENWOOD arguad in favour of the free surgical treatment of these cases.-Dr. S. C. Smitr urged that it should be horne in mind what the trephine did. It provided lor free drsinago, and he thought that many cases of unexpected recovery from severe cravial fracture wera owing to the drainage provided by the severity of the accident itself. Oo the whole, be ad vocated waiting for symptoms. - Mr. Kraggs replied.
Supernumerary Teeth.-Dr. HELIER showed a cast from the mouth of a child in whom there were six upper incisor teeth belonging to the first dentition.
Optic Neuritis in Chlorosis.-Dr. Wardror Grifrith gave an account of a case in which optic neuritis was associated with chlorosis, and remarked on the difficulty of determining the value of this syinptom as an indication of functional or organic disease, - Dr. Churtox thonght that in such cases optic neuritis was a mere coincideace.Mr. Bendelack Hewetson rewarked on the difficolty of recognising certain poisous, such as lead, which induced hoth chlorosis and optic nouritis. In somo cases ho thought conatipation, and consequent frecal absorption, was s cause; and he referred to cases in which otitis, leading to corebral mischief, sod a condition of leucocythremia, acted as causes. -Mr. Hartley thought it was easy to mistake the swollen disc often seen in cases of hyluermetropia for true papillitis, and that very accurate observation was required. - Dr. A. BRoNNER referred to syphilis as a common cause, associated with surenia.
Lip Language for Deaf Muts.- Mr. Bendelack Hewetson showed a hoy from the school of deaf mutes at Doncsster, who was being taught to speak. He had been three years under treatment, and could read fairly audibly, though iu a rather low roice.
Pathological Specimens, ate.-Mr. Lawrord Kvagas: (1) Calculus removed by Saprapuhic Lithotomy; (2) Makius's Enterectomy Clamp. -Mr. atkinson: Tumour removed from Prostate by Suprapulic Prostatectomy.-Dr. Baris: Malignant Stricture of Descending Colon-Mr. Mayo Robson: a Double Hydrosalpinx, recently removed, the tabes containing four and two ounces of fluid respectively; (2) A Dissection of Intestinal Obstruction, due to an omental band passing from the sac of a femoral lesion.-Mr. P. Teale : Diverticulum causing Obstruction of Bowels.

## NORTHUMBERLAND AND DURHAM IEDICAL SOCIETY. Thursday, Janvary 12th, 1888. <br> G. H. Hume, M.D., President, in the Chair.

Orbital Aneurysm.-Mr. Rotherford Mortsox exhibited a hoy into whose orbit there had passed the blade of a clasp knife. The boy could see immediately after the accident; a few weeks afterwards the eyesight was lost. There was no paralysis of the ocular muscles, and there was no atrophy of the optic disc. $\Lambda$ well-marked, intermittent brucit could bo heard all over the head.

Thoracic Aieurysm.-Dr. Oliver exhibited a moman, sged 30, sulleriug from a large pulsating tumour in the upper part of the front of tho chest. There was no history of syphilis. Three years previously sho fell from the first floor of a house. Eighteen months after this ahe noticed a small pulsatiag tumour over the manubrium sterni. Within the last few months this had rapidly increased in size, until it now measured $6 \frac{1}{2}$ incles longitudinally. Under large doses of sodium iodide she had complete relief from pain.- Professor Phillirson remarked upon the sex of the patient, and cited a similar csse he lad had under observation.
Rheumatic Nodulcs.-Dr. Drumaond exhibited a boy and girl suffering fron cardiac disease, and rhenmatic nodules were seen to bo frcely distributed in esch. The boy had a tricuspid, and the girl a mitrsl, systolic murmur. Dr. Drammond regarded the coexistence of rhcumatic nolules aud cardiac disease as of crave importance. Dr. Mantle said he had seen similar nodules in adults.
Psoriasis of Widc Distribution and of Papidl Devclopment.-Mr. Corlunsox exhibited for Dr. Fexwick a case in which the disease had, after beginniog at the elbows, extended over nearly the whole of the body in three months.-Suggestions as to treatment were offered by Professor Pmurson, Drs. A. Campbell, Mantle, Newcombe, Dremmond, Thonas Witine, aud Jackson.
Puif and Dart Nerdle liemoved from Air Passagrs.-Dr. Lros exhibited snccimens partly expelled by and partly removed from a girl, aged 11. Immediately after the insaflation there was no laryngeal distress whatever, bat two days after this the temperature rose, and five days after the accideut tracheotomy was performed by Dr. Hume, and attempts made to remove the needle, hat unsuccessfully. The needle was known to be imbedded at the lift apex. An electro-
magnet devised by Mr. Buckmaster, of Oxford, was tried, but to no purpose. Ten days after the use of the magnet the wool of the needle was coughed up, and a week after this, after a fit of coughiog and vomiting, Dr. Lyon, on examining the throst, sam the needle im. bedded in the wall of the pharynx, from which he easily removed it with forceps. The child hal made a fair recovery, but there was still duluess st the left apex. - In the discossion which followed, Drs. Munphy, Thosas Watson, Cate, Hemsi, and Dreasiond took part.
Ulecrative Endocarditis.--Professor Philipson exhibited specimens removed from the body of a young man euffering from pleuro-pnenmonia of the left base. The temperature remained high, but oscillated. The patient had a severe rigor when under observation, and a few days afterwards a loud aortic bruit was heard. The spleen was noticed to be increasing in size, and blood was found in the urine. - Kemarks were made by Dr. Oufver and Dr. Druanosi.
removed from the hody of a man, aged 50 . He had dever complaina of pain. The sac had nomplating aged The patient died haustion.
Steprapubic Lithotomy.-Mr. Rutherford Morison gave details of a successfal case in a man, aged 80 .
Specimens of Uterine and Orarian Disease were exhibitad by Dr. Murper. The series included specimens of pyosalpinx, bydatidiform mole, and a variety of orarian cysta.
The Gatvano-cautery in the Treatment of Diseases of the Nose and Pharynx.-A paper on this subject was read by Dr. William Robertson.

## REVIEWS AND NOTICES.

The Principles of Antiseptic Methods applied to Obstetric Practice. By Dr. Paul Ear, Accoucheur to, formally Iaterne in, the Materaity Hospital, Paris, atc. Translated by Henry D. Fry, M1.D. Philadelphia : P. Blakiston, Son, and Co. 1587.
The aathor, Dr. Bar, is an enthusiastic advocate of the employment of antiseptics in obstetric practice, and the translator evidently shares bis views on the suhject. No one would diapute a priori the necessity for strict asepsis in obstetrics as in other departments of snrgery, but it is necessary to bear in mind that cleanliness is after all the most powerful antiseptic we can employ-cleanliness, that is, of arniosphere, of persons, and of iustrument $i$. With it chemical antiseptics, tne use of which is not unattended with danger, may be ssfely dispensed with; without it all such ageuts are useless, or nearly so. In
the the hands of the anthor antisepis is an aggressive policy, a war of extermination against the hypothetical little organisms whose presence chapter is deroted to the discussion of the nature of the infective processes which are apt under certain conditions to follow traumatismsprocesses which it is clearly shown hava a close relationship with the presence of specific orcanisms. Having discovered the enemy, the next step is to destroy him, or, at any rate, to prevent an invasion. The first point, and the most importsant, is to place the puerperal patient in perfectly aseptic surroundings, and to keep them aseptic. This advice is excellent, though not always easy of application. Should the object not have been attaiued, we must "kill the germs which have gained access to the surface of the wound, and if the circulatory apparatus has been iuvaded, we must destroy the morbid
prina principlos which have penetrated therein." This is, no doubt, what ought to be done, but many bacteriologists would shrug their shoulders if asked to advise as to the means of so radical an elimina.
tion. The autbon some of author happily knows no such qualms. Fre has antiveptics, some of which "fix the gerns and prevent them from increasing,
and others, puch more powerfal, which "act upon the germ itself by destroying it." Each genus of microbe requires a specill strength of solution to ensure destruction, and cousequeutly "the real ralue and power of each autiseptic cannot be recoguised until a series of experiments have been made upou each known micrahe." Luckily we are
not obli is always possible to ellect ouc's purpose by a stion solution, since the priaciple that the whole includes the part. Some elaborate tables are given of the estimated strength of various antiseptic substances, the more importaut of which are subsequeutly treated of seriation.
Of late years the mortality reruras of materuity hospitals have shoon a very marked improvement on those which obtsued at an
earlier earlier period, due in part to the observance of more serupolous
cleanliness and the recognition of the danger attonding the conveyance ol infuction frone past-mortem rooms or the genersl wards. The author appers to furonr recourse to antiseptic waginal injoctions even during normal labour-a penceediug which many competent obsterricians do mot approve. A good deal of space is given to tho varions aatiseptic menames and the method of their application. While practicable and possibly usefnl in maternity hospitals, somo of them would bo difficult of application in private practice, and others would bo daugerous unless cruployod nuder strict surveillance. The polume is a very complete und weli-writteu monograph on obstetrical antisepsis, aud the trauslation has beon very vell done.

A Handbook on Dispasea of the Skix, Witil fapretai, reifekface to Diaciosis anid Trfatmpet. By Robert lavelng, A.M. and M.D.Cantab., F.R.C.l'.Lond. Fifth Edition, Revisol and Ealargur. Loudou: Longuans, Green and Co. 1887.
That De. Liveiso's handbook on Diseases of the Shin fulfils a useful purfoso is sutficiently shown by tho fact that it has already passell to a fitt edition. This now odition logs not, in its arrangements, differ matcrially from the provious one. Now articles have been introduced dealing with thoso discases which have in recent years fonnd their place, mostly for the first time, amongst recognised specitic affectious of tho skin.
Ery thema serpens, an affectiou of the hand, which was first, wo bolieve, described by Mr. Morant Laker, and has also been noticed by Continental writers-a form of erythema specially affecting butchers, and evidently duo to some specific poison-is noticed, Mr. Baker's descriptiou being closely followed.

Dr. Liveing relates four cases of the rare and interesting affection of tho skin describod by Wagner as colloid ruilinm, and by Besnier as colloid deceaeration of tho skin, and also woll described by Dubring. Dr. Liveing's description refers to small, slightly raised, yellowish tumoura, raryidg in size from a large pin's head to a split pea, someWhat that, of solid or semi-solid structure, and looking as it they contaioed finid. These little tumours undergo change by the formation of a central deprossion, und, lastly, inflaming, acabbing, and drying np, leaving a narked but not defiged scar.
Short noticea of rhinoscleroma, mycosis fungoides, xeroderma malignunu, scrofuloderma, l'aget's diseaso, leucoplakia, and lymphangioma, jo which references to the best descriptions of thesa diseases are insorted, tend to briug the book up to the level of our present knowladge. Tho brevity of theso notices is, however, probably partly rosponsible for slight inaccuracies in correctivg the proofs. Professor Geber will hardly recognisc himself as MI. Gaber, of Vienna; nor do we think he will cousider his views correctly stated when ho is made to assert that "tho Aleppo cril is in all cases of syphilitic origin." M. Vidal, surely sufficiently well known to dermatologists at least, after having bis namo correctly spelt on one page, appears as Vedal four times in three consecutive pages.
In the treatment of that tronblesomo disease ringworm, Dr. Liveing has no hesitation in saying that the oleate of mercury ointment mado by Shoemaker's process is the most gencrally usoful ointment, and he speaks well of Dr. Cavafy's lotion, which consists of a solution of boracic acid in other and in rectified spirit.

Sputts: Its Mifcroscolv and Dragnostio and Prognostic Susifications. By Frascis Trour Ml.D., St. And. Edin.
burgh: Oliver and Boyd.
This work is not prosented as a completo treatise upon tho examina. tioo of sputum, although its sizo would lead ono to expect that no point in this amall departneent of clinicsl mediciue lad been omitted. Nevertheloss, the book treats alnoost ontirely of tho microscopy of the aputum, and of the application of photography to the recording of its mi roscopical appearances. The autnor must forgive us if, in roviewing the rork, wo give special prominonco to its artistic points. It is illustrated by no leys than thirty-six photogravura plates and aix chromo-lithographs, all executed most beautifuily. Nicrophotography is as yet in its infancy, and while tho reproductiona in this volumo are as purfect as it is possible to make thern, it must be admitted that wrodents or engravingy givo a cloarer idea of the structure. Stull, the anthor must be commended for his painstaking efforts to render his pu-tures ay true to Nature as possible.
Whale the illustrations form such a twarked fcaturo of the volume, it minst not be supposed that they oversbadow iu excellence tho real matter of the bouk. Thrunghout this bears the impress of careful, laborions work and personal observation. At one purt of the work the
author states that ho for three years has examinod the sputa of overy patient admitted into tho Longmore IIospital for Incurables in Lilinburgh, no matter what his complaint might be, and still furthor proofs of the anthor's industry are ovilent in the volume. The chemical examination of the spntum receives but scant notice, nince the author believes it is of litthe valno in practice. Ho mentions, however, that ho himself has never heen able to detect sugar in the true sputum of diabetic patients, althongh it might have been present in the saliva. It is to bo regretted that the author did not seo his way to insert somo account of the researches of Bamberger and of Kinssman] upon the chemical composition of the sputum, and its relation to that of the lungs. These observations have certainly not proved of practical value, but they are of some importance as indicating the changes going on in the processes of pneumonia and bronchitis.

The anthor lays great atress upon the search for elastic tissue in the sputum, and considers that we are inclined to overlook its importanco in the fascinsting hunt for the tuberclo bacillus. It may bo foand, he beliaves, in cases of tuberculosis, in which the bacillus is absent temporarily or for a length of time. In ninu-tenths of the cases in which it is found, its presence is indicative of tuberculosis. For its detection, tho author considers Fenwick's method of hoiling in a 20. grain to the ounce solution of caustic soda as usually unnecessary and liahle to canse solntion of the fibre. He examines a particle of the suspocted sputum directly, with or without a drop of a 30 per cent. solution of canstic potash. Several photogravure plates are given of substances which may be mistaken for the elastic fibre.
An important and notowortby cbapter is that upon Carschmann's Spirals. These are scarcely mentioned in English works, and but a scanty account of them is given in the Continental textbooks, with the excention perhaps of that of Striimpell. Dr. Troup gives a full acconnt of the work already done respecting them and of his own obsorvations. He showed specimens of them iu 1885 in Edinburgh, only two years after the exhaustive paper of Curschmann had appeared. Ho has fonnd them in asthma and bronchitis, but never in pnenmonic sputum, thus differing from von Jaksch and Vierordt. He considors that the spiral is an evidence of bronchiolitis ; he fiuda, moreover, that the central thread is composed of columnar and ciliated epithelium cemented by somo fibrinons or albuminous material, and that this coro acquires a casing of spirally arranged, round and spindlo cells forming an actua! cast of the bronchial tubule.
An exhanstive and critical acconnt of the methods of detecting the tubercle bacillus is given. IJero the anthor states-and we agree with him-that Ehrlich's method is the safest, although requiring care in its practice. He also describes and figures a bacillus resembling that of tuhercle, but probably of pueumonic origin. It will not bo found by any of the nitric-acill methods, but by Gram's method might be mistaken for the tubercle gorm. Other chapters are concerned with pnenmonic, bronchitic, and pigmented sputa, \&c.

The hook is good, and the author and his publishers are to be congratulated upon the elegant stylo in which it is presented to the profession.

## NOTES ON BOOKS.

Ilhestrations to Clinical Surycry. By Jonathan Hutohmson, lik. S. lasciculus NIX. Pates LXXI-LXXIV.-Three of the plates in this fasciculus represent difforent forms of elephantiasis. Plato 72 is a fiuc drawing of a remarkable case of elephantiasis of the prepuce, simulating elephantiasis of the scrotum. The patient was a negro, and tho affected integuments wero removed by the author. Filaria wore fonud in the blood. Mr. Hutchinson notes that attacks of inflammatory cedems, repeatedly recurring, are the almost constant precursors and causes of elophatiasis. Plato 71 will be of more general interest. It represents injurics near to tho wrist, and fractures and separations of opiphyses. Figs. 2, 3, and 4 illustrato tho conditions mot with in recent specimens of Colles's fracture, and demonstrate the truth of an important fact often unknown to practical surgeons, namely, tho occesional absence of any displacenent. Another instructive figure represents complote separation and dislocation backwards of the carpal eluiphysis of the radius.

Notes on Inorganic Materia Medica and its Chemis/my. By J. Schürz Sharman, M.K.C.S. Secoud Edition. (Londou: Eithngham Wilson.) -The ohject of the author in preparing these notes was to explain the elcmentary chemistry which is connected with the inorganic portion of the materia medica. Under the heading of each compound
the character, manner of preparat:on, action, dose, and officinal preparations are appeaded. The principle of the Notes is to be commended, as the student should never overlook the essentially scientific or chemical aspect of therapeutic resources, whilst he cannot learn to prescribe without knowing more or less by rote the details of the Pharmacopciac. Many a young practitioner, distinguished in his student days as a prizeman iu Chemistry and Clinical Medicine, finds with dismay that Squire's Companion to the Pharnacopreia is more serviceable to him than his old scientifie textbooks. Mr. Sharman's Notes demonstrato how far that which is scientific is useful, and how far that which is of direct utility is also a matter of science. The Notes are interleaved, so that the reader may add annotations on new drugs or record his own prescriptions, as he may think proper from time to time.
Some Observations on Headaches in Children, and their Relation to Mcntal Training. Read in the Section of Diseases of Children at the International Medical Congress held at Washiagton, September, 1887. By Willam Henry Day, M.D., M.R.C.P., Physician to the Samaritan Hospital for Women and Childreu. (London: J. and A. Churchill.)-The author is already well-known for bis writings on headaches, and this paper displays his usual accuracy of clinical observation. Dr. Day dmells upon the significance of headacho according to its locality, and rightly lays great stress on defective accommodation. We need hardly say that a great deal is said about "overpressure," but the suthor wisely remarks: "We must admit that enthusiasts are prone to exaggerate when they witness a ferm cases of breakdown, and fail to remember the thousands of children who pass through their school life happier and better for the regular hours and discipline that is maintained.

The Student's Handbook of Chemistry. By H. Leioestrer Greville, F.I.C., F.C.S. Second Edition. (Edinburgh : E. and S. Livingstone.) -This work is clearly written and accurate in detail, but it dees not appear to possess any marked adrantages over the mass of chemical textbonks, unless it be the great attention which has been paid by the author to the elucidation of chemical calculations of sll kinds. There are printer's errors (which suggest the need ef more careful revision), snch as we should not have expected to find in a secend edition ; for cxample, in a table on p .97 , the boiling point of sulphur is said to be $114^{\circ} \mathrm{C}$., a misprint for fusing point.

Handbook of Modern Chemistry: Inorganic and Organie. By Dr. C. Meymott Tiny. Second Edition (Smith and Elder. 1887.)-The second edition of this work is enlarged, but the same general plan is adepted as in the first. The work is written with a special view to the oducation of students of medicine, but may be read with advantage by all chemical students. Iu seme respects the arrangement of Dr. Tidy differs from that geuorally followed; fer example, hydrogen is described last of the non-metallic elements, instead of frrst as is usually done. Altheugh some reason for this may be found in the metallic uature of hydrogen consilered from the point of viem of the chemist, there are so many obvieus advantages in introducing the lightest known form of uatter to the student's uotice at the very commencement of his chemical studies, that the older mathod of classification will probably he still adhered to. There are ne weodcuts er illustra. tions of any kind in this work, but it abounds in useful and judicieusly selected tables.

## REPORTS AND ANALYSES

DESCRIPTIONS OF NEW INVENTIONS,
in MEDICINE, SURGERY, DIETETICS, AND THE ALLIED SCIENOES.

DUCKER PORTABLE BARRACK AND FIELD HOSPITAL.
THE chief advantage offered in these buildiogs is the ease of transport of the materials, and the rapidity with which they can be erected by seldiers who have no special knowledge of construction, under the direction of au oflicer who can superintend the work after a short examiuation of the system employed.

A very practical preof of the merits of the Ducker system was given on Saturday, January 21st, at the Company's establishment in Parlisment Street. Dr. Walter Prarce, of the Artists' Corps, with ten volunteers belenging to ambulance detachments of several metropolitsn corps, was able to take dewn a field hospital 35 ft , by 18 ft .,
arranged for twelve beds, in thirty five minutes, and to re-erect it in fifty-five minutes. The work could have been done more expeditiously after the first experience. Much rain had fallen, which was a severe test of the jeinting of the woedwork. The whole structure is put together in sections which do not require special position except at the two cnds. The floor is well raised from the ground, and the roof has a good elevation and inclioe.
The material (leather board), on wooden frames, is very impervious, and would give great protection in cold climates. Lighting, heating, and ventilation are provided for, but in hot weather it would be necessary to open the sections in the roof, or replace them with canvas.
The portable houses erected in Parliament Street will repay an in. spection, and have already received the favourable consideration of the War Office authorities.
PITTROFF'S ALMOND BISCUITS FOR DIABETIC PATIENTS. These almend biscuits are prepared by Herr Pittroff, a German baker at Carlsbad. They are a very great improvement on any that we have examined. As a rule, almond bread and almond biscnits prepared for diabetic patients are more or less tough, nausecous, and disagreeable products, and cannet easily be nsed as continuous articles of diet. The formulæ mest in use are those of Dr. Pavy and Prefessor Soegen, both of which are thoroughly reliable in their freedom from dietetic ingredients likely to be mischievous to diabetics. But the results as to texture and flavour in the hands even of the most skilled bakers, are, as a rule, very unsatisfactory. Pittroff's almond biscuits, prepared with very scrupulous care in respect to their ingredients. have the advantage of being skilfully compounded and admirably biked. They are the only article of the kind strictly suited to a rigid diabetic diet we have yet found which can be recommended without qualification. They are very delicately and slightly flavoured with saccharin, and, strange to say, for an article of diabetic food, they are positively agreeable. We have known cases in which they have been used with satisfaction for many months cootinuously, and they cau be strongly recommended to the notice of phssicians whe wish to pre. scribe for their patients almond bread in a form which is agreeable and tolerable for long periods of time. They are forwarded by parcel post as often as desired direct by Herr Pittroff, of Carlsbad, and will be found a great addition to a strict diabetic dietary.

## LANGE'S ENEMA NOZZLE.

Witir a view to overcoming the difficulties experienced in the selfadministration of an enema by the ordinaryapparatus, Mr. H. J. Lange, of 47, Arthur Road, Tollington Rosd, Holloway, N., has introduced a new enoma nozzle. This nozzle, which is simplo in constraction, can bs inserted casily into the rectnm with one hand without any fear of its slipping too far. With this nozzle the patient can, using any

apparatus he may happen to possess, sit all the while in a perfectly comfortable position, with both hands free to manage the injecting apparatus or syringe. Experience hss proved these nezzles are easy of application and sstisfactery in their action. They are msde of vulcanite, snd seld at a cost of three shillings and ninepence, postage paid.

Harveran Societt of Loxdon. - The follering is a list of the names of gentlemen elected as officers of the soniety for the year 1888 , at the aununl meeting of the society on the 19th inst. :- President : *William Sedgwick: Vice-Presidents: T. Buzzard, M.D., John Williams, M.D., *Herbert W. Page, "William Ewart, M.D.; Treasurer : G. P. Field; Hon. Secretaries: *M. Hsadfield-Jones, M.D., ${ }^{*}$ C. B. Lockwood ; Council: F. H. Champneys, M.B., J. Hughlings Jacksou, M.D., F.R. S., J. Ernest Lisne, R. S. Mair, M.D., C. W. Mausell-Moullin, F. H. Milson, M.D., A. J. Pepper. "Eluuund Owen, Frederick Treves, "stephen Mackenzie, M.D., *E. Clificrd Beale, M. B., "J. H. Drew. An asterisk is prefixed to the names of those gentlemen whe did not bold the same office the precediog year.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR $18 S 8$.

Straseriftions to the Association for 1888 lecamo due on January 1st. Members of Branches are repuested to pay the same to their respective Secretaries. Menbers of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Post-eftice orders ahonld be made payable at the West Central District Office, High IIelborn.

## The Eritish fatedical Jommat.

## SATURDAY, JANUART 28th, 1888.

## HERBERT SPENCER ON SANITATION BY COMPETITION:

It Las been the weakness of thu philoguphers of overy age to seek to meastre and improve the conduct of the world by the practical application of their own syatems and theorics, no matter how widely these might he opposed to the common aenso of mankind, how injurious their sdoption might prove to the welfare of the homan race. Herein lies the danger of every aystem of philosophy except the very wisest, of every theory of cmusation excent the most cautions and enlightened oue.

So long, for instance, 89 Mr . Herbert Spencer was content to occupy himself with the evolation of a theory of religion and life from his own ivuer consciousness and the writivgs of 3 I . Comte, he remsined a perfectly harmless and more or less interesting and useful thiuker; but the moment he began to anply his conclusiong to the practical atfairs of daily life-the moment he began to formulate laws for the government of society-ho becamo at once a danger to the well-being of the community of just as great dimensious as the extent of acceptance of his views by the rest of mankind.

Dr. Russell, in an able address to the Philosophical Society of Cilasgow, has shown hotr extremely hurtful Mr. Spencer's conclusiong on the gubject of sanitation, for instance, are ; how they attack the whole fabric of our law of public health, seeking to replace it by mere chimerical theories, which could only beceme operative as rules of life, according to Mr. Spencer's own showing, after the uation had pasged throagh a prebationary period of auffering and misfortune of quite incalcalable extent and intensity. Mr. Spencer starts from what he desiguates "a law of right social relationship," bamely, "That every man has freedom to do what he wills, provided he infringes not the equal freedom of any other man." From this law comes his conclusion (lleemed even by himsolf "an swkward one") "that either by general government or by local government the levying of compulsory rates for draining and for paving and lighting is inadmissible as indirectly making legislative protection more costly than necessary, or, in ather words, turning it iato aggression," and, it ao, he decides that "it follows that neither the past, present, nor proposed mothod of eecuring the health of towns is gend."

Hasing, then, to his oren aatisfaction, upset the whole aanitary legislation of the last thirty years, ho is kind onough to provido a substitute of his own: " llow strecta and conrts are rightly to bo kent in order remains to be considered. lespecting sewerage there rould be no ditficalty. Houses might rightly be drained on the game mercan. tile princinle they are now gopplied with water. It is highly probable that, in the hands of a private company, the resulting manure
would not only pay the cost of collection, but would also yield a consilerable profit. Bot if not, the return on the invested capital would be made up of charges to those whose housos were drained, the alternative of baving the connection with the main sewer stonped beiag ay good a sccurity for payment 89 the analogons ones possessed by gas and water compsaies. Paving and lightiog would properly fall to the management of house-owners. Were there an public provision for such convenienceg, house-owners would quickly find it to their interost to fumish them, some speculative building society having aet the example of improvement in this direction, competition would do the regt. Dwellingg without public footways before them and with no lamps to show the tonants to their doors, weuld gtand empty when better accommodation was offered; and good paving and lighting haring thus become essential, laudlords would combine for the more economical supply of them."
It is nearly as absurd to supposo that to cut off the houso draingge from the main sewer would oblige owners to pay a sufficient sum voluntarily for the maintenance of an efficient system of geueral gowage, as it is to trust to speculative building societiea to lead the arvance in geveral sanitary improvementg.
The old aystem of cesspita, still existing in some torns, shows us what landlords would do with the house serrage if there were no gtronger law than the laws of competitiou and convenience to compel them to do their duty. The dangerens ganitary condition of houses run up by speculative building societies, even under the salutary in. fluence of local board iaspection, shows how little we can expect " meat from that eater."

It is poseible that in the dwellings of the rich and edueated, competition and superior knowledge rould secure that that there was an outward observance of the laws of sanitation, that these houses were, if sepulchres, at least well whited ones-but in those of the poor there would beno auch asfeguards. The over-crowding of all large torna, and the consequent struggle to obtain cheap shelter, would make sanitation by competition a nere delusion. A landlord, for whose undrained, ill-built, over-crowded tenements there is keen comnctition, at rates payiog an excessive percentage on his original outlay, must besome an eulightened philanthropist before be will expend eapital in unremuncrative alterations whose aole object is the improvement of bis tenants' beslth.

Even Mr. Spencer allows that in the present condition of general knomledge and education, sanitation by voluntary effort would be imperative. It would only be in a community taught by ceperience sud auch masters as plaguo, peatilonce, and famine, that one cenld hope to find the attainment of this ideal. Meanwhile, maskind must pass through a probationary period of misery oud misfortune, to be reasured perhaps by yearg, perhaps by centuries or ages, upon which however, Mr. Spencer looka with much complaceucy, for he sees in preventable discaso left unchecked, not only, an edueation, but also an actual saviour of society and benefactor to the race of man. Like llato, he censures those who by sabitary reform would keep alive men of crazy constitntions. Diseases, ho gays, act benoficially, for by them " partly by weediag-out those of lowest devolopment, and partly by subjecting those who remaiu to the never-ceasing discipline of experience, Nature secures the growth of a race which shall both underatand the conditions of oxistence and be able to act np to them...... Mark how the diseased are dealt with. Cousumptive patients with lungg incompetent to perform the duty of lungr, people with assimilative organs
that will not take take up enough nutriment, people with defective hearts that break down under excitement of the circulation, people with any constitutioual flaw preventing the due fulfilment of the conditions of lifo, are continually dying out, and leaving behind those fit for the climate, food, and habits to which they were born. Even the less imperfectly organized, who under ordinary circumstances can msnage to live with comfort, are still the first to he carried of by epidemics, and only auch as are robust enough to resist them-that is only such as aro tolerably well adapted to both the usual and incidental necessities of existenco remain. And thus is the rsce kept free from vitiation."
There are here several errors and false deductions of quite astonishing magnitude. Mr. Spencer seems ignorant of the fact that several discasee, such as consumption and cancer, which' seldom prove fatal until their victims are well advanced in serual life, although they destroy the individual, yet tend to infect the race in ever-increasing and widening circles. To numerous offspring the aeeds of these diseases are transmitted; from these they pass down to fresh and more numerous generations.

Nor is it true that those epidemic diseases which slay their victims like the blow of the pole-axe and leave no inherited tsint behind benefit the race by removing only the weak, the vicious, and the diseased. Take typhoid fever, fer instance (that scourge so likely to become prevalent under the competitive asnitation of landlord and speculative building societies). Liebermeister says of it: "It is a fact that can everywhere be demonstrated, that typhoid attacks by preference strong and healthy persons, while it aroids those already suffering from chronic ailments."
Mr. Spencer seems, too, to have atndied only one feature of the Darwinian theory, and to understand the lessons even of that very imperfectly. He recognises the selective and destructive phases of natural selection, but he ignores the dootrine of environment, and the phase of improvement under improving conditions.
Under natural conditions suitable for the well-being of any race, its strong and able push the weak and incompetent to the wall, to the benefit of the many; but in environments unfitted for the prosperity of the general organisatiou, the whole race gradually degenerates and disappears before the adrance of some more suitable crestion, either of higher or lcwer type, as the case may be.
ln consumption, for instance, it is not isolated diseased beipgs among a healthy raco, who being placed under conditions of life fittea only for the healthy, being unhealthy, die. It is the unsuitable onvironments which, at least in the first instance, foster and make possible the disease: for consumptives are certainly, either in themaelves or their ancestors, the direct result of insanitary surroundings. It is their environments which are or have been incompatible not merely with their own existence, but with any continued existence of healthy humanity at all. Keep the surroundiogs as they are, and it is not the disessed individusl who will disappear, but it is the whole race who will first become feeble, and then vauish. Tho struggle for existence is not hotween a bealthy and a diseased humanity, but between any hnmanity and such foes as the tabercle bacillus, under conditions whicls makes the ultimate triumph of the latter certain.
But if it is truc that uusuitable surroundings cause the gradusl degeneration and disappesrance of unsuitable organisms, it is no less true that the removal of these causes of degeneration not only stops the weeding-out of the weak and feeble, but gradually produces an
improvement in the condition of the whole race. For jost as under unfavourable circumstances each generation becomes more and more unfitted for a continued existence, so noder fostering conditions each generation will become more and more perfect. Even hereditary disease rould gradually wear out and dissppear, and our race would emerge from generations of wise sanitary legialation operating in wisest care and forethonght-atrong, healthy, and vigorons.
But Mr. Spencer'a own "right law" that "every man has freedom to do what he wills, provided he infringes not the equal freedom of every other man," is fatal to the sanitary conclusions he drams from it. In no class of cases is the dictum "that no man liveth to himself" truer than in sanitary affairs. One cannot live unhealthily oneself without interfering with the just rights of others to live healthily. Frecdom from preventable disease is the condition of life which ans citizen has a right to claim. But this can be destroyed br the action of one's foolish neighbours. Carlyle's story of the womsn who, starring, went from door to door soliciting help and receiving none, bat in return communicated desdliest tsphus fever, has another lesson beside that of a common brotherhood. It shows that the consequences of neglect of sanitation, nsing the word in its widest sense, are not the injury or disappearance of the individual alone who sets its laws at defiance, but a widespread injnstice to the community, which only the strong arm of the law can prevent, or, being committed, adequately punish.

## IRRIGATION AND AFTER-TREATMENT IN CATARACT EXTRACTION.

Trie papers and discussions which we publish on page 176 raise several important questions as to the mode of operating in cataract and the best after-treatment. Improved methods have enabled surgeons to operate without waiting for the condition of the cataract which was formerly considered mature. In the old flap operation it was almost a sine qua non for a successful operation that the lens should escape entire. With the present mode of operating it is by no means uncommon for some of the soft cortex to be rubbed off and remain in the eje as the nucleus escapes. For the removal of this, Dr. McKeown $\dot{\text { a }}$ drocates the injection of a stresm of water, and he claims for this method not only that cortical matter can be readily removed in cases of moderately mature cataract, but also that it renders comparatively safe the extraction of those which are so little adranced that some would classify them merely as "incipient." The method has now beer before the profession for over three jears, and does not appear to have come into general use in this country. This mas be owing to some extent to the fear of introducing septic agents with the injection noless precautions are taken which are so elaborate as to be to sone extent prohibitive, and also to the fact that many of those who hare tried the method have not reported favourably of the results. But probably the greatest obstacle of all is the fact that operators generally hare not experienced moch difficulty in removing cortex by friction, and believe thast they obtain results which are at least as good as those claimed by Dr. McKeown. This does not resily tonch his present posifion, however, since he claius to remove cataracts successfully at a stage when fer surgeons would operate. Many ophthalmologists consider that Dr. McKeown over-estimates the frequency of cases in which, while the fundns is still risible, an operation is desirable because the patient's vision is sufficiently impsired to interfere with his earning his. Jivelihood. In most of these cases the vision can bo
considerably improved by using a weak mydriatic; and, although there are some trades for which the patienta aro incapacitated, it will seldom be found that they can follow them even aftor a most aucceas. ful cxtraction. The introduction of cucaino has rendered the remeral of cortex by friction both aafer and more certain. The operstor can tako his time, and the patient can look down; whilo the reteation of cenaciousucss allows the risual test to dotect the presence of residual cortex which otberwise rould have been unauspected.

An iridectomy done twe or three weeks before the extraction often hastens the maturation of the cataract, and its effect in this direction can bo materially iacreased by manipulating the lens in the manner recommealed many yoars ago by Forster. At the samo time, the cortex can bo much more readily remored, and its retention involves less risk when a preliminary iridectomy has been performed. The necessity of giving an anesthetio twice was an objection to dividing the operation into twe parts, bat this has of course been entirely mot by cucaine.
As regards the after-treatment of cataract operations there is no doabt that the claborate precautions that were formerly taken, seme of which may have been advisable io the flap operation, are for the most part superfuous. Amoug such may be meationed the absolute darkacss of the room, and the aveidance of any examination of the eyo for ton days or morc. The reaction from this, however, may tead to go too far ia the other direction, and some aurgeons appear to treat their cases as if they considered theu less seriona than a simple wound of the cornea. It would have secmed obvious, had net rcent publications shown that the contrary view is held in some quarters, that movements of the eye must have a tendency to disturb tho coaptation of the lips of the wound, and that rariations in ligat, by altering the position and the blood pressure of the iris, must interfere with that perfect rest which surgeons have hitherto thought condaciro to the healing of a wounderl part. It paticnts are allowed to go about after a cataract extraction almost inamediatcly it is not likely that thoy will attach importance to precantions which the surgeon sppears to deapise; and if this plan of notreatment comes to bo at all extensively adopted we shall before long hear of many cases of escape of vitraous and intra-ocular hremerrhage. Opiniens may differ as to whether one or both eyes should bo oc. claded, as to the amount of light to be permitted in the roam, and as to bow mach aspport is to be given to the eje; but there ought to be no donbt that the avoidance of sadden movemeats, and of changes in the blood pressure, and protection from accidents such as may readily happen to a porson with defective sight in a etrange room, aro essential adjoncts to treatment, and these can only be accured, at any rate in hospital practice, by rest in bed and a protoctive covering to the ege.

Mr. Thomas Brfant, who was a corresponding member, has been elected a member of the Sargical Society of Parig.

- Professor Virchow will accompany Dr. Schliemann on his archeelogical excursien to Upper Egypt in February, and will he ahsent till May.

Alderban Sir J. Whittater Ellis, Bart., Ji.P., has consented to presidn at the anoual festival on behalf of the Earlswood Asylum for Idiots at the Albien Tavern, on Friday, April 13th.

Mr. G. E. Ronerts, lato of Mertford Cellege, Oxford, has becn appointed Secretary of the Lendon Hosnital, in place of Mr. A. II. Haggard, rosigned. There wera 179 candidutes.

The Fifll Intornational Veterinary Congress will be held in Paris in September, 1889. I'rofessor Chauveau is I'resident of the Committee.

Tae Duke of Nortifumberland has, we leara, withdrawn his name as Presideat of St. John's Hospital for Diseasea of tho Skin, in consequence of the refusal of the meeting of geveraors, held on January 18th, to sanction an inyuiry iato the rules and management of the hoapital.

The injories inflicted by snicides are ofton of a very extensive and terrible character, but seldom have they bean of a more distressing nature than in the case of Rear-Admiral Versturme, who died at Falmouth this week. Dr. Bullmore found on his arrival that the deceased had thrust the red-hot poker throe or four times inte his abdomen, inflicting injuries which ultimately resulted in death.

## COURT APPOINTMENTS.

The London Gazeltc, of Tuegday, January 24th, contains the following announcement :-" The Queen has been pleased to appoint Sir Edrard Henry Sicveking, M.D., LL.D., Physician Extraerdiaary to Her Majesty, to be one of Her Majesty's Physicians in Ordinary, in the rnem of Sir George Burrows, Bart., M. D., dcceased. The Queen has also been pleased to appeint Richard Douglas Powell, Esq., M.D., to bc one of Her Majesty's Physicians Extraordinary.'

## SUCCESSFUL TRANSFUSION.

On Friday, January 13th, Dr. Enstace, a young practitioner at Alresford, Hants, was summened at midnight, and found the pationt suffering from uterine hremorrhage. This he stopped, but in the morning the patient was almost pulseless and siaking fast. Dr. Enstace, with no ono to help him bat an old woman, opened a vein in his arm and tried direct transfusion, but lost a quaatity of blood, ao, alloming orer six ouncea of blood to drop into a basin, ho injected it with a syringo, with the resnlt that the patient after a reek had recovered.

## COW-POX AND THE PATHOLOGICAL SOCIETY.

Dr. Klein has written to us with referenco to the vacciation of the calf which was exhibited at the Pathological Society on December 15 th, and subsequently on January 17th. It will be recollected that Professor Crookshank took exception to Dr. Klein's dealing with this calf, which he evideatly regarded as his property. It deserves to be stated that, at the first,mecting of the Society, the calf was handed over to Dr. Buchanan by Professer Brown for the purpose of its being tested at tho Aaimal Vaccine Establishment as to its sugceptibility to cow-pex. It was, therefore, vacciated with tho lymph of that institation by Dr. Cory, the director, in the prosedee of Professor Brown, Professor Crookshank, and Dr. Klein, all these goatlemen inspectiog it on subsequent occasions.

## MEDICAL CLUB PRACTICE IN FRANCE.

The lot of the French "club decter" dees not appear to be a particularly happy one any mere than that of his English analogue. $\Delta$ proposal has recently been made to amalgamate all the clubs in the department of the Seine under tho title of "Union Médicale des Sociétés do Secours Mutuel du Départomont do la Soine." The doproment is to be divided into a certain number of districts, each of which is to be scrved by one medical officcr, who shall be bound to attend any wember of the club living in sach district. The yearly subscription is two framca for each adult person of either sex, and one franc for cach child under the age of 16. A reduction of from 25 to 50 per cont. must be made when there are four or more children in
one family. Nothing is said as to extra fees for midwifery. For this magaificent remuneration the medical officer is at the beck and call of each iedividual subscriber, sad must obey every summons "dans le plus bref delai possible," and look, we suppose, as cheerful as he can for the money. Ollicial ststistics are said to show that in such societies in France the modical officer has to visit each sdult member of the club on an average five times in the course of the year, and in the case of childron the sverage is considerably higher. In case of illuess or absence the medical officer is required to provide a substitute at his own expense. As the Progrès Médical, from which wo take these details, says, io these so-called benevolent societies all the benevolence seems to be furnished by the medical men. Would butchers, bakers, or shoemakers supply the needs of the members of these clubs on such philanthropic torms as the modical practitioner is oxpected to be content with? After all, however, the fault lies mostly with the profession itself, which has the remedy in its own hands, if it will only ggree to apply it.

## THE ILLNESS OF THE CROWN PRINCE.

Ir is now definitely arranged that Sir Morell Mackenzie will leave for San Remo todsy (Saturday). As we intimated last week, this does not indicate that the Crown Prince's present coadition is such as to cause anxiety. The reports from ${ }^{\circ}$ German sources that any special operation for the removal of dead cartilage is in contemplation are, to say the least, premature; snd we are suthorised to state that no arrangements whatever have as yet been made for another general consnltatiou. As there appears to ba a good deal of misconception as to the symptoms which have recently shown themselves, it may be well to point out that they are precisely such as were to be expected-and, indecd, hoped for-on the theory that the disease is perichondritis. A certain amount of disintegrated tissuo has been throwe off at the point where the growth was noticed in the early part of November ; and it is theught probable that this sloughing process may be consceted with disease of the cartilages. It is at present, of course, impossible to say that there is no graver affection underlying the perichoudritis, but clinical experience is opposed to the probability of such a complication.

## NATIONAL PENSION FUND FOR NURSES AND hOSPITAL OFFICIALS.

The organisation of this fuad is, we are informed, proceeding satisfactorily, and many hundreds of applications for forms and particulars are coming in to the acting secretary, Mr. J. H. Hanning, 38, Old Jewry, E.C., from institutions and individuals who desire to join. A strong council is being constituted, and the deed of incorporation has been settled. Mr. E. F. Coates, of Ewell, Surrey, has given 250 guineas to Mr. Burdett to defrey the expenses up to the end of the first year, because he underatands from the actuary that chat smount will prove more thau enough to give the movement au adequate commencement. Lady Rothschild has given her name as a patroness. There are to be not more than thirty vice-presidents, of whom four will be on the Council; their names will be snnounced shortly.

## SCARLET FEVER IN LONDON.

Ir is satisfactory to note that the epidemic of ecarlet fever in London, which recently assumed alarming proportions, slows signs of steady abatement. In tho middle of April last, there were 368 cases of the disesse under treatment in the Metropolitan Asylums Hospitals, from which date the number rose, week by week, until it reached the formidable total of 2,602 at the end of November. Since that date, however, the epidemic has shown a steady decline, and, as will be seen on reference to the article on the Health of English Towns, page 219, the number of persons suffering from scarlet fever, now under treatment in the Metropolitan Asylums Hospitsls amounts to 1,72 . The aporage weekly number of admissions, mhich had been

294 in October, fell to 228 daring November, and still furtber declined to 148 in December. During the first three weeks of the current year, the admissions have been 147, 148, and 122 respectively.

## THE BRITISH MEDICAL JOURNAL.

Tie substitution on the front page of the Journal of the figures "over 14,500 copies weekly" for those which previously marked the weekly circulation of the Bertish Medical Jocrinal es upwards of " 14,000 copies weekly" iadicates the large addition to the sabscribing members which has followed the extra issue to the profession outside of the Association of our number of December 10th. The circnlation of the Jodrnal has in plain words once more increased at a bound by nearly 500 ; |the majority of the new subscribers having, sfter due signature of the certificates and forms with which they have been furnished from this office, and 'scrutiny by the Council of their credentials, become members of the British Medical Association by election. The continned growth of the circulation of the Jourval is phenomenal ; its circulation having already some years since reached the limits which it was previously thought possible that a British journal of medicine could attain. It is now estimated that the weekly circulation of the British Medical Journal is not only larger than that of any other weekly journal by maey thousand copies weekly, but very considerably exceeds the combined circulation of all the other medical periodicals published in Great Britain -a circumstance of no small interest to seientific and clivical contributorz, ss well as to these who desire to discuss departmental, social, and alministrative questions in conference with the largest possible aggregation of their professional colleagues. We must, however, once more remind our correspondents and contributors that the dififculties of selection for publication are greatly enhanced by the multiplicity of our readers, which brings with it unfailingly a corresponding increase in the mass of correspondence and cantributions. The value of conciseness, brevity, and reticence of style is, therefore, more than ever appsrent.

## SCHOOL DINNERS: VEGETARIAN VERSUS MIXED DIETS.

The work of providing dinners for school children in large towns is not ouly useful ; it has become so exceedingly popular that we now see a competition in good works which may lead to the mutual benefit of the various schemes contending in friendly rivalry. We bave referred to the difficulties of the economic question is avoiding pauperisation ; the competition between vegetarian and mixed diets has been put promineatly forwsrd in a report of two conferences held in Manchester on cheap dinners for school children. The Tegetarian Society naturally wish to demonstate the economical and physiological success of their receipts, while others are not prepared to admit the desirability of exeluding animal food. Success or failure in such a matter must be demonstrated by extended experiments. The value of a special diet cannot be demonstrated siaply by chemical anslysis of the food that ought to be digested, but also mist be proved by a proloagod series of observations on the weight and measurements of children, repeated at regular intervals. At present we have no sufficient evidence before us, but we look for such in the futore as the outcome of present efforts. It has been found that starring childrea can est but little food at these free dioners, and it is said that they digest vegetarien dinners better than animal food. Still mavy children needing a provision for dinner at or near school are not starving; a separate experience is needed as to the diet most suited to chese children, what is best to aid their growth and development, and what do they like best? What diet is followed by most growth and activity in school? Starrstion disorders the stowach, producing dyspepsia, loss of appetite, furred tongue, feeble digestion; such is not, we hope, the average condition of children for whom aserage diets are to be provided. We urge then the desirability of careful and scientific obscrvation of groups of children as to their condition, and as to their
feeding, raluable information may thus the attained. It secus dosirable to place the vegetarian aud mired dinners in direct competition, and see how the children like and thrive on each respectively. Let ono word of warning bo given as to vegetariau diet; it bas been amply shown that infants under 7 months in large towns are apt to becomo rachitic if deprivol of their natural oupply of milk, or cow's milk as its substitute ; vegetable food at this age is highly prejudicial to their growth and future dovelopmont.

A NEW FORM OF INFECTIOUS PNEUMONIA.
At the recent Mledical Cougress in Italy, Urofessar Cantani presented a communication on a new form of infectious puemmonia which had been olserved by him. The clinical history showed broncho-poenmooia, which had been preceded by a difluse brouchitis, with remittent anil rery pronounced fever, considerable emaciation, and great onlargement of the spleen. Tho diseaso was contagious, and was a primary allection of the bronchi, which exteuded downwards throngh the luag, and sometines over the pleura and upwards along the trachea, and event to the larynx and pharynx. Bacteriological examination revealed the presence of numerons diplococci, and especially streptococci, similar to those found in erysipelas. The puro cultares did not, however, produce ergsipelss when injected subel. taneously. When they were injected under the okin of a rabbit's ear, only awelling and reddening at the site of puocture wero produced. All the cases ran a favourable conrse.

## SEA SICKNESS

M. Ossian-lionnex, on January 10th, read a long psper on Sea-sickness before the Académie do Medecine, Paris. He had stulied the sub. ject on hoard ship for twelve years and had never seeu serions results; in this respect his experience differs from that of many British physicians. Ho believes that sea-sickness is essentially a nerve disease, the gastric symptoms being accondary or accidental. He denies that it is caused by a shaking-up of the cercbro-spinal fluid, or by movements of internal organy, for symptems ideutical with those of sea-sickness aro sometimes seon in persons who look over a precipice or wbo atare too long at machinery in rapil motion, although their own bodies are unshaken. Still more important in this respect is the fact that al thongh the movements of the ship are more rapid and violent when oho rolls than when she pitches, it is pitching which most readily canses sickness. In rolling, the ohip lies agaiust the soa as aho heols to port and again lies supported along her own"leagth as abo beels to starboard, thus rotathg smartly ou ber long axis, her movements hare but a short range, and she is supported evenly on the eide towards which she rolls. In pitching, the ship passes across a large wave, her bows descend, she rotates slowly on her short axis over a wide range of movernent, and all the time her hall is unerenly supported by the sca beneath. During the eereral seconds whith the ship tskes to descend, the seasorium of the sufferer is affected in the way in which it alwaye is affected when the hody descends through space, or oven when the idea of descenling throngh space is strongly improssed on the pationt, 3s when he looks over an shysa or dreams of falling from the clouds. In this fact lies the primary cause of ses-sickness; the cffects aro enticly cerchral at first, the head feels etruty, then comes a sensation of weight at the tomples, and disordered vision of giddiness. A large namber of bealthy landunen feel these morbid symptoms mildly or even severely during a short Channel passage, without heing sick. But should the head-symptoms excecd a certain limit, especially in the eve of a gerson who has eaten too much or too little before embarking, the stomach roon sympathises and throws up its contents, or if cmpty nodergoes ninfal contractions, sccreting after a time a tenacious, clear macus. When still longer exposed to irritation, bile if ejected from the stomach. Dr. Ossiau-Boanet has fomm that antipyrin is the best therapeutic remody for sea-sickness. Dr. Fugene Dupuy has already spaken in its favour (Journal, December 17th, 1857, p. 1356). 1 dose of from tweaty to twenty-five grains is often sufficient to care a case
when tho sea is not very rough and the pationt is sinnoly giddy, but thirty grains are needed when sickuess is present. Should the first dose in cither case fail to produce any effect, fifteen grains ohould be given half-an-hour later, and this dose may be repeated should tho vomiting recur after the temporary relief. Up to nincty grains daily may be girch, but such a dose is hardly if ever necessary. Subcutaueous injections of fiftcen grains are useful when the stomach cannot retain the dose ; this is best dono by injecting in immediate succession two doses of seven sad a half grains in eolution. SirrgconGeneral Ogiloy, Dr. T. S. Robertgon of Now lork, and Profescor Germain Sce hare slready testified to the value of antipyrin in "bilious hesdacho," migraine and nemalgia. It counteracts "nerve-storms" and bence is useful in nentralising the severe disturbance to the sensorium caused by the pitching of a ressel. Dr. Ossian-Bonnet's opiaions will be of interest to the Briten who may still rule the waves, hut who certainly cannot always prevent them from making him sea-sick.

## HARVEIAN SOCIETY OF LONDON.

The Annual Geaeral Meeting and conversazione of this Society took place on Thursday, January 19th, at the Marlborongh Rooms, Regent Street. A business meeting for the election of officers for the onsuing year and for the usual complimentary votes of thanks to the retirigg officials, was beld in the Lower Foom; and the retiring President, Mr. Elmund Owen, delivered au address which whas heard with close attention by a large andience. Dealing chiefly with the subject of medical ellucation from the point of view of a hospital teacher, Mr. Owen pointerl out with considerable force the disadrantages nuder which students of medicine must labour so long as the preliminary suljects continue to he a part of the hospital course, snd showed bow impossible it has become for any but the most brilliaut to acquire real kuowledge, owing to the constant domaod made upon his time by periolical examinations which leave no interval in which to assimilate tho knowledge thus forced into the mind. He criticised somewhat strongly cortain recent enactments of the Uaiversity of Londun relating to studunts failing to obtain honours, which he considered were more advantageons to the examiners than to the students themselres. It the close of the aldress, which was warmly applanded, he introduced the President for the ensuing year, Mr. W. Sedgwick, who briefly returned thanks for his clection on taking the chair. The members and their friends then adjournel to the Upper Rooms, in one of which a conversuzione was opened, during which, in defiance of ancient traditions to the coutrary, smoking was permitted, whilst vocal music was kindly volunteeral by Meesrs. J. Ernest Lane, I. E. Tietkens, and Orton Bradloy. A recitation hy Dr. Arthar Evershed, oi a scone from King John, sdded greatly to the entertainment of the evenivg. Exhibits of surgical instruments sad electrical appliancea, intraduciug many noveltics in clectric lighting for medical purposes, were shown hy Dlessrs. Down Brothers, Mr. K. Schall and Mr. G. Bowron, while Messrs. Nelson end Curtie's photo-microgrsphic apparatus, spcecially designed for use with \%eisa projector oyepiece, was lent for the occasion by Mr. O. Baker. Tho conversazione which was very well attended, was continued to a lato hour.

## SPECIAL HOSPITAL SCANDALS.

We referred recently to the bad impression which could not fail to be produced by the refusal by a partisan rote of a mecting of some of the Governors of St. John's Hospital (whoso proccediags were on the whole by no means of a satisfactory character) to assent to the appointment of a Committce of Inquiry into the rnles and management of tho hospital. It was sutficiently obvious from tho admissious made in the official documents put forwarl at the meeting that such an inquiry is far from boing uncalled for in the interests of the public and ss a luty to subscribers. The proceeding under which members of the staff who have protested agsinst that management were summarily dismissed by tho Board of Managers, tho allerations mado as to the general fimacial condnct of the hospital, the admissions
in respect to those allogations in the financial report, the circumstance that the President, the Dake of Northumberland, insisted that such an iuquiry should be made, as a condition that he allowed his name to ba coupled with the iustitution as that of its President, and the attitude in support of the Duke of Northumberland's legitimate requirement on behalf of the public of Mr. Hemilton 11 oare and Mr. Henry Maudslay ought to have convinced those who were present at the meeting that such an inquiry is absolutely essential before due confidence can bo felt by the public and the subscribers. To stifle iaquiry under such circumstances is to invito public censure, and is in itself the severcst condemuation of the form ot management which under such conditions and circumstances refuses the inquiry which the official head of the hospital and its most respected friends consider to be necessary. It is a grave misfortune of small special institutions such as this and the Jubilee Hospital, that they ara for ever bringing elements of strife and disparagement into the ares of hospital management. Such incidents ought to be a warning to the public against tha incessant multiplication of petty institutions of the kind which are so constantly the scene of the struggles of individual interests and small partisan fights, and which become the cockpit of little official contests among tbose who either professionally or unprofessionally find their interest in establishing little special hospitals, which as otten as not, in napiring, on a small scale to a public character, create at more or less frequent intervals a considerable public scandal. The affairs of the Jubilee Hospital, which is a sort of conglomeration of the specialities, have again figured unsatisfactorily this week in the 1 aw courts.

EMMET ON UTERINE DISPLACEMENT.
AT the twelfth annual niceting of the American Gynacological Society, held in New York last September, Dr. Emmet read a "Study of the Causes and Treatment of Uterine Displacement." He maintained that version was a symptom, not a disease. In a case of prolapse, the pulsation of some branch of the uterine artery could be readily detected; but when the uterus was reduced to its natural level the patient felt relief, aud ster a ferw minutes tha pulsation ceased. If the uterus Wera raised above that' level, distress was agzin' experienced. Anteversion was certainly not an abnormal position ; and marked retroversion was ofter detected accidentally, whero it hard caused no symptoms. Dr. Emmot referrel to the influence of pelvic inflammation in inducing displacement. The only fixed point was in front of the neck of the bladder, where the subpubic ligament bound down the urethra. Any traction on this point led to irritation and a desire to empty the bladder. This often resulted from inflammatory adhesions, the uterus might be retroflexed or anteflexed, but the traction mould be upon the urethra. Prolapse was, in Dr. Emmet's opinion, the more usual consequence of pelvic inflammation, resulting from the increased weight due to the obstructed circulation. The degree of displacement was usually in proportion to the extent of the cellulitis. In pelvis peritonitis involving Douglas's pouch the uterus was raised; versions always resulted from pelvic cellulitis. In cases where the inflammation was confined to the utero-sacral ligament there would bo anteversion. The uterns was, as a rnle, comparatively free in back ward displacement, so that it could be corrected with the finger if it were then held in its supposed normal position pulsation would soon be detected in some of the neighboring vessels. Were a pessary introduced under these circumstances, it would soon be necessary to remora it. A similar "correction" of estreme anteversion by any instrument caused traction on the utero-sacral ligaments, and consequent inflammation. Thus in the treatment of cascs of displacement following inflammation, pessarics must not be applied, but local applications of iodine; and glycerine puds, with hot water injections wero indicated. Dr. Emmet then spoke of tho pelvic circulation. Much blood would engerge the tortuous, valveless veins. When the uterus was drawn down to the floor of the pelvis and held there, the cervix and vaginal tissues kecame congested, throngh obstrnction of
venous circulation; bot on increasing the traction till complete procidentia was prodnced, the tissues became blanched throngh the consequent narrowing of the tightly-stretched arteries. A Iessary mnst be so shaped and so applied as just to dispose of the traction whilst relieving the prolapse. The relief which would then follow signified the removal of a cause of congestion, rather than the reduction of the displacement. Under the principles jnst indicated, and not otherwise, the pessary was beneficial. No attempt should be made to remedy he displacement, eo long as any evidences of recent imflammation were present; otherwise, harm might be done, and no good could possibly ensue, as a large number of histories testified. Dr. Emmet had emploged cotton plugs soaked in glycerine to support the aterus in suitable cases of prola|,se; when the plug wss too large, that is to say, more than sufficient to correct the prolapse, irritation wes set np. After the discussion on Dr. Emmet's paper, which is fully reported in the Journal of the American Medical Association, he replied, admitting that pelvic inflammation was more frequent in America than in Europe. Americau women went early into society and contracted pelvic inflammation as a resalt of imprudence in dress. Dr. Emmet had found the effects of pelvic inflammation more common annong the single than among the married.

## SUCCESSFUL EXCISION OF A TUMOUR OF THE SPINAL CORD.

Surgery is a science, or perhaps we should say a fine art, which will tolerate no limits to its domain. It has of late taken up the is. vasion of the brain in earnest; it bas just mada its first successful dash at a tumour in the spinal cord. Last Tuesday evening, before the meeting of the Medical and Chirurgical Society, a pivate patient of Dr. Gowers and Mr. Victor Hersley rery generously allowed the Fallows and visitors of that Society the opportunity of seeing all that: had been done for tho improvement of his condition. He had spent about three years in severe pain, which was most intensa just below and inside the angle of the left scapnla, and mas accompanied by absolute loss of motion and sensation of the body and limbs below that leval. The upper border of the anæsthesia was distinctly in the region of the fifth intercostal nerve on tha left side, on tha right it was less accurately defined, but did not extend higher. All the symptoms agreed with those of tumours of the spinal cord, and the intense pain alfordell ample justification for making an attempt to excise the tumour. Mr. Wictor Horsley accordingly removed the spines and parts of the lamine of the fifth and fourth dorsal vertabræ; but not until the third vertebra had been similarly treated did the tumour come into sight. It was a small oval myxoma compressing and making a deep impression on the left side of the spinal cord below tha third vertebra. It was easily shelled out, and nnder careful antiseptic treatment the tomperature did not risa more than $1^{\circ} \mathrm{F}$. The wound healed rapidly, except at tha uppermost point, whera a drain had been left in by which a little ccrebro-spinal fluid flowed away very slowly. For three or four weeks the former acute pain did not lessen, and even at times soemed more agonising; but aftor that it gradually and intermittently decressed, and now, after seven months, is entirely gone ; the sensation and motion of the body and legs are almost completely restored. This is, we bclieve, the first time that such an operation has been attempted, and we must most heartily congratulate bath the patient and his advisers on the trinmphant cbaracter of its succass. IIowover far, and however quickly sargery may advance, it will long be a memorable day when it gained its first victory on so new a field and over so formidable an enems.

## THE JURISPRUDENCE OF INEBRIETY.

Dr. Nomman Kerr, President of the Society for the Study of lnebriety, delivered his concluding lectare in the rooms of the Medical Socicty of London on Tanusry 25th. The subject was "Tha Juris. prudence of Inebriets." He said that the old conflict between law and medicine over the insano had now been more rigoronsly than ever
renewod over the inebriate. 13y Roman law au allowance was made for intoxication, but there was moue under Greciau law. In l'ittacus, iu fact, for a criainal to haro been drunk at the time when the allegod offeuce was committed, was to receive doublo punishment. Though inebriety had not boen formally acknowledged as a disease by United States law, get confermed drunkeuness was practically accepted as a fair plea. According to New York State law of hall a century back, confirmed drunkards were classed with idiots, lunatice, and persous of unseud mind, as ineapable of beiug entrusted with the conduct of their atfairs, and liablo to be placed under the control and care of the Suprome Court. liy German, Austrian, and Swiss law there was a differenco in the punishment for crimes committed during calpable aud inculpable intoxication. French law made no difference, but the iuveterato French inebriate lost his civil rights. Eoglish jurisprulence was characterised by contradictory rulings, and appeared to aim at punishing drunkenness through its effects. It had been laid down that drunkenuess was no excnse for erime; that it ought to involve extra punishment, that frenzy from babitual intemperance was a valid plea for exemption. One person was convicted of manslaughter, thongh be knew nothing of the affair, owing to his druuken unconscionsuess, on the ground that his frenzy was brought on by his own indalgence. A recent trial was a reproach to our present jurisprudence. Two men were under the influence of liquor. One met bis death; tha other was sentenced to death for the marder. The judge subse Ifuently subatituted for the capital panishment penal servitude for 20 fears. As a rule, an alleged criminal's condition as to liquor did not affect the juticial decision. The remarkable phenomena of inebriate travee ought not to be lost aight of. Iu this state criminal acta might bo committed without conscious volition, no recollection of the act reraaining after the termination of the abnormal suspension of couscionsness. The followigg four affections ought to exempt from crimi. nal responsibility: first, the inchriety of insanity, in which the druakeness was but a symptom of recurrent mauia; second, the insanity of inebriety, the admitted and unquestionable mental unaouadness induced by persisteat excess in alcohol, morphine, or other narcotic; third, delirium tremens, in the height of which the subject often did not know the effect of his actions, or the nature of the actions, or remember the actions themselves; fourth, mania a potu, a common malady of police-court drunkards. During a paroxysm of this form of alcoholic inebricty, consciousness was absent, and violence was done with no knowledge of the deed or after-recollection of it. Many inebriates possessed a minimnm of inhibitory power, while others had so potent an igate tendency to excess that, haviog once tasted an intoxicant, they were impelled to iatoxication. Au accused person having been proved to have been druak, no paios were bestowed on inquiring into the condition of the alleged criminal before the drunken act. Yet he might have been a diseased Innatic or inebriate. Our present juriaprudence was constructed on our previous wat of acquaintance with tho unhealthy atate of many juebriate criminals. scienco had revealed the existence of a discase of inebriety as of a disease of insanity. The latter, like the former now, had at as earlier period been regarded but as a Divine penalty for the punishment of sinful deeds ; bnt, happily, was at this day seen to be a veritable dis. ease, yielding to romedial treatment. In order that the case of the inobriste accused should the thoroughly investigated, Dr. lierr suggested the appointment of a mixed commission of legal and medical experts, in the intereat of the accused himself, of the bar, of the bench, and, above all, of justice.

SIR SPENCER WELLS AND PROFESSOR BILLROTH.
We learn from the volume just published of the Verhandlungen of the German Suciety of Surgery, tbat whan, at the Sixtecoth Congress of the Society of I'erlin, Sir Speacer Wills aad I'rofessor Billroth were elceted honorary mombers, 142 members voted. Of these 137 voted for our countryman, and 14 for him only. For Billroth, 123 roted

Who had also voted for Sir Spencer, and only one for him only. So that the voting of 142 members resulted iu the election of both, as the rules require a majority of two-thirds, with 137 votes for Sir Sponcer Wella, and 124 for Professor Billroth.

## SCOTLAND.

SANITARY LEGISLATION FOR SCOTLAND.
The Sanitary Association of Scotland lias presented a memorial to the Secretary for Scotland, contaiuing a number of important recom. mendations as to the necessity for further aanitary legislation for Scotland. It is suggested that, in the event of the Burgh Police Bill being again introduced into Parliament, the section relating to public bealth should be omitted. It is felt that public health is a matter of snfficient importance to be dealt rith in a Bill by itself, when it would heve more chance of receiving adequate attention, than forming as it now docs a minor part of a large and exccssively complicated polico measure.

## EDINBURGH STUDENTS' SYMPOSIUM.

On Friday last, in the Drill Hall, Edinburgh, there was assombled a congregation of two thousand students of Edinburgh University for the purpose of doing heoour to, and making the acquaintance of, the Lord Rector, the Marquis of Lothian ; and also for the social purpose of enjoying a thoroughly good smoking concert. Lord Lothian travelled that day specially from London for tho purpose of presiding at the symposium ; he was cordially welcomed by bis coustituents, and addressed them briefly aud pleasantly. The evening was speat most happily; the arrangements were conducted by the Amusements Com. mittee of the Students' Representative Council.

## EXAMINERS AND EXAMINATIONS IN EDINBURGH UNIVERSITY.

Tue following gentlemen were appointed examiners for degrees iu Mediciue in Ediuburgh University by the University Court at a meeting held on Monday: in Practice of Physic, Df. Alexauder Hughes Lennett, London; in Midwilery, Dr. David Berry Hart, Ldiahurgh ; and in Chemistry, Profcssor W. II. Perkin, juu., Ph. D. The appoiatmeut of Examiver in Anatomy was deferred until the nest aucetiag of the Court. The subject of the proposed alteration for the first and aecond professional examioation was also consilered, aud a letter was read from l'rofessor sir William Turner withdrawing his appeal against the alteration of the arrangements for the first professional cxamination, as originally proposed by the Senatus. A letter was slso read from the Sub-committee of the Studeuts' Representative Council requestigg to be heard ou the matter. It was agreed to hear them on Wednesday, February 8 th, and also to request Sir William Turace aud representatives of the Senatus to attend, tho Committee being requested to lodge a writteo statement of the points they wished to put bofore the Court. This courteous action to the Students Representative Council ehows the position which has already boeu ohtaiaed by it as a body entitled to make known the grievances and dosiros of the students.

ROYAL HOSPITAL FOR SICK CHILDREN.
The work done in the Royal IIospital for Sick Chillren, Euinburgh, duriag the past yoar is summarised ie the report presented to the tweaty-niuth annual meoting of the contributors held last week. There were treated in the wards of the hospital 750 patients, and in the outdoor department 6,108 patients, while 172 vaccinations had been etfected, the total number for all being 7,036 . Of new cases treated in the hospital, 386 recovered or were cured, aed 142 were relieved. A new feature in the mangerent duriog the year was the opening of a surgical ward, and Dr. Joseph Bell was appointed to the charge of it as surgeon to the hospital. Great care was now taken in tho train-
ing of narses, and lectures had been delivered to, and classes had been formed for them, s:x probstioner nursea had duriag the year completed their course of training. The directors drew attention to the necessity that existed for a convalescent home in conncction with the hoapital, at present convalescent cbilliren were sent to the home at Gilmerton, and sixty-nine had that adrantage duiog the year. No surgical cases, howerer, or medical cases requiring pursing could be received thero, as there was no nurse at the Home to lork afcer them. The total income for the jear was $£ 3,925$, and the expenditure $£ 2,875$, this was the first occasion in which the ordinary income bad been greater than the expendituro.

## IRELAND.

## CORONERSHIP OF DUNGANNON.

THis post is vacant by the death of Dr. David J. Hamilton, and alroady about nine or ten candidates are in the field. Tha candidates are pretty evenly divided between the medical and the leg3l profesaions. It is to be feared that the contest will be conducted mainly on political lines.

## the octo-centenary of the university of

 BOLOGNA.Tae Rev. Dr. Havgeton, F.R.S., Senior Lecturer, and Dr. D. T. Cunningham, Professor of Anatomy, have been selected by the Board of Trinity College to represent the University of Dublin at the octocentenary of the University of Bologna in June next.

## DR. CROKER KING.

Dr. C. Crorer King, Medical Commisaioner, Local Government Board, has been confined to his bouse for some time, from an affection of the foot which at one time gave canse for serious alarm. It is stated, however, that he is now much better, the more serious symptoms having abated.

## SMALL-POX.

AFTER an interval of some weeks, during which no case of small- pox was reported in Dublin, we regret to learn that two persons have been attacked. Every precaution is being taken to limit the disease.

CHILDREN'S HOSPITAL, CORK.
An entertainment of an unusnal kiad was given last week, in aid of this inatitution. It consisted of a programme of rocal and instromental music capitally rendered by children. One of the most attractive items was a recitation by a jnvenile, who was attired in the uniform of the 4th Hossars. The proceeds will be devoted to the purchase of a musical box, for the amusement of the inmates of the hospital.

## THE DUBLIN BRANCH.

OUR Dublin correspondent telegraphs that the annual dinner of the Dublin Branch of the Eritish Medical Association was held on Wednesday evening, in the Mall of the College of Physicians. Dr. Mapother, President of the Branch, occupied the chair, and there was a largo attendance. The guests included Sir West Ridgway, Under Secretary; Mr. Gray, M.P., Mr. Androw Reed, Inspector-General of Constabulary, and others. The toasta proposed were: "The Queeu," proposed by the President ; "The Prince and Priucess of Wales, and the rest of the Royal Famils," proposed by the President ; "The Army and Navy," proposed by the Presideut, and responded to by Colonel Sir J. West Ridgway, R.C.S.I. "The Universities and Colleges of Physicians and Surgeons," proposed by the President, and reaponded to by the Provest of Trinity College, Dr. A. W. Foot, and Mr. A. H. Corley, President of the Rayal College of Surgeons in Ireland. "The British Stcdical Association," proposed by the President of the Branch, and responded to by Dr. Banks, President of the

British Medical Associztion, Dr. Daffey, and Mr. Hepenstal Ormsby, Honorary Secretary of the Branch ; "The Irish Medical Association," Iroposed by the Presidert and responded to by Mr. H. G. Croly, Pre. sident of the hish Medical Association. "Oor Visitora," proposed by the President, responded to by The Rt. Hon, the Attorney Ceneral for Ireland, Colonel Frazer, and Dr. Finlay.

NEGLECT OF VACCINATION: WEXFORD UNION. At a recent meeting of the Guardiana, Dr. Costellioe forwarded a list of $\uparrow 5$ children who bad not, he believed, been raccinated in his district. He complained that the penple would not give him any information as to whether their childrea were vaccinated or not. We believe that if the children are raccinated, the parenta are bound to prodace a certificate from the medical prastitioner who vaccinated them.

## BARRINGTON'S HOSPITAL, LIMERICK.

A special meeting of the Governora was held recently to select a resident medical officer to this institation. Drs. Hayes, Riordan, and Mculahon were candidates, but Dr. Riordan was the only one proposed, and was duly elected at a salary of $£ 100$ a year. At the meeting a letter was received from the visiting medical staff requesting the gavernors to insert an order on the minates that no one except the physician or surgeon in charge shonld be entilled to give any information by certificate or otherwise with refereace to any patient. This was apparently intended to prevent the resident surgeon being allowed to give evidence or a certificate, and thus obtain a fee, and was refased by the governors, who marked the commonication " read."

## THE INSPECTOR OF ANATOMY.

Tris vacancy caused by the death of Dr. D. F. Brady, Inspector of Azatomy for Dublin, Belfast, and Galway, has been filled by theappointment of Dr. W. J. Martin, Secretary to the Dablin Hospitals Board, Pbysician to Jervis Street Hoapital. No objection is made on personel grounds, for Dr. Martin is very popular, but the daily papers have commented upon what is called the undue baste with which the appointment was made. Dr. Brady died on Monday, and was baried on Thursday, but the racancy was filled on Wednesday. Mr. Balfour has not added to his popularity with his party by thus piling coals of fire ou the head of one who is said to be not one of his supporters. There were many candidates, and the expression of disappointment is correspondingly lond. The duties of the office are very light, and the emoluments are said to be worth $£ 200$ or $£ 300$ a year.

## HEALTH OF BELFAST.

The death-rate of Belfast still continues abnormally high, the rate for the week ending January 14 th having been 37.9 per 1,000 . The 165 deaths from all causea included 11 deaths from measles, 3 from scarlatina, 15 from whooping. congh, 1 from "simple" fever, 3 from enteric fever, and 1 from diarrhee 3. During the past quarter there have been in Belfast 94 deaths from measles, 39 from scarlatina, 6 from typhus, 29 from enteric ferer, 13 from "simple" fever.
a case of alleged starvation.
An inquest was held at Coachford, Counts Cork, on Janarary 20th, on the body of Mr. Simon D. Crooke, who, it was alleged, died of star. vation. The deceased was 70 years of age, and the eridence given went to show that he had not been attended to as his condition required, and that he received very little food. Dr. Cowley and Dr. Whyte proved that they bad made a post-mortion examination, and that, in their opinion, death was caused by starration in a man previoasly reduced by chronic pulmoarry discase. The jury found a verdict accordingly, and Mrs. Crooke was arrested. It is curious to noto that she is a consio of the late Dr . Cross, executed for the murder of his wifeon the 10th of January. She has been admitted to bail.

AN゙NUAL MEETLNG OF THE DUBLIN PRANCH.
Tae clurenth annual meeting of the Dublin Branch of the British Medical Association was beld in tho College of lhysicians, Dublin, on Wednestas, Jannaty $25 t h$, at \& o'clock, Dr. T. W. Gmasiadw, Registrar General, President of tho Branch, io the chair.
Amongst those present Fere Dr. J. T. Mauks, Prosident of the British Medical Association ; Sir William Stokos, Sir George II. Vorter, Dr. Little, President of the College of Physicians; Dr. Corley, President of the Royal College of Surgeons; Dr. Foot, Vico. P'resident of the Rojal Collego of Physicians; Dr. Fitzgibboa, Vicc-President of the Koyal Collego of Surgeons; Dr. J. W. Moore, Professor E. 11. Beanett, Professor W. G. Smith, Dr. Myles, Jr. McSwincy, Dr. Kidd, Dr. Nugent, Dr. Ball, Dr. latton, Dr. King, Dr. Atthill, Dr. Johnston, Dr. S. Gordon, Dr. Georga F. Dulley, Dr. Nixon, Mr. Thomson, Dr. Cruise, Mr. Wheeler, Dr. Durser, Dr. W. Moore, Dr. Doyle, Mr. Tohin, Mr. Croly, Dr. JI. Bonson, Dr. W. T. Smyly, Dr. J. A. Scott, Sir Charles A. Cameron, anil Dr. Robort MacDonnell, F.R.S.
Tho Honohaby Secretaby, Mt. Iambert H. Ormbby, read the report, which referred back at somo longth to the Dublin meeting of tho Association, and to the saccess which atterded it. The following may bo quoted:
Thesubscriptions to the Recention Fuad amnunted to $£ 1,50814 \mathrm{~s}$ 10d., and proved suthecient to defray tho various expenses of the meeting, leaviog a balauce. At a meeting of the subscribers, held Noyember Sth, 15s7, it was unsuimously resolved:
That the aurplus shoutd be apllied to procure a portrait of Dr. Banks, the Prisideat of the Association, to be hung in the Jall of the King and Queen's College of Physicians, as a memorial of the Dublin meeting of the British 3icdical Association in 185\%, and of the able, courteous, and hospitable mau. Der in which he presided over the meeting.
Dr. Walter Smith acted as Honorary Treaqurer to the Reception Fond, and the Council eannot sulticiently thauk him for the timo and labour which he bestored on the duties of such a responsible post.

In accordance with the resolution adopted by the Branch at its last angual mectiog, your Council have had under its consideration the necessity which exists for the provision of systematic iastraction in pathology in the various teaching bodies in Dubliu. Iour Conocil appointed a Conmittee, consisting of Sir William Stokes, Messrs. E. II. Benactt, A. H. Corley, William Thomson, and the Honorary Secretary, to consiller the subject, and to report to the Conncil. The Committee male the following teport:
The Committec appointed to conshler the resolution in reference to the teaching of pathology, passed at the last menerat meeting of the Branch, have lad the question referred to them under discussion. They sugsest that, as pathColngy is now compulsory in the curicula of various lieensiog lindies, the Conncil should seek to impress npon the taching anthorities in Irelad the great importaoce and urgency of this question.
This leport Laving been submitted to the Colincil, it was unanimoosly arloped, and the following realution passed thereon.
Rosolved: That the Conncil of the Dublin Branch strongly recommend that stepe be taken to establish chairs of patholngy in the respective Schools of Medicise in Ireland.
The Council, in concluding this report, hope the Branch will continue to progress in the future as it has dono in the past. The ac counts of the liranch haro heen duly audited by Sir William Stekes, up to Janasry 24th, 1887, and show a balance in favour of tho Branch of $£ 13$ 4s 11d.

Dr. A. W. Foot moved and D:- Pitzarabos seconded the adoption of the report.
Dr. Dorle complained of the omission of general practitioners from the honorary officas of the Bratnch. IIe wished to know how candidates were nominated.
Mr. Ormany explainol that anynne could send in his namo as a candidate, and that a circular notico was sent to each member a fortnight before the meeting.
Tho report was then arlopted.
The Crampans stated that the scrutineers harl just roported that the followin: ollicers were elected for the ensuing year:-President: F. D. Mapother, M D. President-elert: W. Moore, M. D. Ficc-Presidents (two to be elected): J. K. Barton, M.D. ; Walcer G. Smith, M. D. Council: Lombe Atthill, M. D. ; John T. Banka, M.D. ; E. II. Jennett, M. D. ; A. II. Corlej, M. D.; Ceorge F. Duffey, M.D.; A. W. Foot, M.D. ; T. W. Grimshaw, M.J. ; E. Mamilton, MI. D. ; I. W. Moore, M.D. ; Sir William Stokes, M.D., V.I.C.S.I.; w. Thornloy Stoker, F.R.C.S I. ; II. R. Smanzy, M.D., F.IR C.S.I. Wepresentrtives on tho Counsil of the Associntion: George F. Dnffey, M. D. ; I. W. Grimstas, M D. Rrpresentetive on the I'arliamentery Bills Commillee: Goorge F. Dalfey, M.D. IJonorary Secretary and Treaturre: I. II. Ormsby, J.D., F.I.C.S.I., 92, Merrion Square Weat.

The chair was then taken by Dr. E. D. Mapotnen, the now Prosident, who was warmly applataded.

Dr. Wirliam Moore then moved and Dr. Corley (President of tho College of Surgeons) socouldel a rote of thanks to Dr. Grimsham for his valuable services to the branch.

Tho motion was passed by acelamation, and Dr. Gramsiraw replied
The President then delivered his aldress.

## PRESENTATION OF PORTRAIT TO THE PRESIDENT OF THE BRITISH MEDICAL ASSOCIATION.

At tho conclusion of tho meeting of the Dubliu Branch, on January 25 th , Dr. Manotmer unveiled a jortrait of the President of tho British Medical Association, Dr. Banks, which has been [resented to the President and Fellows of the King and Queon's College of Physicians of Ireland, on behalf of the subscribers to the reception fund of the late annual meeting of the Association in Dublin. He said ho performed the duty of prosenting tho portrait rith prido and pleasure. Since the first jears of his studentship, he had enjoyed the acquaintanco of Dr. Banks, and he had conferred upon him ruany kindnesses. They all recoguised in Dr. Barks an elegant scholar and eminent psyehologist, and one of the most refined gentlemen that ever allorned their noble hall; therofore they hastened to honour him. They elected him President of the Irish Academy of Medicino for three jeara, and last yoar with one roice the profession called him to the first place amongst the twelve thousand members of the British Medical Association. The rn. exampled geucrosity and distinguished ability with which he filled the position, were fresh in their recollaction. Among the pictures and statues which adorned that hall, the beautiful work of art before them would be the only portrait of a living man. That it might long so represent him was the prajer of them all.

Dr. Little, President of the King and Queen's Callege of Physicians, said he attended by the will of tho College to reccive this portrait. He would only assure the Council, in the name of the Collere, that the portrait was received by them with pleasure, and that it would have an honoured place on their walls. Speaking for himself, be felt that the Council of the Irish Branch had made a very wise and natural selection iu asking that College to hang a portrait of Dr. Banks on its walls. Dr. Banks was one of the oldest of its Fellows, and laad filled the most distinguished offices whish it was iu the power of tho College to confer. He was for many years ling's Professor by the appointment of the College. He afterwards filled the office of lresident of the College, and discharged his duties in such a way as to merit and receive the cordial thanks of the College. Dr. Mspother had referred to the portraits and statues they already possessed. They were exceedingly proud of them, and they looked on them with pleasure, especially thoso of their number who were old enough to remember most of the men whose statues stood around, or whose portraits lung on the walls. The penetration of Graves, the energy of Marsh, the solf-roliance of Corrigau, the subtle iatuition of Stakes, had all been presented to them by the cbisel of the aculptor, while in the portraits they were rominded of the industry of Churchill, well known to all Loglish-speaking poople by his work; of Dr. Beatty, so ready in his art and so jndicious in the advicowhich lic gave at tho Council Board of the Colloge, and so cheerful at therr festive gatherings; of Dr. Iudson, so unselfish and sincero a friend, so fertile in all the resources of accomplished physicians. Sida by side with those distiagnished men they would gladly lang the portrait of Dr. Bauks, whose many aud raried attainmonts had secured for him au entirely unique position in the social aud profegsional world of Drablia.
Dr. l3anks, who was very warmly applauded on rising, said there wero occasions when ono folt how foebly words conld express the gratitude with which the heart was overflowing, and this to him was such an oceasion. To the Dablin Branch of the British Medical Association, and to its distinguished l'resident for tho gracions words with which ho had presented the portrait, suld to tho l'resideut and Fellowa of the Collego of Jhysicians who had sccepted the gift, his most cordial thanks wera due. To find a resting place in that noble hall, adorned as it was by Ireland's most illustrions physicians, was an honour of rlich any man might feel justly proud. IIe had already been tho recipiont of overy honour and distinction which his own pro. fussion in this city could confer, aad to bo conaidered worthy of the mark of respect vow pail him by thoso with whom it harl boen his lot and his great happiness to bo so long and so intimately associated Fonld evor rennain among lis most chersshed memorios.
The portrait is by 11 iss Sara l'urseñ, sister of Dr. Purser, Professor of the Iastitutes of Jediciuc iu Trinity College. It is one of the best
that has come from her hands, and was generally admired. It represents Dr. Banks seatad wearing his nniform as Physician to the Queen, and scarlet robes as doctor of medicice.

## ORGANISATION OF THE OUT-PATIENT DEPART. MENTS OF HOSPITALS.

The latest scheme suggasted for organising the dispensing of charitable relief in the out-patient department of our hospitals, with a riew to avoid imposition, is that put forward by Dr. H. Burnes, a governor of the Great Northern Central Hospital, contained in a circular issued to the authorities of the rarious hospitals, which is as follows:
"In each district of which a hospital forms a centre an officer should be appointed, styled the superintendent almoner, mith an office in or near the hospital. Here ho would receive all applications for admission to the out-patient department, and would make inquiries as to the circumstances of the applicants. Ho would be able to recommend them either free or on payment of a certain weekly fee, according to their means. Cases in the first place would have to be taken with an order, stamped by the superintendent almoner any one of the extra-mural officers affiliated to the hospitals. These officers, would be registered madical practitioners of not less than threa years' standing in the district; and a list of such officers would be kept in the office, so that the patients might select whom they pleased. The extra. mural officer would sce the case, prescribe for it at once, and, should he be satisfied that it was of an ordinary pature and required no special treatment, he could continue to undertake the case. Should he, however, think fit, he would at once endorse the order for admission to the outdoor department of his hospital. Tha fees charged by the almoner would be payable to him, and he would account for the sime to the Committee ; tha extra-mural officer being granted a nominal sum per week (say 1s. to 3 s .6 d . for home visitation) for his treatment of the case while it remained in his hands. The superintendent almoner would report every case to the Committee, with the extra-mural officer's report annexed, if the case remained in his hands. Of course it would be provided that such patients should attend at the hospital whenerer required for examination, etc., and that the extramural officer should make a special report of avery case which had heen iu his hands for more than three weeks. The superintendent almoner would be expected to make inquiries as to the case of each ap. plicant, and to fix the fee to be paid per week (if any), in accordance with the result of his inquiries. Hence, his first order for medical relief would be only, a tomporary one, to bo endorsed or cancelled as might be necessary.:
As for the financial part of the matter there would be, on the one hand, the expenses of the superintendent almoner and his office, and also the nominal payments made to the extra-mural officers to cover cost of medicine, etc.; whilo, on the other hand, there would be the monay received by the saperintendent almoner in accordance with his decision. In case of a deficit he suggests that a grant be made from the Hospital Sunday Fund in proportion to the number of cases.

## ARMY MEDICAL DEPARTMENT REPORT FOR THE YEAR 1885. <br> (Concluded from page 155.)

The average strength of the non-commissioned officers and men serving in Bermuda in 1885 was 1,385 . The admissions into hospital during the year numbered 654 , or 49 per 1,000 ; the deaths 18 , or 13 per 1,000 ; whila the average number of men constantly sick was 38.83 , or at the rate of 28.04 per 1,000 . Enteric fever caused 29 admissions and 10 deaths, aud 27 of the admisslons took place at Pro. spect. The medical officer in charge of Proapect Camp stated, in his reporit, that the sanitary condition of the station was very good, and that the causa of the outbresk of enteric fevar was to he looked for outside the camp; while the Principal Medical Officer, in his ramarks on the causation of the disease, observed that, "in almost every case of the fever, the origin of the disease was distinctly traceable to causesmilk supply, aerated drikks, and impure water-furnished from outside tha military precincts." The drainage of the neighbouring town of Hamilton is reported to be very dafective. Out of an average strength of 63 officers, there were 17 attacks of illness, but no daath. One woman, out of an avorage strength of 96 , died from general dobility; and among the children, averaging 175 in number, thera were sis deaths. With regard to the water supply, it is mentioned that there are no springs in Bermuda, but a few wells are sunk here and there, their supply, however, being precarious, and mora or lass brackish at high tides. Rain water, collected on roofa and stored in tanks, forms
the principal source of water for use. The tanks under military
snpervision are carefully gnarded from contamination, and are periodically omptied and cleaned, whereas among the civil population there exists a great want of cara in this respect.
The white troops serving in the West Indies averaged 900 in number during the year under notice. The priacipal stations occupied hy thase troops were Barbados, Jamaica, and Trinidad, a ferw men only being in the Bahamas, Honduras, and Demerara. The nnmber of admissions into hospital was 830 ; there were 7 deaths, and the averago number constantly sick was 38.77. Two of the deaths were due to enteric fever, 1 at Jamaica and 1 at Barbados. An outbreak of yellow fever took place at Jamaica in the last quarter of the year, and 2 mon died from this disease. The advantaga of removing troops from the infected locality was well illustrated on this occasion. The medical officer in charge at Port Royal, where the 2 deaths just mentioned occurred, reports: "The first daath from the disease in this locality occurred on Octoher 9th, in the person of a sailor. On November 3rd a child in garrison was attackad, and died on the 7 th. This patient communicated the disease to a younger sistar. Next, two boys were attacked on the 13 th and died on the 16 th. On the 17 th, an artilleryman was attacked, and the garrison was evacuated that day. Another man in the sume ward as the artilleryman was also attacked. Both cases showed extreme maligoancy, and both men died. Next, the two attendants on the sick men were attacked, one case heing yers severe, the other milder ; both of these men recovered." No fresh cases occurred in the garrison after it was ramovad to the camp of isolation at Papine. There were two cases of yollow faver among the officers, and one of these proved fatal. The disease was confined to the island of Jamaica.
The averago strength of the black troops in the West Indies was 1,186. The admissions into hospital numbered 1,166 , the deaths 18 , and the average number constantly sick was 7141 . Two cases of amall-p x occurrad in a detachment of these tropss at Nassau. It is stated in the raport that the two cases were very mild, that the disease did not exist among the civil population at tha time, and that the origin of the disease in the two instances referred to could not be traced. Four of the deaths were due to pueumonia, and three resulted from heart dissase.

In Wastern Africa the average strength of the black troops ras 422; 232 of this number serving at Sierra Laone, and 140 at Cape Coast Castle. The average strength of European officers was 25, and there ware 11 white non-commissioned officers of the West Indis Regiment. One death occnrred among the officers from apoplesr, and 10 were in-
valided to England, 5 for the effects of fevar, 2 England, 5 for the effects of remittent fever, 2 for enteric revar, 2 for dysentery, and 1 for hepatitis. The report contains a
very, unfavourable account of Freetown, the capital of Sierra ragards neglect of sanitary arrangements. The first princine, as sanitation seem to be discregarded there. It contains 23,000 prinabitznts, and almost surrounds the low conical hill on which the barracks and station hospital are huilt. The report adds that no attempt is being made to remedy its insanitsry condition. No case of Tellow faver occurred among the troops, nor is any raference made to its occurrance among the civil inhabitants of the town, where it was stated to have prevailed in a severe form during the previous year, 1884. There were 109 cases of remittent fever among the troops, but hey are described as having been generally mild, and yielding readily to treatment. One man died from remittent fever at Cape Coast Castle. Altogather thera were only 6 deaths among the troops during the year in this command.
In the Cape of Good Hope and St. Helens command there were 3,939 troops, and the nnmber of admissions into hospital during the
year year was 3,472 , while the deaths amounted to 35 . The ratios of The asion were, therefore, 881.4 , and of mortality 8.89 per 1,000 . admissions into hospital 46, and there was I death. The 140, the sickness were, therefore, 323.6 , and of mortality 7.14 rer Enteric ferer caused in the command 29 adnissions to hospital, and 9 deaths. The cases were midely distributed orer the Cape Colony; none occarred at St. Helens. At Pietermaritzburg there were 11 cases and 9 deaths; and with regard to these cases it is reported by the madical officer in charge that they were msinly due to the arrival of detachments of Argyll and Sutherland Highlanders from Etshowe. The weather was excessively hot while they were on the march, and the men drank the water from overy sluit and source on the road. Thero wera also 7 cases and 1 desth at Rorke's Drift, and the Principal SI dical Olficer remarks that this post was so noterious for outbreaks of enteric fever that the idies of abandoning it was mooted, bnt was given np on account of the political impritance of the place. The

$\$ 8.0$ and 94.4 per 1.000 in 1854 . If the cases of gonorrhom and its sequele ho inclniled, the total number of admisions for veneresl diseases was 1,233, beiug moro than a third, or 355 per cent. of the total namber of hospital almissions for all causes during the jear. Moro than half tho total number of cases of both forms of renereal disesse occurred at Cape Town, and the medical oflicer in chergo reauarks that a large proportion of the cases of primary ayphilis was followed by secondary aymptoms of extreme severity. Among the deaths from injuries were $\&$ from gunshot, all suicidal. In eash cage a rerdict of temporary insanity wias returned, no motive for the act being discoverable. There wero two cases o! enteric fevor among the officers, and ono of these terminated fatally. Atnong the improve. ments carried out daring the year, the establishment of a sanitarium in a well elersted position at Wraberg is mentioned.
The average strength of tho troops quartered in the island of Matritius was 358 , but this relatively small force led to 898 adnissions into hoepital, a satio of 25084 per 1,000 , and to 6 deaths, a ratio of 16.76 per 1,000. The averago nomber constantly sick was 29.51, showing a ratio of 82.43 per 1,000 . The Senior Medical Officer remarks that "the general heslth of the troops is considered to have been more satisfactory during 1885 than in either of the two previous rears, for though the actual number of admissions has been higher, the number constantly sick has been lower. The increase in the admission rate was mainly due to malarial fever, which was more than asnally prevalont in the earlier months of the year, both in the civil and military popalation. The improved atate of health is believed to be largely attributable to the removal of the main bods of the infantry detachment from Port Lonis, and the prompt transfer of sick from that place for treatment at Curepipe." The report states that the increaso and improrement in barrack accommodation at Curepipe hes beon pregressing during the jear, ond that in consequence a further rednction in the strength of the troops quartered in the notoriously unhealthy lino barracks at Port Lonis has been renderod practicable.
In Ceylon the average nnmber of whito troops duriog the yoar was 809. The hospital admissions numbered 950 , the deaths 8 , and the number of men constantly sick was 51.13. Theso numbers show ratios of $1174.3,9.89$, and 63.20 per 1,000 respectively. They all exhibit improvement as comparod with the corresponding ratios in 1884 ; only 1 case of enteric fever was recorded, but that proved fatal. It is remarked that this disease is common smong the civil population throughout the island, owing to the bad weter supply. Smallpoz was prevalent at Trincomaleo early in the year, and later at Colombo, hut no case occorred among the military. The offecrs, women, and children were generally healthy throughout the year. The general hen! th of the native troops, consisting of a company of Gun Lascars and the Ceylon Mounted Orderlies, is also reported to hare been good. Only one death occurred among them, the cause being phthisis pulmonalis.
Tho portions of the report which refer to the health history of 57,000 troops sorving in 1885 in Indin, and nearly 10,000 officers and men in Egypt, have not yet heen noticed. Want of space compals из to prostgone digest of these sections to some future opportanity.
royal college of physicians of london.
As ordinary meeting of the Follows was hold on Thursday, January $25 t h$, Sir William Jenner presiding. C. J. Arkle, JI.D., Lond. K. A. Jamieson, M.D., Roynl University, Ireland; S. Little, M.D., Royal University, Irelsnd; E. Malins, M.D. Elin. ; A. Martin, M. D., lond. ;S. II. Owen, M.D., Roysl University, Ircland ; T. C. Itilton, M. D. L.ond. ; and II. R Spencer, MI.D. Lond., wero admittel to tho Mernbership of tho College.

Licences were granted to 106 gentlemon who had passed the necos. sary examinatious.
The following were clacted Councillora: Dr. IIandfeld.Jone9, Dr. Pary, Dr. Charch, Dr. Pye-Smith, Dr. E. Long Fiox.
On the motion of the Treastrere, the following resolution was adopted:
"Thet, in recognition of the protection affordod to this Collego by the police during the rocont riotous procecedings in Trafalgar Square, and of the admirable discipline exhibited by that foree noder prolonged provocation, the College do voto the sum of twenty-fivo gnineas 29 a contribntion towards the funda of 'The Metropolitan Police Convalescoot llinmo,' or towards any project approved liy the Chief Commismioner of Police."
The quarterly report of tho Finzuce Committee and the annual report of the examiners wese received and arlopted.
$\Delta$ report was recairel from the Committee of Management recom.
monding that the University of Otago, Dnnedin, New Zealand, be recognised as fultilling tho requiroments of the Boerd in regard to profossional atuly for tho diplomas of the two Colleges, but that the University of Buffalo, Now York, U.S.A., from which an application for recognitiou had been reccived, be not so recognised. The Committeo also recommended to the tro Colleges the iosertion of the words "for a degreo in modicino" after tho worl "examination" in line 2, paragraph IX, Scetion II, of the Regulations of the Board, so that the para $r$ raph may read bs follows :
"1X. Any candidato who shall produce satisfactory ovidenco of having passed an examination for a degree in medicins in any of the subjects of the first and sfecond parts of this examination conducted at a university in the United Kingdom, in India, or in a British colony, will be exempt from examination in thoso subjocts in which he has passed."

Theso recommendations were adopted by the College.
A report was received from the Collegea Land Committee, consist. ing of delegates appin'ed by the two Colleges to report as to the best use to which the nnoccapied gronnd belonging to the two Colleges, iu the rear of the Examination Hall, can be applied. The Committoe reported that the position and shape of the ground do not admit of any great deriation from the original intention of erecting tro lateral blocks in continuation of the rings of the present building with a thestro in the space b.tween them; bat in view of tho fact that, owing to the height of the houses crected or in conrse of construction on either side of the building, the light in the lower rooms of the wings would be generally insufficient for the purposes of research mork, they recommend to the two Colleges the erection of tro galleries of rooms over the back part of the theatre from wing to wing at a sufficient clevntion to obtain a good south light.

Theso tro proposed additional gallerics monld provide eight rooms 20 feet long ond 15 feet broad, with excellent light, and would not bo overlooked except from tho Examinstion Hall. This plan also admits of the wings being slightly reduced in width from the original dcsign, so as to cnable the theatra to be enlarged to accommodate four huadrod persons, which, in the opinion of the Committee, would be desirable.

The plans ahich have now been submitted by the architect, embody. ing the scheme above in licated, appear ts the Committee to be perfectly adapted to the purposes of "investigation and exposition," for which they are intended.

The architect's approximste estimats for the construction of che proposed buildings is as fullors

For two wiogs of four atoreys each containing four large rooms Which may bs subdivided hereafter, a theatre to accommodate 400 persons, and two galleries containing four romns each, $£ 26,000$.

In recommending theso plans to the two Colleges, the Committee desire to add that assun ing that the subjectaof investigation, be restricted to such as relate to medicine and surgery [for example, "researches as to the nature, causes, and prevention of disease, and experimental research on the chomic, ? properties, physiological astion, aud therapeutical uses of remedies "] they are cnabled to state gencrally thatan additional expenditure mili be required for internal fittings which need not excoed $£^{5}, 000$, and that tho annuzl expenditure fur maintenance wonld not bo less than $£ 500$, and need not exceed $£ 1,000$.

This report was adopted, and Dr. Burdon Sanderson, Dr. Isader Bruston, and Dr. Ralfe, with two others to be nominated by the Prosidont, wero eppointed delegates to form, with delegates to be appointed by the Roynl Callege of Surgenns, a Cummittee to renort on the precise anture of the interasl arrangements ond fittings required.
A communication was received from tho Moron Memorisl Committeo, with regard to the proposed Moxon Medal, the consideration of which was relerred to the Council.
The Senior Censor mored the following resolution :
"That it is undesirable that any Fellow, Member, or Liceatiate of the College should contribute articles on profossional subjects to journals prolesuing to supply medical knowledge to tho general public, or should in any way advertise himself, or perait limsolf to be advertised, in anch journals."
Considerable discussion ensued, which by resolution was declarod to be part of the "Secreta Collegii." Eventually the debate was a j journed.

Rabies is asid by the official veteriuary inapector to have again broken out among the doer in Richmon I Park. No case has previously been reported since Septenber 24th. It was stitel that the deer are atill isolate.d.

# ASSOCIATION INTELLIGENCE 

## ELECTION OF MEMBERS.

Asp qualified medical practitioner, not disqualified by auy by-law of the Association, who ahall be recommended as eligible hy any throe members, may be elected a member by the Council or by any recogaised Branch Council.

Candidates aceking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council nuless his name has been inserted in the circular summoning the meating at which he aeeks election.

Franois Fowee, Genera? Secretary.

## BRINCH MEETINGS TO BE HELD.

Metropolitan Conntibs Branch: North London District,-The nest mecting of this District will be held at the Deaconesses' Iustitutiou and Traiuing Hospital at Tottenhan, N., on the evening of Thursday, February 2nd, at 8 P.ss, (Dr. Bridgwater, J.P., Vice-President of the Distriet), when Dr. Dowse will reai a paper on llassaje, nud demonstrate its practice. Several interesting casca will niso be exhivited in the hospital.-Geanae Henty, M.D., Honorary Secretary.

Metropolitay Coonties Brancte East London and South Essex Dis trict. - The next meeting will be held at the Town Hall, Walthanstow, on Thursday, Febrnary 16th, at 8.45 f.m. (sharp). The ehair will bs tahen by A. Durham, Esq.. President of the Branch. A paper on Pernic:ous Anaeraia, and the Diseases Liable to be Confounded with It , will be read by Dr. Bristowe, F. R.S. Visitors will be welcomed.-J. W. Hest, 101 Queen's Road, Dalstou, Honorary secretars.

## METROPOLITAN COUNTIES BRANCH : EAST LONDON AND SOUTH ESSEX DISTRICT.

The third meating of the session ras held, by the kind invitation of Dr. Adams, at Brooke House, Upper Clapton, on Thursday, Jayuary 19th. Preseat, Mr. Gr. Weller in the chair, and betwecr twenty and thirty members and visitors.

Domonstrations. - After the usual formal business, the SEcretatix showed, for Dr. Stephen Machenzie, some ol Dr. Uana’s Preparations for local application in certain Skia Diseases.-Mr. Silcock showed a series of patients suffering from Diseases of the Eye, including cases of interstitial keratitis, aclero-keratitis, chronic glaucoma, slbaminuric retinitis, exostosis of orbit, pulsating tumour of the orbit, pigmentary retinitis, optic neuritis, and others.-Dr. Major. Greenwoon, jun., showed iwo cases of Optic Atrophy. - Messrs. Pickard and Curry exhibited tho Electric Ophthalmoscope.
The room was most efficieutly fitted up by Dr. Adams with the electric light and other apparatas for the satisfactory examination of the patients.

Votes of Thanks.-Cordial votes of thauks were passed to Mr. Sil cock, Dr. Adams, and to the Chairmar.

## BATH AND BRISTOL BRANCH

Tex third ordinary meeting of the Branch was hold at the Grand Pamp Room Hotel, Bath, on Tharsday evening, January 19th; Dr. G. F. Bunder, President, in the chair. There were also present twenty members and one visitor.

New Member.-W. Cotton, M.D., C.M.Edin., of Clifton, was elected a member of the Association and Braneh,

Communications.-1. Mr. Alexander Waugh read a paper on a case of Puerperal Septicemia, in which he drew sttention to the analogy between erysipelas and puerperal septicamia; ho also laid especial stress ou the frequency of past-partum hæmorrhage after the administration of chloroform for instrmmental cases, a ad asked whether any other anæsthetic, such as tho $\triangle$.C.E. mixture, would be kikely to produce the aarae effect.-Dr. Goodridge, Dr. J. K. Spender, Mr. J. H. II. Lawrence, Mr. P. J. H. Scott, Mr. C. II. Collins, Dr. Burder, and Messrs. Carr, Mason, and Bartrum joined in the discussion.-2. Mr. C. Fleming read a paper on the Use of the Glycariaum Amyli of the Pharmacopocia either by itself or combined with Bieblordo of Mcrcary as a New Surgical Dressing.-3. Mr. J. H. H. Lawnence read short notes of two cases: a Bura of the Head, Face, and llands in a Woman 75 years of aga, and an obscure case of Typhoid Furer. 4. Mr. J. Hintos exhibited a case of Feebly United Fracture of the Olecranon theatel by Wire Sature. In the uasavodable absence of Mr. Hiatoa the Honorary Seoretasy read the notes of the case.

# SPECIAL CORRESPONDENCE. 

## PARIS

[FROM OUR OWN CORRESPONDENT.]
Etiology of Cuntagious Pncumonia of Pigs.-Action of Anlipyrir. Antipyrin in Labour. - Toxicity of Exhaled Air.-Arclysis of S.. Lucie Rum. - Changes in Paris Hospitals.
mp. Cornil and Chantemesie have made a serics of researches on the etiology of coatagious pneumonia in pigs, which have led thems to the following conclusious. Contsgious paenmonia in pigs is an atfection whirh has been mistaken for measles. It has appeared in France within the last few years. It is contagions, it terminates in fibricons peripneumonia, and almost invariably preves [atal. At the outset the animals are languid, and remain lying down; there is fever, co-gh, and loss of appetite. The skin on the side and stomach presents a reddish hue; blackish patches, from which the hair is easily detached, appear on the neck. There is whitish, macous, horribly officnsive diarthres, which sometimes continues throaghont the illness, and at other times is replaced by constipation. The affection laots from twents to thirty diss. It is distinguished from measles by its duration, by marked pulmonary aymptoms, and by the peculiar natare of the micro-organisnis which produce it. This affection destroyed a grest number of pigs at the pig-rearing establishment at Gentilly during more than a year. The animals were supposed to have contracted the infertion at the market of La Villette, to which animals are sent from all parts of France. MM. Cornil and Chantemesse, mado the following experiments rith fluid taken from the lurgs, liver, spleen and blood of a pig which was killed while suffering from the affection. Cultirations with the blood and spleen remained sterile. The lung and the liver gave pure cultivatious, which presented the following characterintics. The caltivation did not liquely gelatine; 3 transparent patch, clotted in parts and thin in others, appeared on the sirface. Wheu the colonies were equally distributed, they presented the appearance of delicate tracery. On gelose, a milky patch with a lace border was observed; with potato, 3 a abundant grey culvation was obtaived. These cultivations contained the same microbe in a purestate, namely, a small oval bacterium measuring $1 \mu$ to $2 \mu$ long by $03 \mu$ wide. It is motionless, aerobic and anaerobic, according to differat conditions. A young pig mas inoculated with portions of 3 pure cultivation in some broth, with a Pravaz's syringc. The next day the animal was very ill; the temperature was $40^{\circ} \mathrm{C}$. $\left(104^{\circ} \mathrm{F}\right)$. Diarrhœa subsequently appeared; the animal grew thin, its breathing was accelerated. There were crepitant and sub-crepitant riles in the lungs, at the apot where the injections were made. The skin rus covered with black patches. The animal died four reeks after the ineculation was made. At the aecrepsy the right lang wis fonnd to be attacked with generalised broncho-preumonis. There werc hepatised lubules ia the left lung; the kidneys were affected with acphritis, the urine was albominous. The large intestine was covercd with solid tumours, from the siza of a lentil to that of a small walnut. Most of the lymphatic glands were swollen. The pathogenic microbe was foud in the fluid taken from the langs, glands, intestinal tumours, liver, spleen, kidueys, and in the arine, bile, and blooa. It was also found in large quantities in the feces. Similar inoculations mere mado in rabiots, guiaea-pigs, mice, and pigeons. All these animals, with the exception of the pigeons, died within a few days. The microbe was most rbundaat in the blood of the mice, in which case it was larger, and when coloured with methyleno blne, presented a clear space in its centre. It was found iu the plasma of the blood, and in the white corpuscles. The lesions described show that infections pneamonis in pigs is rather a geaeral infection than a pulmonary disease. The rirus usually gains aness by the air-passages; this explains the pulnonary symptoms ; but the dizease may slso be contracted through the alimeetary eanal or through a wound of the skin. MM. Cornil and Chantemesse beliere that this affection is analogors to that which has heen describod in Germany by Lefiler and Schuts as the " S 'hweine-suche," and in America by Salmou and Smith, as the "swine-plague."
Dr. Lucieu Denian says that the action of antiprrin on the organism is as compicated as the organism itself. In large doses it may produce conaripition, aud it is suppesod to cure diarrbeea and arres: intestinal hæmorilhage. It is rapidly absorbed by the mucous mam. brane of the intestioes, and is eliminated by tue kidaers, s'an, and intestival glaods. Cutareous climination is sccompaied by profase perspiration in most cases, and in a fer cases (nne ont of tea) by a special kind of eruption. In large doses antinyria dilates the reins
and capillaries; its antipyretic effecta are partly due to the increased emanation of heast rosulting from rascular dilatation. Autipyrin is said to medify the action of the heart and the circulation, although Professor Robinson, of Chicagn, aflirms that this substance acts as a tonic on the heart, and slightly increases the blood pressure. This assertion masy be correct as far as mild doses are cenceraed. Autipyrin does not act directly on the respiratory function, but it has a decided iotluence on the nervons system. In large doses it produces vertigo, ususe3, or drowsiness in certaid patients; in others it causes excitement, hilsrity, and a general soase of rell-heing. These last effects are west frequently observel after moderate doses in patients whose digestive organs or special nerve centres are not over susceptible. Antipyrin, wheu giveu iu large descs at iutervals, reduces the quantity of uitrogenous excrementitions products eliminated by the breath or other emunctery ageuts. The doses vary from 60 contigrammes to $\&$ gramures in twicuty-four hours. Antipgrio is soluble in rater and alcohol. It masy be administered as a draught, in wafers, or in elixir. It may be iojected subcutaneously in an aqueous solution ; the solurion is negative if the methylated oxymetlyqquini$z$ ine is quite pure. The injection should not contain more thas 50 centigrammes, and should be administered every half hour or every hour uxtil the temperature is reduced. M. Germain Sée has shown that sotipyriv, id doses of $t$ or 6 gramues in twenty-forr hours, is a valuable renedy for rheumatic symptoms of the mascles, obstinate myalgia, lumbago, peri-articular rbeumstic mascular pain, acute or sabacare muscular torticollis. The successfal results obtained by 3L SÉe with antipyrio in cases which were onsuccessfully treated with sulphate of quinine, salicylate of soda, massage, liniments, etc., appear to show that antipyrin may be regarded as almost a specific in these casts. Sl. Séc also obtzived excellent results with antipyrin in neuralgia, sciatica, face and cranial neuralgis. Antipyrin cures migraine, from whatever causa it may arise ; it a ppears slso to act as a prophylactic against neuralgia of the scalp. Cases of acute torticollis and obstinate migraine bave been cured in less than an hour by antipytin.
In the Comples-rcndus of the Société de Biologie of December 30th, 1887, there is an account of the successful use of antipyrin to ease the pains of labour, by Dr. E. Laget, of the School of Medicine of Marseilles. Dr. Laget mas called to a young lady, who had already several times miscartied, snd who was taken with the pains of labour after about five months' pregnancy. The pains, which were rery sercre, rosisted landanized onemata administered at intervals during forts-eight hours. On the third day, the pains continuing almost without intermission, and becoming sometimes insupportable, Dr. Laget, remembering the recent communications of Dr Chouppe to the Societe de Biologie (July 16th and November 19th, 1887), preecrihed an enema containiug anthy y rid ( 2 grammes in 100 grammes of water). The pains diminishel a little, but still persisted with some violence. One bour later another similar evema was given, and a quarter of ad honr later the paius diminished most remarkably. The uterine con. tractions occurred every oight or ton ninutes, with slight but supportable paiu ; the labour continned regularly in this manner for three hours, when the futus was expelied; the placenta followod shortly afterwards. The patient had no after-pains, and her convalescence proceeded normaliy. Dr. Nicter calls attention to the fact that, although the use of antiprriu diminished the pains, not only did tho uterive contractions retain all their force, but that, the exhanstion caused by oxcessive pain having ceased, each contraction was morn elfective. The quantity of antipyrin employcd was moderate, and $1 t$ is possible that it might bo admioistered in larger dose with. out incouvenience, and with more decided effeet.
At the niserting of the Société de Biologio of Paris, on Decomber 24 th, $1557, \mathrm{MM}$. Brown. Séquarl and d'Arssonval preseated a note on some recent cxperiments nade by them to prove the toxicity of the air exhaled from the lungs of man or of mammals. They sssert, first, that the air exhaled nerrly always contains ammonia; sccondly, this air contains, in very minnto quastities, organic matter which, if not already putreficl on leaving the broneho.pulmonary passages, has a great tendency to rapid aluration, cven at a low tempersture ; thirdly, confined air clarged with pulnonary exhalations is oxtremely. poxina, even when containing only 1 per cent. of carbonic arid, with a correyponding diminntion of oxygen, whereas atmospheric air containing the samo proportion of CO", and a corresponding diminution of oxygen, but containing no pulmonary exhalations, causes hardly uny disturbance. It seems probable, thercfore, that exhaled sir must coutain one or several toxic sub. stances, the toxicity of which, however, has not yet been proved. To test this ghestion the suthors iojected into the circulation of rablits a suall guantity of a liquid resulting from the condensa.
tion in refrigerated glass bulbs of air exhaled from the lungs of several human beings, and also from the longs of a dog (taken from the trachea). The results were the following : First, more or less marked dilatation of the pupil; sccoudly, alower respiration thirdly, rapid decrease of tempurature, varyiog from $1^{\circ}$ to $5^{\circ} \mathrm{C}$. lourthly, paralytic weakness, olten extreme, of the posterior mem. bers. Duriug the first hours after the operation the heart is uniformly affected; in general its frequency is little modified, being sometimes nugmented, sometilues diminished. But generally on the following and succeeding three or four days the cardisc pulsations often attain 240, 280 , and 320 per minute, without a corresponding elcration of temperature or fobrile symptoms. This strange phenomenon may sometimes persist for two or three weeks, As for the respiration, slower during the first few honrs, it becomes afterwards rather more frequent than in the normal condition, and remsins so for some days or even weeks. It is evideut that the water which serves es rehicle to the injections has nothing to do with the above phenomena, for M. Cb. Bouchard has proved that rater injected into the circulation becomes toxic ouly when the quantity injected exceeds 90 cubic centineteres per kilogramne of the animal's wight, whereas in the experinients of M1M. Brown-Séquard and d'Arssonval only a fraction of this quantity was emplosed (from 4 to 7 cubic centimètres). On injecting double that quantity of liquid produced by condensation of exhaled air of a dog into the carotid of a strong, healthy rabbit, there was violent tetanas, with almost complete arrest of the cardiac mevements and of respiration, and the animal died within a minnte. It is evident that this noxious action of the exhaled air must be due to certain toxic organic substances, present in very minute quantities, not yet isolated, and the chemical composition of which is yet unkDown. The authors add that Dr. Arthur Ransome, Tho has best studied them (Journal of Physiology, 1870, rol. iv, p. 211), estimates the proportion in which they exist in the air exhaled from the lungs of a man in twenty-four hours at not more thas about 2 decigrammes. It is not known whether these toxic substances are alkaloids, like the ptomaines, but it is evident that, considering the very minute quantities in which their action becomes appreciable, this action must be very energetic. M13I. BrownSéquard and d'Arssonval propose to continue their researches on this subject.
M. Oeschner de Coninck presented to the Société de Biologie at tho meeting of the 2 thl of December last the following aualytical results of his cxamination of 13 litres of gennine Sainte Lacie (West Indies) rum six months old : Alcohol, 54 per cent.; glucose, 1.0 S gr. per litre ; cane sugar, 0.40 gr. per litro; dry extract (at $100^{\circ} \mathrm{C}$.), 6 grs. per litro; dry extract (in racuo), 6.90 grs. per litre; ashes, 0.205 grs. por litre. This rum encrgetically reduced ammoniacal nitrato of silver. A solution of permanganate of potash was immediately reduced when cold wher heated, there wes an abundant brown precipitate. The residue after distillation of the rum with water ( $\mathrm{rmm}=100 \mathrm{c}$ c.c.; water $=300 \mathrm{c}$.c.) immediately discoloured the permanganate when cold; it was also rapidly reduced when hot. In order to study the saperior alcohols, 12 litres of the rum were examined separately by meess of HonuingerLebel's apparatus, heatod by means of a bain-marie. The alcohol dis. tilled was examined apart; it all passed over between $78^{\circ}$ and $\mathrm{S} 1^{\circ} \mathrm{C}$. The watery residue wes distilled on an open fire. The liquid, which was at first clear, soon became cloudy towards $100^{\circ}$. This cloudiness was due to a liquid of neutral composition, slightly solable in mater, lighter thad the latter, having a peculiar smell similar to that of butylic alcohol. This composition gave the principal reactions of alcohols. There was not enough to permit of elementary nnalysis, but the presense of isobutylic alcohol seems probable. It appeara, therefore, that perfectly genuine rum of agreesble flaronr, sweet and mild, with an agreesble bouquet, may still coutain a cortain quantity of superior alcohols.
Owing, to Dr. Cruveilhier having resigned his post of physician at the Beaujon Hospital, the following changes have taken pllace at tho Paris hospitals. Dr. Richelot is transferred from the Bureau Central to the Bicetre $\Lambda$ sylum; Dr. Reclus from the Bicotre Asyluin to the Hopital Tenon ; Dr. Peyrot from the Hôpital Tenon to tho Hôpital Saint Antoine ; Dr. Marchand from the Hopital Ssint Aztcine to the Lariboisiere ; and M. Benjamin from the Lariboisiere to the Hopital Beanjon.

Epidemics amoso Savage Races.-An materesting example ot the peculiar severity of zymotic diveases when they sttack savage races is given hy Dr. Guppy (The Solomon 1slands and their Natircs), who sta tes that theere is no reason to doubt that mumps is sometimes a fatal diseass among the races inhabiting theso ivlanls. We have been unable to find any record of a fatal casio of snumps among civilised races.

## YIENNA.

[frowi ofr own correshosdent.]
A Series of Thirty-cight Hystcrectomies. - IIydro-theropeutical Treatment of Spasm of the Glottis.-Pathology and Treatment of Contraction of the Knee-joint.-Hygienic Aspects of the Elcetric Light. In a recent number of the Wiener Mcdizinische Wochenschrift, Professor Charles Breun gives an account of thirty-eight cases of bysterectomy for fibroid, performed in the General Hospital, with only six deaths, that is to ssy, $\&$ mortality percentage of 15.5 . The results which he had thus obtained were 2 per cent. behind those of Hegar, Kaltenbach, Bantock, and Keith, and about 16 per cent. better than the results obtained by the Berlin grnæcologists. Professor Charles Braun is strongly in favour of the extra-peritoneal treatmeat of the stump, as both the cases in which it was treated intra-peritoneally ended fatally. According to him, the following are the indications for hysteromsomotomy: 1. Attacks of pain during menstruation or in the intervals between the periods, which recur frequently and render the patient unfit for work of any kind. 2. Fuactional d:sturbances from pressure on the neighbouring organs (bladder, rectum, kidneys, stomach, or lungs) involving risk to lite. 3. Severe metrorrhagia, in which a cure cannot be obtained by any less radical procedure. Instead of the aseptic sponges he in most of his cases uses mall gauze which has heen for twenty-four hours before the operation boiled in a 1 per cent. solation of sublimate, snd which is afterwards washed in clear water. Immediately before and during the operation the gauze is mrung out of a hot solution of thymol ( 1 in 1,000 ), and ased for stopping the bleeding from the peritoneal surfaces after ligatnre of the hlood vessels. A solution of sublimate or carbolic acid is never bronght into contact with the peritonenm. After the tumour has been brought forward the abdominal wound is temporarily closed by means of hooked forceps. The peritoneum of the abdominal wound is sutured above and below the stump, and the latter is fixed to the peritoneum of the abdominal wound by means of a mattress sutura. Both the oviducts and the ovaries are separately ligatured with silk threads. Only after the closnre of the abdominal wound by means of silk button sutures the tumour is remaved, the stamp being tonched with the actual cautery and covered with benzoate of sodium. The extra-peritoneal treatment of the stump in cases of hysteromfomotomy is specially advanta geous when the myomata are situated in the wall of the body and the fundus of the uterus, but less so in those myomata which are situated between the walls of the cervix, the lips of the os, and the brosd ligaments.

Dr. Adolphus Schrotter, of Vienna, in a recent number of the Internationale Kizinische Rundschau, reports the case of a girl, aged 3 years, who suffered from severe attacks of spasm of the glottis, whom he had treated by wrapping the little patient in cold linen for half an hour or an hour, and then by rubbing with linen which had been dipped in water of a temperature of ten degrees. In this way he succeeded in cutting short twenty attacks of glottic spasm.

Docens Dr. Dollinger recently made a communication to the Royal Society of Buda-Pesth, on the pathology and treatment of contraction of the knee-joint. His communication was based ou ninety-seren cases, which were all under his observation, and, for the most part, also ninder his omu care, since 18s1. Seventy per cent. were due to tuberculous inflammation of the joints. As an occasional canse, he noticed measles in two cases ; both the children were of a tuherculous stock, and Dr. Dollinger was of opinion that the neasles played, in the outbreak of the inflammation of the knee-joints, the same part as many other pathological processes which weakeued the organism. As the longitudinal growth of the lower extremity depended chicfly on the epiphysial cartilages near the kneojoint, an inflammation occurring in the neighbourhood of these cartilages and destroying then1 must necessarily affect the growth of the limb. No statistics were available from which trastworthy inferences could be drawn as to the degree to which the growth of the extremity was impaired in the various intervals of time which elapsed from the date of onset of the inflammation. Dr. Dollinger, for this reason, made exact measurements of twenty-eight limbs, in which the inflammatory process had beguu from one to twenty-three years hefore. He drew from them the following conclusions: 1. Thie devolopment of the diseased extremity during the whole course of the acute inflammation quite agreed with that of the healthy one, nay, it even surpassed the latter by from 1 to $1 \frac{1}{4}$ centimètres. The shortening did not begiu until the acute inflammation had disappeared, and a smaller quantity of nutritivo material was conveyed to the epiphysial cartilages, owing to the cicatricial shrinking. 2. The shorteniug of the extremity «as not in direct ratio to the number of years which had elapsed since the
beginning of the inflammation. It seemed that the degreo of destruction cansed by the inflammatory process in the epipby'sial cartilages, or in the parts near them, had also to be taken into account. 3. The difference of length which became estabished between the lower extremities never became less; further measurements made several gears later showed that, though both the extremities had in the meanwhile grown very much, the difference between them remained the same, or had increased up to the time when grouth was complete. Dr. Dollinger'ө measurements also showed tbat, except in rare cases (2 out of 28), after each attack of inflammation of the joint which had completed its course during infancs, the development of the sffected extremity was considerably retarded. The amount of shortening varied from 8 or 10 to as much as $19 \frac{1}{2}$ centimètres. This showed that there was a good deal of shortening, even in cases in which the knee-joint was not resected, a fact which proved thst the most important objectiou which hal been brought against this operation was groundless. In speaking of trestment, Dr. Dollinger said that massage wss of no use in tuberculous inflammation of the knee-joints; he used it, howerer, with good effect in contraction of the knee-joints dependent on articular neuroses, gonorrhcea, or slight rheumatissm. In cases of taberculous origin he did not stretch the limb by brisement force, but at first stretched it only to a certain degree, and then fixed it in this flexed position with a plaster-of-Paris bandage. Owing to the tension, byperæmia supervened in the adhesions, which thus became loosened, so that the complete atretching of the extremity conld be easily performed after a week. Dr. Dollinger insists that the patients should begin to walk with the bandage on as early as possible. Some weeks after the complete stretching, he had a plaster cast made of the extremits, and a felt knee cap made after the model of the cast. The support mas connected with the shoes by two rods joined at the ankles. The patients wore this support for a long time, with the view of preventing secondary curvatures.
In the annual report for 1587 the "Stadtphysicus" of Prague, Dr. Zahor, urges the introduction of electric lighting into the public reading rooms. Ho states that Dr. Fr. Renk, assistant to Professor Pettenkofer, has had the opportunity of making a series of experiments on the atility of the electric light from the sanitary standpoint, in the "Nationaltheater" of Manich, which is supplied with 1,700 Edison's lights. He has thus been able to prove that the electric light had hardly any influence on the deterioration of the air, whereas the gaslight raised the temperature of the room, deprived the air of its oxygen, and rendered it injurious by increasing the carbonic acid, especially in the higher regions. It could also be easily imagined that the elevation of temperature produced by the gaslight, the increase of the carbonic acid, snd the diminution of the oxygen in the air reached a much higher degree in confined working rooms than in a spacious, well-ventilated theatre. Considering that when the electric light was used such an increase of the local temperstare conld never take place as when gaslight was employed, and that in the latter case headaches referred to those parts of the bead which were directly exposed to the influence of the rays of light, neuralgias, and local hyperemias sapervened; furthermore, that no carbonic acid was developed, and that no oxygen was consumed by the electric light; and lastly, that, althoogh the electric lioht was very powerful, its intensity cone be diminished by shades-it bccame evident that the more gencral adoption of the electric light wonld be very adrantageous from the hygienic point of view.

## GLASGOW.

[From ode own correspondent.]
Glasgow Sick Children's Hospital.-Glasgovo Conralescent Home, Lenzie. -Glasgow Eyc Infirmary.-Glasgow Asylum for the Blind. - Heallo of Glasgove in 1SS7. - Epidemic of Mcasles at Shotis. - Gilasgonc Medical Societies.-Glasgow and West of Seotland Branch of the British Medical Association.
Tre annual meeting of the Glasgor Sick Children's Hospital was held at Clissgow, on the 20th instant, under the Fresidency of the Lord lrosost of the city. The report stated that it had been found necessary to provide increased accommodation, and for that purpose an adjoining building hal been pur-
chased, alter chased, altered to suit the purposes of the hospital, at a cost o? E17,00. This expense had heen borne by the Chairman, Mr. Carile, Ward. The Chairman had also agreed to hive $£ 200$ per annum file threo sears, for maintenance. The nomber $£ 200$ per annum for threo sears, for maintenance. The namber of heds now arailable in
the institution was ; $0-32$ for medical and 38 for surgical cases. During last year 470 putients had been admitted, comparod with $4: 58$ during the provions jear. The proportion of surgical cases was 634 per cent. No fewer than 205 opcrations have been performed, as compared with 131 the previous yoar. The average daily number noder treatment was 5.7 ; the average duration of reilence mas 44.5. The percentage of deaths was 7 , as compared with 76 the pravious year. Deductiog those cases in which death took place beforo tho paticat had bsen 24 hours in hespital, the rate way 64 per cent. The ordinary expenditure was $£ 2,320$ 17s., being $£ 210$ in cxcess of income. A dispensary is at present being built in conaection rith the institution, at a cost of £2, 867 .

The twentr-third aonmal meating of the subscribers to the Glacgow Convalescent Jeme, Jenzie, was held at Glasgow on the 17 th inst. The report stated that 1,441 patienta had bern admitted to the Homo duriog the year, as compared with 1,515 in 18S6. The arerame stay had b en 18 daya. The ordioary expenditure had been $£ 1,70293$. N1., which was equal to a cost of $£ 149$. 5 thd. per Matieat, or 1 s . 411 . per day, as againgt 1s. 3 3. in 1886 , and 6 . 4 . 4 d . in $18 \S 5$. The annual subscriptions amonnted to $£ 902$ and tha subscriptions from employts in works, ctc., to $£ 300$, as against $£ 254$ the previous year.

The number of new casfs admitted to the Cllacgow Eye Iufirmary in 1887 was 9,774 , which, with 4,956 no the books at the close of the provious ycar, made a total of 14,730 , as comparer with 13.701 in 1886. At the date of December 31st last, of the total treat d daring the jear, 5,506 remained on the bonka of the infirmarr. The financial repo.: bowed an ordinary incomn of $£ 2.53217 \mathrm{~s} .11 \frac{1}{2}$., and an ordinaty cependiture of $£ 2,8048 \mathrm{~s} .111 \mathrm{~d}$.

At the anoual general meeting of the Clasgom Asylum for the Blind, beld on the 15th inst, tho report for 1887 Fas submitted Here it appears that 161 blind persons had raceived tbe benefits of the institution last ycar. Emplorment harl been providot for 129, Tho had earned as rages $£ 2,560$ 12,. 31. They also received special allomances to the total mmonnt of $£ 1087$. The sales for the past year amounted to $£ 15,303$, less by $£ 767$ than the previous year. This was due to the work being hindered by a recent fire. In the school there were 31 childurea.
Dr. Rassell reports that in 188712.128 deaths were registered Fithin the city, as compared with 13,009 in 1886, a decrease of 971 . This represents a death-rate of 23 , instead of 25 , per 1,000 liriog. Comparing simply the a solnte number of deaths, it was necessary to Eo hack to 1802 to find a lower figure than that of last year If the proportion of deatbs to popalation wero taken, Dr. Russell fond that since the commencenent of public registration in 1855, the death-rate in G'azenw had never heen so low. Un to last year the lowe-t was that of 1879, when it was 216. The years 1887 and 1879 ogreed in both being free from any grare preralence of infections diseese, and specially in the absence of any screro epidamic of the infectious disenses of children, which nomadays was the chicf cance in the casillations of urban death.rates. Meteorolonically the two years were very unlike; in 1879 a severe winter leading to a cold year, and in 1887 a moderate winter extend. ing far into spring, followed by a summer of almost unprecedented warmth and drought.

Mcasles is prevalcat in the district of Shotts, ahont sixtecn miles from Glagrow. Io one of tho fchooln, cut of 300 children, 200 hare been attacked, and the scheol has heen closed. A number of adults ase also affected. The diseaee is said to he of a mill trpe.

At the last meetiag of the Clasgow Obstetrical and Grnecological Sccicty, Dr. Garpett Wilann abowed an anencephalic foetus, and Dr. L. Olipbant introdaced a discassion on pessaries.

The Glasgow aud West of Scorland liranch of the liritiyl, Medical Association held ito ananal toreting in the Sick Children's Ilospital on Janary 12th, nailer the presiderey of Dr. Joneph Coita. There was 2 large att.cndance. I)r. Finlargon showed cases of paralysis, if considerable interest; and Dr. Cameron showed some chilifren with deformities producad by canccraus snres, on ode of whom Fiooa-ch's operation for ankylasis of the jav hail the en preformert. Mr. Mac.mear showed a child from whose brain a small tumonr had heen reninvel for epilepiy with an entirely sati,factory result. Ile also showed a case in which considerable interest was manifested by the members. It was that of a boy with urethral strictora, the rrsalt of an iujury. Dilata. tion not being permanently sn reessful, Mr. Nanew an decided to oprrat'. He cut down on the sitc of strictare, and entirely removed that portion
 of catgut. The ratist ras quite sercessfol, the position of the opera. tion being detectel is a fine thresul cnls when a large siacl cathecter mas passed.

## CORRESPONDENCE.

## THE HENDON COW DISEASE.

Str, -Kiodly allow me to remove a wrony impression that must hare been produced in the minds of some of those present at the last meeting of the T'athologic al suciety by same expressions used by Dr. Crookshank.

Dr. Crookshank cxpressed great indignation at my having exlibited at that roceting, "witbout his permission," "his" calf, thit is, the calf which be hal exhibited at the extrardinary meetiog on Ducember 15th as being affected with alleged cow-pox. When I exhibited this same calf on January 17 hh it shawed the same compor, due to vascioation from a calf at the Animal Vaccine Station, Lamb's Conduit Street, on January 12th. Now, the fact of the mat. ter is that this calf was not Dr. Crookshauk's property. It belonged to Erofessor Brown, and hal been sent, with other similar calves, by Professor Brown to the Auimal Vaccine Scation in order to be tested for their sasceptibility to cow-pox. Professor Browa had said to Mr Shirley Murphy and to myself that, short of killing, we might do with the calves as we pleased -I am , etc.,
E. Klein.

19, Errl's Court Square, S. W
P.S - I ought to mention that the above cxperiment of vaccination of the calf exhibited at the Pathological Sozicty was performed by Dr. Cory, in the presence of Professor Brown and Dr. Crookshank; and tbat Dr. Crookshauk hal with ins iuspected the calf on three subsequent occasions.

## INTRRACAPSULAR INJECTION IN THE EXTRACTION OF Cataract.

Sir,-In Dr. Mcheorn's rocent letter on the above suhject (Journal fir Jiouary 21st) elicited by your Aonmal Ieport on Ophthalmology (Journal for December 31st) he again desires to compare results obtained by his method with results obtainou by other methods, to the advantage of the former, and refers to a letrer of his publisbed in the Journal of September 3rd last, in which he also drew this favourable comparison, and complains that your reviewer has taken no notice of that letter. Bat, althongh your reviewer tosk no notice of it, I felt bound to do so in \& letter addressed to you, which appeared in the dournal for September 17th last (see also Journal for October 1st):
I thers pointed ont that, amongst the results of other sargeons quoted by Dr. Mckeown in his letter asinferior to the results obtained hy him with his method were those at the National Eye and Ear Infirmary of eleven and twelre years ago; and, as surgeon to the institution named, I protested against these statisticz being employed for such a purpose. As Dr. Mckeown now again refers to the saine sta. tistics with tho 8 ame object, I mnst again protest against his doing so. Docs Dr. Mcheown mean to ssy that his method of intracapsular injection is the only improvement, if it be one, which bas been made in the oprostiou for cataract sioce the years 1875 and 1876 ; and that, if my colleague and I would operate now as we did then, with the addition of his intra capsular injection, our anccessful resalts would be increased by 8 per cent. ? Or, does he supposo that we ahide by all the operative detrits of 1876, or would now bo satisfied with the resnlts then obtained? But if Dr. Mickeorn does go so far back for statistics with, which to compare his own, why not then to a still more remote period? Very probably the results of operators, say, half a century ago, might show op the intra-capsular injoction in a better light than those which he has selected.
I can ouly repeat what 1 said in my letter of September 17 th , that it is with the methods aud results of to day that Dr. Mckeowa should cotnparo his method and restalts, nud not with those of 1876 and 1876. It may bo replied that no statistics of cataract operations ot the National Eye and Eir latirmary have been published aince then. That is so. But other ourgeons and other institutions have pubished their recent cataract resulto, an I I subait it is with the best of these that Dr. Mckeown shomld compare his results, if hee degites to place his method of intracappunlar injection on a sure foob. ing. A Gcrman frient of mine, who does not use this mothod, reeently stated that in the 200 exrractions ho hatl per.urmed by the peripheral linear operation in the previous year, he obtained a good result in cuery eyo, and there are many other oplerators, at home and abrond, whoculd produce statiatics almost, or quite, as goolIIow do Dr. Mckeown's rebults comprare with t'ese?
Dr. Mckeown's methorl may bo a gond one, but, I ventoro to think, he bas nat as yet shomn it to bo so. Ilis c.mmunication at the lass

opposite effect, becanse his percentage of losses were greater than we expect in theso days, and because (I epesk from memory) those losses were due to events which are now rarely met with-for example, loss of vitroons, suppuratiou, irido.cyclitis.
Your editorial remarks at the foot of Dr. McKeown's late letter aro substantially correct in respect of the objects with which Drs. Panas and de Wecker, to whoso practice Dr. McKeown, reiers, employ intraocular iojection. Dr. Panas uses it "de ponsser l'antisepsis jusque dans les profondeurs de li'eeil." Dr. de Wecker's object is different. He uses injections into the anterior chamber "de provoquer, par la contraction de l'iris et son étalement régrlier, une coaptation suesi exacte que possiblo de la plaie." If some cortical masses happen to comeaway with the iojected fluid, well aad good, but neither of these surgeons seen to wash the anterior chamber free of cortex after Dr. Mchicorvn's method. Dr. de Wecker indeed distinctly states he does not irrigate the anterior chamber in this way, and disapproves of it. He sometimes iojects a few drops of fluid into the anterior chamber in order the mere resdily to get rid of the cortical masses by a proceeding which Dr. McKeorna condemns, namely, "avec la paupière inféricure appliquée sar la cornée.". Indeed, neither in the object with which these two surgeens use intra-ocular injection, nor in the way in which they use it, does there seem to be much in common with Dr. McKeown's method.
I feel quite sure that Dr. Mckeown wishes to introduce into ophthalmic surgery something of the ralue of which he is himself convinced. And $\bar{I}$ am slso quite sure that any unfsvourable criticism with which his proposal has met has been given Irom the point of view of men who, like himself, are aiming, so far as ia them lies, at a high standard of excellence in thair prolession. 1 believe, moreover, that Dr. McKeown will readily allow that snyone who proposes a new method, especially a new operative method, in our highly cultivated speciality, must be prepared to submit his proposal to the cleansing fire of fair and reasonable criticism. -I am, etc.,
H. R. Swanzy.

23, Merrion Square, Dublin, January 24 th, 1888.
hoyal medical beneyolent college, epsomi.
Sir, - The Right Hon, the Lord Mayor of London has promised to take tho chair at the biennial festival of the Royal Medicsl Benevolent College on April 17th, at the Hôtel Métropole, in Northnmberland Arenue. The Council of the Associstion will meet on April 18th. May I hopo that as many as feel interested in the work carried on at Epsom College will farour ns with their sapport, by allowing their names to appear as stewards. If those who do not as yet know how good the work is, either as regards the aged and distressed, or as regards the feundation scholars who are boarded, educated, and clothel, withont any charge, will come to the dinner, they will learn how deserving of success the efforts of the Council are, snd how urgently the institution is in need of funds.
1 am particularly anxious thast the members of the profession should $b_{3}$ present in good numbers to show how they appreciate the kindness of the Lord Mayor, and of the sherifls who will support him, in recognising the just claim of tho professiou on the public.
Gentlemen who are willing to act as atewards, or who desire tickets for the dinuer, will kindly communicato with the Secretary, at the office, 37, Soho Square.-I am, ctc.,
C. Hoiman, M.D.,

Treasurer of Epsom Colitege.
RECIPROCITY OF PRACTICE.
Str, - The case of Mr. White (whose name must be familigr to all Eaglish visitors to Montreux) is an illustration of a wilespread and increasing inconvenienco and iojustice.
Many Continental health-resorts owe their very existence to the Eaglish and Americau visitors who go thero on the advice of their physicisns at home, yet if those who bave "helped make the place" venture to advise professionally their patients in their temporary bome, they are subject to tronblesome and sometimes very unfair restrictions.

I venture to think the time has arrired men there should be perfect reciprocity of practice for all duly qualilied practitioners, whilst the law might be made more striogent as regards those who practise backed by no other qualification than their own audacity and presumption. -I am, etc.,

Francis h. Parsons.
The Hurst, West Worthing, Jaunary 14th.
A Lecture on "The History and present pesition of the Germ Theory of Disease" will be delivered by Professor E. M. Crookshank, M. B., at the Parkes Museum, on Thursday, February 2ad, at 5 o'clock.

DEGREES FOR MEDICAL STUDENTS : THE CLAIMS OF SCOTCH LICENTIATES.
Srr, - I beg to endorse fally the remarks of Mr. McFadyen, in the Jovrnal of January 21 st, and to venture to press apon ihe Scotch Corporations the desirability of at once applying to the Privy Conncil for power to confer the degree of M1.D. upon the gentlemen who hare obtained, snd are to obtain, the double qualification of those Colleges. They undonbtedly possess eqnal rights with their English neightours on the Embankment, snd shonld not delay a moment longer in seeking those privileges. They will then be able to steal a march on the oniversities; for, sfter their students have passed a qualifying examination for registration, as such, they will be able to proceed with their medical studies free from the cares of further examination in general edncation ; snd, at the end, after pasing the nenal examination required by the two Colleges, to assnme the title of Doctor of Medicinc. In the universities I find, on looking them np, that three of them actually require a man to go to the tronble of possassing a degree in Arts before he attempts to graduate ss a simple M.B. London exacts a scientific examination, which entails a year of study before the studeat enters on his study of medicine, and after having obtained his certificate in general education. The Rogal University of Ireland insists upon a preliminary examination; that passed, a year in Arts mnst be taken before he is allowed into the first University examination in Arts, and this tskes place at the expiration of one year after passing the entrance examination known as Jatriculation examination. Victoria requires a scientific examination after the preliminary, and, let ns tako Aberdeen, and see what it requires. I see by the Calendar that this university insists, first, on a knomledge of the subjects required by Edinburgh and Glasgow, and, before conmencing medical studies, in at least two of the following snbjects-Greek or modera langasges, higher mathematics, etc.; sod alter all this, and four yeers of medical study, the stadent, if successful, finds himself only in possession of M.B. and C.M. He has then to wait two years in general or hospital practice, to write a thesis, and also to be examined sgain in one subject, such as Greek, modern languagrs, or moral philosophy; and, worse than all, I believe he has to pay $£ 15$ into the bargain in order to obtain the degree of M. D.
The new English method will have every advantsge to recommend it.

1. A minimum of general education only is required.
2. $\Delta$ short course of only three, or perhaps at the most four, years of stndy only necessary.
3. The unnecessary worry and work connected with getting up the cxtra subjects in general education for the noiversities.
4. The fact of being able to add MI.D. to one's name after the ordiuary pass examination of the Colleges.
For these reasons, I strongly recommend the Edinbargh and Dnblin Corporstions to lose no time in asking for powers to enabla then to raise the standard of the profession ; and by so doing, to increase the valus of their diplomess in the eyes of the public and the profession. - 1 8 gm , etc.,
W. Wilie.

Skipton, Janasry 21st, 1888.
Sir, -Mr. McFadyen is not the only Edinhurgh licentiste who has marvelled at the abseace of action, or at least the absence of declared action, on the part of the Colleges. Would it not be possible to affiliate the Edinburgh Colleges with St. Andrews, jast as Durban lately affiliated Nemeastle? This would give the Edinburgh studeut an opportunity of obtaining the M.D. degree of one of the oldest universities in the country, and it wonld at oneswoop raise the university to a real place among the medical institutions of Great Britain.
The one-pertal system is, however, the real care for the disease; and I think it was Professor Syme who sketched a plau something like the fllowing: Oae board of examiners for the whole of the United Kingdom, sitting alternately in London, Edinburgh, and Dublin ; the pass certificate to entitle the holder to practise medicine and surgery in any part of Her Majesty's domioious. Those who wished to practise pure medicine would take, in addition, the Fellowship of one of the Colleges of Physicians ; these who wished to practise puro surgery, the Fellowship of one of the Colleges of Surgeons. All Fellowships to be obtained by examination only, and the licences and memberships to be abolished. The M.D. to remain as the blue ribhon of the profession. To place this within the reach of everyoue, I would suggest that all universities should rescind their conditions as to residence, and that the Lendon University shoald abolish its foolish restriction about attendance on classes between the passing of one examination and the appesrance for suother.
No doubt there would be many objections to this scheme, and many difficulties in the way; but then a scheme which has neither difficul-
tics nor ohjections is not worth oonsidering at all, and no one will deny that it would set the yuestions abont jualifications aud dogrecs at rest at onco and for over. -1 am, otc.,
January 21st, 1858.

## An Eminburgil Mas.

## DFGREES FOR ENGLISII STUDENTS

Sire, - May I bo allowod to draw your attention to a atatement in a leader in the Journal of January isth which may bo liable to aomo misconstraction-a statement to the effect that tho Univeraity of Darhang gives its degroes "after a rery moderate amonnt of ovidence of proliminary odncation." As a matter of fact, four subjects at least are required in additiou to and independently of those 'passed for registration as a studont, and failure in any one of these entails rejeetion in all. Tho examination mnst be taken not earlier than six months aftor registration, and its standards, both as regards the extent of the sobjects and the poroentage of marks required, is much higher than that of the examination for registration, from which it ia quite distinct. 1 lam , otc.,
W. P. Menrs.

University of Durham College of Medicine,
Newcastle-on-Tyne, January 24th.
Sir, - I should be glad if you woald kindly allow me to make a few remarks on that passege in a leading article in the Journal of the 14th inst. ou which a correspandent from Aberdeen comments; I refer to the one which speaks of the preliminary edncation required by the Universitios of Durham and Aberdeen. 1. Durham University does not admit caudidates to the final examinations for degrees in medicive, uuless they have passed certain examinations for degrees or otherwise in arts of a somewhat sevcrer type than the ordinary proliminsry examination required by the Geaeral Medical Council, without passing what is known at Darham as the "extra arts." Now the Senate at Durham alloped till lately candidates to pass an equivalent examination at any of the recognised Universities if they preterred it to the one held at Durlann. Now Sir, it was fonnd that the majority of candidates preferred to pass this "extra arts" examination north of the Treoul. In a matter of examinatiors students would appear some what reculiar, sinco clearly if what Dr. Strathers says is correct, they profer to pass a harder examination in a subject like general education, which would make no differenco to their medical career, instead of an examination which is ssid to ho so much easier. The nast point ; would you allow mo to thank Dr. Struthers for the high compliment be has so uniotectionally paid Durham when he points out that it is so different from Aberdeen, a point one has no wish to dispute, I can honestly say, as I am aure all alumni of Durham conld also, that I would not exchange my Alma Mater for that of Aberdeen even wore that privilege granted, in spite of what so unbiased an authority as Dr. Struthers of Aberdeen may say as to tho merits of that University. -1 am, yours, etc.,

January 24 th, 1888.

## VFGETARIAN DINNERS FOR SCIIOOL CHILDREN,

Sir,-The interesting article in your issue of the 7 th inst., under tho above heading, suggests anl impnrtant and interesting inquiry as to the efficiency of the regetarian dinaers iu comparison with "tho mixed diets supplied, at cqually low rates, to tho school children in Hirmingham," adding, "it does not appear that vegetarian dimuers are moro ccoaomical as to pritue cost." I sm glad to be sble to throw a little light on thia anbject by extracting teoo sentences from a pamphlet entitled, "Cheap Dinners for School Childrun," containiog reports of two conferences hold in Manchester. At one of these cenferences MIr. G. II. Sargant, the able exponent of the scheme of Farthing Dinnera originated by him in Birmiogham, was asked by the Rar. Joseph Harke, as to the nature of the dinners supplied, in the wards, "wore they thorouphly vegetarian and freo from all smspicions of animal taint ?" To this, Mr. Sargant replied, "Tho food we give is not nominally vegelarian food, but aomothiog very much liko it. 1 nut a little animal food in the sonp, because 1 am not a vegetarian myeelf; and lanz afraid our Birningham frieuds wonld not appreciato it if we tried to do without flesh meat. Sometimes a little dripping goen into the sonn. It is not much, being, I should think, abont half a pround to a hnodrod children." Much further information of a valaablo character was given at theso conferences, a rocord of all-or uoarly all-the varions efforts matule to provile school children with cheap uneals-whethor on the "uixol diot or vogetarian systemheige contained in the paper by Mr. William A. Axou, Fill.S.L. It will give me pleasure to send to sny of your readors who may he interested in the subject a copy of the reprort referred to, on receipt
of name and address. I might add that in Mr. Sargnat's interesting parphlalet, "Farthing Dinner,", are two recines for sonps, each for eleven gallous. The only animal food which entors into thase recipes is "Dripping, 6 oz." and that in one recipo alobo. In a former dition of the work containigg six recines (five for eleven gallons each, and one for trelve gallons), the animal food ingrediouts were:-

$$
\begin{aligned}
& \text { A-None. } \\
& \text { B-Drippiog, } 6 \text { oz. to } \\
& \text { C-Drippiug, } 11 \mathrm{~b} \text {. } \\
& \text { D-Meat scray, } \\
& \text { E-Driping, } 2 \mathrm{lbs} \text {. } \\
& \text { F-Deat acraps, } 2 \text { lbs. }
\end{aligned}
$$

That the recipes contain so small a proportion of animal food is the result of a significant experience which Mr. Sargant records. Ho says:-"The astouishiog fact is, that the very poor, or at any rate their children, cannot and will not eat meat ; and that the longer they have been on the vergo of starvation, the less meat they call cat." These circumstances bring us face to face with the inevitable conclusion that in order to meet fairly the essential of cheapness in producing meals for poor sehool children, the meals mast be prantically of a vegetarian character, and that the flesh food used in such cases is in reality little more than a flavonriag ingredient.-I am, ctc.

Joseph Kinght, Secretary of the Vegetarian Socioty.
75. Princess Street, Manchester, January 12th, 1888.

ST. JOHN'S HOSFITAL FOR DISEASES OF THE SIIN.
Sir, -As I was not permitted to make my remarks at the apecial meating of the Governors of St. Johu's Hospital held at the Hotel Métropole on January 18th, I will ask you to give mo space in your Jounal, so that I may place before your readers a short summary of my action in this matter.
During the time I have been connecteil with this hospital, I have brought before the authorities soveral avidences of what I considered bad hospital management. Hefore 1 had been on the staff many weeks 1 ohjocted to the manuer in which the patients were admitted ioto my room, that in, those whe contributed most towards the hospital were allowed priority of entranco. The board of management recognised this as unfair, and my patieats have since hoen arranged in tho order of their arrival.

1 again oljected to the sums of monoy whioh ware collocted from the out-patients, as much as five shillings being reccived for a week's treatment. This oljection the board of management again accepted. I will here state it is my helief that the maxinnm sum now chargod, namely, ten shillings a month for atteodance as an out-patient of this or any other hospital, is in oxcess of what a charitable institution ought' to ask for.
Mly ucat charge is against the nursing of the in-patients. It fell to my share to acrape away a quantity of scrofulous material from tho nock and breast of a girl in the autumn of last year; the case required a good deal of spocial care. On Norember 19th I received a Letter from Miss Ingleby (the matron), stating that she was leaving the hospital on the following day, and that the Secretary had asked her to iastruct "the cook " in the dressing, so that she might undertake the case. This the matron objected to do. The Secretary also wrote to the Registrar on the asmo day, saying: "We shall ho without a regtiar aurse for a few days. I wish you therefore to tell the dispenser that I shall want him, unless the doctor docs the dressings, to bo present to-morrow (Sunday) when cook dresses Miss K. (my patient), so that ho may superintend tho completo antisepticising of all dressings."
I replied that I was very much aurprised and vexce by his action, and that I failod to seo why my patient should we lefe withont skilled nursing. I also added my request that no unskilled or untrained person shonlil be allowad to dress my patient. I may bo fismitted to add thas the drossiug was done during the remainder of the stay of the paticut in the hospital either by my assistant or myself. The matter esmen up at the next board meoting. I understand, on Mlr. Milton being asked by tho Treasurer what he thought of the cook's enpacity as a uurse, ho said "he considerod the cook was quite as capablo as lliss lugleby:"

As evidence of irregalarity in the management, I nay state that in Whilakier and the Ifospital Almanach for this year it is statel that St. John's IIosprital has "a matron and two uurses." At our mecting at the llôtcl Mítropole a recital of this nursing episolu twas reccived with a shout of denision. It is an innovation to my nind that capabile nursing is not ouc of the ossential factors in hospital administration.
1 pass over a grant maríy sabjects whick have criated friction" be.
treen the board of management and myself, not wishing to trespass too much upon your space.
We heard a good deal at the meating from the anthorities of St. John's Hospital as to the sdvance of the institution, wheress, accord ing to their report, the gress attondance in 1886 was 44,510 , against a gross attendance for 1885 of 46,811 .

The roiceipts for the yaar 1886 amounted to $£ 3,2955$ s. 6d., whilst in 1887 the sum was $£ 3,07417 \mathrm{~s}$. $4 \frac{1}{2} \mathrm{~d}$. A comparison of these two ycars will demonstrate that we have actually lost grouad, so far as subscriptions and patients are concarned. Notmithstanding this, the expenso of managament for 1887 was mach increased.

It is now necessary to state that Drs. Campbell and Bourns and mysclf have been dismissed by the board of management becauss of our action, as detailad by ns in a commonication printed in the Journal of December 31st, 1887. To be definite, it is necessary to state that Dr. Campbell receivad his conge before Dr. Bourna and myself.
The dismissal by the present board of mansgement, or rather the majority of that board, is in no way objectionable to me. I have been congratulated by my professional friends more on this dismissal than I was on my election.
We ask for an independent committes of inquiry, which should hava the power to probe all issues, and report thereon. This committee those now in power refused, and proposed a vote of confidenca in themselves and by themselves, after a spaech from one of themsalves, Alderman Gould, which was the most offansive I have ever heard dalivered before a public meating. The vote of confidence was carried as an amendmeat to Mr. Raymond's resolntion.

Here, Sir, the matter now rests. The present action of the board of management has resulted in the dismissal of three members of the staff, the resignation of a fourth (Dr. Harries), and two gentlemen who were recently appointed have since resigned. Thase facta alons ara significant indications of the line of action taken and the results obtained.
The history of St. John's Hospital has been a stormy one. I am not in a position to affirm how many of our profeasion hava joined tha staff and afterwards left it. The sole survivers are Mr. Milton and. Dr. Dow.
I caunot hido from mysalf the hope that this painfal discussion will take the issues at stake before an unprejudiced tribunal. It is not a question of individuals; it is the question of the life of the hospital which is in the balance. Personaliy, I would express my conviction that it is only by restoring the conficence of the medical profession and the public in the eqnity of the management, that it is possibla to hope or 'believa that St. John's has a prosparous futura. This confideace can only be restored by a complate and full investigation of all mattera counected therawith. For this investigation, I, and those who have acted with me, most earnestly ask; and surel y, if a crisis such as the prasant one arises in the history of any haspital-a orisis which has eliminated the majority of the staff, which has caused three members of the board of management to act antagonistically to the remainder, we have some right to demand such an inquiry; and nntil this inquiry ia granted, wo shall be ceaseless in our endeavours to attain this result. -I 3m, etc.,
T. Robinsox, M.D.

9, Priaces Streot, Cavendish Squara, W., January, 24 th.
THE ERGOSTAT AND LATERAL CURYATURE.
Sir, - My friend and colleague Mr. Fraer, in tha Jocrnal of January 2 Ist, comments unon my suggestion that the ergostat may prove useful in eome cases of lateral curvaturs of the spine, and were it not that ha has entirely misunderstood the bearing of my letter, I should not have deamed it necessary to reply. It would appear from reading Mr. Frear'a remarks that he imagines, because I speak approvingly of the ergostat that I think it will revolntionise the treatment of scoliosis, and, therefors, take a prominent place in the treatment of all cases of
cnrvature of the spine, whether of a slight nature or in the existence of marked bony distortion. His introluctory remarks, wherein he states that my views coincida so closaly with his own, his knowledge of my practice at tha! hospital, and tha valadictery address Which I read before the Q. C. M. Soc., and which was aftarwards published in the Birmingham. Medical Rerieu, prove that ha is not warranted in arriving at that conclnsiou.

In my original letter I was caraful to stata that "amongst the various callisitenic exercises 1 recommend to patients sulfering from lateral curvature of the spine is that which has received the appellation of the 'top-sawyer' movement." This was supplemented by the statement that I proposed the substitution of the ergostat for the elastic bands, etc., employed in this particular exercise. Having 50 written, how came Mr. Freer to conjure up in his own mind that I was shout to adrocate certain stereatyped measures, and would not, in the
future, study and treat cases upon their orn' special-conditions. Another remarkable feature in the letter under consideration is that Ml . Freer obviously declines to criticiso or raiss any objection to the ergostat per se. He is, I know, a strong upholder of kinesipathy, and follows Dr. Mathias Roth, Mr. Bernard Roth, and the system of Swedish gymnastica in every particular. I append an exampla of one exercise from each of the above authors, and wish to point our that the muscles which are brought into action during the drill are exactly the same as those exerted in using the ergostat, the only difference being that in one case the medical attendant resists, and in the other tho apparstus. I bolieve with Dr. Kjoelstad that the will-influence is rery important in retaining the normal form $;$ and as the) revolution of the ergostat " must be executed very alowly," it gives ample time for the body to receive from the mind the desired impressions.

Exercise 1.-"Rack; crooked, thigh, opposite, close, standing, trunk, back, flexion (G. R.)" (Mathias Roth).
Exercise 2.-Forwards lying, hoels fixed, trunk extension and flexion (Bernard Roth).

Exercise 3.-Hips firm. Trunk backwards and forward bend. (Ling's syatem).
I may conclnde by aaying I strongly daprecate any attempt, however slight, at stereotyped rules in the treatment of scoliosis; but at the same time consider the ergostat a wise addition to our armamentarium, and that when its ase is properly sapervised, it cannot be otherwiso than nseful. -1 am, etc.,

Assistant Surgeon, Orthopredic and Spinal Hospital.
133, Steelheuse Lane, Birmingham.

## A HOAX.

Westran Suburb states that, of January 6th, a respectable lookiug woman, styliny herself Mrs. Ferguann, called to engage his professional services to attend a young lady, the wife of Mr. Alfred Davis, a rich gentleman whe had returned from Australia. Before leaving the consultian roow, he writea, mention was made of fifteen huudrel peunds having come to one of ber little girls, tion was made of fifteen humder pounds on the child; conld 1 recnmaned a which it was desirabled on for drawing up a deed? I was indnced to write an sadress on my card.
On arrival no such people were known at the residence, nor at the same nomber in Folland Yillas Road. Nothing was stolen from my rooms, but thinking some trick was being played and a thief had called, I wrote at nnce to my solicitor to cation himself and staff. It was, however, too late, as lezal advice bad been taken in the meantime nuder the pretence of ohtaining a dirorce. It was said she had been a patient of mian for years, and 1 conld substantiate the wase falsehnods. The plausible tale and introduction given imposel on a klod base falsehnods. Tfered legatopinion and granted a lnan of thircy shilhings.
gentlenan, who offered legatopinion and grat referred to is continuing her designs I I regret baving te ne!ghbourhood, aad called on.s surgeon oa Thursdas, Jannary 19th, with a similar tale.
Nothing was stolen from the surgery nor from the selicitor introdaced, although doubtless fraud was iatended.
** The trick is a common one. The hesver is still at large.
REGISTRATIOSOF FORELGA DEGIEEES.
J. Herd-Woon, M.D.Edin., L.R.C.S.Edin. (Leatherhear) writes: I notice in a latter from Mr. William Donovan, ou the registration of foreign degrees, the statements that "it is too sbsurd in this age to allow the monepoly in degrees statements that in a few old-fashioued umiversities, and that every lesally to remain vested in a few old-ashould possess the right to the title of Doctor of Medicinc."
Now, wDy sbould the medical professicn, whicb is already low enongh in the estimation of the general public, be the only one where the possession of money and time eaough to graduate at a unirersity bring no correspanding adsantage, but that any man who is content or obliged to take the lower diplomach he has example, the L.R.C.P.Ediu., shonld be allowed to asurps title for which he has not worked, and call bimself a Doctor of Medicine ? Haring passed both exaniinations, l can say with truth that it is too alsurd to cxpect the one to take the
same professioual status as the other ; as well might the man who bas passed a prelinainary in arts claim to be called M.A.
preliminary in arts claim the L.R.C.P.'s persist in claimiog the title of Dr., I shonld suggest that it become nsual for the ons to be simply Dr. A. B., the other Di: A.B., M.D., as with knights and laronets.
Soclal Progress in Spain.-The eminent statesman, Senor Canovas, has jnst completed tha elaboration of a Bill to bo brought bafore the Spanish Cortas, for the purpose of rendering employers of labour rasponsible for accidents to their workneople, unless the ssme be due to the carelessness or recklessness of the latter. Employers will also bo made responsible for accident resulting from the execution of orders giron by their managers or formen. If the workman bo incapacitated from work, the emploger will be required to pay him his wages until recovery takes place; and if the disability be of a perma.
uent character, in addition to the cost of maintenance and attendence uent character, in addition to the cost of maintenance and attendance, In wall have to pay an indemuity of from death a lika iodemnity is to be paid to the family of the de
In ceased workman. It mas appear surprising that legislatiou of this kind should atill remain to be done ; but as a matter of fact, oren in this country, the protection of the working classes sgainst the accidents of their calling have only recently beer undertaken.

## Naval and Military medical Services.

Tres fullowing appointmentahare tren made at tho Admiralty:-Samuze, Jons:sons, surgon, to the Immonke : E. E. II. Hooms, to ho surgeon noll Agent at

 lemt: Chunge Wizmon, Surgeon, to the Britannia; U. J. I. M Nana, Surgeon, to the Impreznabl: Jons E. Wran, surgeon, to the Indus; the last sha adfitlomal,
 Whonmminit, surgeon, to tho Asia, additlonnl: Sasteric Kibise, Surgeon, to pesooport thekgard; Chablas W. Shanrle, 太iugoun, to Plymouth Hospleal; Johs Casms:, Surgeon, to the cumbridge; Johs Andrews, M.D., to the Mratleme.
Fleot-Surgyon Alrxasiner Monosaln, M. D., died in Imndon on Jannary 14th at the age of thi He entoral the gorvice leoember 8 th, 1.563 ; became StaffSurgeon April 1th, 1sis: and Fleet-Surgeon April 1st, $1: 8 t$; he retired from the Vavy Sepfoubor "ad, Issf.

## THE MEDICAL STAFF.

Sumaron Majon Grorar Peaby, of tho Coldstream Grards, is promoted to be trigade-Surgeoa to the Brigalo of Foot Gunrds, vice W. R. Lanc, retired. Brigade. Surgen Pirry entered the Army Medical servico as Assistaot-Surgeon Jaumary moth, 1435 ; hecame surgeon March 1st, 1573 , and Surgeon-Major February 20 th, isio. Beginning as Assintant-surgoon 2ad Scots Fusiliers, ho was soon nfterwards transfurted to the lst Batahon, with which hosicmaioed till lsit, when he returped to the and Battalion till Sovember, lsis, when he was maise surgcon to the 2nd Coldstrearn Ginards : in 1856 he jolned the lst Battalion, and now becomes Brignile-Surgenn. He served with the scots Fusilier Ouards in the Crimean wnr from Juoo 16 th , 1835 , anil was at the siego and fall of sebastopol (unedal with clasp, anal Turkish medsl). Ho was with tho 2ad Coldstreanos duriog the war in Legsit In 185:, and was in the actions at Tel.el-mahuta, and Tel-el-kebir (medal with elasp, and Egyptian bronze star).

Surgenn-Major C. S. Close is promoted to bo Brigade-Surgeon, ranking as Leutenant-Colonel, rice II. C. IIerbert, M.D., F.I.C.s.I., retirel. BrigadeSurgeon Closo entered the servicc as Assistant-surgeon October 1 st, 1562 ; becane Surgeon March 1st, $15 \% 3$, anif Surgcon- Stajor Aprif 2Sth, 1576 . The Army List's in not asnign him any war service.
Sorgeoo. Najor D. U. W. HEather is granted retired pay. Hia commissions aro dated:-Ansistant-Surgeon, Oetuber lir, lstí ; Surgeon, March lst, 1573; anel surgenn- Major, Uctober lut, 1sio. He was engaged iv the Ashantec war in $15 \% 3=i f$ (medal), and in tho Zulu warin $15 \% 9$.
Sarkeon S. L. Devine, who joined the service May 30th, 2555 , is flaeed upon tempurary half-ray on account of ill-health.
Surgeon S. II. Cabter, M. B, who is serwing in IBengal, is appointed to the ehargo of she civil medical duties at Earrackpore, in addution to his other dutics.
surgeon-Major G. B. HICKsos, who is serving in Burmah under tho Madras Government, is appointed teaporarily to the civit medical charge of the Toungoo 1 Hetrict.
Surgeon 1T. Ě. Drase, serving in the Bombay command, is trausferred from the Presldeney listriet to geacral daty Sind distriet.

## INDIAN MEDICAL SERYICE.

Surceon D. G. Crawforo, M.B., la appointed to bet as Civil Surgeon of Backergunge, ilorlog the alawico on deputation of Surgcon-Major C. J. W. Meadows. Siareon-Major A. Babclav, M. B., Bengal Establisbinent Seeretary to the Sur. gredical inedical certiffata.
Sorgeon L. F. Cilitar, Bombay Estabilshment, ia directed to omelato in medieal charge of the 12th Native Infantry.
Sorgeon f. E. Fonka, Bombay Eatabliahmest, fa ordered to oflcinto io medical
charge of the lbth Native Infantry. charge of the 1 bith siative Infantry.

THE TOLUNTEERS.
Suroznn ano Hononaby Surugon Major W. C. Wime, of the ghd Kent Arthery, has revigned bis cormisuloo, whicis dntes from April $206 \mathrm{~h}, 18.7$; be is allowed to retala his rank ade uniform.
M. C. R. Firloind, 3t. D., is appolnted Acting. Surgoon to tho Ist Clague Ports Riffes, and Jr. II. A. Des Vinitx to tho Quocn's Weammatarn.

## SURGEONCY VACANT.

Thr: Senine Sargentey of the 22 nd Midillesex Kino Volunteers (Central Londoo liaugers) has fallen vacant by tho rellement of les Surgeon, after a lengthened

 Hend Quarters, 22 ad Mhmesex Rifo Volunteers, Sonth square, Gray. Inn.

## ISDDIS MPDICAL, SERYICE: A WAILNING.

Impias: Seravier writua: Conianlerable aurprisu has been excifed in india hy tho acuronacemont that leo anrgenos are to bo immectiately nided to the lurlan Medical pervien, ts being requatred for aervico in tho lombay frealdeney. Though the antiexation of Buruah and the ropealug oj, of Buluchivan haveneres. stated the emplogment of extra sorgeons, tho humber of new appointhents mentoners far exceeria the requirment. nn these counts.
It wonlical recon that some attenpt in play off the tnilinn service against tho Bicmical stanf ta contenplated. There is an crroneoigs impression that this "no rank agifation has not drgraind the hidian Service. Tho trath is that the
 matisfactory. Though a regumental ofleer, he is junfor to tho last-jnined jroo bafiunor la tho inesu and at regineatal rintertainmoats. Afen In civil cmphoy are matnrally not indueacel by any regulations affecting the anfitary aervice. Uor medical schonls and Intending exnerlidates shoulif tho on thelr gearict that men aro not indaced to entn the lodian service with a vlow of being omployed In the place of Diedical staff men. Regariling the Indian Service I would atrongly adviso any Europear not to think of entering it uniess ho has powerful
interest. If a man wants a railitary career the Medical Staff ia the only ecrvice he ahould think of. Few hononrs aro given to Indlan men, and not a alnglo raenber of tho Service has ever galned the Victorla Croas; masn can live on his pay in the British Borvice.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

" DOCTORS' BIILS."

Sir Ricifard IIarington, Connty Court Jodge, in his court held at Droitwich on January 11th, had before him two cases of interest to members of the madical profession. The plaintifls were Messra. S. Batten and E. Elliott, who formerly were in partnership as goneral practitioners. The actions wero brought to rccover aums due for naedicel attendance and medicine. In the first case, brought against a farmer named Arnold, the claim was for a sum of $£ 25$ s. 6 d. for professional attendance and madicine. Tha defendant had formerly haen. attended by Mr. Batten, before ho entered into partnership with Mr. Elliott; and in the jaar IS84, zoon after the commencament of the partnership, he paid him a sum of $£ 12$ 16s., which be swore was in settlement of all aums due up to that late, whila Mr. Batten stated that it was on account only of what was due to him before the partnership. The judgo decided in favour of tho defendant, and we cannot say that he was wrong, as it lay npon the plaintif to prove his caso; and, in the conflict of evidence which was presented to him, ho might well hold that the plaintiff had failed to do this. Ha weat on, however, to make comments on the claim, which, as he had already dismissed it, ware quite unnecessary, but are neverthelass instructive. Part of the claim vas for medicines supplied; and thesa had been charged for at the rate of $3 \times 6 \mathrm{~d}$. per bottle, irrespective of the cost of the drugs used. The judge said that "the practice of surgoona chargin! for medicines in this way was nnsatisfatory. A registerad practitioner was entitlod to charge for his attendance, and there was no reason for charging more than their value for medicines. Tha practica of so charging would not ba allowad to stand in his court, and, if cases of this kind came before him, he shonld have to inquire into the cast of the drugs supplied." The practice thus condemoed is one which no doubt is common, and in many cases has been found to bo convenient ; and it certainly has often come incidentally nuder the notice of judges of the lligh Court-espocially in claims for personal injuries, where the cost of medical attendanes is one of the itens of the damages-without elicitiog condemnation. As a matter. however, of strict law, where the "doctor's bill" is disputed, Sir Richard Harington is apparently right. Whers a medical practitioner supplies madicines, he does so not as a memher of a learned profession, but as an apothecary; and, like other tradesmen, in the absance of an agreed price, he is only entitled to charge what is reasonably the value of his goods. In ascortaining that value, the liability of the goods to deteriorate throngh keepiog, the skill of tha dispensar, and other considarations which considerably enhance the price beyond that of the wholesale cost of the drugs used, must, of course, not ba lost sight of ; but they apply equally to medicines purchased at a chemist's shop, and a medical practitioner who supplies medicinea cannot in law claim to make higher charges for them than would be paid to a chemist. It may be a hardship, in the caso of patients who object to pay proper charges for visits, that the practitioner should bo unsble to make some extra profit from his medicines; but the law clearly will not enahla him to recover such profit. It is well for those inembers of the profession who supply molliciass to be awara of this fact, and to regulato their acala of lees anu charges accordingly. A professional man may, in law, estimate the value of his personal sarvices at any figure ha likas, and may rafu $u$ to accept less for them than be considers doe.. If, however, he contemplates the necessity of having to ase for his fees, he must mak, his client know at the time what their amount will he, otherwise a court will be sure to hold that the ouly contract is to pay such fees as are usual, and award a much smaller aum than the plaintilf cousilers due. Ilo may also, as a tradesman, chargo what price he likes for his medicioos, if ho tells his customers of it at the time he supplies them, aud so makes the prico charged an agroed price. What the law will not sanction is a plaintiff putting a lancy prics on his goods or his services after thej have lieen given and when the defendant has no loager an option of declining to havo them. If thero has heen no agreement, it is always opeu to a dofendant to dispute the amount claimed from him, and courts in such cases must decielo as best thoy can as to the amount really due, anal often, 10 doubt, inflict considerable hardship on membera of the medical profession in so doing.
In the second case, triell at the same court, the plaintiff claimed payment from a Mr. Lamb for attendanco on his grandchild in March
and April, 1884. Tho defondant deniod having asked Mr. Batten to and April, 1888, , whose pareats would, of course, be the persons primarily liable to pay for auch attendance ; and Mr. Batten, though positive that he had boen sent for by the defendant, was unable, after the lapse of four years, to remember the words of the conversation in which he was engaged. This failure of memory was quite aatural, but it lost the case, for the judge had no option but to decide against, a plaintiff who failed to prove what was necessary in order to support his action. The case is, no doubt, an example of what is constantly occurring. Medical practitioners, and other creditors too, are often reluctant to press a debtor of whose ultimate intentiou and ability to pay they have no doubt, and constantly omit to press their claim till it has become stale and the material faits are partly forgotten. Eventually they find, when too late, that their money is irrecoverable. We have often pointod out that promptitude, at any rate in sending in accounts, greatly improves the cliance of enforcing their payment in case of need. We fear, however, that the practice of not asking for payment at the time debts are incurred is too firmly established to be easily altered. The fate of Nesssrs. Batten and Elliott ought to be a warning to the profession; but we doubt not that in the future, as in the past, we shall have from time to time to record instances where medical practitioners fail to recover their dues because they have delayed too long

THE LETIER OF THE LAW.
Dr. T. writes: On going to see a patient of mine whom Ihad been attendiag regularly on the morning of December 26th, IS8\%, I was told a medical gentleman living about fifty doors from me had been called in during the night, and prescribed for the patient. I told the friends I could not see the patient. On returning home I fonnd a letter awaiting me from the medical man in question, of which I aend yon a copy. I gaw the patient at 9 P. M. the previous eveding of which I send yon a copy. I gaw the patient at a p.a. the previous eved by
and was at home nntil the mornlag. The patient is now being attended by and was at home nntil the mornlag. The patient is now being atteaded by
this medical man. Your opinion on tha professional etiquette of tha case will ba valued.
** Although a careful consideration of the geveral pointa involved in the respectiva notes of Dr. T. and Mr. S. leaves no doubt apoo the mind that the latter erred in consenting to visit the patient in question, it is, we think, cqually clear, from the courteons note of explanation apontaneonsly addressed by him to Dr. T. on the morning of the occurrence, that the proceedings arose not from deliberate purpose, but from a regrettable lack of moral courage and detcrmination to resist the carnest entreatics of the apprebensive personal fricad to return with bim and see the "furiously delirions" paticnt.

At the same time, wa cannot but think that Dr. T. is somewbat to blame in the case, in that, and notwithstading that the patient was serionsly ill and binself altogether blameless in the matter, he (Dr. T.), on paying his morning professional visit and hearjog that another practitioner had geen him in the night, thereon refused to see him. Ere declining further attendance he should in our opinion, have listened patiently to the reasons assigned by the fami y, and, sifting the alleged facts, heve at once sought an explauation from Mr. S., which indeed, as admitted, he found "awaitigg him on his return home," and which we ars clearly of opinion that Dr. T. would have dode well to accept. We apprehend, moreover, that the patient's intimate friend, and not the family, is capecially respensible for the untoward iacident by which our correspondent would appear to hava loat a patient, and at the aame tinie unheedfully ignored the friendly spirit of a well dispoaed, though, mayhap, a somewhat irreaolute brother practitioner.

## RAISING THE FEES WITHOUT NOTICE.

A Member writes: A. is a practitioner who is called in to attend a patient B. A. In duo course reme A is acconture, whith A payment, but is asked by B. to apecify his charge per visit in future, whioh A. accordingly does for sonac years,
at a certsin tigure, practically a nominal sum for a patient in B.'s position. at a certain figure, practically a nominal sum for a parient in B.'s positiou. Duriug a recent illnces A. is asked to discontiaue his nttendance, and auoller practitioner is called in. Is it legal for A. to double his fee, which is still moderate, without first giving previous notice to B . to that effect?
B.'s solicitor asserts that there was au "implied contract "at tha former charge, and that A. was not entitled to change the rate without previous notice charg

Information regarding the above will be esteemed a favour.
** The solicitor's contention repears to be well founded. T'nless A. can ahow that there was something in the arture of the illness, or of the atteution dearanded by tha patient, to render the latter visits more valuable than tha earlier ones, no court would be Jikely to a ward a larger feein respect of them than that which A . demanded formerly. If it could be shown that the latter visita occupied twice as long as the earlier ones, or anything of that sort, it would be reasonable to ask for facreased fees, but unless this can be done they would not be recoverable.

## SOLICITORS LIABILITY

Dr. J. Bain Sincock writes: Some two years siace, a solictor of this town consulted me respecting the death of a client of his whom 1 had attended; the question was whether his death could be ascribed to acoident or natural cruses. 1 gave my opibion advising the aolicitor to compromise the matter with the nftice in which the man was insured, by acceptiog their offer. In Felruary, 3ssi, I sent in my bill to the said solicitor, charging him oue gninea for advice. He denied his liability. There the matter rested till last month, when, having
to pay the aolicitor a amall sum, I deducted the gainea. He refused to sccept the amount I tendcred him, and brought an action againat me io the connty court for the whole amount. Thare was no questina of fact in dispate. On the point of law the judge decided that the plaintiff ca
client, and consequently be was not persmanly liable.
client, and consequently be was not persinally liable.
If this ia the law, I trust my experience may be of to others. I have made ap my mind dot to trust a solicitor actiog as agent again, unless 1 have written instructions from his priacipal.
I think, Sir, I have aeed io the Joursal the repart of a aimilar case, where the judge decided in favour of the medical man. If this is so, and jou could judge decided in favoar of the the the report of case, 1 should feel nuch ouliged.

* We have no referenca to the report mentioned. Sach cases tarn on questions of fact, and not of law ; and ona decision would be no guide by which to datermine another, unicss the facts coald be ahown to be precisely similar. Tha law is clear, that the person liable is the one who cmploys the medical man. Who that person may be is a question of fact in each particular case. The ouly way to avoid disputes is to give no credit, or else to have 'a definite promise to pay, given at the time.


## FORM OF AGREEMENT WITH ASSISTANT.

A.W.B. writes: There are two important objections to "the usual bond," so often required with assistants : first, that aa assistant, if he have money at command, masy find it to his advantaga to pay the penalty and become an opponent to his former frincipal; secondly, that if the assistant bo without means, he may break the bond and becorue bankrnpt if the penalty he sued for, the bond being, ipso fucto, unll aud void.. This occurrad in a case of which I know. Now the object of the priucipal is to prefent his assistant becoming a rival-not to get the penalty named iu the bond.
A better way to attain this end secms to be that mentione 1 to me by a magistrate (not a lawjer). It is that au agreement be drawn up aomewhat as follows:- hereby agrees to pay, and C.D. to accept, the sum of $£$ - per month, on the following conditions, namely

First. That C.D. shall assist the said A. B. as he shall require in his practice as physician and surgeon by visitiog patients, dispensing and, atrending midwifery.
"Secondly. Such duties to terminate at any time by a month's notice oo either
side; and "Thirdly. That the said C.D. sball not at any time, eitber during the time he is assisting A.B. or afterwards, whether for himself or for any otber practitioner of mediclne or person, act as physiclan, surgenn, or accuucheur, within a radins of five miles from the residence of A.B., at $\mathbf{X}$--, escept with the written consent of the said A.B.

## '(Signed) A.B. and C.D."

If this agreement bs broken the principal may, I am informed, obtain a perbetual injunction restrainiog the assistant from practising as a rival.

1. Wunld the above agreement be legally binding?
2. If so, would it be equally biading on ma naqualifed assistant?
3. What would he about the probahle cost of outaning an injuaction?
4. Wonld a 64. stamp be required.
** 1. and 2. Such an agreement as suggested, if properly drawn mp, would be binding on the parties to it, and might be enforcea against an uuqualified assistant jost as much as if he was properly qualitied. There have beeu cases before the courts in which injunctions have been granted.
5. It is impossible to say beforehand what the cost of litigation would be, It is not necessarily an expensive process to obtain an injunction, but if the application ba resisted costs will, of course, be increased.
6. A od. agreement stamp seems to be the ode required.

ARE JIEDICAL PRACTITIOXEERS "TRADERS?
Non-Trader, writes: It may he interesting to some of your readers to know that a similar point arose a few years ago in a sister profession, in which it was held that a solicitor was a "trader," because it was proved that he was it the hathirf of maklog a profit on the parchments on which his dewls were engrossed. It appears, therefore, to be a question of fact whether madical practit!oners cale to make thenselves "traders" or no.
". We agrec with "Non-Trader" that the question whether or not any per. sou has been carrying on a trade is one of fact rather than of law. As we have pointed out, its practical importance is now much less than it was formerly:

Tokelau Ringworm. - Tokelau ringworm is an inteterato form of body ringworm observed among the uatires of the Pacific Islands; it Was first identified by the late Dr. Tilbury Fox under the name of tiuea circinata tropica. It spreads vory extensively over the body, probably owing to the moist and warm climate, so that the whole of the skin, with the exception of that of the fico and sealp, may bo covered with wayy lesquamating lines. Dr. Guppy states, in his interesting work on The Solomon Iskends and their Natizes, that sulphur ointment is used by the goverument agents on the labour ships, and that they report that when the renedy is thoroughly and sysee. matically applied, the skin can be freed from the eruption bolore tho ships reach Queensland or Fiji.

Dr. Muriels's Massage as a Mode of Treatment bas been trans. lated into French by Dr. Oscar Jenuings, and will shertly be published with a prelace by Dr. Dujardin-Beaumetz, of Paris, ubder the title of La Pratique du Massaye.

Medical Aid For the Fomes of Isida. - The third annesl meetiug of Lady Dulferin's Association will be hedl on February Sth, when steps will bo taken to hare the dsociation jace"! Iste 1 .

# PUBLIC HEALTH <br> AN <br> POOR-LAW MEHICAL SEIVICES <br> <br> THE TRUE DEATII-RATES OF I.ONDON DISTRICTS DURING <br> <br> THE TRUE DEATII-RATES OF I.ONDON DISTRICTS DURING THE FOURTH QlCARTER OF 1887. 

 THE FOURTH QlCARTER OF 1887.}

In the accompanying table will be fornd summarised the rital and mortal statistics of tho 39 ssnitary districts of the metropalis, based npon the Registrar-General's returns for the fourth quarter of last year. The mortality fignoes in tho accompanying tsblerolate to the deaths of persons actually belonging totherespcetivesaitary districts, andare the result of a completesystem of distribution of deaths occorringin the institutions of London among the rarious sanitary districts in whish the patients had previously resided. By this means the precise numher of deaths of persons actually belonging to the respective sauitary districts is known as all deaths occarring in iustitutious of persons who had previously resided in another district hare been excluded from the total number of deaths in the district in which the institution is sitasted, and credited to the districts from which they carae. By this means alono can trustworthy data be secured upon which to calculate reliable rates of mortality.
The births registered in London during the fourth quarter of 1887 were equal to an annual tate of 31.2 per 1000 of the population of the metropolis, estimated at $4,216,192$ persons. In thie corresponding periods of the three preceding years $1854-\overline{5}-6$, the London birth-rate was $33.3,32.8$, and 31.4 per 1000 respectively. The birth-rates in the various sanitary districts last quarter showed the uspal ride variations,
the age and sex dietribution of the popalation differing greatly. In Kenington, St. George Hanover Square, and St. James Westmiuater, Where a large proportion of the popnlation consista of nomarried femsles, chiefly domestic sorvants, the birth.rates were oonsiderably below the average; while in Fulharn, 'St. Luke's, Bethnal Green, and St. George-in-the-East, where the population contains a large proportion of young marricd persons, the birth-rates showed a marked excess.
The 20,732 deaths of persons belonging to London registered during the quarter under notice were equal to an annual rate of 19.7 per 1,000 , which, though excerding the exceptionally low rate recorded in the corresponding period of 1886, was considerably below the mean rate in the fourth quarter of tho ten procediog years 187.56. The lowest death-rates among the thirty-nine sanitary districts last quarter were 12.4 in Hampstead, 15.0 in Kensington, 15.3 in Plamstead, 16.1 in Paddington, and 16.7 in Hackney; in the other districts the rates ranged upwards to 26.3 in, Fulham, 26.4 in. St. George-in-the-East, 26.5 in Bathasl Green, 23.2 in St. Giles, and 29.7 in Holborn. During the quarter under notice 2,580 deaths resulted from the principal zymotic diseases in London; of these 828 were referrod to whooping cough, 656 to scarlet fever, 328 to measles, 326 to diphtheria, 254 to different forms of "fever" (including \& to typhus, 241 to enteric or typhoid fever, and 9 to ill-defincd forms of fever), 185 to diarrhea, and 3 to small-pox. These 2,580 deaths were equal to a annual rate of 2.5 per 1000 , which slightly exceedod that recorded in the corresponding quarter of 1886 . The lowest zymotic death-rates during the quarter under notice were recorded in Hampstesd, London City, Paddington, Kensington, St. Martin-in-the-Fields, Marylebone, and Westmioster, in each of which sanitary districts it was below 1 per 1,000. The zymo tic death rate ranged upwards in the other districts to 3.7 in Holborn,

Anclysis of the Vital and Mortal Shatistics of the Sanitary Districts of the Metropolis, after complete distribution of Deaths occurring in Public Institutions, during the Fourth Quarter of 1SS\%.

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3.8 in Stepney and in Mile Eud Old Town, 3.9 in Fulham, 4.2 in St. Giles, and 4.3 in Pothnal Green. Compared with the preceding quarter the fatality of each of the principal zymotic diseases, except measles and diarrhhes, showed an increase. Ooly 3 deaths from smallpox were recorded in London during the last three months of 1886 , of which 1 belonged to Paddington, 1 to St. Giles, and 1 to Lasmbeth sanitary districts. The number of small-pox patients in the Metropolitan Asylums Hospitals, which had beeu but 2 at the beginning of Oetober, steadily increased to 15 before the end of November, after which it declined, and was 7 at the end of the year ; the admissions were 30 during the quarter, against 7 in the preceding threc months ending Septembor last. Measles showed the highest proportional fatality in Bermonlsey, Fulham, St. James Westminster, and Lawis ham ; scarlet fever in St. George Hanover Square, Bethnal Green, Rotherhithe, Stepney, St. Giles, Newington, St. Olave Southwark, Bermondsey, and St. George Southwark; diphtheria in Lambeth, Wandsworth, Hammersmith, Holborn, and St. Giles; whooping congh in Plumstead, Hammersmith, Islington, St. George-in-the-East, Poplar, Shoreditch, Bethnal Green, and Milo End Oild Town; and enteric fever in Caelsea, Clerkentell, and Strand. The number of scarlet fever patients in the Metropolitan Asyluus Hospitals, which had boen 1,596 at the begimning of October, had risen to 2,602 by the end of November, and after marde steadily declined to 2,049 at the end of the year. The admissions to these hospitals of persons suffering from scarlet fever, which had been 531,475 , and 688 in the first three quarters of 1887 , rose to 2,186 during the three months endiug December last.

Infant mortality last quarter, measured by the proportion of deaths nnder one year of age to births registered, averaged 145 per 1,000 , against 136, 135, and 144 in the corresponding period of the three precting years, $1884-5-6$. Among the various sanitary districts the rates of infant mortality were lowest in St. Martin-in.the-Fields, Plumstead, Hampstead, IIackney, and Wandsworth; mhereas they ahowed the largest excess in Bethnal Green, St. James Westminster, Shoreditch Westminster, Stepney, St. Olave Southwark, and Holborn.

THE RECENT APPOINTMENT OF MEDICAL OFFICER FOR TIIE CALDICOTT DISTRICT OF CHEPSTOW UNION.
We learn frous the Chepstow Weelly Advertiser, and from other sources, that there has been a sharp fight for the appointment of District Medical Officer of the Caldicott portion of the Chepstow Uniou. The succossful candidate, though non-resident, has held the position for twenty-seven fears, having been subjected to triennial reelection. Recently a Mr. Slatters, who is lescribed in the Medieal Reyister and in the Meedieal Dircetory os M.R.C.S.E. only, being resident in the parish of Caldicott, has applied for tho position, and at the election in the middle of December ran a tie with his opponent, which Mr. Slatter duly advertised in a letter of the 24th ultimo to the Chepstore Advertiser, in which this gentleman claims to possess a qualification iu medicine and surgery, and es auch of taking and holding a poor law sppoiutnent, though le very prudently subscribes himself as a Member of tho College of Surgeous only. This time he failed to seore so many votes as his antagonist had, viz, 31, whilst he had hut 19 -majority, 12. It should bo known that the possessor of ouly one qualification cannot hold a poor law sppointment however wall qualified ho may in his own estimation be to practise medicine and surgery, uuless there is uo doubly qualified gentleman resident within a reasonable district to be got, and then the nolder must be snbjected to annual re-olection.

## DIPITHERIA AT ENFIELD

AT tho last meeting of the Enfield Local Board, a letter was read from the Local Government Board, requesting the Enfield Urban Sanitary Authority to instruct their medical officers of health to preparo a report upon the ontbreak of diphtheria at Enfield, with a statement of the measures taken for checking the spread of tho disease.

Health of Eyalisi Towrs.-During the woek ending Saturday, January $21 \mathrm{st}, 6,016$ births and $4,14 \bar{J}$ deaths were registered in the twenty-eight large Euglish towns, including London, which hare sa estimated populatiou of $9,398,273$ persons. The annual rate of 23.8 manty per 1,000 persons living in these towns, which had becu
 from 17.0 in Brighton, 18.1 in Hall, 18.2 in Bristol, aud 18.5 in Oldham, to 25.3 in Nottiugham, 25.5 in Plymonth, 26.8 ia Manchestor, and 28,8 in Portmonth, Tho mean death-rate in the tirenty.
seven provincial towns was 21.9 per 1,000 , and was 2.5 below the rate rocorded in London, which was 24.4 per 1,000 . The 4,145 deaths registered during the week under notice in the twent5.eight towns inclnded 481 which were referred to the principal zymotic diseases, against 493 and 476 in the two preceding weeks ; of these, 195 rosulted from whooping. cough, 85 from scarlet fever, 56 from measles, 50 from "fever" (principally entoric), 36 from diphtheria, 30 from amall-pox, and 29 from diarrheen. These 451 deaths were equal to an annual rate of 2.7 per 1,000 ; in London the zymotic deathrate was 3.1 , while it averaged only 2.3 per 1,000 in the twenty-
seven provincial to saven provincial towns, among which it ranged from 0.4 in Brighton and inul, to 5.0 in Nottingham, 5.5 in Bolton, and 6.3 in ShefWolverhampton, Nottingham, Blackburn, Derbs, and Bolto lymouth, fever in Derby, Blackbnrn, Bolton, Carditi, Preston, and Birtanenhes and whooping-cough in Salford, London, Wolverhampton, and Leicester. The 36 daaths from diphtheria in the twentr-eight towns included 22 in London, 4 in Nottinghanu, and 3 in Liverpool. Of the 30 fatal cases of small-pox recorded during the week under notice in these towns, 25 occurred in Sheffeld, 3 in Bristol, and 2 in Nottingham. The number of small-pox patients in the Metropolitan Asylums Hospitals was 5 on Saturday, January 21st, of which 1 was admitted during the week. These hospitals also contained 1,729 scarlet-fever patients on the same date, against numbers declining from 2,002 to 1,792 in the seren preceding weeks ; there were 122 admissions during the week ending Saturday, January 21st. The death-rate from diseasss of the respirstory organs in London was equal to 7.2 per 1,000 , and slightly exceeded the average.

Heatif of Scoich Towxs. - In the eight principal Scotch towns, 821 births and 588 deaths were registered during the week ending Saturday, Jannary 21 st. The annual rate of mortality in these towns, which had been 27.1 and 24.0 per 1,000 in the two preceding weens further declined during the week ander notics to 23.3, bat slightly exceeded the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns the lowest rates were recorded in Leith and Greenock, and the highest in Aberdeen and Dundee. The 588 deaths in these towns daring the week under notice included 66 which were referred to the principal zymotic dis. eases, equal to an annual rate of 2.6 per 1,000 , which almost corre. sponded with the mean zymotic death-rate during the week under notice in the large English towns. The highest zymotic ratts were recorded in Aberdeen, Edinburgh, and 'Leith. The highest proportional fatality of whooping.cough occurred in Aberdeen and Glaggow; from measles iu Ediaburgh and Leith; and from "ferer" in Edinburgh. Three deaths from diphtheria were recorded in Glasgow. The nortality from diseases of the respiratory organs during the week under notice in these towns was equal to 6.5 per 1,000 , against 7.2 in London.
Health of Imish Towns.-During the meek ending Saturday, January 21st, 525 deaths were registered in the sixteen principal town districts of Ireland, equal to an annual rate of 31,4 per 1,000 . Tho lowest rates were recorled in Armagh and Londonderry, and the lighest in Limerick and Sligo. The death-rate from the principal zynotic diseases in these townsiaveraged 4.8 per 1,000 , and mas highest in Cork and Nemry. Measles was fatally prevalent in Belfast, Cork, and Nowry; and whooping-congh in Beltast. The 216 deaths registared in Dublin during the treek under notice rera equal to an annual rate of 31.9 por 1,000 , which showed a further decline from the high rates recorded iu recent weeks. The 216 deaths included 29 from the princinal zymotic diseases (equal to a rate of 4.3 per 1,000 ), of which 8 were referred to "fever," $\overline{7}$ to scarlet-feser, 5 to whooping-cough, 4 to diarthces, 3 to diphtheria, and 2 to measles.

WORFHOUSE MASTERS AND MEDICAL OFFICERS
A Mrmeer writes: I am medical nificer to a country workhouse, and wish rerf much to kDow how to act onder the fohowing circnustance:

1. I wish to ranke a post-mortem examiastion on a deceased pauper, who has friend to object, but the master of the workhouse suggests that it is illegal, and shores me the regulations of the Local Government Buard.
and takes pmil to see some cases at the workhouse; the master gires mic a hint that the pupi، canuut come without his leave.

An outside pauper proposes coming into the workhouse hospltal in order that 1 may operate on him for cataract; but the master hints that no other surgenu can be admitted to help at the operation without the permission of the guardians.
How lon, will strife be permitted to continuo botween the master and the medical otticer?

* As regards the first question, application should be mado to the bosrd for permission to make the post-morten examination, pointiog out that it is not the
province of the master to give or withhold his assent where a pauper dies with. ont frionis, bat the bard'o coly, and that it is customary for a board to permit - medical ofteer to do so.

Secondly. It is enstomary ith almost every union that the medical afleer bo allowed to take hila gupils with hin when golng round tho infirmary.
Thirdly. It would bo advisable to write to the besard for the necesssry permalssinn, agala statug what is the eustom. Before writlug to the board it would be well to sce the chairman or soue intlecutial mumber of the board, aud a9k him to snprort the appilicatlog.

## OBITUARY.

## SAMUEL HEJ, F.R.C.S.ENG.

In the death of this, oue of the beat known of her professional men, whether as a sargeon or a citizen, Leeda has sustained a heary and enduring loss. Sammel Hey was the fourth liak in a chain which has stretchod in nubroken strength from 1759 till now, and which bas bound together tho namo of Leeds and the practice of surgery in iuscpratale conmudion. To his predecessors in the surgical world Leeds owes much of the great surgical reputstiou which she enjoys all tho world over, sull in Mr. Samuel Hey they were followed by a not unworthy successor.
He was the son of the Rev. Samuel Hey, Vicar of Ockbrook, in Darbyshire, and granilson of "Willism Hey (Primus)," of Leeds, sod was born on August 220d, 1815. His mothet was Margaret, daughter of Mr. William Gray, of Iork. His early cducation was of the ordimary character of the day, and from his twelfth to his sixteenth year was conducted by the Rer. Joseph Cox at Gainsborough. At the sge of 16 he went to Leeds, and entered upon his professional career by pupillage under his unclo, William lfey (the secand), snd throughout his whole life he maintained that this was the most usoful part of his professimal ellucation. Ilis later training way conducted in London, and at University College and at St. Gtorgu'y Hospital he had the adrantage of stndying undor Sit Benjamin Erodie, Sharpey, Cooper, and other of tho men most distieguished in their day as physicians, and surgeons, and teachers. His London life over, he spent three further years in perfecting his education by sttendance at the various schools sad climulues of the highest reputation on the Continent, in Paris aud in Cermany; and he thereby acquired a knowledge of the Frencls and German languages, both of which he spoke fairly well, and which provoll of groat value to him in afer-life.

In or about 1840, ho joined his cousio. William Ifey (the third), in his prastice, and therein became one of the best knowa men in the profession, in the town and country. At about the time at which Mr. Samuel Hey sctuled in Leeds, the subject of the inatitution of a medical achool was taking form in the miods of his cousin sad other leading men ia the profession, such as Thacketay, Tozle, Williamson, Price, and others, sod into this project Mr. Samuel Hey entered with most lively satisfaction. He used to bosst that he sttended the first locture formally delivered in the "Leeds School of Medicioe," snI, in later life, as a lecturer on physiology-as one of the surgical staff of the infirmary, and ss, in consequence, tho tescher of surgery in the achocl-his ioterest in it as a Leeds institution never flagged; his best services were ever at its disposal, sud for many years he setod as its treasurer.
Io 1851 he was appointed surgeon to the infiraary, and in this espacity be will probably be best remembered by the many pupils to whom he endeared limself by the kindnessand gontleness with which he falfilled his daties-rirtues which he also sought to impart to them sal which be uever failed to incalcate as aurong the highest attribatee of a surgeon aud a gentlouiad.
Those who knew hitu best, says a warm personal frioud of the decessod, wiil romomber how carefully and with how groat a scaso of responsibility ha was woat to poader over all his cases, whether in hospital or in private, and how carnestly he sought at all times $t$, master them in their minutest detail.. Socislly, Mr. IIoy, in the daye of his activity, loved nothing so much as entertaining his frieods. To see hia tsble well spreal sad surrounded by gacsts whom he de. lighted to honour was supreme happiness to him, and as a guest himself, on public occasions, the making of an after-dioner speech was unsiloyat nleasuro. In all tho rolations of lito he was the soul of honour, sud nothing caused him greater grief than the story of uaworthy conluct or bahaviour on the part of ayyane with whom he hal becu connected. He was a sincerely religious man, and hia religion wat of a strictly practical and fruitful character.

Mr. Hey, who was 73 years of age, was twice marricd, and leares [our childrea-one son and three danghters.

WESLEY M. CARPENTER, M.D., NEW YORK.
We regret to notice the death of Dr. Wesley M. Carpeutor, Professor of Clinical Medicine in the Medical Department of the Unirersity of New York. Dr. Carpeater was largely occupied in joarnalistic pursuits. The full report of the meoting of the Internstioaal Medical Congress at Washiugton, published by the Alew Fork Medical Lecord, was jrepared under his supervisiou. Dr. Carpenter was born at Erievillo, Now York, iu 1539, and received his medical edncation st Ano Arbor Uaiversity, Michigan, auch at the College of Physicisus and Surgeous, where he graduated in 1863 . He established himself in Now York in 1872, aud soon after became connected with the Bellerue Hospital. He served the Pathological Society, the Academy of Mediciue, the Practitioners Society of New York, and the Medical Socioty of the County of New York, in a secretaris! espacity. He was the anthor of an Index Medicus, contribated to the International Cyclopadia, and was the editor of the Epilome of American Medicinc and Surgery.

Dr. Carpenter died very suddealy, of kidney disonse. He weat to bod, apparently in his usual health, on January 6th, and was found to bo desd the following morning.

Dr. Carpenter had more than once risited Europe, and was well kuown in medical circles in London, where his iatelligence, tict, and kiudliness were much appreciated. He was one of the ablest of the medical journalists of America, sud dealt with dillicult questions in a spirit which aimed at tho best interests of medicine.

## THOMAS GODART.

We regret to announce the death of Mr. Thomas Godart, late Librarian to St. Bartholomew's Hospital. Mr. Godart was known uot only as an excellent performer of his official dutiea but also ns a skilful artist. He assisted Mr. Luther Holdea by oggraving the lithographs for that surgeon's Osteology. The best samples of Mr. Godart's skill, however, were his coloured pathological drawiugs. We all kuow how unsatisfactory are the majority of productions of this kind, repulsive and uninstructive even, if not displaying a sensational appesradce sayouring of quackery. Mr. Godart possessed the art of imitating the delicate though unpleasing shades of colour which sre seen in diseased structures, with great faithfulness, therefore his drawings are of real service for purposes of instraction. Mr. Godart died on November 5th at Sydney, Now South Wales, haviag left England of a conot of ill. healih. Before lesving this country ho received a testimonial, towsrdy which a large number of past sad preseat students of St. Bartholomew's Hospital contributed.

## ROBERT RATIERAM STILWELL, M.D.

Dr. Stilwell, of Backenhem, whose death it becomes oue duty to announcc, was the second son of the late Mr. George Stilwell, a geners] medical practitioner of Ensom. IIe was educated at the Tonbridge Grammar School, aod subsequently entered Guv's Hospital, where he pursued his medical studies. He taok his M.R C.S. degree in 1856, and two years later passed the examination for M.D. at St. Andrews. In 1857 he commenced proctice at Beckenlam, where he resided up till his doath. He was consulting medical ollicer of the Beckenham Cottage Hospital (which was iounded at his suggestion), and divisionsl surgeon to the loenl plice. Dr. Stilwell had a wide circle of attached friends, by whom his loss will be much felt.

## INDIA AND THE COLONIES,

INDIA.
Dr. Cifarlotte Eliatr, who, io conjunction with Dr. Edith l'echoy has been doing such excellent rork at the Cams Hospital, has left for Hyderabad, Sind, where tho muvicipality is about to open a Wumen's dispensary,

Female Memcal aid to the Women of Ispia. - The first of tho silver medsls preseated by 11 is Lixculleacy the Viceroy to the Countoss of Dufferin's l'und for supplyigg fumale medical sid to the women of Iadia, bas been claimed by tho authorities of the Grant Modical Collogo, Bombay, for presentation to Misa 13. Bradley, the most successful stadent during the past yesr nt tho first examiaation in the certificated practitionors class, Sir Walter do Sonza, whoso liberality has crabled many femalo studenta to study at the Calcutta Dedical College, has placed a chequo for 2,400 rupees in the hands of the Central Committee, being his fioal donstion to the De Soaza Trust Frad, which has conferred so much good oa scholars nad sick in the Indian metropolis. A list of contributors to the Jubilee collection is being prepared for presentation to ILor Majesty.

## MEDICAL NEWS.

## MEDICAL VACANCIES.

The following vaeaucies are announced BELGRAVE HOSPITAL FOR CHILDREN, 79, Gloueester Streat, 8. W.House Surgeon. Applications by January SIst, to the Honorary Decretary. BIRKENHEAD BOROUGH HOSPITAL.-Scnior Hnase-Surgeon. Salary, £90 per annum. Applications by January 30th, to the Chairman of the Weekly Board.
BIRMINGHAM GENERAL HOSHITAL.-Two Assistant House-Surgeona. Applicatiens by Jannary 28th, to the Honse Governor.
BOURNEMOUTE FRIENDLY SOCIETIES MEDICAL ASSOCIATION.Reaideat Medical Officer. Salary, £200 per annimm, with residence and fees. Applications to Mr. F. A. K. Hounseth, Trinity Chambers, Bournemouth.
BRIGHTON, HOVE, AND PRESTON DISPENSARY.-Two House-Surgeona. Salary, むll40 per annum, with apartments, etc. Applications hy January 3Ist to the Assistant Secretary.
BRISTOR ROYAL INFIRMARY.-Dental Surgeon. Applications by February 18th, to the Secretary.
CLAPHAM GENERAL DISPENSARY. - Medical Officer. Application by February 3rd, to the Honorary Secretary, 42, Manor Street, Clapham.
DOWNPATRICK UNION.-Medical Officer, Killyleagh Dispensary. Silary, £I05 per annum and feea. Applications to Jr. James Heron, Tullyvery House, Hosorary Seeretary. Election on January 30th.
DURHAM UNION. - Medieal Officer of Heslth. Salary, £I00 per annum. Applications by February 3rd to the Clerk.
OREST HILL PROVIDENT DISPENSARY.-Medical Officer. Applications by February 15th to F. J. Marriatt, Esq., 2, Perry Villas, Perry Vale, Forest Hill, S.E.
MENSTON ASILUM, near Leeds.-Medical Superiateadent. Salary, £400 per annum, with beard and residence. Applicationa by Fehruary 15th, to W. L. Williams, Esq., West Riding solicitor, Wakefield.
NATIONAL DENTAL HOSPITAL, Great Portland Strect, W.-Anxsthetist. Applications hy January 27 th to the Secretary.
NATIONAL DESTAL HOSPITAL, Great Portland Street, W.-Honse-Surgeon. Applications by January 27th, to the Secretary.
NORTH.WEST LONDON HOSPITAL, Kentish TOWn Road.-Assistant-PhJsician. Applications by February 10th to the Secretary,
ROYAL NATIONAL HOSPITAL FOR CONSUMPTION, Febtuor.-Assistant Reaident Medical Officer. Applications to the Becretary, 34, Craven street, W.c.

ROYAL SURREY COUNTY HOSPITAL, GuildPord.-House-Surgenn. Salary, £so per annum, with board, etc. Applications by February 15th, to the Assistant Seeretary.
RUBERY HILL ASYLUM, Bromskrove, Worcester.-Clinical Assistant. Baard and residence. Applications to Dr. Lyle.
ST. JOHN'3 HOSPITAL FOR DISEASES OF THE SKIN, Leicester Square. Two Assistant Medical Officers, Applications by Februsry 8th, to the Secretary.
ST. MART'S HOSPITAL FOR WOMEN AND CHILDREN, Quay Street, Man. chester.-Honorary Snrgeon. Applications by February 10th, to tha Chair man of the Board.
WESTERN GENERAL DISPENSARY, Marylebone Road, N.W.-Junior DouseSurgeon. Salary, b0 guineas per annum, with residence. Applications by Febreary lat to the Sccretary.
YORK DISPENSARY.-Three Resident Medical Officers. Salary, £130 per annun, with furnished apartments, etc. Appplication to T. W. North, Esq., Micklegate, York.

## MEDICAL APPOINTMENTS.

Arnold, F. S., M. B., M.R.C.S., appaiated Honse.Surgaon to the Radeliffe Infirmary, Oxford, vice G. H. Redman, M.D, M.R.C.S., resigned.
Averill, C., M.R.O.S., I.S.A., appointed Senior House-Surgeon to the Maecles. fieId Intirmary.
Barton, G. l., appointed Senior Houae-Snrgeon to the Charing Cross Hospital.
Bedford, C. II., M.B , C.M., appointed Resident Menical Officer to Gesto Hos. pital, Isle of Skje, for tive months, vice Dr. MeNeill, granted leare or absence. Bennett, A. H., M.D.Edin., F.R.C.P.Lond., appointed Exauiner in Practice of Physic to the University of Edinhurgh, vice T. Barlow, M.D., F.R.C.P.Lond., whose term of aflice bas cxpired.
Bunton, Fred. W., M.R.C.S., L.R.J.E., appoiated Honse-Physician to Addenbrooke'z Hospital, Cambridge.
Cordeb, E. H., L.R.C.P., L.R.C.S.Edin., appointed Assistant Medical Offeer to the Worcester Amalgamated Friendly' Societies Modical Association.
Couateen, R., M.B., M.R.C.S.Eng., appointed Reaidect Medical Officer to the City of London Hospital for Diseases of the Chest, vice J. O. Harsant, M.B., B.S., resigued.

Cullinoworth, C. J., M.D., M.R.C. P., appointed Ohstatric Physician to St. Thomas's Hospital, vice H. Qervis, M.D., F.R.C. F., resigued.
Gosse, W., appointed Junior llouse-Surgeon to the Chariug Cross Hospital.
Hant, D. B., M.D., F.R.C.P. Fim., appointed Examiner in Midwifery to the University of Edinburgh, vice J. H. Croom, M.D., F.R.C.1'. Edin., whose terin of othice has expired.
Larcombr, S. S., appointed Senior House-Plissician to the Charing Cross Mospital.
Linowron, E. H., appointed Resident Obstetrical Offcer to the Chariag Croas Hospital.

Pranose, F:0., M.D., M.R.C.8., appointed Curator of the Pathologicat Mraseam to St. Genrge'a Hespltal, vice R. Sisley, M. B., M.R.C.S., reslgned.
Perkis, W. H., iun., Ph.D., appointed Examider in Chemiatry to the Unjversity of Ediphorgh, rice Dr. A. P. Aitlsen, whose term of office has expired.
Ssarc, E. A., appointed Jntior Honse-Physician to the Charing Cross Hospital.
Swabv-Smitri, C., M.R.C.P.Ed., M.R.C.S., etc., appoiated an Honorary Medica! Officer to the Brixton Dispensary.
Taylor, A. E., M.B., B.S.Lond., B.R.C.S.Eng, appointed Senior Sargeon to Ont Patieuts at the I'oplar Hospital for Accident.
Thackwelt, J. B., M. B. and C.M., appointed Medical Offeer for the parish of Portul, Isle of Skye, vice Dr. Ross, deceased.
Walkea, P. H., M. B., C.M., appointed Medical Officer and Pablic Vaccinator to the Faringdon Linion, vice J. B. Miller, M. B., C. M., resigned.
Welis, A. P., L.R.C.P., L.MT.Edit., appointed Medical Officer to the Bromley Linion, No. 5 District, vice A. Pıgentt, L.R C.P., L.M.Edin., deceased.
Whirwell, James Richard, M.B. and C.M.Edin., Hanonrs, appointed Fathologist to tha south Yorkshire Asylum, Wadsley, near Sheflield.
Wrnne, E. T., M.B., M.R.C.S., L.R.C.P., appopnted Reaident Clinical Assistant to the City of London Hospital for Discases of the Chest.

British Medical Beneyolent Fund. -The annual general meeting of subscribers to thia fund was held on Thursday, Janasry 12th, at the residence of the treasurer. The chair was taken by Dr. Janson, Chairman of Committee, and the first business which came before the meetiog was the election of a president, in place of Sir George Burrowe, Bart., M.D., F.R S., deceased. Dr. Broadbent, the Treasurer, proposed the election of Sir James Paget, Bart., F.R.S., an old aubscriber and warm frieod to the fand, and at the present time a vice-president and trustee. His distiognished advacacy of the claims of the fund, and the succossful outcome of his exertions at the celebration of the Jabilee, on which occasion he presided at the banquet, would be fresh in the minds of subscribers, and the committee would find it difficult to select a better president. This was seconded by Mr. J. F. France, J.P., also a rice.presideat, and carried unanimously. The Treasurer then presented his financial repert and the balance sheet for 1857. from which it appeared that in the donation department £TO\& 6s. 6d. had been received, and as subscriptions $£ 1,266$ 0s. 5 d ., together $\pm 1,9706 \mathrm{~s}$. 11 d . ; while returoed granta and other items made the income for the year $£ 2,1392 \mathrm{~s}$. On the other side, grants to 166 applicants had been made, amounting to $£ 1,79110 \mathrm{~s}$, and the expenses had reached the aum of $£ 13 \%$. There was a larger balance than usual at mittee had been held on December 2lst, and also the for of the comlecal secret ben held on December $2 l s t$, aod also that some of the year. In the anouity department the iarestments had realised $\mathrm{f1}, 23313 \mathrm{~s} 2 \mathrm{~d}$, and there was an item to be noticed in $£ 5,000$, daty free, by the executors of the late Sir Erasmus Wilson. The annaitants number 64, and the sum distributed smonnter $£ 1,260$, which distribation is carricd out by the Chairman of Committee, Dr. Jonson, the cost being very trifling considering the large number of instalments. The Report of the Committee noticed that the fund had laboured under some disadvantage, owing to the fact that a special effort had been made during 1886 , and also on account of the ceunter-attraction of Her Majesty's Jabilee. The income of the fund has thus somerhat fallen off, so that the money for disposal was often insnfficient, but it was hoped that the subscriptions
and donations duriag the coming year would show an iocreas anaintain the arerace improvement which show an iacrease, and maintain tho average improvement which had taken place up to the
preseat. In the preseat. In the committee, two vasancies had occurred which were
filled by the election of Drs. M. Baines and Cooper Roser matter of regret that there had been ao addition to the aumber a honorary local secretaries, a most useful portion of the machinery of this fuad, as, by their means the committes is onabled to anery of directly, and with the least ameunt of publicity, the bona fides of ain plicants in the country. Subscriptions to the fund to be speciap noted, were £21 from Sir Williana Jenner, f200 from Mr. Wiater, of Brighten, $£ 100$ from "A. O. A.," $£ 50$ from the Faculty of Physicians and Surgeons, Glasgow, through Sir G. H. Macleod, £25 from John Morgan, Esq., f21 frem Dr. Cumberbatch, £20 from Dr. Fraak, of Cannes. The death of Sir George Burrows, President, was felt as a oreat loss to the fund, which he had joined as a Member of Committee
in 1551 , becoming Fice. President in 1859 , and President in inuing to serve in that capacity in 1859, and President in 1869 , conof cighteen years. The characteristics of this fund are-mo institution
ders no salaries, no reut ; the only expenses being those for printion and postane, and a small commission to a collector. Applicants have only to sead in a form, authenticated by a subscriber, and two or three letters, one of which must have come from a medical man, when, if the case be otherwise suitable, a grant ia made at once, and diatributed either in one sum or by instalments, according to the judg.
ment of the committee ; then, if the applicant's age bo over 60, and his income low onough to justify it, the vamo is plaeed upon the list of candidates oligible for anouities, from which list annuitants aro selected twica a yesr as vacancios occur.

Society for Religy of Widows and Ormans of Mrmicab MEN. - A quarterly Court of Directurs of this Society was held on Wednesday, Jaouary 11th, Mr. Tegart, V.P.; io the chair. Two new mambers were elected, the deatha of five were reported, and tho resiguation of two others accepterl. Grants were nade to the amount of £1,402 10s., to 64 widows, 7 orphans, and 3 orphans ou the Copeland Fund. Aa a pulication was read for a grant from a widow for herself and two children, and assistance was givan. The oxpenses for the guarter wero 161 . A rosolution was passed expressing the deep regrat felt by the directors at the death of their late presideat, Sir George Burrows, and their grateful sense of the eminant services which ho hal rendered to tho Society during 85 gears in which he was a member of the Court, for 17 of which he was its president. The treasurer anoongced that the small sum of $£ 10$, left to the Society by its first secretary, Mr. Chamberlaine, now reached the desired amount of $£ 100$, and in accordance with the terms of the bequest, the interest world now be devoted to providing a frugal supper for the treasurer, auditors, and secretary, at the half.yearly audits.

Orstetrical Society of London. -The following are the namea of tho officers recommended by the Conncil for clection at the ensuing anninal meeting of the Society on Wedueday, February 1st, at 8 r.m.: President: John Williams, II.D. 'Fice-Presidents: * F. H. Champ. neys, M.A., M. B. ; W. F. Claveland, M.D. ; Robert Cory, M. D. ; C. J. Cullingwerth, M.D., Maychaster; W. Stephenson, M.D., Aberleon; -J. Licowslos Thornton, M. B., C.J. Treasiter: A. L. Galabin, M1. A.; M.D. Chairman of the Iioard for the Exumination of Midecives: J. Watt Black, 31. D. Honorary Sicrclaries: P'ercy Houlton, M. D. ; "Alban Doran. Honorary Librerian: " l'eter Horrocks, M.D. Other Members of Corncil: - R. Boxalt, M.D.; J. Mat!hews Duncae, M.D., F.R.S.; * TV. Duncan, M.D. ; A. T. Gibbings, M.D. ; W. S. A. Grifith, M.B. - F. P. Hallores, Redhill; * E. Hollings, M.D. ; J. B. Hurry, M.D., Reading ; Evan Jones, Abcrdare ; M. Handfietd-Jones, M.D. ; * A. F. Anst Lasrence, M. D., Clifton ; A. H. N. Tewers, M. D.; G. Lowe, linton-on-Trent: O. C. Maurice, M.D., Reading ; W. A. Meredith, M. B., C.M.; J. Phillips, B. A., M.B.; A. Ropier ; A. J. McC. Routh, M.D. Those gentlemen to whose names an asterisk is prefixed were not on the Conncil, or did not fill the asme office last year.

Matropolitan Hospital Sunpay Fund.-A meeting of the Council of tha Metropolitan Hospital Sunday Euad was held on Monday last at theMansion House, uader the presidency of the Lord Mayor. It was reported that the total amonat available for distribution, after alluwing anficiently for liabilities and the aogual cnerant expensea, was £is, 125 . Of this total $£ 37,525$ was now recommended to 107 hos pitals and 50 dispensaries. Four par cent. of the total collectod ( $£ 1,600$ ) had bean set apart for tho purchase of surgical appliances The committea acknowledged with thank the receipt from Mr. Hankey of a chequa for $\mathcal{E}^{2} 00$, being a further donation to the funds of the inatitution. The retiring members of the various committees, together with the oflicers of the juird, were then duly re elected.

The Small.pox Epidfyto at Sifefpield, - At a meeting of the guardians of tha Shetheld Union held on Monday last, it was decided to aproint a number of assistant officers to make a houso-to-house visitation with the riaw of ascertainiug the number of vaccinated and revaccinated persoas, and of peramading proplo to take all precautioas to prevent the appead of the disosse. Arrangements were made for the medical officors to attend at their respective centres as often a4 josaible, and in every way to facilitate rovaccination. Similar stens will be takea In the Kicclesall Union.

Tae mpathoiolitan Hospital.-At the annaal mecting of this charity, hehl on Monday last, roference, was unade to the great success wbieh had actomilud tho providopt department of the hespital since it had been openel in Xiovember last. In three months npwards of 300 books had been issted, representing, in round mumbers, 1,400 lives. Tha new houpital aftords accommidation for 160 beds, of Fhich 40 , placud in a saparata block, will ba roserved for members of Jewiah peramavion. An appeal is being mulo for fands towards the f 10,000 required angually to carty on the work of the charity.

Pbize Fisata on Medico-Lfibal, Subifctn.-The Medico-Legal Society of Sew York anoounces three pirizes of the valos of 100,75 , and 50 dollata respoctively, for the three beat essays on any anbject within the domain of modical jurispruleace or foreasic medicine. The essays are to be sent to the Presideut of the Socioty by April 1at, with a motto, the sathor's name baing sont under aeparate cover. Candi.
dates are required to join tho society as honerary, corresponding, or netive members. Further particulars way be obtainell from the l'resident, Clark Bell, Leq., 䀎, Breadway, New Jork.

The Extrrmination of liabbits.-M. J'astene's plar of exterminating rabbits by tho spread of foyl cholera has beon tried in a walled field near Rheims, whern both gnn and farrat had proved ineffectual. M. Loir, nophow of $\mathbf{~ M}$. Pastcur, went down and poured ou a truss of hay some broth full of the microbes of chicken cholera. The next day niuetoen dead rabbits were found, and two days later twelve more. In same of the burrows were diacovared familios of dead rabbits, and not one living rabbit has siace heen scen.

Fifth Congress of Polisif Pursicians and Mry of Subnct AT Lebmeng. -Towards the end of May, 1868, the Fifth Congress of Polish Physicians and Natural Scientists, together with a medicohygienic and scientific exhibition, will take place at Lemherg.

Neif Teachrrs in the Vienna Mehlcat, Faculty.-The following Doccnten have receatly heon appointed: Drs, Nensser (Medicine); Hochstetter (Anatomy) ; Koliske aud Paltauf (Pathologital Anatory) Ehrmann (Dermatology aod Syphilis); v. Hacker (Surgary); Unger and Friihwald (Diseases of Childrea).

Tue "holiday colonies" organised by the municipal authoritios of Paris have alreudy led to some interestiag observations as to the growth of children. The girls gained on the arerage 2 and tho boys $1 \frac{1}{3}$ kilogrammes in weight. They continued to increase in weight at a still greater rate for about a month after their return. The boys gained on the avarage 2 centimetres in chest-girth.

The will of Mr. John George Freach, F.R.C.S, Eng., of Cunning. ham Place, St. John's Wood, has been proved, the personalty being upwards of $£ 24,000$.

Charles Couper Criprs, M.D., B.S., M.R.C.S., has been arrarded the gold medal for the best essay presented at tho examinations for the degree of Doctor in Medicino of the University of Durbam during the year 1887 .

## meetings of societies during the

 NEXT, WEEK.
## monisav.

Medicar Sociemy of Lospon, 8.30 pam - Lettanmian Leetures, by Mr. Reginalit Harrison. Lecture III; The Operative Treatment of stone and Tumowrs of tha Bladder in Relation to some recent Viows and Practices.

## THITHIDA1.

Paakfs Musrum, 5 r.m.-Professer E. M. Crookshank: The Eistory and Present Fosition of the Germ Theory of Disease.

## FTEETBM:

 at \& fom. Mr. Perej Duna: 1. Iarge Hydatid Cyst of Isiver. 2. Secondary Denosit of Sclrrhne in Jiver. \$. Netastatic Abscess in IAver. Mr. C. H. 13. Keetley (President) will show two caves of Nerve Suthre. Dr. Herringham will show a case of Peripheral Neuritis. Pibers.-Dr. IRichard Paramore. On Inenmuia, Mr. Jonathan Hutchingon, jun.: Syphilitie Dis ease of the Liver aud Spleen aud its Synntoms.

## j;RTHS, Marriages, and deaths.

The charge for inerting announcements of Biths, Mfarriotges, and Drathe is ss, Gd, which sinuid be forumried in stamps with the announcement.

BIRTITS
$F^{2}$ bFTCHER - Jahuary 20th, ISSS, at Brthwfek, Uttoxeter, the wife of W. H. Fletcler, L. R.C.P., L. R.C.S., L.S.A., L.M., of a son.
Mymurlton-Gay:y. - On the 2 thh inst., at 68. St. Natthew'a Strect, Ipsiflch, the wife of E. II. Mjedrelton-Gavey, M.R.C.S.Eng., of a son.

MARRIASFS.
Herning-Rismor.-On Januny asth, at St. Mary"s Chmeh, Atherstonn, by Rer. James Jilwardz, John F. J Irrring, L. Rh. C.P., 1, R.C.S.E.lin., C. San. Scl. Cantab., to Ilettle, clarst daughter of the late Willam kishop, Esq, of Athetstona.
Srintit-Anvitang-nn the 2th inat., at Fendleton, Manchester, ho the Rev. J.

 younger damghter of Bendamln Armitage, Eng., of Choulea, Pendleton.

## OFATIIS

BonkFy. -On the 11th Inst., at the Termace, Devomport, Whliam Inhn Brownrleg【bonkey, shrgeon IR. .., aged 30, Reshent Medical Onleur of H. M. Duckyard, [ bovonjort.
Mafah, - On the lsth hnst, at 15, Fitziroy Squane, London, We, Lory Margh M.D M.R.O.P., nf 4 , Sackville Road, Hove, Brighton, aged 64 yearn

Jan. 29, 1888.]
THE BRITISH MEDICAL JOURNAL.

## OPERATION DAYS AT THE LONDON HOSPITALS.

 thalimic Dapartmeot); and Rogyl Westiminster Ophthaimia. P.M.: Matropolitin Free; St. Mark's; Oentral London Ophtbal mict ; Rosal Orthopredic; snd Hospital for Women. -2.30 P.M. Cheises Hospital for Women.
TUESDAP - - Aex. At. St. Sary


 London Ophthalmic. - 2.80 P. A.: West Londoa; Cancar Hopptas, Brompton. 4 P. K .: St. Tham St' (Ophthalmic Department). 10 A.s. ; Nationat Orthoppedic.- 10.30 A. M: : Roys Lond Lon Ophthalmice - 1 P.M. : Middeses. - 1.50 P.M. BE: Bartholomew'a St. Thomas's ; Royal Westminater Ophthsimle. - 2 P.M. Loodon; University Colle 20 ; Westmioster; Geest Northern Contral ; Oentral Loodon Ophtbalmic.-2.30 p.x.: Samaritan
 Free
r.M. Losples
King
B Collego.
THURSDAY -- 10.30 A.M. : Royal London Ophthalmic. - 1 P.,. : St. George' -1.30 p.M. : St. Bartholorew's (Ophthalluic Dapartmast); Ouys (Ophithalmic Department); Rosal Westminster Ophthat. mic.-2 2 p.x.: Charing Orass; ; Lourdon ; Oentral Lonidon Oph. thalmic ; Hospital for' Diseases of the Throat ; Hoapital. for
 Women.
 Roysi London Opbthalmic. - $1: 16$ p.u. $:$ St Geirge's (Ophthal
 thasmic.-2 p.x.: King's. Oollege; \$ Thomas' ,Ophthastrain Department); Captral London Ophithal Imic ; Royal south Lon. don Opit thalmle ; Exst IIoodon Hospitalifar Ơiildren.- -2.80 p.M. West Loodon.





## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Oanaina Crioss:-Mediral sad Sargical, delly, 1; Obstetrie, Tu. F., 1.s0; Bkin,

Gor's.- Medical and surgical, daily, 1.30 , Onatetric. M. Tn. F. F. 1.30 . Eye,





 1.. BA









 P., 1.30 ; Eye, M. Ti. Tb. F. 2 ; Ear, 8., 1.80 ; Skin, W., 1.45 s., 9.15 ; Throot, Th., 2.80 ; Dental, W., 10.30 .



## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Gominonioationg respecting editorlal instars shonld bs addresaed to the Editor, 420, Strand, W.O., Londoo; those concerning businese matters, non-delivery of the Journal, stc., Bhould be addressed to tha Manager, at the Offloe, 439, Strsad, W.O., London.-
Is order to avoid delay, it le particalarly requestod that all lettors on the editorlal busineas of the Joornal be addreased to the Editpr at the oflica of the Journar, sed not to hla private bonse.
AOTHORs desiring reprints of their articlee pablisbed in the Brimise medioal Joornal; ars requestod to onmmanicato beforshand. with the Manager, 429, Strand, W.
Ooracspondrents : Who wisn notice to be taken of thalr commanicatione, ebould antbentleate them with their names-of coaree not nacessarily for poblication. Oorarspondenty not baswered are requested to look to the Notices to Corre. spondeats of the following week.
Mastacrits porwarden to tex
Mantscrits porwardeo to tex Office of tais Journal cannot under any Circumstances be returned.
Public Health Depabtment. - We shail be mach obliged to Medical Offeera of Fealth if they will, on forwirding their Annual snd other Reports, fayour oe with Dutpliate Copries.
ct To Corapaponbenzs. Tat
Our correspoudenta ere reminded that prolizity is a great bar to publiostion, and; with tho constant pressure apon every department of the Jograsik, drevity of style and conciseness of ststement greatly facilitate earls insertion. Wie are compelled to retarn and hold over a great namber of communleations, chefly by reasan of their annecessary length.

## REEIRIES.

Caviri of Lead-Poisosisg. M.O.H. Writes : I should beglad if any of the readers of the Joursal conld clive infurtuation as to the likely source ot plumbisur in a ruraldistich ady cases. Beer Tater free from lean. 11 me-made n only one ins.etc. from different vendors: More men are affected than wornen, and to a greater extent. In no case is there any apparent cause.
amdillance Lectcres to Ladifs.
M.D. has been asked to give a course of ambalance lectares to a class of ladies. and wonld be glad to have a list of the works recommended for reference, guilance, and texthooks

* The best books for a ladies ambulance class sie: Firsi Aid to the Injured, translated from the German hy H.R.H. Princéss Christian; Accidenel Injuries, by James Cantlie.
M.D. Degree. Wanted.

Government Medical Officer writes: I ani a Licentiate of the Royal Colleges of Pbysicians and Surgeons of Edinhurgh, of five years stanlling; at present holding an appointment in one of $/$ ILer Majesty's colonies, and intend proceeding home to Eugland this year on ons year's leave.
1 am desirous of obtaming a Britisb university degree (M.D., if pnssible) Cax I do so in the time (one year)? Perhsps some of your readers would inform me, If sn, what universities, sad under wbat conditions? 1 should be willing to put if sn, what universities,
in one year's residence.

SPRAF DIPFTHER
W.R.M. asks to be recommended a spray diffoser for disinfecting uir in haspital wards, to he constantly going.

Softening Water
Dn. S. T. Gwinn (Whitchinch, Salop) aske whether there is a oy process by which the water supply of a moderately large house in the country can be softened, as it is clone by Clarke's method on a large scale?

Hatn-Washe
Membra asks for a prescription for a hair-wisb for falling out of hair after scarlet fever.

## ANSVERE.

Roman Catmolic Boarding Scbool
We are informed that M.S.C. may ohtain all the iofomation ho requires by com municatiog with M.A., Chester House, Cambridge.
F.RCSEUN:

Is reply ta s correspondent who asked whst were the best books to bo read for tbe final examination of the Fellowship of the Royal College of Surgeous of Edinhurgb, Mr. R. Deuison Pedley recommends for the general subjects Erichsen's Surgery, Cornil and Ravvier's Patholopy, Quain's or Gray's Anotomy, Heatb's Operative Surgery. For the special subjects, he.mmst choose for himself. Another correspoudent prefers Bell's Operntive Surgery. Maclachlan's surgionl Anatomy, correspoudent prefers Burgery. Optional subject. if Iuedicinc, Carter's Mericine.
M. Pastectis Treatarest of Hydeorbons
T.M.R. asks where he can obtaiu the best anthorative details of the experiments conducted by Pasteur, and his deluations therefrom pn the subject of rabics with a viaw to prepriag a laper to be residt a Sistural scicpee soclety.
is Ia preparioz such a paper, our correspondent would do well to maske bimself acquaintel with DI. Yasteur's previons work in tbo same direction. This may be conveniently' studied in the sriticie "Attenuation, "prepared by Dr. Dawson Whllams, for Mr. Watson Cheyue's Micro-Parasites in Disease (New Sydenhani Society, $18 \$ 6$ ). This article coutains the earlier work on bydrophobia. The report of the Committee on Hydropholiar appointed by the Local Government Board, contains a review of M. Pasteur's iavestigations on hydrophobia, with skatistics to a later dste.

## NOTEG, LETTEILN, ETC.

Ileragarimoditisu or ETrobbama
 esid with interest the case of hermarthoulitism, reposted io the Journat of Jannary $14 t h$, $f$. 11 , and donbt whether the being sa lescribed is a trne herzaphrodite, as I am scuptic.il as to, the existence of such freaks of Sature in the human spectics. A trup hermaphodite would possess the organs of gencration of both sexes-wonld, in fact, he "bi-sextial, having is peuls and testicles toin or bertle semen coutsinints spermatozoa; and alsó massession capsole of secreting rersele diechargiog ora cansble of fecundation pas an a vagitus, uterus, aud ovareparted casies of hormaphroditism are hy 1 an in clined to the belief that reported cases of herman phroducm are hy pospadiaz.of yarious extent, aud fail to see if the reporf, any erince that Dr. Lukomsky. case was aoy other than an aggrayated, case of caat deyerfitiou. Bur what crideuce of the fumale sex thes Dr. Likousky rephet? Merely an opeuing in the perineun, which correspouds to the ragins, with a short urethra, the ins of tbe openiug corresponding to tue labia minora and majora. But have the avaries and uterus becu rasdo out? Mas "şhe" ever menstriated? Has "shen a female pelvis or well derelnyed breasts? mere is no positive eridence of these feminine characteristics; sind the mere existence of a perioenl dpeating is not physiological evideace of the
female aex. But, no the contrary, moch an opening must exint in males in certalo cases of bypompadias, for anrmally in the malo the genital farrownad folds olose at the third or fourth month of firtal life to form the apongy portion of the arethrs and the acrotam; but in the ferasle they remain open snd form the orifice of the vapina and tho labla majnyanat minara. If, therefore, a male ho andevoloped and left in the coniltion on hypospadins, if tho furrow does ant develop to form the apongy urethra, and the urethra atops short st the menhranous portion, there is nf necessity a clof involving to s grenter or less extent a separaton of the lateral halves of the urethra and acrotum, or even jueriocura, and fiving rise to an sppearance rescmbling tho valva. Ia his the condition of and civing rise to an sp
Dr. Lukomsky's case?
On the other hand, what are the evidonces of the male gex and of hypospadias? 1. A penis, minall, withont urethra or urethral orifice. 2. Complete ercetion of jenia daring sexual excitemeat. 3. Two teaticies of size of pigeon's eggs io serotum. 4. During coltion with wonien a whitsh luld is ejaculsted thrnugh the vaginal (perineal) slit. b. Uther evilences of mals sex: Powerfully built absence of rounded contour seen in women; hair on lip and chin ; voice rongh and deep; Adsm's apple prominent ; ill-developed brensts; male confgaration of pelvin ; absence nt nicantruation ; fonduess for male oceupations. The closure or nonclonsure of the median raphé must be s source of grest perplexity in hypospadiar, for the male orgaos must of necessity closely resemble those of a female, the smallnesa of the pernis and the alisence of the penile urethra, aspecially it the halvera ot the urothra and scrotum be soparated, adding to the dimenlty. In ans such casc, a sarch per rectum should be made for the oraries and uterns, and confrmed hy means of aterine sonad, for these, of course, if found, are prsitive proof of the feminitue qualities. In Dr. Litsomsky's case no sach examination is reported, sud their sbsonce is negative evidence of the femate part of the "heing.
On the other hsod, we have positive evidence of the male aex in the existence In tho acroturn of two testicles, whose tunction appors to be sctive, even if imperfect, as proved by the ejaculation of a whitish flaid per urethram during coltion with women.
The azintenco of a perineal opeaing is not, to my mind, positivo evidence of either one sox or the other, and, apart from that fact, the evidences of the male sex preponderste.
A similar case was reported in the Jounval of July 9th, 185\%, ander the title of "A Sexloss Boing." which I at the line conatdered was a case of hypo. apadias, but not haviog the Jounsal st hand I cannot just now refer to it.

SUNSHINE AT UNDERCLIFF (ISLE OF Wioht) ANB KEw in $185^{\circ}$.
Ma. J. B. Martin (Ventnor) henda ua the following:-
Monthly Summary of Clear Sunshine at the Underclif, Compared with the Record at Kroo during 1987

|  |  |  | Und | 1887 <br> clitr. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Hs. | 3 s . |  | Ils. | Ms. |
| January | -. |  | 52 | 35 | .. | 35 |  |
| Fehruery | . | . | 52 | 10 | . | 43 | 30 |
| March | . | . | 184 | 33 | - | 125 | - |
| April | . | . | 231 | 25 | - | 157 | - |
| M8y | . | . | 186 | 55 | . | 191 | - |
| June | $\cdots$ | ', | 255 | 85 | . | 260 | - |
| July | . | . | 234 | 9 | . | 251 |  |
| August | . | . | 308 | 3. | . | 19 | - |
| Sopternber | - | .. | 150 | 8 |  | 158 | - |
| October | . | . | 131 | 45 |  | $9{ }^{\circ}$ |  |
| November | . | . | 78 | 22 |  | 68 | - |
| Deceraber | . | $\cdots$ | 42 | - | . | 95 | - |
|  |  |  | ,916 | 16 |  | 1,570 | 30 |

The foregoing tables contain the record only of clear sunshine, and do not include days which might otherwiso come under the thead of hright eunay daya, hazo, mist, or the pasalag of a light cloud sresting the power of the recording inatramenta.

With regard to the Underclff, some allowance must alao be made in consequence of its falling into shade between six and seven oclock in the evening quence the tammer months, depriving the instrament of a considerable smoung of sunshine which would otherwise be recorded in fine weather. There is alao the same loss from the avo rising in the morning behlad the high gronad of Lunnose.
The excess of clear sunabine daring $169 \%$ has been very remsrkable at the Undercliff.

## 1852 1883 1884 1855 1856 <br> 1857

| Undcreliff. |  |
| :---: | :---: |
| 114. | Mn. |
| 1,709 | 18 |
| .. 1,694 | 24 |
| .. 1,58] | 8 |
| .. 1,004 | 12 |
| .. 1,674 | 10 |
| .. 1,916 | 16 |


| Kew. |  |
| :---: | :---: |
| II\%. | Mr. |
| 1,144 | - |
| 1,470 |  |
| 1,311 | 30 |
| 1,176 | 30 |
| 1,415 |  |
| 1,579 | 80 |

COMMUNICATIONS, LETTERS, etc., have been recelved from:
Surgeon Hickman, Chatham ; Dr. F. II MIalen, Dowdon ; Mr. W. J. M. Fletcher, Ultozcter; Mr. W. H. Stevena, Droltwich; Mr. F. II. Davia, Dawley ; Dr. A. Sandherg, London; Mr. S. T. Decble, Matlock Brddge; Dr. J. Hard Wood, Leatherhead; The Rev. H. E. Ifenden, Rothbury; Mr. R. Margh, Hove; Mr. G.S. Blgg, Dover; Dr. Clippinglale, London; Mr. A. Goullet, London; Dr. Hobman, Harrogate; Mr. H. Page, London; Mr. R. W. Harke, Jnbhalpore India; Mr. W. A. Ellin, Iondon; Slr Morell Mackenzie, London; Mr. C. G. Wheethousc, Ieed, ; Dr. Sorman Kerr, London; Mr. E. Danlell, London; J. P. Ilonry, M.B., Dublin; Dr. P. Hrowa, Bradford ; Mr. E., Dillway, Cholmaford; Mr. C. B. Kectley, London; Mr. A. J. Johnaton, Liverpool; Mr. G. 8. Johmson, Inndon; Mr. J. Brawn, Whitchurch; Mr. 16. J. Petloy, London: Dr. C. Swaby Smith, London; Mir. J. Wright, $\Delta$ berdeen; Dr. F. Fitch, Kidderminater; Mr. A. Clay, Birmlugham; Mesars. Strent bud Con, Loadoa; Mr. H. K. Lewin, Londan; Mr. W. Powter, London; Mespra, Watkina and Ormond London; Mesara. Thomes Chriaty and Cn , Imadon; Mr. G.
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## BOOKS, ETO., RECEIVED.

The Yenr-Book of Trestment for 18s8; Diseasen of the Breasto By Thomas Bryant, F.R.C.S. London, Paris, New York, and Melbourne: Cassoll and Co.
Hospiltal Prayer Book, Containing Prayers for Daily and Occasional Uisc. Arranged by E. J. Waring, C.l.E., M.D. Second Edition. London: J. and A. Churchil:

Gout, and Its Relstion to Discase of the Liver and Kidneya. By Robson Roose M.D. Fiflh Edition. London: H. K. Lewia.

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# AN ADDRESS <br> DIPHTHERITIC AND RELATED FORMS OF PARALYSIS. 

Read before the Thames Jalley Branrh.

Br J. S. BRISTOWE, M.D., LL.D., F.R.C.P., F.R.S.,
Senfor Physician to St. Thomas's Mospital.
Diphtheritic paralysis is so interesting in itself, and has such interesting clinical relations with other paralytic affections, that 1 need make no apology for introducing it for discussion, or for plunging at once in medias res ly giving brief details of a very instructive caso of it which was under my care some years ago.

Care 1.-II. A., a clergyman, aged 36, came into St. Thomas's Hospital on November 6th, 1879. Ite had had in the previous June a bad sore-throat, attended with enlargement of the glands behind the left angle of the jars. But, althongh he had felt feverish and ill, he had not cousulted any medical man, and could therefore give no trustworthy information as to the nature of his attack. Doubtless he had then suffered from diphtheria. The first evidences of paralysis had shown themselves early in October, and were impairment in the quality of his voice and a tendency for fluids when being swallowed to return by the nose. Towards the end of the month he had further observed that he was getting weak in the legs, that he had numbness in the tips of the fingers and in both feet, and that there was loss of tactile sensation in the tongue and lips, and impairment of taste.

On admission he was a healthy-looking man, complaining of varions paralytic symptoms. The tips of his fingers were numb, but he had no obrious loss of power in the hands. His feet were numb, especially the left, so that he could scarcely feel the ground; and he walked with a feeble uncertain gait and with a tendency to fall over to one side. His eyesight would fail (words appearing misty) after reading for a minute or two ; and there was some degree of loss of accommodation, but the pupils were equal and contracted to light, and there was no squint. He had numbness of the lips, tip of the tongue, and point of the chin, and was unable to distinguish hetreen pepper, mustard, and salt placed on the tongue. The soft palate was pendulous, and did not contract when irritated; moreover, when he swnllowed, the food was apt to pass into the nose, and also to lag about the level of the thrroid cartilage. His voice was nasal. Smell was much impaired. In all other respects he seemed fairly well.

During the next ensuing ten days several changes in his condition were recorded; and careful special examinations were made. The anæsthesis in the fingers gradually disappeared, first on one side and then on the other; but while sensation was returning weakness of the fingers and hands eame on. The numbness became more profound in the feet, and extended up the legs, and the lower extremities grew weaker. At the same time he complained of pain and soreness in the feet. The numbness of the chin, lips, and tongue diminished, and he recovered to some oxtent taste and smell. His eyesight also improved, but his defective voice and deglutition continued. It was about this time also that he complained of numbness of the tip of the nose, of the glans penis and serntum, and about the anus, and also that he was unable to strain at stonl, owing to the fact that during the effint the air imprisoned in the chest escaped explosively through the rima glottidis. Nr. Nettleship's examination confirmed the fact that there was weakness of accommodation in the eyes, but that they were otherwise healthy. Dr. Kilner ascertained that there was some impairment of electric sensibility in both forearms and both hands, increasing from above downwards; but that the only arm-museles whose clectric contractility was impaired were the extensors of the first and second joints of the thumbs; that there was increasing loss of eleetric sensibility from the knees to the feet, where the strongest current could scarcely be felt; and that, while none of the muscles of the left leg below the knee responded to the induced current, the only"

It was chear (even fhongla a diphtheritic origin had heen (lenied) that the case was renlly one of hijhtheritic parnlysis, hat, in confirmation of tho viow that it roblil mut be due to itaxin. I may udel that the eyes were henlthy in all respects, and that there hat nuter bewl auy kastric, ractal, or urimary trouble, or lightning pains. She recovered.

About the time at whieh this pationt came under my notice, the alolition of the tenelon rutheres in diphtheritie paralysis was recognised also by of lar plysicinns: and since theat it has heen generally observed in this nffection, mul has come to be regardud as one of its distinctive fentures.

Lately. however, Dr. Derringham first, and subsequently Drs. Money and barlow, have shown that, although the tenelon retlexes In disappuar in those cuspos, their actual disuppearance is genernlly, if not always, preceded by a perioul of several days' duration, in which they bresented excessive briskness. The finct hat probably not been carlier recognised, because such pationts are apt tirst to conm within medienl observation only after the symptome have heen in cxistonce for a few days, and after the stage of exaggerated reflexes has passed.

The case l shall next narrates is interesting, because, not naly was there this exeess of tendon reflex, but it was maintained practically throughout the whole of the patient's illness. aml was ouly replaced by jts abolition nfter paralysis amel numbunsis lad tisapleared, dind the batient seemed to he in grod liealth.
('isf: III.- IV. O., a marrited woman, aged 29, came under my
 be guinsy in the previous December. Iler illness had legun with feverishnoss hud shivering; she limel had lumps in the neck; and her thront lat heon "covered with a sort of skin." She had recovered by (hristmas, but had continmed weak ever sinee. ller present illness had been coming on for two or three weeks. She hal first olnservol some dilliculty in swillowing; that, if she were not eareful, thids would return throngh her nose: and that often two or threo efforts had to be matle before evern solids could pass from the pharynx into the cesophogus. Suon afterwards she had observed rumbiness and pins and meelles in the fingers, and at the same time similar sensations across the upper lip. According to lims recollection, weakness of her ege's had eomo on a little later. This had comprised loss of distinct vision for near ohjeets, with inability to reas, amd some alogree of diplopia. A week or two hefore admission mumbness harl come on in the feet, with a feeling as if of treading on cutton wool; and the hands had become weak, but had since improved. Tha legs, which had been simi-. larly ntinekal somewhat later, had contimed to lose power. Her. friends hat notired some change in the quality of her voice ever since the beginning of monvalescener.

She was a wookly-looking person, complaining mainly of che fective sight for short distances, numbmess in the toes and finger tips, and inmbility to walk without nssistnnce. Jer eyes were in most respects normal ; lat the power of necommodation for near oljeets was impaired, and there was slight wenkness of lontb external recti, with double vision on lonking to the extreme right or left, or at distant nlojects in front of lorg. The facial muscles. the tongur, and the fauces appeared natural, and she swallowed withont difliculty; but her voler was still slightly nasul. There was no ahsolute unarathesia, but the tije of the fingers and the tous and the front of the left leg were alwiously numb. The grasp of the liands was ferble, and the movements of tho left arn generally wore relatively weak. She could move her legs freely: but in standing or walking (which she could only ron with nssistance) har knoes wree bwat an! inclined to give wos, and she tottered on them. Tho abdominal and thoracie argans were all healthy: Tho knee-jerks were mueh cxaggerated, the phantar reflexes were normal.

On Feberunry 21st it was noted that she complained of stiffness and a sense of twitehing in the left arm ; that the haud trembled when held nit, and espreially when carrying a glass of water to her lijes: and that the band and arm of this side remained weaker than their fellows: that there was slight horizontal nystagmus, anel still slight diplopia as at the time of admission. Also the left pupil was a little larger than the right. During the: next few days sles regained the power of accommolation, and lost her diplopia and nystagmus; morenver, the numbness disappeared from her tingers, and there whs some impropement in tho aensibility and strengtl of her Iower extrenuities. But the kneejerks enntinued unusually brisk.
()n Sarcll lat, she was able to standifor the firat time without
assistance, and with hur eyes shut; but the feet were still numb; the knee-jerks woro about normal. She contimued to improve, aut on the loth wis dischargel, apparently well. At this time she had no anesthesin or obvious loss of misseular power, but the kneo-jorks hat! beeome mueh less activo than on admisaion; nnd, were, if anything, lesa brisk than mítural.

I assumed that the ense would prove an exception th the rule with respect to the abolition of retlexes in diphtheritic paralysis. But the putinnt, whostill continued in somewhat weak general lealth, came ul perindienlly to seo me at the hospital for some few wecks after her dismissal, and to my surprise, the knee-jerks (although abparently she lind completely recovered from her sensory and motor paralysis) disappeared iosolutely at the end of a week or two, and lad not rethrned when sho llanlly ceased attendance.

Although as a general rule the paralytic phenomena of "liphtheria are remarkable for their tendeney to symmetry of distribution, as is illustrated in the foregoing eases, not merely by the eondition of the extremities, but alsn by the patches of anesthesia distributed along the middle line of the body; the symmetry is not, ahsolute; and already in two of the cases hints are sfforled that loen paralyses due to implication of singley nerves are likely to be met with. The next case illustrates this fuct.

Cisp IV.-Mr. S., a gentleman, alout 32 vears of age, lad had a sore-throat about a mont h hefore I saw him. He lind not heen sufficiently ill to lie up, and did not know le had had diphtherin, but had looked down his throat and seen a white patech on eacli tonsid. Within the previous week or two paralysis had been enming on, first in the left leg, then in the right leg, and later in the arms.

I saw him in consultation with Dr. Mennell, in April, 1884. At that time he was conflned to bed. Feeling was inpaired in his legs, from tho knees downmards; he had very little motor power at the knee-joints, and enuld scareely move the feet or tocs at all. the muscles helow the knees were tenter, and the tendon reflexes were absent. Ile hat numbness of the hands and forearms, and much impairment of museular power in them. Ile also hadnumbness of the upper lip, tipr of the tongtic, and in ' $\Omega$ elrethmscribed area at the back of the neek. He complnined of slight diffeulty of swallowing., and he presonted well-marked genesal paralysis of the left portio thra, which had only enme on within the previons two or three days. There was nn ahriens affection of 'the eyes, no dyspuren, un implication of thes reetum or bladder: and in all other respects he seemed healthy:" I did not see him agnin, hut learnt that he recovered perfectly in the course of a fow weoks.

- I add the following case, hecause it is typienl, and becanso it contains an exhaustive account of the electrical condition of tho paralysed museles by Dr, kilner.

Case r.-R. O., n school girl, aged 12, came under my care on Mareh 12th, 1883. In the midrles of December last sle had diphtherit and.was in bed for several days. This was followed by some diffienlty of swallowing (tluids especially returning through. the nosb): Jy loss of, visunl accommodation, so that slee could not see near objects distinctly: und, somew hat later, by loss of yower and numbness, tirst in thonams, and then in the legs. 'The museles of the trunk also beamu fceble, and before long her, wealiness grews so extreme that she mot only was confineal to hed, but could not even turn in bed. During the last month her fymptoms had greatly improved; she had recovered the power of swallowing and the use of lier eyes, and the paralysis in ler limbs hat diminisherl.

On nlmission she was a healthy-looking girl, She was unahle to stand, and anly able to flex the loge at the knee-joints. She could move ber arme pretty freely, but these limbs were ohvionsly much weaker than natural: and the hands. when extended, assumed a elaw-like form, the wriste dropping, the first phalanges being extended and thw last two plinlanges Ilexed. The museles were not noticeably wasted, hut they were limp, and dabby: "and there was a total absence of temdon reffexes in the arman and legs. But all the museles were iritable, and contracterl on being sharply struek. Sin luss uf frelling. No loss of entrol ofer the omunctories. There wny mo baralyia of the fnelal or oeular:museles; or of the palate, aml the ryas now ncteyd to acronmorlation- Thoracie and abdominal organs healthy, excepting that the urine presented a trach of albumen.

A feve tays after admission Dr. Kibner testerl electricalls the mureles of the: arms and lega, and fomm them generally
to present the rcactions of degeneration, ${ }^{2}$ The patient gradually improved, and Ieft the lospital at her own wish, before she was well, on April. 8 th; bit she could at that time walk with tottering gait, ond the patellar, tendon rellex was just ghowing itself in the left leg.
The foregoing cases are all of them typical, and afford between them excellent illustrations of most of the more inferesting incidents of, diphtheritic paralysis. They show how the affection comes, in soine littlo time usually a few weeks after, the achte ilness has subsided; how the paralysis (which involves sensory and motor nerves alike) tends to be of symmetrical distribution, to creep from part to part, and to subside in one region as it inyades another; how the sensory disturbances aro not limited to the extremities, but are ? apt to involve districts situated in the midalc line of the body, ineluding the tongue and mouth, and seases of taste and. smell ; how, also, the parilysis is liable to aftect not only arms, legs, respiratory muscles and muscles of the trunk, muscles of accommodation, and of swallowing, but also the racal cords, and even single nerves; how the tendom reflexes in the, legg are first exaggerated, then disappear, and the affected muscles acquire the characteristic reactions of degeneration; and how, finally, while, many of the phenomena are such as would acem to be best explained on the assumption that they, are due to spreading neuritis, others (such as the sensory affectious along the middle line, the early undue briskness, of the kuec-jerk, and nystagmus) scem rather due to some (spreading central lesion. I am inclined to believe that, in diphtheritic, paralysis, a wave, so to speak, of slight inflammatory mischief, sprends not only through the medulla oblongnta and cord, but along the nerve trunks also.
This bricf recapitulation leads mee on to speak of some af the diseases of the neryous system which present a respublance to diphtberitic paralysis, and may even, under certrin circumstances, be confounded sith it.
1 have-already shown how the associntion of numbiness in the feet, loss of voluntary paiter over the legs, and abolition of tendon reflexes (in a case which occurred when the condition of the tendon refiexes in diphtheritic paralysis, had scarcely begun to be inyestigated, and was: certainly not as yet generally known), led to the fear that symptoms, which were undoubtedly diphtheritic, might be due to tales. I do not think such mistakes can often be made now. Yet it is well to recollect-that paralysis in diphitheria often follows so mild an attack of the acute disorder, that the patient forgets to rolunteer any remark as to the previous occurrence of sore throat; and, on the other hand, that occasionally, in tabes, the paralytic symptoms are, or seem to be, of almost sudden
llut the cases most likely, 1 think, to be this misinterpreted are those of multiple neiritis of other, and especially, perbaps, alcoholic, origin. It will be recollected that the lady whose case wha thought to be one of tabes had been what is called a free lircr.
CAsf ym-On Novemher 19th, 1886, a policeman, aged 39, came under my care. He had beenis thoroughly healthy man, and had nexer hal syphilis, but, though he was not a drunkard, or even
(z) (a) With induced current a minch more, powerful current was required tó, chuee contraction than in herith; (b) with constant eurrent.


|  | 1Right | Leg. | l.eft | I.eg. |
| :---: | :---: | :---: | :---: | :---: |
| Qundriceps **...... | 2,800--1 | $3.040+$ | 2.200- 1 | -2.000t |
| Adductors ............ | $3.000-$ | $3.000 \div$ | $2.250-$ | $2.250+$ |
| Extensors of leg ... | $1.800 \%$ | $2.200+$ | Y 1.223- 1 | 1.825 + |
| Flexiors nf leg ...... | 1.800- | . $2.250+\rightarrow 0+$ | . $71.225-$ | $1.500+$ |

Normal reaction with constant eurrent,..... $1.500-3.500+$
in the ordinary sense of the term intemperate, it was ascertained, and admitted by himself, that for a long time lie lasi bern in the habit of taking a very large quantity of locer in the course of each day. Twenty-six days before (being at the time (quite well) he got repeatedly wet throngh, and was in wet clothes nearly the whole of the day. On the morrow he went to his work, but complained of sore-throat, aching pain in his limbs, romiting, diarrhoca, and general sense of illness. These symptoms seem to hare been the beginning of a severe attack of quinsy. which, first attacking one side and then the other, kept hin continuously; ill, but without any special change in his symptoms until June I Intho: On that day lac first complained of tingling in the arms and legs, attended with some loss of power; and, in fact, on trying to walk his knees yielded uider him, and he fell down. The miscular weakness increased upon him day by day, until, on the sixth day. of lis paralytic symptoms, he entered the hospital.

IIe was a spare, but well-built, and not mhealthy looking man; complaining of sore-throat and weakness in the arms and lug: The tonsils, especially the right, the soft palate, and urula were still swollen and congested. He complained of a sense of munlness and tingling in the hands, but comld feel. The grasp on both and although he could move his arms at the elbow and shaty forbe. joints, their motions could be arrested by the mere pressur finger. There was no numbness in the legs, but he complained of pain in them, and their movements were cxtremely defective. JIe could not raise them from the bed, thongh he could bend his leneses: his feet were extended, and he could not flex them. The muscles of the upper and lower extremities, and chiefly those of the forearms and hands, legs, and feet were exccedingly tender and irritable; the tendon reflexes were wholly absent.
The case was a very long one, and the patient remained contimuonsly under my care for the next nine montlas, and has lately again been a tenant of one of $m y$ hospital beds. The histors. lowever, can be summed up in a few sentences. The throat affection rapidly got well. The muscles of the upper and lower extremities, but mainly those of the forearms and legs, hands, aud feet, rapidly lost power, and wasted to an extraordinary degree. and rewained exceedingly tender. These conditions continued for the first few months of treatment, at the end of which time almost every trace of musele had disappenred from the parts above
specified; the forearms and specified; the forcarms and legs apparently at length consisting of them; the thenar and Inpothenar eminences and the being completely wasted, and the fingers bent so as to interossel hands a clawlike form: and the feet being in essentially the, condition, but extended at the ankles, while the toes were flexed into the soles. About the end of this time amendment began to rately good, began to recover the aspect of had only been modestrength. The muscular tenderness slowly disappeared, and and muscles of the upper arms and thighs began to regain bulk and power. Cnfortunately, however, no beneficial restoration of the muscles of the forearm, lege, hands, and feet followed; and (with the exception that a few fibres of the muscles of the hands, sufficient ondy to canse almost imperceptible flickering of some of the fingers. have, been spared) the distal parts of the limbs remain to the present. time as much emaciated, as absolutely roul of muscular tissuc. and as uscless as they were at the end of the acute stage of diseasc.

It may be added that, shortly after admission, the muscles of the trunk hecame weak, so that he could not turn in bed, but recovered comparatively carly; that the affected muscles soon showed the reactions of degeneration; and that the patient presented $n o$ other indications of nervous disorder besides those above detailed, and no evidence of the presence of any visceral disease.

I suppose it is arguahle that the case just cited was really ope of diphtheritic paral?sis. That view is one whichI considered and discarded. The following are the leasons which inflnenced me. I came to the conclusion from due inquiry that the patient $\alpha$ primary attack land been one of tonsillitis and not of diphtheria: the paralysis came on while the primary disease was still acute. instead of a few werks afterwards: nud the general symptoms and promess of the disease corresponded with what one generally observes in cases of that form of paralysis which his habits had fairly earmed for him. I have never kunmn of a case of diphtheritic paralysis in which (if the patient do not dic of it) whtimate recovery was not attained.
l quote one other ease of so-called "alcoholic " paralysis, becalse it presinted two features which bear some relation to phenomena, alanolserver in liphtlemitic parulysis-namely, Inss of power in the respiratory museles, and a curious kind of dillculty in swallowing.
Case vir.-The patient was a murtied woman, aged 2. whof came under my cane on sisplember int h, I886, and was discharged convalescent on duguse linh of the following year. She had indulged excrssively in drink, esprecially of ardent spirits, for some years, and had heen suffering from lass of appetitc. siekness, and incrensing weakness in the arms and lega for threo months. She was fairly well nourisherl. There was some degree of numbeness in loth aims and legs: the arms were? weak, and the weakurss increased towards the fingers, which could not be at raightened; the legs were so. feelle that she could not stand on them, or even raise them from the bed. IIer ankles were extendet, the toes flexed towarels the soles, noll she hat no power of moving them. The muscles of the forcarms and legs were exceedingly tender, emaciated. and irritabla, and the tendon reflexes were absent. There was also slight nystagmus. The symptoms were in progress at the date of admiscimo. and within a few days it ras found nut tlint slon had difliculty of breathing, liable to paroxysmal ageravation, and lifticulty in the swallowing of fluids. As regards the dyspmen, it was nliserved that there was a rapid expentiture of hrenth, so that she cond nuly utter a few words at a time. that sle lad complete paralysis of the dinphragm. sn that her breathing was wholly intercostal, and that slie was liable to attacks of sifforativecough (induced mainly by swallowing fluids), in which she became livid in the face, and seemed in serious danger of tying. She had no paralysis of the month or sott palate, her roice mas not nasal, and, as before stated, she could swallow solids without lifliculty: but whenever she took cren a mouthful of fluid. it was cjected within a few seconds with the Fomptoms of ehoking. She had no difficulty in carrving the fluid th the hack of the mouth, and performing the act of reglutition: and it was not until a second or two had elapsed after the performance of the latter act, until the fluid had presumably passed snmo distance along the cesophagus, that the ehoking came on,
that she coughed, anrl brought up with coughing the flnid she had swallowed. I confess I was puzzled to explain these attacks, and scuing that they dirl not occur until the swallowed fluid had had anyle time to rearh the lnwer eurl of the cesnulangus, 1 was inclind to associate throm with the diaplragmatic paralysis. The dangers which attenderl her paroxysmal attarks of choking and cough were manifestly due to the mechanical difficulty in the way of effective conghing, occasioned by the paralysis of the diaphragm.
The affection of the respiratory muscles and of swallowing, Thich had nnly come on recently, sulsided gradunlly and disappeared in the course of a ferr reeks. The numbness, wasting, and tenderness of the muscles bf the limbs increased progressively for snmo months; and then, after a perind of apparent quiescence, convalesecnce slowly tonk place. The arms improved, even while the disease was still in progress in the legs. When she left the houpital her general health was re-estublished; she had complete use of her upper extremities; and, although the morements at the ankles and knec joints remained much enfecbled, she could walk in clumsy fashion, but without assistance.
$I$ will troulle you with yet one ntluer case, not so much because it has any direct bearing no the subject of my paper, as becauso it thrntre suggest ive light on the diflienlty of swallowing which was ohserred in the last case, and shows howr a similar difficulty might have arisen in my first ensi, in which it will he recollected there was lnss of power in the laryngeal muscles and impairment of ecnsation in the lary ngeal mueong membrane.

Cise vitit--J. JI. A., n clerk, agerl 4t, was sent to me hy my colIngque, Dr. Semon, no Decembur Tht, iR\&G, Ile had liad syphilis ten yeara previonsa y, Enllowed hysecondary symptoms. But otherwisi her had had gond health up to March last, when he was dttacked with sore-throat, the mature of whieh remuins somewhat uncertain. Iloweyer, during its enntinuance, bo experienced some impairment of roice, and some diflicully in swallowing hoth fluids and snlids. When the soreness of throat har subsided, his roice was left impaircd, and he found that, although he could now swallow solids with perfect rase, fluids invariably eaused choking. After a time he placed himself under Dr. Semon's care, who recognised anme smal growtha below the rocal cards, and that thero was paralysis of the arytemnid muacle, in conarguener of which the
were bronght into apposition, arid a triangular chlánemained unelosed at the posterior extremity of tho rima glotidis. This fact? however, thongh it explained the, huskiness of roice, did not seem fully to explain the difficult $y$ in swallowing fluids: for in recorded erses of this form of pralysis such choking had seemingly not heen observed. The manner of cloking was very peculiar. There Was no doubt that the patient could swallow solids with perfect fredom. He could alsn, when drinking, perform the act of deglutition without any hitch. But invariably, within a second or two nfter a mouthful of lluid had been swallowed, and at a time, therefore. when it lad presumably passed beyond the larynx and reached the lower part of the cesophagns, he began to clioke, and prosently coughed up some of the swallowed fluid. The phenomena were just what might be expected to hapipeu, and what'r have mitnessal, when there is a communication betrreen the cesophagus and trachea. And I at first thotight that snch a communication existed in this case. That, however, was disproved for Mr. C. Evans, my house-physician, in my presence tested the suggestion, by feeding the patient with milk through an œesnpliagus tube, first pessed into the stomach, and then gradually withdrawn, and thus found that no choking occurred until the lower orillce of the tube reached the level of the darynx. He ascertained, also. on further examination, that there was distinct impairment of sensibility, and of reflex excitability in the laryngeal mucous membrane, more especinlly in the inter-arjtenioid fold-an observation which was confirmed by Dr. Semon.' The explanation of the choking was now clear: at least so it seemed to me. I assumed that. in consequence of the non-approximation of the arytenoid cartilages during deglutition, the portion of the laryngeal carity situated above the rocal cords remained' incompletely cut' off from the tube along which food was passing; that, in consequence of their ready diffusibility, fluids, while being urged onwards into the asophagus, were also driven through the inter-arytenoid chink into the space abore the rocal cords; and that actual choking was induced by this fluid remaining there up to the moment when the inspiration which naturally follows the act of swallowing sucked it into the windpipe. The obtuse sensibility of the mucous membrane of course explained the absence of irritation dite to the prescree of the foreign matter in this unwonted locality. I tested the truth of this lypothesis by making the patient drink, and hold his breath as long as he could after swallowing. And nlthough lie was apt tor choke after a time, even before he inspired, there was no donbt that, ly holding his breath, cloking was retarded, and that choking always came on, or was aggrave ted with the first in-
spiration. The most interesting confirmation of the trath of my spiration. The most interesting confirmation of the trath of my hypothesis, however, was furnished later. After he had left the hospitul and passed from under my care, he continued to attend as an out-patient of Dr. Semon's; who one day sent him up to me to show me how, though his paralysis remained, he had learnt to circumvent the difliculty in swallowing fluids. He had discorered that, when standing, and at the same time stopping so as to put his head between his legs, he could drink without difficult 5 ; Whereas still, if ho drank in the ordinary why, choking followed. I expressed my surprise at his having thought of this manouvre: when 1 was reminded that just prior to his leaving the hospital I had, in talking to him and to the stndents, romarked that, if his affection should not be cured, he would have to swallow (if he wanted to enjoy drink) while standing on his head; and thus learnt that he had simply put into proctice the suggestion I had half-jokingly made.: My reason for making the remark was that it seemed to me that if the pationt's choking were due to the inhalation of fluid accumbated above the vocal cords, it would be obviated if hy anymeans this fluid could he made to escape thence hefore the patient could draw a breath, and that if he stoed on his head while drinking. it would, from the effects of gravity, at once trickle hack into his mouth.
I In not know to what my alcololic pntient's difficulty in swallowing thuid was due, hut it was so exactly like that presented by the case just given, that I cannot doult that she also suffered from a combination of ansesthesia with some paralytic affection of the museles which cut off the communication between the osophagns nud larynx during the act of swallowing. I am sorry that his larynx was not examined at the time.

Dr. Komolo Griffisi died at Varese on January 9th, aged B3. He whs for somn years editor of the Annali Universalidi Medicina. and inok a loarling part in the management of everernd merical charities at Milan.

# LETTSOMIAN LECTURES SOME POINTS IN THE SURGERY OF THE URINARY ORGANS. 

Delivered before the Medical Society of London, January,1SSS. By REGINALD IIARRISON, F.R.C.S.<br>Surgeon to the Liverpool Royal Infirmary; and Lecturer on Clinical Surgery in the Victoria Uuirersity.

## Lecture III.-The Operative Treatment of Stone and Tumours of the Bladderin Relation to some Recent Vrews and Practices.

Tus surgery of the bladder during the last ten years will, under all circumstances, occupy a conspicuous position in the history of our art hy the introduction of litholapaxy, the revival of the suprapubic or high operation under somewhat altered conditions, and by an approach to a more sytematic method of treating tumours and growths connected with the interior of the viscus. It has been my privilege to watch the progress of these several procedures, not merely as a passive critic, but as an active participator with others in all the advantages these measures hare proposed to confer. Within the peried mentioned a vast amount of experience has already been obtained bearing upon these rarious proposals, and I think the time this evening cannot be better occupied than in drawing some conclusions in regard to them which seem to me may now be fairly and advantageously done ; and, in referring to these several procedures, I will endeavour; in speaking of each; to iudicate what appears to me to be their strong as well as their weak points, and to mhat extent our present experience tends to show they have justified the anticipations with which they were promulgated. In the course of these remarks I shall not trouble you with statistics relative to operative procedures, as I do not, attach much importance to them. It seems to me that in drawing conclusions from figures of this kind, gathered from rarious sources, we are putting ourselves much in the same position as the individual who, to make, sure about the weather, consults three different kinds of barometer, and is rewarded by finding them respectively indicating. at the same time "stormy;" "rain," and "very fine." From such variations as these most persons wrould be disposed to conclude, not that it was safe to go out without an umbrella, but that at least two of the instruments must in some respect be faulty. On the other hand, to the collective work of individuals carefully recorded, with all failures and ouccesses, the greatest importance is to be attached, as indicating not only results, but how these were obtained.

In the first place I will take a brief survey of the position that the, crushing operation seems to occupy at the present day. Since the procedure which is justly associated with the name of Dr. Bigelow, of Boston, was brought under notice, exactly ten years ago this month, it has been, applied to almost every condition under which stone in the hladder is met with in males, females, and children. Without entering into the history of the modern crushing operation for stone, or referring to discussions as to what led up to the importaut changes it represents, I think most persons will be iuclined to admit that the lithotrity of to-day occupies a rery different position compared with what it did ten years ago. At the latter there appeared to be a teudency to limit its application considerably, whereas now we have rather to fear its extension to conditions for which it could hardly have been intended. The removal of a stone at a single sitting, without leaving behind any cause cither for its reproduction or for cystitis, represented such a desirable combiuatiou of objects as at once to place the matter before surgcons in a light which it had not previously done. Let me stop for a moment to inquire how far this has been realised. In the case of stones of a moderate size, occurring in adults in other respects healthy, I think it will be generally admitted that to these lithotrity may now be applied with a degree of success which prior to this decade had uever been obtained in the history of either the cutting or crushing operatious. Nor can there le any doubt, exceptiug in children perhaps, that by far the larger number of stone cases requiring oneration occur under these
circumstances. But this, unfortunately, does not represent the whole truth, as lithotrity has and is being applied to a class of cases where the anticipations formed in reference to it in its most modern form have not been realised; and this brings me to notice what I would speak of as the weak side of this proceeding. In corroboration of this, let me read a passage from a recent address hy Mr. Cadge (ILunterian Lectures, Royal College of Surgeons, 1886). "Although," he obserres, "the immediate and direct mortality of lithotrity is small, the recurrence of stone is lamentably frequent. In my own list of 133 cases there were 18 in which recurrence one or more times took place, being about 1 in $\tau$. Sir Henry Thompson, with a much larger number of casea, gives about the same proportion. I am disposed to infer, howerer, that recurrence is more frequent than this, because it is not likely that all who get relapse apply to the same surgeon again. Patients may, and frequently do, apply to the same operator once or twice: but after a time they either apply to their own surgeon or they decline further treatment, and too often their subsequent history is one of painful endurance of chronic bladder disease and gradual exhaustion. If, moreover, there be added to the list those numerous cases of phosphatic deposit or concretions, so frequently noticed after lithotrity, the relapses would, I beliere, reach to nearly 20 per cent. This seems a heary indictment to bring against lithotrity, but I am afraid there is no gainsaying it; and, if so, it would be wrong to pass it over or to make light of it." Though, with a very much less experience of lithotrity than that to which I have just referred, I became impressed some years ago with the conviction that in certain cases we could do something more than merely remore the stone from the bladder.
It will, I believe, be generally admitted that the state of the interior of the bladder relative to its shape, its power of contraction, and the presence or absence of inflammation has, without being precise, a determining influence in the production of stome. In the majority of instances this is merely a matter of experience deduced from observation, whilst in not a few this tendency is not discovered until, as it were, the experiment of removing the stone by crushing and aspiration has been tried and failed. And, in commection with this observation, I think we have been rather too much disposed, if I may judge from a good deal of literature relative to this subject, to allow the physical properties of the stone to determine for us, as it were, the selection of the operation, irrespective of the relative conditions to which I have referred. Though a large hard stone is, as a rule, best treated by lithatomy, this by no means implies that some small and soft ones are the less advantageously remored by a similar proceeding.
Let me take, for instance, the case of a stone in the bladder occurring in an adult, with some chronic cystitis and enlargement of the prostate. The probabilities are that for many months, if we look at the section of such a stone after its removal, the bladder has been engaged in encasing it in a mould of phosphates just as completely as if it were done by plaster-of-Paris. Now is it reasonable to suppose that you can suddenly stop this stone-forming process without leaving behind any contributing cause for its cortinuance. In connection with the subject more particularly of prostatic hypertrophy, I hare examined a rery large number of bladders, and, having regard to the distarted or pouched condition of the riscus, which so frequently accompanies this change, as well as the condition of the macous membrane relative to the presence or absence of phosphatic deposit upon it, it has often struck me, not that lithotrity has its failures, but that, under these circumstances, its successes are so numerous.

Reflections such as these induced me, some rears ago. gradually to alter my mode of procedure in cases of this kind, where either it was clear that the stone was the effect rather than the cause of disease, or where this fact was demonstrated by the failure of lithotrity. I could not help feeling that the bladder, under these circumstances. was not unlike in many respects, a chronic abecesz with a stone in it, and that it was just as necessary to open and drain the one as the other. Let me briefly illustrate this by one of my earliest cases. It was that of a man of 60 years of age, who submitted to lithotrity on three occasions in two years, when large masses of phosphatic stone were readily remored. In the intervals between the operation, he never was free from vesical irritation. He could not empty his bladder completely without a catheter, the urine was more or less ammoniacal, aud, in spite of careful catheterism, he suffered much from urinary irritability. He had some degree of prostatic enlargement, and some pouching or sacculation. Two years after the first crushing, I performed lateral lithotomy for him, and remored mose phosphatic calcultis
of retont format inu: il put $n$ larga drainnge-tulve inta his bladder, nid ha was drdined and washael. for eight weeks, until le roided nomel acidiurine, when the tabe was removed, and the wound allowed to heal, which it did in the courso of a month. 'Ilhis patimut hus now lupaperfectly well for bver thrce yoars. 1 would refer to this and aimilar instances, unt ns leeing meruly examples of *recessful litliotomy, but of successful drainage.
-'huee years agn I brought this suhjeet (Annak of Aimrgery. Junc, 18xi) under the notice of the profession. and lescribed at length my mode of operating and of draining', and to these points I would now bridy directathention. So fur as the notbod of operating is concernce, my ohject has heen to remove the stone by suclir an incision as will permit the bladder to bo readily und elticiently drained; henco the proceeding stands much in the same light as evacuating matter from a ehronic abscess does to the important part of tho treatment lie drainage that is to follow.

In the performance of lithotony in cases of this description, my arm is to make a wound into the bladder which is not likely to close up hefore the interior of the viscus is ready for the reception aud continence of the urino. Ilenco I am an advecate for lateral lithotomy, which best fultils the cenditions that are required. But though the mode of opening the bladder is impartant, the:process of draining. Thero the condition of tho visens or of the parts above it is such as to ruquire this, is still more so! As, a rnie, cases of this hind recfuie druinage to bo continued from four to cight wreks. I have cirained them as long as ten weeks hefore the state of the bladder, as ovidenced by tho urine, was such as to allow the woand to heal hp. The drainare-tubes I cmplay for this purpose are larger than those which have beeu used temporarily by some surgens after lithotomy, and some care is requiced in fitting them to:each case. [Mr. Harrison sliowed some specimens of bis drain-age-tubes] By theiruse, with the exception, perhaps, of tho first furv dava after the operation, when some urine may escape by the sider I have been ahlo to keep patients absolutely dry during the while process of treatment, whilst, at the smme time, antiseptic dressings have been applied to the perinoum; but I da not attach much importance to the latter, so long as the urine drainage is perfoct.

Lut me illustrate this practica by another case of somewhat recenld date. It was that of a gentleman, 70 yenrs of age, who, for over four ycars had never passed one drop of urine except through n-catheter, and who lial for the last tro fears of this period a heolutely lived with the instrument in his hladder, both day and night. I examined lim in October last, and found that he had
stonc in his bladder, hut ono that I eould have quite easily removed iby.. crushing and "aspiration:" Hówever, in the presence of the symptoms mentioned. and ciilded by other aperience of the kinul\% to whicly I have referred. I elected to perfario porineal lithotomy, and to lrain. My colleague, Mr. Mitchell Banka, helal the staft for me, and I removed tbree uric acid calculi of moderate size, conted with phosphates. I made, as I usually do, a rery fre opming into tho neek of the blodder, and [wit in one df my lurgest-sized rrainage-tubes, with twa or threa suprafial autures in the wound to kcep it in position!. He was Grained cont inuousjy for riglitt weeks, when it was found, co-incidently with a much inareved state of the urine, that the latter was, aecasionally forced out spasmodically through the normal elamnel of the penis. The drainage-tube was then removed, and tbe wound allnwed to heal. Though the function of the bladder had been im abeyance for four years, he has now complete control over his urine, and can expel it sponta neausly without any asaistanco from the catheter, which he has entirnly discarded since the operation. At present ha has to pass liis urine mare freqnently than is desirable, o circumstance whiels is probably due to the empty state the hladder has been in ever since le commenced to use the catheter continumaly, day and night, two years ago. Notwithatanding this inconrenioned which, I believe, will improve in time, it is remarkable that tho bladder shonld liare entirely recovered its power after such a long period of inaction ns four yoars. IIad I crucherl, an 1 could have ensily and safely done in this crase, If fel sure that the power of the bladder would not have returned in the may that it has.

My friend, Atr. Cadge, in referring to rectarrences after lithotrity, seems th think that in the matter of treatment we are placed someswat on the horns of a dilemmn, that is to say, if we crush there is a considerable jrobability of the stone recurring; whercas, if we cut, we adopt is harsh proceeding, and one more immediately perilous to life. As I lave said hefore, I do not attach mancla importance to statistics, for putting aside what may
be due to the accidents of lithotomy, to which we are all more or less liable, ánill which frid really resphnible for no ineon iderable amount of the mort nifty following ths operation, the results will be largely deternined ly the attonding circumstances of the inUllwidual Gake If $n$ pitient'comded to be treatied for a stone in'his htadder with lilated ureters, and with; only abont one-fourth to one-tenth of his normal atoount of kidndy tissue, and the balance made up of pus carities, I do not think it, makes much mattcr what you do to relieve the suffering caused by the stone, as the result will be the same whetber you cat or crush. Patting cases of this kind aside as being entirely outcide the question, just as they are beyoud repnir, and taking instances where the only objection against lithotrity is that the atones are likely to return or have been praved to do se, I have not olserved that the perils of lithotomy are very great.
In analysing my experience of lithotomy, I canifefer to fifteen cases where the process of opening the bladder was followed by a. more or less pralonged system of drainage and irrigation, such as I bave just described. Of this number, three terminated fatally in the course of from tbree to five wecks, by reason of the far adranced suppurative condition the kidneys were in: This was considered as probable at the time of operation, and was: prored. by post-mortem examination. I had no desire to operate at all in these instances, but the patients were in such a painful condition that I had no alternative hut to do as they wished, and run my chance. Ilowever, as drainage was employed after the stones were remored, I must in fairness include them. - In addition to observing. the relief that was thus afforded to these persons, 1 would further remark bow importantly they illustrate the disastrous consequences that may ensue, when stone and cystitis are complicated with obstruction, or anything that interferes with the process of natural urine drainage, prior to the removal of the stone. In tro of these cases, there was some enlargement of the prostate, whilkt the third was complicated with an old urethral stricture. Further, they clearly point to the importance of drainnge as a necessary part of the process connected, with the remoral of some stones. The remaining twelve persons so treated recovered, and remain well, or didso up to the time that 1 had cognisance of them. I think I sliould be pretty sure to hear of them if they had any recurrence. Three of these cases had been preifiously treated by crushing, to'one of which I have alrendy referred more in detail. In determining how long it is necessary to continte the drainage, I nttach considerable importance to two points-first, to the cendition of the urine, and, secondly;' to certain muscular actions of the bladder, which become more apparent in those cases where atony pre-existed. So long as a paticnt goes on discharging ammoniacal or very purulent urine, so long must the drainage be continued, as to close tha bladder under these circumstances is certainly to fayour the reproduction of those local 'causes which contributed to the formation or growth of the stone. When the urine is becoming normal. one of tho earliest indications that the draiunge-tube may, be withdrawn is the voluntary, or, I should rather say, the spasmiodic, expulsion of urine along thie natural passage. After three or four weeks' drainnge, according to circumstances, I have illowed patients to get up for a little, and sit in a elanir, with a clip on the cdge of a drain-age-tube, directing them to remove it when they feel desirons of urinating. It is inder these circumstances that' urine is sometimes expelled indepenilently of the tube along the natural passage. This I lave found a sure indication that the power of the biadder will he restored in those instances where it had been lost to a greater or lesser legree. And it not only applics to cases where a stone is present as I have illustrated, but to others. This was evidenced in a remarkable way in the folld wing case, Thich much impressed me at the time, in refercince to what opening and druining nre capuble of doing. It was that of a man aged 68 , who was under iny care in the Royal Infirmary in 1883, for an atanied blatder and retention of urine, where the regular use of the catheter had become, in the course of time, extremely difficult by ruason of the nisatruction. After three weeks irial of rarious plank of treatment, I performed parineal cystotomy, divided the prostate, und phut in a druinnge-tube. This was worn for eight weckR, when it was neticed that n certain quantity of arine forced its way along the urethra. The tulbe was then withdrawn, and the wonud gradually closed. After this the patient mever had nny frrther dificulty in urinating, though the power of the bladder had heen entirely suspended for some months prior to the operation and drainage. Six months sulsequently ho was scized with hemiplegia, which confined him to bed for the rest of his life, but

I ascertained from his medical attendant, that it had never been found necessary ugain to make use of the catheter. Other cases of the kind might, 'bey addueed in's support! ;of the practice I amin now advocating:
In. two instances where the stones were very large 1 had tol divide both sides of the prostate. I could not help observing'that these cases made very rapid progress. It is of much importanice that. the wound should inrariably' be made clean and straight;'and that the relations of the parts be not unnecessarily disturbed with the finger, as thus pouclies are made in which urine may.lodge. II should also mention, that in ond case the progress towards ricovery: was somemhat retarded by two or three attacks of secondary hemorrhage, necessitating the use of a plug outside the drainagetrube. However, it was not sufficient to be of much importance. In another instance the patient had two or three slight attacks of orchitis, which was probably due to some imperfection in the drainage apparatus; where the prostnte is very irregular this may happen, unless care is taken in making the incisioninto the meck of the bladder.

In thege remarks I have thins endearoured to illustrate what appears to me to be the weak aspect of lithotrity, and what alter-native seems to me, from some practical experience specially directel towards this point, best adapted to meet the difficulty. Fortunately, $I$ believe these cases are not now so frcquent as they used to be, owing, no doubt, in a grent measure, to the better means we possess of detecting stone in the earlier periods of its formation, when it can bedealt with by crushing with the most complete success. To eliminate the cases which are not adapted for crushing is worthy; I am sure, of our most careful attention, and asa a contribution towards this I must ask you to 'accept these remarks.
Turning to another debatable point, I would refer to the application of lithotrity to male children. Some valuable records relating to this operation have been furnished by surgeons practising in Tndia, amongst whom I may mention Dr. Freyer and Dr. Keegan. The Intter gentieman has more particularly demonstrated the great success that may be obtained in boys by the crushing operation, and his testimony has been to a considerable extent corroborated by Mr. Walsham and other surgeons. Having regard to the great success of lithotomy in male children, I should not feel disposed to extend the crushing operation in this direction materially, except in the case of rery small stones. It has, 1 know, been alleged that lithotomy means emasculation, but I am not aware that sufficient proof of this has been afforded. If this were proved to be an occasional and unaroidable consequence, the reasons for crushing in boys would be materially strengthened fit
The suprapubic operation for stone otwes its recent revival.in a large measure to the obscrvations of Garson, the practice of TPetersen, of Kiel, and the adrocacy of Sir Henry. Thempsoni. The fact that the bladder is usnally uncovered by peritonenm immediately above the pulies has for a long period been rendered ayail able by surgeons for tapping with impunity in cascs of retention of urine. To increase this area, and to permit the wadder to, be opened and Istones removed without injuring or wounding the cavity of the peritoneum is the chief feature' in Petersen's method of performing the high operation. Since the introduction of this method of operating considerable discussion has been excited in reference to the circumstances under which .it is applicable, and much variety of opinion has been expressed. lif; however, we merely content oursel res with taking the experiences of surgcons where this measure has been practically tested, we sliall have no difficulty in determining its value.
In the first place I do not think that anyone would attempt the remotal of a very large stone from the bladder byiany other proceeding. We have already had several examples where large masses hare in this way been successfully removed; which; juduing from previous experiences of the kind, could not have been safely accomplished, even if it had heen possible to éffect their removal at all.' And this applies equally to some casce of distorted pelvis, where the outlet is so contracted as to render perimen lithotomy impossible. I should have been rery glad to have availed myseif of this method of operating in one of my earliest stone cases rome $t$ wenty years aco, where I performed Iateral lithotomy for a boy with his hip ankylosed in an extonded position.

In the second place, experience has already shown us that the suprapubic operation is well adapted for the removal of certain foreign lodies from the bladder more or less coated with pladisphates, wherc it is necessary that we should be able to sco as well as to feel, and direct what we are dcsirous of. doing. Perhaps one
of the best illustrations of this practice trill be found in accase recently recorded by Dr. Gillon. (Jourval, July 30th, 1887), where a penholder, over five inches in length, encrusted with phosphates, was: removed from the bladder of a man through a suprapubic incisien. Not only was the foreieg body extracted in this way, buti the operator was enabled to satisfy himself that no preffomtion of the biadder into the peritoneal cavity had occurred.

- Thirdy, the snprapubic incision may prove serviceable in wome, cases of'stone in the bladder complicated with a protruling prostate, where the removal of, some portion of the latter may ber further contemplated.
In the fourth place, the high operation will prove to many. practitioners an easier and, therefore; a safer access to the hladder than the lateral perineal ronte, and thus, fer this reason, and in the best interests of their patients, many will avail themeelves of it under almost all circumstances: Are not these sufficiont reasong for'finding a place in surgery for this method, irrespective of the value that most of us, 1 believe, still attach to perineal lithotony? 1 have nd belief in the decline of perineal lithotomy, as it seeme: to mento possess advantages as a ready means of entrance to, as well ns exit from, the bladder which no other methord pos-? sesses.
In the contraversy that has been recently raging in reference to the relative advantages of suprapubic and. perineal lithntomy, I cannot help thinking fliat minch of the difficulty which some have associated with lateral lithotomy, or Cheselden's operation, is, in a measure, due to a wrong conception of the way this operation should be performed. The point where it seems to me some surgeons are at rariance with the description laid nown by authorities on this subject is in reference to the employment of dilatation with thie finger as a means of entering the whadler. I contend thatisuch a process, whether there are grounds for its adoption, so far as the literature of the suhject is concerned, or not, is inot only uinnecessary, but dangerous. It is unnecessary. becanse the opening into the bladder can be safely made with the knife, , zufficient to permit of the finger being put, and not pushed, into the'riscus; it is dangerons, hecaise the risk is not inconsiderable of wrecking the operation by rupturing the urethra; especially in foung children, and by deatroying with the tinger the ratural relations of the parts. It is a misconception of this kind which alone imports an element of danger, so far as the mechanism of perineal lithotomy is concerned. Of the advantage that the latter operation affords as a means of draining the ladder I need not again speak.
But though, as 1 bave incidentally hinted, suprapubic cystotomy will probably commend itself to some practitioners, by the comparative facility with whicli it can be accomplishen, we must not be unmindful that experience has already shomn us that it. like other procedures having the same object, has its own difficulties and dangers. Instances have been recorded where'a weakened bladder, under the pressure of distension, has given way, and death has then followed; and similarly the rectum has suffered in a corresponding manner, but without producing any serions conseqnences. To most of us the simplicity and ease with which lateral lithotomy can usually be performed is such as strongly to prejudice us in its farour, in the absence of any special, reason to the contrary, as 1 have indicated. Still, oil the other hand, as 1 have already snid, there are places fur both the ligh and the loftr operations in the practice of surgery: which they can fill with relative adrantage, and withoif frar of clashing:
In the tast place, let me say a few words in reference to the treatment of tumours and growths connected with the interior of the bladder. And I wonld take this opportunity of acknowledging the important services Sir Heary Thompson has renderelt, in both adding to and applying our knowledge in reference to this subject. In snrreying the literature relating to the operative treatment of tumours of the bladder, and comparing it with zome little experience of my own in casces of this kind. it seems to indicate the great caution that is necessary in the sslection of cascs suitable for operation.
Malignant growths connected with the interior of the bladder are, I belicre, just as much beyond the reach of surgery as those which are occasionally seen involving the cavitr of the nose; I hare, in a few instances, opened the perineum and explored thecm with the finger, but, beyond giving vent to offensive urine, mixed with blood, and the debris from the growth, I cannot say that I have scen any permanent good fellow, and I am disposed to think with others they hid best be let alone. If exploration with the
finger from the prerineum indicates, by reason of the limited connections of she growth. the experliency of attempting its camplete removal, or if the mnss is considerable, the sunrapmic incision may with advnntage be procended with. The walue of the perineal incision for lirninage las alrendy been demonstrated in several instances of this kiud. Still, on tho whole, the less intravesical malignant growths are interfered with the better, so far ns concerns hoth the comfort and life of the patient. Of the curable forus of intravesical tumour of the bladeler, the simple papilloma or villous growth furnishes us with an example, and this las undoubtedly within the present decade been brought within the reach of surgery. In the cases of this kind where I have operated, I have Incur able to accomplislı all that I desired by a perineal incision. The collowing instances illustrate some of the difficulties connected with the dingnosis and treatment of tumours of the bladder. The first was that of a young man I saw in 1883, who Was auffering from hematuria, I opened his bladder from the beriueum, and removed a villous growth, which seemed to oceupy the orifice of the left ureter: he was tomporarily relieved, but in the course of a month he died of exhaustion in consequence. of repented nttacks of hnmaturia. After death, the left ureter was found dilated; the pelvis of the left kidney was also dilated, and coutnined $n$ villous growth resembling that which I had removed from the hilalder.

The other ease was that of a middle-aged man, who presented ull the symptoms of calculous pyelitis of the left kidney. The pain was so severe that I determined to open and explore the kidney, which I did in the early part of December, 1887 . I fonnd tho kidney not much larger than natural, but it was simply a hag "f pus. I could find no stone or other cause for the renal obstruction. The bladiler was oxamined, but nothing abnormal whs detected. The patient had a good deal of hæmaturia after the (nperation. Ile got gradually wenker, and died about four weeks after the operation. At a post-mortem examination, a small epitheliome of the bladder was found, which had completely occluded the left ureter, and had thus led to the disorganisation of the correaponding kidney. Such are illustrations of some of the difficulties which attend the diagnosis of tumours conneeted with the interior of the hladder; they certainly seem to indicate tho great caution that is necessary in coming to a conclusion that, their extirpation should be attempted.
I have now completed the task which you, in your kindness, have imposed upon me. It only remains for me to thank you for the patient and attentive hearing you have given me.

## 1 CASE OF CTRRIIOSIS OF THE LIVER,

witil chironic ceremral symptoms dependirg upon the
CIRCULATIUN IN THE blood OF digestive impurities. 2
Iy Datid drumaond, M.D.,
Physician to the Newcastle-on-Tyue Infirmary, etc.
I MAFE ventured to invito the attention of the members internated in the Medicine Section for a few moments to a case" which I confess puzzled me not a little when attempting to interpret ita clinical features. In addition to throwing some light upon certain nerrous phenomens that have giveu rise to difference? of upinion from time to time-I refer to some of the nerrous 'aymjutoma of acute yellow atrophy of the liver, so-called bilious atfacks, anil allied conditions-it exemplifies tho manner in which an organic lesion of one portion of tho economy may be responsible for symptoms refermble to another that practically mask and uveraladow those of the primary lesion; just as in winter the scion mistleton may usurp the importance of the apple by concealing with its evergreen leaves the naked branches of tho stock. I refret that the early history of the case I am about to relate is not as accurate as I could wish, owing to the fact that the phtient's inemory Tras considerahly impaired, and in consequence we recre dependent upon his wife, who lived at a distnuce, for the major portion of the detnils. It is also a matter of regret that than of the pnints were not more exhaustively worked ap: but wo are all wise after the event, and I suspect a post-mortem exanination surgesets to the minds of a gool many of us errors of

omission which good rosolutions prompt us to avoid in the
future.
J. W., agerl 39, a sailor, an American by birth, was admitted into the Neweastle-on-Tyne Infirmary on September 9 th, 1886. Il is Irevious history, as fur as it could be ascertained, was as follows. For eighteen yenrs he had sailed from English ports, and during that time he wns much exposed to malarial influences. chiefly in New Orlenns. There was no history of syphilis or of alcoholic excesses. Nine years previonsly he had suffered from a sovere attack of intermittent fever, and some time later was admitted into Guy's Ilospital for jaundice. On recovering he returned to sen, and remained in good health until the beginning of 1886, when lie began to complain of weakness, loss of appetite, etc. . He continued to perform his duty, though with difticulty. until February 2nd, when he was obliged to leave the ship on account of illness. On his return home his wife remarked that his skin was sallow, that he looked ill, and that his mental condition was altered. He was' fitful, for example, and was inclined to wander about the streets in an aimless way, which he did for two or three days, when an attack of excitement with delirinm oecurred, and it was with difficulty his friends could restrain him in bed; indeed he occasionally cluded their vigilance, and rushed into the streets in his nightshirt. For some weeks this condition continued, though the excitement became more controllable, and his mental state gradually improved.

On March 30th (1886) he was admitted into the Middlesbrough Infirmary, having presented himself in the first inatance as an out-patient for right inguinal hernia, when an enlargement of the spleen was detected. During his stay in the Middlesbrongh Infirmary, whielt was for upwards of four months, his apeech and sight were noticed to be impaired, and his mental condition peculiar: his memory was defective, and he was as a nule markedly apathetic, thongh occasionally emotional. The tendon jerk was increased in both arms and legs

Whilst under treatment in hospital his general health improved, but his nervous symptoms remained unaltered. Ile then returned home for some wreeks, when his wife found it very diffcult to manage him. He took a dislike to his children, and made free use of the most foul language, a practice that was foreign to him. He would lie for hours at a time taking no notico of the surroundings, and then break out into a state of wild excitement. He now rapidly becarue weaker, and at the same time more unmanageable, so that his wife was glad to transfer him to the Newcastle Infirmary.
On admisaion he was observed to be a dark-complexioned man, fairly well nourished, with a peenliar earthy sallow pallor of the akin, and looked older than his age. Il is speech was slow, drawling, and deliberate, and strongly suggested the speech of a general paralytic. His memory was decidedly weakened, though at times he appeared to have accurate glimpses of his past life. He was highly emotional, laughing or crying easily. The sclerotics were tinged yellow. The tongue was clean and was protruded tremulously; there was, however, no tremor of the lips. The arms shook on muscular exertion, as, for example, when be lifted a cup to his mouth. A similar tremor affected the head on sitting or 8tanding. The gait was unsteady, swaying, and tremulous. The tendon-jerk phenomenon was decidedly incroased in both upper and lower extremities. The plantar reflex was absent. The limbs were much stronger on the right side than tho left; in fact, there seemed to be a slight degree of left-sided hemiplegia. There was 110 anwsthesia, but, on the contrary, a certain degree of general lyperesthesia whs remarked. The spleen was considerably enlarged, rounded, and firm, and reached to the level of the umbilicus and to within an inch of the midelle line. The liver dulness was diminished. The urine was passed in considerable quantities, the daily amount being rather above the arerage, varying from 50 to 80 ounces in the twenty-four hours. It was the colour of Madcira, bright and clear, and contained more than a trace of bile, but no albumen or sugar. ${ }^{2}$ Several specimens were sent to Dr. Bedson, the I'rofessor of Chemistry in the College of Physical Science, who was asked to examine it for iron, und he kindly furnished me with tho following report:
"Several deterninations of the iron in the first sample of urine reccived in December, 1886, were made, and the most reliable give 38 milligramines of iron per litre. I had some trouble with thia sample, somo of the iron determinations appearing excesaively high.' The pecond samplo was examined two meeks later, and

[^17] oboorvatlon was not- berliged.
found to contain 39.6 milligrammes of iron per litre; this sample found to contain 39.6 milligrammes of iron per waitre; this sample for bile, and found to contain bile ncids. The third sample was received on December 23 rd, and was found to contain $10.3 \ddagger$ milligrammes of iron per litre. These amounts, expressed in grains per ounce are as follows:
\[

$$
\begin{aligned}
& \text { 1.-0.016 grains of iron per ounce. } \\
& 11 .-0.0173 \\
& 111 .-0.0045
\end{aligned}
$$
\]

"No. III represents, it would appear, the normal amount of iron found in the ash of urine, whilst in Cases I and II the amounts are between three and four times this quantity."
An examination of the hlood showed a diminntion in the number of red corpusclea; some appeared to be crescent-shaped, and many were below the average in aize. In a cubic millimetre there were $3,460,000$ red and 6,600 white, or about 1 white to 520 red corpuscles. There were no changes detected with the ophthalmoscope. For some weeks little or no alteration was apparent in his condition. He took food fairly well, and the bowels were opened regularly every day. The temperature and pulse maintained an even line of health, though as time wore on it was observed that the thermometer in the axilla seldom indicated more than $97.4^{\circ} \mathrm{F}$. in the morning. The nerrous symptoms gradually increased. The speech became less distinct, more drawling, and syllabic; the sight appeared to grow more and more dim; muscular power diminished generally, and inco-ordination increased, so that he found it impossible to stand or walk alone. His mental obliquity became more decided, and occasional attacks of excitement varied an otherwise monotonous state of helpless apathy. The bilious coloration of the skin dereloped slowly, and the urine became darker, though the aspect of the patient was more one of profound anæmia than jaundice.
The note on February 12th, 1887-five months after his admission to hospital, and some time after the diagnosis of cirrhosis of the liver was definitely made-is as follows:
Since last observation the patient has been going down the hill steadily; the speech is thicker, and even more suggestive of general paralysis. Is very drowsy, quiet, and inoffensive; the conjunctive are more deeply tinged. Ile trembles very much when he attempts to stand, and is quite unable to walk alone. No ascites. Liver dulness is reduced to one inch of dull area in the neighbourhood of the sixth interspace in the anterior axillary line. Well-marked systolic murmur in the tricuspid area. Temperature normal : pulse 70. Reffexes the same as before.
On February 24 th the nurse reported that during the previous few days she had observed that the patient had become more irritable and excited. He was now delirions and wildly excited; the pupils were dilated and fixed; the tongue was dry and brown.
On February 26th, as the delirium still continued, one-sixtieth of a grain of hyoscyamine was injected hypodermically, but with very little effect. Next day, spasmodic attacks, chiefly of the muscles of the back, arms, and face, were observed. During a spasm the back was arched (opisthotonos), and the mouth was twisted to the right side, and in the interval between these attacks; choreiform movements of the head, trunk, and limbs, with marked horizontal nystagmus, occurred. The urine now contained a considerable quantity of blood, and coarse crepitations were audible in the lungs. These irregular choreiform movements, affecting chiefly the legs and fingers, continued until Harch 9 th, when they subsided in great measure, and conaciousness partially returned. The jaundice was now pronounced, and, rapidly becoming more and more prostrated, he died on March 16 th, tifteen months from the date that was supposed to fix the origin of the symptoms.
Secropsy.-Rigor mortis prononnced; right leg oedematous: universal jaundice, though not of a deep tint.- Heart: Both ventricles dilated; the right contained a quantity of ante-mortem clot: aortic valves competent ; mitral and tricuspid orifices dilated, their valves normal. Lungs: Right adherent; lower Iohe congested and redematous; muco-pus exuded from the cut ends of the bronchial tubes; a number of patches of catarrlal pueumonia; the left lung presented similar appearances. Abdomen: No effusion; a large tortuous vein, the size of the middle finger, ran in the course of the round ligament of the liver, and, passing on to the right side of the abdominal wall, it descended, covered by peritoneum, in the position of the deep epigastric vein, to join the right external iliac just above Poupart's ligament. On tracing this alnormal vein down the round ligament, it was seen to enter the left branch of the portal about an inch from the bifurcation;
in fact, it was practically the direct continuation of the left division of this vein. The liver was small, granular, and décidedly cirrhotic. It weighed 40 ounces, and on section the suth gtance was seen to be groken up into small yellow islande or nodules, varying in size from a pin's head to a split pea. The larger branclies of the portal rein in the liver were filled with firm thood-clot (thrombosis). The gall-bladder contained abnut 2 ounces of thick, tar-like bile. The larger bile-ducts were not obstructed. The spleen was enlarged, and weighed 39 ounces. It was soft and pale, and a section discloser a large number of dilated reins. The trunk of the splenic rein was diated to about twice its normal size. The kidneys were slightly enlarged, but, beyond a somewhat adherent cnpsule, presented nothing abnormal. The bæmorrhoidal and oesophageal veins were much enlarged. The brain was pale, soft, and œedematous, but otherwise seemed quite healthy; the membranes, grey matter, and resscls showed no morbid changes.
The view taken of the case in the light of the post-mortem examination was that the cerebral symptoms resulted entirely from the poisonous effects of digestive impurities circulating in the brain. It was quite obrious that the portal blood entered almost directly into the syatemic circulation, without passing through the liver, and therefore was not subjected to the purifying influences of that organ, but passed at once to the brain, whose functions were consequently disturbed. The occurrence of nervous symptoms in the course of a case of hepatic cirrhosis is nn new obserration, but as a rule they have intervened towards the end of the case, and I am not aware of any cases entirely parallel with the one 1 hare just related, though Frerichs cites the case of a boy, aged 10 , who, along with cirrhosis, sufferèd from difficulty of speech, paralysis of the facial muscles, and general macular weakness, but without mental symptoms until shortly before death. Ile has observed, however, noisy delirium with spasmodic muscular contractions; and Dr. Hilton Fagge refers to a man with cirrhosis who lay for two or three weeks in a semi-comatose condition.
The symptoms in my case resembled very closely those of a case of general paralysis. The attacks of excitement, the tendency to melancholic depression, the slow, drawling speech, and the muscular inco-ordination furnished a picture that could not fail th suggest that disease. On the other hand, the noisy delirium and extreme restlessness tormards the termination of the case brought forcibly to one's mind the features of a case of acute yellow atrophy. The accessory portal vein running in the round ligament has been met with by Sappey, and Rindfleisch describes a case in which the portal blood passed direetly into the cava through a number of dilated anastomoses between the mesenteric and spermatic veins, but I am not aware that there is any record of the symptoms in these cases.

## ON ADDISON'S DISEASE AND THE FUNCTION OF THE SUPRARENAL BODIES. ${ }^{1}$

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No satisfactory explanation has yet heen given of the bronzing of the skin and of the peeuliar train of symptoms which frequently accompany disease of the suprareual bodies, and this is not surprising siuce anatomists and physiologists can give us no idea as to the function of these organs.
In this paner I hare collected certain bits of evidence which may help to adrance the inquiry a stage, even if my arguments should fail to convince the critical.
I propose to consider the subjeet under the following heals: 1, the comprative anatomy and development of the alrenals; 2, their plysiological chemistry; 3 , theories as to their func tion; 4, results of spectroscopic examination of the adrenals and of the urine iu Addison's disease; and 5 , teachings of rathology.
Comparatire Anstomy and Development of the Suprarewal Bodies-The great use of the adreuals in the life of animals is proved by their wide distribution among rertebrates: since they are found in mammals, birds, reptiles, amplibians, and fishes.
In fishes they lie on the auterior or posterior surface of the kinneys as small paired or multiple bodies, varying in size from that of a pin's liead to that of a bean (Eberth). ${ }^{2}$ In elasmobranche

[^18]Whey firtu it double row of houlies, arranged segmentally, lying pan han right and left of the verteloal columm, and cousist of in pheshLaitic and a syuphathetic part. They may he wanting in soupe tellemsemns, hut when present thoy sometimes represent tho med hmorjhosed anterior (lymphoid) part of the kidney, aud someinne urs clesely united with the kidneys. It is probable that in all vertebrates they ariso in connection with the pro- or meso, nephras (Wiedersheim).
In amphibians they form small yellowish granules, and lie wither on the veatral side (Anura) or on the inner side (Urodela) of the kidneys, recoiving their blood supply both in amphibians and reptiles from the reual-partal rein (Niedershein).
Ia reptiles the adremals are of a bright yellow colour, of an Nougated or lobulated form, and lie in close contact with the genital glnuls (Wiedersheim). In hatrachians, saurians, elhelonums, aud birds, the cortical and medullary substances are placed side ly side, in rounderl heaps or in branched cords or columns (Biberth).
Iu birls "the weblike arrangement of the branched cortical sud mealullary columns is still more distinctly marked" (Ebertl).
in mammals the rupraxeual of each side forms a definite and aniform mass, lying close to the eorresponding kidney, nod in it curtical substanco can alwnys be recognised, the two elemonts here being closely united together (Wiedersheim).
As we ascend the rertebrate scale the adrenals become gradually better developed; the sarue remark applies to the respiratory pigmeats lu fishes and amphilianss the muscle hæmoglohin, and the myohruatin are badly developed, in reptiles better, while iu birls and in mammals they reach their bighest point of. devejopmeat.
It is, not my intention to refer to all recent work, on the develepment of the adreanls. I will merely briefly zefer to Lalfour's researches on the development of the elarmoluranch fishes; they are well known. He showed that in these there are "(1) a series of paired bodies derived from the sympathetic ganglia, and (2) an unpaired hody of mesoblastic origin. In the armaiota these bodies unite to form the compound suprarenal bodies, the two constituents of which remain, however, distinct in their development. The mesoblastic constituent appears to form the cortical part of the adult suprareand body, and the nervous constituent the medullary part." Hitsukuri las confirmed Balfour's views by studying the developmeut of the adrenals of the rabbit nad the rat, and finds that the medullary part arises from the sympathetic ganglia, and the cortical part is of mesablastic origin ; the former at first, is outside the cortical part, but becomes gradually enclosed by it, but still retainiug some connection with the neighbouring ganglia. Hence We know that the bulle of the adrenul is not of nervous but of mesoblastic origin, for in the adult (mammal) the thinner parts of the organ consist entirely of cortical substance (Schaffer). ${ }^{7}$ so thut the adult suprarenal may be considered a glandularorgan.

Physiological Chmistry of the Adrenals.- Moppe-Seyler (Physiolayische (Chemie) shows that the mednlla of the adrenal contains a substance which ig easily changed (liy deconnpasition) after death, and betides allbuminous bodies, $\Omega$ substance which is coloured dark hhu to blackish green by ferric chloride; carmine-red by oxidising sulatances such as tincture of iodine, chloriae- or bromine-water; anil red ly the sub-chlorides of manganese; cobalt, and nickel. The watery extract assumes, by stnnding exposed to the air, especially if exposed to sunlight, a red colour. On oxtracting the alrenals with lilute bydrechloric acid, and alding ammonia to thoextract, a benutiful red colour is produced. The substance giving these colour changes is solublo in very dilute aquepus acid solutions, insoluble in ether, alcolol, chloroform, bisulphide of carlon and benzol: it has nat beeu isolated, and belongs, according to Virchow, to the duid bathing the tissue elements. [Krukenberg considers that several cliromogens are present in the adrenals. Clociz and Vulpian have found lippuric and taurocholic acids and calcium chloride in the adrenals of the sheep, and Seligsolin found benzoic acid nad taurin, the latter haviag also been found hy Holm. Kuilz found iassit in them. I think it is highly impro-

[^19]huble that these' constituents could lave found their way into the organ "by inabihitlon;" they must he preduced in the organ itgelf. If no a very active downward metubolism must bo taking placo there

Theories as to the Fiunction of the Adrenals.- The taxtbonks agree in stating that, we know nothing of the function of the adrenals. In Carpenter's Ihysiology (ninth edition, 1881) it is statel: "Although Brown-Sicquard. Found that nblation of the suprarenals whs founal uniformly fatal, yet others" -for "example, Phillipeaux-" have shown that this effect is rather netributable to hremorrhage und the uanroidable injury to the nervas, and especially to the semilunar ganglia, attendant upon the operation, than, ns Brown-SGquard believed, to the.retention of some poisonous substauco in the eireulation, which it is the office of those bodies to remore." IBut of late Tizzoni has produced brouizing of skin and macous membrave by artificially remoring the adreatals, so that the abore statement may be set aside. The idea that the adreanls are coneerned in the elaboration of nutrient material is negatived by the result of ehemical examinntion, and that of their being nervous ganglia by the results of recent studios on their development.
The view of Dr. Harley, lately supperted by Spannochi, that the adremals are merely persistent feetal struetures-even if true -Would prove nothing, nor add to our denowledge of their funcProfessor Wiedersheim, who says: "Their extraordinary richness in blood vessels, which is seen throughout life, points to the important function of these organs; but it is impossible to say at present what that function is." Besides, the distribution of tho lymphatics of the adrenals, which Klein bas studied, shows that these vessels must be concerned in carrying away some product of the metabolic activity of the gland, is hlein; indeed, assumes, a view reiceatly confirmed by Stilling. who shows that the pigment formed in the adrenals is carried awny by tho lymphatics to those lymplintic glands whichl lie along their path.
The fact that the adrenals are relatively large in foetal life-at the end of the third month as large ns the kidneys-proves nothing.. The thyroid gland is of relatively large sizo during fótal life also: and allthough a remnant "of one or more diverticula of the ventral wall of the pharynx or floor of the mouth," and "an ancient glandular organ," speaking from a phylogenetic point of view, "the secretory function of which in relation to the alimentary canal was of great importañe in the ancestors of existing vertebrates, ${ }^{\text {po }}$ yet we know it must. be of importance physiologically, for its atrophy from disease lor its -extirpation :surgicnlly lends to the production of myxaedema.
We ought not to lose sight nf the fnct that during foetal life the liver has to manufacturc red blood-corpuscles, nad as the adronal seem to be supplementary to the liver in one, at least, of its functions even in adult life, it may possibly be concemed in foetal lifu with the remnval of certain waste products instead of the liver.
Results of Spectroscopic Examination.- Whea carrying out an investigation of the spectra of the organs and tissues of vertehrates nud invertebrates, I came upon the interesting fact that the sliprarenals show the presence of the bands of homochromogen or reduced hematin, which I found to bo especially wellmarked in their medulla. In man, dog, eat, rabbit, rat, guineapig, ox, and sheep the result was practically thie same. Wherever I had previously detected hemochromogen in the fluids or organs of the body it hind beon exeretory. There was indeed one excup-tion-namely, in a bectle (Staphylinus olens): as its testes soem to contain this substance mixed with hemoglobin, but this faet does not bear on the matter under discission. In the liver ${ }^{12}$ and in the hile hamochromogen lad been detected previonsly by me; hence, when I found it in the adrenals, I coneluded that here also it must be excretory. Moreover, the appearance of tho spectra differed in some cases in such a manner as to lend me to conclude that the substanco which was being changed into hremochromogen was found in different stages of metabolism, and the bands of the latter were certainly made fainter when the blood-vessels of the animal were washed out with salt solution. I sulsequently feuad that it is lighly probable that not only homoglobin, but also the histohxmatins may furnish hemochromogen : and one frequently

[^20]can déteot a histohematin, especially in the cortical part of the adrenals. $i$ Henoe I drew the obvious conclusion that in the aclrenals a dowinward metamorphosis of worn-out pigmentshicmoglobins and the histohematins-is taking place, and the function of these organs is to pick ont of the circulation these wornout or effete colouring matters with their accompanying proteids: for if the coloured constituent be present, so also must the proteid; which together originally built up the molecule of a hamoglobin or a histohematin. If then the adrenals diselarge this function, we ought to find evidence of the presence in the excretions of incompletely metabolised pigments, when these pigmentmetabolising organs are unfitted by disease for the performanee of their function. Aud that is exactly, what is found. I have detected, by menns of the speetroseope, in the nrine of Addison's sequently, I changed its name to "urohæmatoporphyrin", sin subis a kind of hæmatoporphyrin." The urinary pigments traceable back to bile and hematin are two in number-namely, normal and febrile urobilin, but the above pigment is, as I have shown, produced only from hæmatin by the action of such reducing agents as zine and sulphuric acid and sodium amalgam. In the Journar for 1883 (December 1st) 1 showed that it occurs in the urine of acute rheumatism, but subsequent investigation, has convinced me that, it is present in various febrile conditions, and to sum the matter up, it may be said to be present in urine under or histohacmatin ${ }^{13}$ is present in the circulation, the blood-metabolising glands being healthy but incapable of dealing with the excess of effete, pigment ; or (2) when the nonount of effete pigments may be not in excess, bat the blood-metabolising, glands are diseased. In the urine of "cirrhosis of the liver, where the present, and in the urine of Modgkin's disease, when the skin had become bronzed, owing to disease of the adrenals, it has been
found. In a case of this kind Dr. Saundby actually labelled the specimen "úrohrmatin," suspecting its presence from what I had told him, and it was present. In Addison's disease 1 hare found it sereral times. In the later stages of that disense, when the blopd has'become deteriorated from the presence' $\ln$ ' it of various poisonous, products of incomplete metamorphosis of course twe may have to acknowledge two surces of this nrohamato-
porphyrin-namely, effete pigment present from disease of the adrenals, and effete pigment due to subsequent excessive destrudtion of the red blood-corpuscles. In many cases the simple addition of a mineral acid to the urine will bring out the bands of acid urohematoporphyrin; in other cases it way be necessary to precipitate the urime with neutral and basic acetate of lead, decompose the 'precipitate with rectined spirit acidulated" With acid urohæmatoporphyrin. Well marked, and from this it', can be isolated by agitation with 'ehloroform', as I hare elsewhere described. C:"Nobel has lately confirmed my conelisions with regard to this pigment, and proposes calling it "isohæmatoporphyrin." ${ }^{\text {"A }}$ Its presence, bowever, in the urine lends support of a substantial kind to my theory, and teaches that, other conditions being absent, it may be due to disense of the blobd-metabolising glands; and since in many; cases where 1 have found it the only glands disenised were the adrenals, these must be blood-metabollising glands.
The discovery by Krukenberg ${ }^{16}$ of the presence of prrocatechin, or in nearls related substance, in the alcolol extract of the adrenals of herbivorous animals, las led some to suppose that his results contradict mine. Krukenberg never said so, he only stated that it Was incomprebensible to him that 1 'should hare found hemochromogen in perfectly fresh organs, but he does not deny its occurrence. It must be remembered,' as 'Krukenberg himself 'says, that'several chromogens are present in the adrenals, and the one which Krukenberg, investigated was solible in alcohol, whereas hemochromogen is not. Possibly the adrenals of arnivora may

[^21]not contain pyrocatechin, for in the hlond sierum of herbivora and in their urine various "aromatic" - whbitances are present which. as Ifoppe-Seyler has shown, are pecaliarto them; hutevon if presert in the adrenals of flesh-eating animils, it would lend rupport in my theory. We know that otber aromatic bodias such as indol, skatol. kresol, etc., are produced from protelds ly the ection of ferments; and although putrefaction' seems necessary for the production of some, yet with our present knomledge we cannot say that they are not produced within the body in the absence of putrefaction; indeed, skatoll does not owe its increased producthon. in diabetics, in all probability, to putrefaction. Therefore, the presence of pyrocatechin in the adrenals would merely show that proteid metabolism is taking place there, which is one of the points I wish' to prove.

Teachings of Pathology and Gencrial:Summaty,-I do not proposs considering the question whether there is a specific disease of the adreual; such as at "strumons" or tuberculous condition' present in that class of cases known now as 'Addison's disease, or whether Dr. Addison wished after he had pablished his wiew's to narrow the pathology of that disease to disence of the sympathetic gangliar ${ }^{6}$, Beequse many believe with Virohow that the peculiar trainof symptoms with bronzing of the akin, -which are characteristic of Addison's' disease, miay be obrought ahout by variou 3 morbid conditions! of the adrenals, and a pervisal of recently rocorded casés 1 shows that rive. must extend oir view 80 as to include sueh morbid conditions. Nor should 1 eonsider the occurrence of diseased adremals without bronzing of the skin, or bronzing of thelskin without disease of these organs. an argument against the theory adopted here, because the adrenals being supplementary lorgans, other organs may do duty for them: to "a great extent, under certain unknown conditions. Besides! if 'Addison's disease were to-occur in a patlent in whom by previous disease the hrmoglobins and the histohæmatirs had been diminished in amoint,' we should not expect meet with much effete pigineut in that case. ${ }^{17}$. And even the adrenals are apparently healthy, we eannot always say whether there has not suff some interference with their nervous ormarterial supply sufficient to provent the discharge of their functions. Looking orer the recent liternture of thisisubject, one finds somét very corded by Dr. Wickham Legg, ${ }^{19}$ there were shortness of brease giddiness and romiting, bronzing of 'skin, and paroxysmo of feaver, In Monti"s ${ }^{33}$ case there 'were several febrite attacks' duringr: the course of the case, drowiness and heary sleeps, excitement delirium, and loss of consciousness, and death took place in a convalsion. In Rauachenbach's ${ }^{20}$ case there were rigors and "heat" at the beginning of the illness, restlessness, dehinim, and yrarous rerrous symptoms. "In Cacciola's? ${ }^{2!}$ casé febrile attacks Trere also noticed, and the patient became delirious before death, and died in a conrulsion.

In some of these cases the nervousisymptoms and the hyperthermia are very remarkable (especially as it has been said the temperature is subnormal in Addison's disease, which is ar very doubtful statementi), and these symptoms are explicable orily on the assumption that some toxic substance or substances must have been present in the lilood. That such is the case seems more than probable from the experiments of Foa and Pellacani, ${ }^{22}$ which have not met with the attention which they deserve. These observeriz infected an aqueous filtered extract from certain organs, nandely, the brain, the testis, and the adrenals, into the veins of rabbits, and found that death ensued, which was due to caagulation of the blood in the heart and lesser circulation. They proved that a fibrinogenous ferment; both chemically and physiologicallyactive, was present in the solutions, which is due not to the blood eirculating in these organs, nor to destruction of white compuscles in them, but to a substance present in the organs: and when the solntions injected were little active, marasmus was produced; from which the animal
died ${ }^{\dagger}+$ But aica. But liere is the most importañ 'result; they found that 16 Spe Dr. G alcohol extracts of the adrenalsi had a most toxic Dathoe. Groodhart's able summary in New 'Sydenham's Society's Allas of 186s; p 214.i
 11. of Edinburgh, the bauds were extrenely faint.
sell. of Ladin 1097 Med. Rec. xili
1s Lancet, June, 180, p. 102.. Med. Rec. 19 Archin fir Kinderheilkunde, Band vi, Ifeft. 4 .
19 Archiv fir Kinderhei
Gazer Mfed. Ital. Irov. Fouet. Nō 5, 1581: Giornale Interna-: dinle Sci. Med. Finsc, viii, 1834. 22 Arch. per. le Sc. Med., vii. $9,1883^{\circ}$; and Schmidt's Jahrbiucher, Band 210. 1886.
effect, an effect peculiar to the extracts of these organs. The poison present in the adrenals is more like an organic neid or a "ptomatin" in its netion; it paralyses the spinal cord, etc., nnd causes death by paralysing the "bulbar centre," and especially the respiratory centre. Is this, then, the product of proteid disintegration which it is the province of the adremals to piek out ef the circulation and metabolise into a hnrmaless substance, nnd which, when these organs are diseased, accumnlates in the hood, and produces nervous symptoms and hyperthermin; for Foa nad l'ellncuni found that it also produced increase of temperature?

We know that the poisonous alkaloids of nuimal origin, the ptomanines and leucomaines, ${ }^{23}$ nre products of "proteid disint egration." The poison of the adrenals is, however, probably neither the one nor the ather, but a nitrogenous, non-erystallisable substance akin to I'anum's septic poison; such bodies produce hyperthermia, whereas the ptomaines and leucomaines produce hypothermia. The bodies which are nearer proteids, or themselves of ${ }^{\text {a }}$ proteid nature, appear to be even more poisonous than their Iower metabolites. As is well known, Wooldridge ${ }^{24}$ obtained a proteid poison from serum which prevents shed blood from coagulating for several hours; and another proteid poison ${ }^{25}$ from the testis and thymus of the calf, which, injected into the blood vessels of an animal, causes instant death, due to wide-spread intrarascular clotting. Wolfenden, ${ }^{28}$ too, has shown that the poison of the Indian cobra (Niaja tripudians) and the Indian viper nre of a proteid nature.
The presence of urohæemntoporphyrin in the urine of Addison's disense led me to hope that 1 should find this or some other metabolite of hremoglobin in the skin of patients sufficiently bronzed for the examination, but in this I have been disappointed. Professor Victor Horsley and Dr. Dingley kindly procured some skin, and the latter some slate-coloured mucous membrne from the mouth, from patients suffering from Addison's disease: but although I detected traces of irou, I could not see any bands. But this is not surprising, seeing how quickly blood becomes altered in those situations.

Dr. Riehl ${ }^{27}$ and Dr. Ernest Kummer ${ }^{23}$ Lave made some observations on the distribution of pigment in the skin in these cases. Dr. Riehl concludes that the pigment is extracted from the blood -by the cutis cells, and that it is not produced in situ by metabolic processes in the cells of the rete; he also found thrombi in the blood vessels of the skin. Kummer confirmed these resnlts, and thinks that we may assume a disease of the bleod as a cause of Addison's disease. But it seems to me that the pigment primarily depoited in the skin is different in its origin from that denosited later, when the blood itself has become deteriorated from the pre-
sence in it of the products of incomplete metamorphosis sence in it of the products of incomplete metamorphosis. It is interesting to compare with Dr. Rieli's statement that of Wiedersheim ${ }^{20}$ on the pigmentation of the skin of lower vertebrates; he showa that the derma is permeated by leucocytes, especially in fishes. These leucocytes penetrate to the superficial layer of the epidermis, and carry pigment granules. Here they take on amoeboid movements, and break up into numerous small, pigment-containing particles, which are taken up ly the epithelial cells.
It would appear, then, that comparative anatomy and comparative embryology, physiological chemistry, the evidence supplied by the spectroseope and by pathology, all point to the same conclusion.

Just as there has been a progressive development of vertebrata in time, the fishes appearing in the upper silurian, the reptiles in the carboniferous, the birds in the triassic, and rammals in the jumssic, or eren in the triassic systems, ${ }^{30}$ so has there been a progressive duvelopment in their organs. As the animal body became more complex, and a greater nbundance of respirntory pigments had become necessary for internal and ordinary respiration, certain organe lad to lee set apart. or hat to take on a new function, in the increased "dirision of labonr." This function in the case of the adrenals was the removal from the circulation of useless and worn-out pigments and their accompanying proteids. ${ }^{31}$

[^22]When the adrenals are diseased, these effete pigments nod effete proteids circulate in the blood; tho former, or their incomplete metabolites, producing pigmentation of skin and inucous membrane, and appearing often in the urine as urolicmatoporphyrin; the latter producing toxic effects, and leading to further deterioration of the blood with its consequences.

NOTES ON A CASE OF TRAUMATIC EPILEPSY SUCCESSFULLY TREATED BY TREPHINING. ${ }^{1}$

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Two years and a half ago I admitted A. T., a boy aged I6 years, into the Newcastle-upon-Tyne Infirmary, suffering from fits. IIe was a healthy looking and well nourished lad, but somewhat of a reserved disposition. It appears that until four monthe before I saw him he had never had a day's illness, and the history I got wns as follows. On a certain day he joined some boye of his own age in the game of tug-of-war. When pulling with all their might, some of the boys: suddenly let go; and, as a consequence, the patient fell violently upon the side of his head upon the ground. For a few moments he was stunned, but he soon regained consciousness without romiting, and was able to go home apparently none the rorse for the injury. For ten days he was quito well. One morning, after getting out of bed and whilst in the act extremely sudden in its onset, without any prodromata, and was accompanied by unconscionsness. He was put to bed, and on regaining consciousness complained of pain in the right side of bis head. From that day he suffered from sereral fits daily-each series more severe than the preceding-and followed by an alteration in his disposition; moroseness and sullenness replacing a character previously noticed for its liveliness.

His father is a healthy man, his mother, though the subject of mitral stenosis, enjoys good health; one sister, at the age of 9 , suffered from fits which were regarded as epileptic, and which suddenly disappeared after a severe fall, which she had in her twelfth year, after the closure of an; extensive scalp wound, the consequence of the fall.

When I saw him, his one complaint, in addition to the fits, was sevcre pain localised over the right temporal bone, orer an area, an inch in diameter, located at a point almost midway between a line drawn from the outer angle of the right orbit to the ear, and about one inch and a holf superior to it. IIe could not bear any pressure applied to this point. Before, and immediately after a fit, the pain over this small localised area was increased in severity, but no fit was ever induced by pressure made upon it There was nothing to be seen or felt here, the skin was perfectly healthy, it had never been broken at the time of the fall. Whilst the fits were of a purely epileptic character, there are yet one or two points that call for attention. An aura was now felt before nearly all the fits, particularly those that hecame severe, and were accompanied by unconsciousness. He thought lee saw a cat. the picture of which was still present in his mind, even after all his motor disturbance had subsided, and while yet in the transitional stage from coma to complete consciousness. It was noticed that in many of the severer fits the left arm and leg were much more convulsed than the right, and that as regards precedence, they Were the first to be affected, the two sides of the face suffering equally. In addition, not only were the left arm and leg frequently the seat of marked paresis, which lasted for several days after the fit; but occasionally they were the subjects of choreiform movements orer which he had no control, and which at times passed over to the right arm and leg, but were never of the same extensive range as on the left side where they originated. Frequently, after a severe fit, the stage of stupor was very protracted; for two or three days the patient would lie speechless and deaf, able to take liquid fool when brought to him, but never nsking for it. On regaining consciousness, and whilst yet deaf, he always at first made known his wants to us in writing. I had been told frequently by the nurses of the great difficulty which they had of keeping him in bed during and immediately after the fits, and lappening to be in the wards one night when he was seized with

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a severe fit, I asked the nurzes, after the excessive muscular morements had subsided, to leave him alone so as to see what he would do. Whilst thns uneonscious, he made an effort to get out of bed, hut in doing so he sliglitly fell towards his left. With a little difficulty le pulled himself together and began to walk down the ward. It was all he could do to keep on lin feet, orring to the drooping and want of power in his left arm and leg, and yet whilst thus unable to move his left leg easily, he at once set off half rumning, the gait being extremely awkward, from the causes that 1 have mentioued. lie suddenly stopyed at the foot of one of the beds in the long ward, knelt down and scanned closely the whole of the floor under the bed. With a little difficulty he got on to his feet agrain, walked to the other end of the ward, to the table where the wash-land basin and jug were kept, und attempted to raise the jug to his mouth; the accomplishment of which was prevented by the marked feebleness of the left as compared with the right hand. On coming to himself, though quite 2iware of having had a fit, he knew nothing of all that I have described. He told me, however, that he had seen a cat, the image of which had lasted a long time in his memory.

On ophthalnoscopic examination, beyond perhaps the slightest liyperamia, the discs presented nothing unusual; the lungs and heart were healtly ; urine was quite normal before, after, and during the intervals between the fits; knee-jerk was generaily more marked on the left than on the right side; no ankle-clonus was present, but it was noticed that the push of the left foet and the grasp of the left hand were much enfeelled compared to the same on the opposite side of the body.
Painting with iodine, and blisters were applied locally, bromide and iodide of potassium, lig. hydrarg. lichlor., tinet. bellad. were tried alone and in combination, and in increasing doses without the least benefit.
Failing thms to relieve the patient, a general survey of the history and symptoms of the case-namely, a healthy lad meeting with an injury to his head, this followed in a fortnight by a conrulsive seizure, recurrence of fits, now accompanied by unconsciousness, and associated with an excess of movement on the left as compared with the right side of the body, lingering left-sided paresis and choreiform movements, these attended by a localised painful spot on the right temporal boue, pain ant which was said to be more severe just before or after a fit-led me to entertain the belief that the epileptic seizures were due to a
localised ing ocalised irritation, possibly in the membranes lying upen the The absence of any break in the skin dissipated any feeling that I might have had of fracture of the inner talle of the sknll suggested trephining as the only likely method of dealing successfully with the fits. My surgical colleagues sam the case with me, and agreed as to the advisalility of the operation, recommending, however, the application of the trephine over the painful spot, rather than upon that part of the skull lying upon those portions of the brain now recognised as concerned with the initiation of the movements of the arms and legs-1 nuean the aseending frontal and parietal convolutions. The painful spot, as I lave already mentioned, lay anterior and sometrlat inferior to these twe conyolutions. The operation was performed by Dr. Hume, under antiseptic precautions. A piece of bone, the size of a shilling, was without difficulty remored. The bone was quite healthy, and was easily lifted from its bed, being in no way adherent to the underlying membranes. The dura mater was healthy, in no wise thickened. As the dura mater was healthy it was debated for a few seconds as to the advisability of opening it. By degrees, however, it was noticed that the dura mater was becoming tense, and shortly after this membrane was shot out through the opening beyond the level of the bene, the tension now being very great. Accorlingly a crucial incision was made into it, and in a few seconds there escaped from the wound several teaspoonsful of serum, containing a few tlakes of lymph. The arachnoid and pia mater seemed healthy, as did also the surface of the brain and the small blood vessels which lay upon it. A rery small drainagc-tube was inserted, the cut ends of the dura mater were drawn together with delieate catgut, the skin flaps were gently drawn together, a sponge applied, and the ordinary antiseptic dressings placed over all. That evening the dressings were found to be eoraking, and on removal a fer teaspoonsful of serous thid were equeezed out of the sponge. More than two ounces of serous fluid escaped that day. The dressings were renewel, and never nfterwards required to be changed on account of the escape of Hluid The patient had onc or two minorlits on coming out of the
chloroform, and alse for two or three days after the operation, but nfter this they became separated from each other ly the interval of a day, then two days, a week, a furtnight, and so on, until no fit occurted during a periorl of six montlis. The wound had healed kindly and quickly, without cren the least rise of temperature. The patient having long left the infirmary, feeling quite well, no longer having any localised pain in his head, followed for a time the ocenpation of a teleyraph boy, but latterly became the cash hoy in a confined connting house. Here he was much harassed by the push of business, the one monotonous call which was made upon him, and by the long holars spent in a wretched atmos, here, and the result was that after being free of fits for six monthe, he had again to be admittel into the infirmary. Where he was placed under my care. The fits were now quite changed in claracter, the muscular movements were slight, and were never attended by loss of consciousness; the risual aura of the cat was no longer present. The fits were rather those of hysteria; and with rest in bed, iodide of jotassium and iron, his general health soon improved, the fits disappeared, and for several months have ceased to trouble him.

Trephining, as a method of treating epilepas: is only applicable to those cases where there is the history of an injury to the head followed by localising symptoms or by convulsions, either unilateral or more pronounced on one side of the body than the other, or where an injury to the head has been followed by a depressed fracture or separation of a portion of the inner table of the skull. Macerven, of Glasgow, has operated successfully on cases of epilepsy due to injury of bone, and in one case of Dr. Ralfe's-a patient who lad been trephined for depressed fracture, and who years afterwards was found suffering from epilepey-an absolute cure was only effected by the cicatrix due to the trephining operation being again opened up and allowing of the remoral of a small portion of necrosed bone evidently belonging to the inner table. As soon as this was done the fits ceased. Gowers speaks of haring seen or heard of 65 cases of epilepsy omning a traumatic cause, and of trephining as the only line of treatment likely to be successful, and that, be it remarked, as in myown case, where neither disease of bone, membrane, or surface of the brain was found at the time of the operation. Relief comes either from the operation acting as a strong counter-irritant lasting all through the period of healing, or from the reduction of tension consequent upon the eseape of pent-up serum.
It is several months since this paper was written and read, but, the last acconnt that I had of this patient from his mother was that he was still keeping free from fits.

## ON PUERPERAL APHASLA. ${ }^{2}$

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Aphasia, as a complication of the puerperal condition, fos s not find a place in our classical treatises on midwifery. and the literature of the subject is so scant that, in the course of my reading. I have only met with one observation recorded in this country, althongh it has been made the subject of a most elaborate essay by a continental observer, to which 1 shall have occasion to refer after the detailing of my own case, which 1 desire to head as follows:

## Clase of Loss of Speech occurtiag as a Pterperal <br> Shapton; Lacteal Deringemeat; Rigit <br> hemplegia; Fatal Terminatior.

On September 7 th. 1886,1 wns reqnested to see, in consultation with Dr. Watson, of Norwich, Mrs. S., aged 23 , who had given birth to her second child eight days previnus to my visit. T'pon inquiry I ascertained she had never been the suljeit of any cardiac or rheumatic affection, that she had never sufferell froin any nerveus disorder, and, in fact, that she had always emjoyed mooid heatth during her single life, with the exception of a aifyonition to occasional headaches. Her mother was insane, and died in the Norwich City Asylun, but heyond this fact there was no neurotic tendency in the family.
She wias delivered of her first child in July, 1885, and at the
${ }^{1}$ IRead In the Section of Medicine at the Annual Meeting of the British Modical Association bed at Dubliu. August, lesi.
sewenth menth of her first preganmey she had some obscure symproms with somue emburrastment of surerh, which lasted aboint a month. Wher frst contimenant passed ofl quite naturally, and whe anrsed her child for nime monthes at firet with hoth breasts. but in one lomat (it is Indiever to hase bera the laft) there was galacturrman for some weeks, and then the suphly censed entirely in this mamma.

Mrs. S. continned (quite wedl till three months lefore her second contimement, when a grodual loss of power oecurred in the right arm and leg. Iut principally in the arm. A month hefore her conflument cmburassment of sperech was noticed, which culminated in conpleto aphasia six days after delivery, which was quite matural, and unatemded by any straining or unusual effort ; there was no hamorrhage, and the lochia were guite natural. The total loss of spepeli was sudfen, for on the evening of the fifth day, ulthongh hor speech was embarrasied, she comble converse and make herself understond: but on the morning of the sixth day it was observed that she was completely aphasic; there was mo loss of conscionsness, and her gemernl appearance was as usual, the only blifference being the total suspension of articnlate language. This sudden exacerhation of her symptoms could he attrihutell to mo apharent canse; she hat not been exposed to any mental shock or disturbance of any kind, but a thunderstorm of bervi masual severity nceurred the evening before

On the second lay after her delivery there was a sudden turgespence of the breasts, with an umsual quantity of milk, the facteal sceretion leing so abmulant that, although the child sucked vignoundy, the milk lrad to be removed artificially; the suphly wis equal on hoth sides, This lacteal orertlow was but of short duration, for the next dav the quantity diminished perceptility, and on the fifth day the child had to be wenned because the supily was gone.

At my visit on the eighth day after parturition. I found her with right hemiplogia and aphasia, and 11 observed that she was namble to protrude the tongue. There was no pyrexia: the temperature was normal : the 1 ulse was 74, and there was no cardiac trouble of any kind: there was no min or swelling of the body, and no atuiominal or pelric complication whatever: there was, however, retention of urine, but nothing abmormal in the secretion itecle.

Althougl unahle to speak she evidently understond all that was said, and sermed annoyed, and became angry when ton many questinns were put in her, and to every question, whaterer it might be, she invariably sail, "The other day." I nsked her how many chidren she had, she replied. "The other day." I asked her what she luad taken for her lreakfast, sle replied, "The other day." She could say nothing else, and this recurring utterance, whether appropriate or not, she repented on all oceasions; it was a stock phrasi, and, of course, had no intellectual value.

Without developing any fresh symptom Mrs, S. gralmally became weaker, and sunk from exhaustion six weeks after her confinement: and within an hour of her death, in answer to an intuiry as to how she felt. She replied. "The other duy," which was the only phrase she had uttered since the commencement of her attack.

The above ease is interesting from the association of aphasia with the fuerperal condition. Ihrmiphegia is not an nucommon symptom connected with pregnancy and childbirth. Churchill has recorded twenty-two cases of paralysis during pregnancy colluecterl hiy him from various sonrees, but albough tiffectity of articulation may luwe leen moticed in some of these cases. it was simply due to paralysis of the tongue and the museles which are concernerl in the articulation of words, without any reul disturbance of the faculty of language.

Aphasia as a complication directly connecterl witls the phemeral erondition sesms to be rare. at all events, it has escapud the observation of the writers ou nlestelrics, for, nmongst $\delta(4 x)$ eases of midwifery recorded by a Jrench authority, M. Sireday, not a single instance of the coincifence of aphasia is mentiomed. The romly case that I have met with in my reating is one recorded hy Dr. Leith Napier, then sulbeet of which was a haly who, serentern days after her continement, on haing sulijactmi to considerable. wixatinn, anddenly beame sperchless: tuis was followed in three rays be partial jaralysis, which culuinuted in enmplete hemi-

 jut ient slowly improved, aml eventanly recovered.
lt is only quite recently that prominent attention has been allocl to the association of aphasia with the purp ral condition lya mat in oresting and rataustive aritele hy M. Poupen in

I: Wincíphale for July. 1885, entitled "Hes Aphasies J'ucriérales," nudur which name the comprises the divars rarieties of disturhance of speech which occur either during pregnancy or during the period of lactation, observing, however, that the occurrence of aphasin muler the above condition is extremely rare, although he says that the traumatic and moral shock which recently delivered women may experimeo cannot but seriously intluence the nervous syatem. This important communication is based upon a case observed by the whthor nt ha Charite, in the ward of Professor Laboulbène. The sulyeet of it was a woman, aged 24, J. M., who, on the fecond day after a perfectly natural delivery, was seized with right hemiplegia uni aphasin, her vocubulary (as in my awn cas() loung limital to threa or four words in answer to all questions, the expressions used heing, "Ehhien," "Oui, oui," "Maisjamais." She was ulso the suhject of wrob-blinhess, hut not of word-deufness.
This patient is described as having had an attack of articular rheunntism some years before, and as there was hypertrophy of the heart with mitral disease, the author makes the diagnosis of embolism of the left middle cerebral artery, due to a mitral constriction, upon which was superadded an endocarditis, caused by her puerperal condition; he exphains the fact of the sudden occurrence of the symptoms of emholism on the third day, by the hypothesis that the embolns might have been nearly detached during the labour, but that a fresh effort was necessary to complete its separation, and as she was suddenly taken speechless whilst at a meal, he thinks the clange from the recumbent to the sitting posture may lave been sufficient to complete the detachment of the embolus. M. Poupon enters at considerable length into the pathology of the above case, and also gives a short analysis of others thut hase fullen under his notice, in two of which lie says there was an evident relation hetween the lacteal secretion and the appearance of the aphasia; in one instance, howerer, the lacteal disturbance preceded the cerebral necidents, and in the other it followed them; in the lutter case (which was ono of exceptional interest, from the fact of the subject heing lefthanded, and the paralysis being on the left side) it is stated that from the moment the left hemiplegin and aphasia wero olserved, the lacteal secretion ceased in the right hreast, whilst in tho left (the paralysed side) it appeared to increase, and was much more abundant than usual. According to the statement of the patient, the temperature of the left or paralysed sido. as well as that of the corresponding lireast, was higher than on the right side; the perspiration was also much more copions on the left than on the right side.
In commenting upon this lnst observation, H. Poupon calls attention to the increase of the lacteal secretion, under the int fluence of the paralysis, and he considers the pathological condition was prohably insomotor paralysis of the brenst, resulting in tilatation of the vessels, anl a more abundant secretion of ailk. IIe adds that women who have experienced a first attuck of aphasia as a sequel of delirery shond avoid a second pregnancy, and he quotes a case oceurring in the practice of 11 . Gignonx, of Lyons, in which aphasia oceurred in two consecutive pregnancies. It will be remembered that this was the case in the history of the laty who formed the subject of my own observation. We know but little of the effect of lacteal distrelance on the nervons system ; and in a recent intaresting diseussion at the Obstetrical Society of London. Jr. Mathews Buncan commated upen the neglect of thescientifo investigation of the process ot hetation, and the deficiency of literuture connected with this important department of practice.

On reviewing the symptons manifested by the pationt whose clinical history 1 have described, it will be moterl that. Mrs, S . never hat any rhomatic affection, or cardinc complication of any kind; the labour was quite matmal, and there was no feature in her condition to surgeat the idea of septicemia, or of blond lyscrasia. The only unnsual symptom was anomatous luctution, for it will heremphinerm thore was great turgaseence of the mammar, und an exersslve flow of milk-quite a galactorrhcat for twernty-four hours-and then a somowhat sudden disuly earance rf the sceretion. From the empurative rarity of the association of hoss of specel witila the pmaproral stato 1 hesitate to venture upon any decidal muminn as of the phthotory of the ahove case The symptoms conld searedy be due to any merely transiant cause, for they had existed in a modified form for there montles before parturition, ànd luceame intensitial a few days after habour: the absence of any cardiac lecion, and the gradual develoment of the nervons symitome, woulil rather puint to cerebral tbromines. than to embeliom.

# ON THE EIIOLOGY. AND CURABILITY OF PHTHISIS. 

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Patinisis is one of the most prevalent dis rases in Sbeflield; one therefore has opportunities of treating it on a very large scale, especially in hospital practice. Thered are several factors which act conjointly in its production among the working elasses, so that one cannot be surprised at its frequency.

Jany of the men, and women too, have to assume a stooping position when at work, which does not permit of proper expansion of the Jungs, and in this way predisposes to disease. They have to work in shops where a mimber of others are present, and where, consequently, from this cause alone, the air is the very reverse of pure. The workshops and works are situated in parts of the town where the atmosphere is very prejudicial to health during a great portion of the year; for it is moist, it holds in suspensim a large quantity of dust. grit, soot, ete., which are inhaled, eause irritation, and are coughed up frequently during the day; and it also is, in fact, composed of different deleterious gases derived from rarious sonrces. The inhalation of such an atmospllere must necessarily be injurions to the internal surface of the lining membrane of the tubes and air cells of the lungs, with whieh it comes in contact.
Drinking to excess has, according to my experience, done its share of work in the production of this disease. Strong men in this way bring on a discased state of liver and stomach. Such men, generally speaking, die of bepatic or renal diseases, or other diseases, as those of the nerrons system; but, net infrequently, phthisis comes on and rapidly carries the patient off.

Amongst the poor, the habit of drinking tea is a very prevalent one. The women hare tea with every meal. This is a pernicious habit, which does an infinite amount of harm; the tea being an astringent, and almost constantly present in the stomach, aets upon its glands and mucous membrane; the secretions become depraved: imperfect and often painful digestion follows as a matter of course; anemia is the result, with general malnutrition, and phthisis. These poor persons drink tea becanse they cannot afford better fool often, and think that they are taking mutritious fond, little knowing that they are taking a remedy which is so injurious to the gastric mucous membrane, and ultimately destrors the appetite.

I consider that many eases of phthisis may be traced in a great measure to improper clothing. In winter all persons should wear wroollen clothing next to the skin. and in summer the same custom should prevail, but the material should be much thinner, and this should extend from neek to toe. I have seen working men in the third stage of phthisis glorying in the fact that they have never worn any warmer clothing than cotton shirts. Ladies, as a rule, do not wear sufficient clothing. Their undervests, hodices, and other underclothing hardly extend high enough to eover the upper part of the cliest. The lower classes are very eareless, especially when suckling: you frequently see the ellest uneovered more or less for hours I iften find delieato ladies who ought to be warmly clad-minel more so than I am-going abont in the middle of the winter with no close covering to the lower extremitics but a pair of loose linen drawers and stoekings. The onter loose elothing in the shape of dress, ete., fives eomparatively little warnth. Such ladies, in my opinion, should always wear thanmel or woollen clothes closely apmied to the skin. Chillren we see daily. delicate little things, ruming about with hardly any cosering to their lower extremities, not hing lut short dresses and petticoats hardly reaching their knees, and thin linen drawers, and yet the parents Wonder how they eateh cold. lmproper and insufficient elothing is a very great factor in the prochaction of phthisis. Want of exercise has mueh to do with its causation. I tind that it is a diffecult matter to persuade patients, especially laties, to take outdoor exereise. They will go out shopping, and they will mondergo severe exertion for hours in a ball-romm, but will not walk into the country: I believe that much of the benefit derived from residence at some of the places recommended for resort is often owing to

[^23]the patient taking plenty of exercise, tempted to do so because the weather permits of it, and the cares of home do not detain within doors. 1 have after much persuasion often succerded in getting my patients to take exarcise when at home, and have ahways been well satisfied with the result. By such treatment the appetite has heen improved, digestion has been rendered less difficult, and owing to the increased circulation through the lungs healthy changes have taken place. I have always endearoured to prevent the patient from remaining all alongr within doors, closely confined to one room perlaps, with medicine bottles on the table: by their side, moping and thinking of their ailments; and I think that we might mueh more frequently make nse of the places of resort in our own country, in England, in Scotland, in lreland, and Wales, at different periods of the year, than re do, instead of sending them a way out of reach of relatives and friends.

In no disease is hereditary predisposition more evident than in this. I have simply in this short paper mentioned a few of the most ordinary causes that I have met with, most of them prirentable.
Although, as I have shown, there are so many factors which assist in giving rise to phthisis, slill 1 lave heen astonished at the number of cases which recover. Fully seven-cighths of those I have had under my care have received decided relief-1any wonld say been cured. The patients have gained flesh, a most important sign ; the cough has disappeared; there has been entire absence of expectoration; the appetite has been good, and they have been able to attend to their ordinary duties. Many of them I have watched for years, and have had to treat for other complaints. Many-I may say the majority-1 have lost sight of after a time.

Certain physical signs generally more or less remain, as mo doubt the lungs have been lermanently injured; but 1 have frequently seen all the physical signs met with in the first stagc. entirely disnppear; those indicative of the second stage recovered in a great measure, and romice closed by agglutination of their walls, 1 presnme, leaving no physical sign whatever indicative of a carity, but of other changes having taken place which hase buen permanent and harmless.

With regard to the treatment of such eases. I have found mu local application to the lung in the first or seconl stages answer much better to hegin with than a small blister, say 2 by 2 inches. applied to the infra-elavicular region, or wherever the necessity seems to be. I believe I have seen in some hundreds of eases the cough relieverl, the local signs disappear, and the general symptoms much alleviated by such loeal treatment. Of course it is very difficult to judge, when general treatment is adopted as well, whether improvement should be attributed to this one application: but still I have often adopted a similar general treatment in other cases without as beneficial a result, and, at the same tinue. in many cases done but little else than apply this local irritant for a time, and yet seen good results ensue.

1 have tried the inhalation treatment pretty extensively, have used many of the inhalers generally recommendet, and have had patients placed in a room eontaining a medieated armosibere. Many patients have stated that they have derived much bencfit from such treatment, that the cough has been ametiorated and the quantity of expectoration diminished by it. Others, açain, and I believe the majority, althongh they have been pleased with the treatment at first, have at length given it up, finding that they have not derived the slightest benefit from it. I believe that in many eases it dees diminish the amount of expectoration, and feel sure that it makes the expectoration and breath when offensive less so, and 1 trust that. as our knowledge increases, treatment lys inhalation will be prodnctive of more good every year.

1 have reason to be well satisfied with the success of my treatment of the eases of phthisis which I have to take charge of, and eoncider that that success has heen dependent not upon any special mode of treatment adopted. I believe every case onght to le specialiy studied. The melical gentleman who gives cod-liver oil, a tonic mixture and a linctus to every patient, will not he successful as a rule in his treatment. As l said before, about seren-eighths of my patients have praetically reenvered. In all these casts 1 lave first of all entearoured to remove the cause if found. The patient who had lived in an impure atmosplate has been removel from it. A eonstrained position when at work has been aroided. The working in a close rom has been preventerl if possible. The labit of taking aleohol or tea to excess has hepen put a stop to. Daily exercisa has been recommonded whenever the weather has permitted of it, and good nourishing die: recom-
monthe to fur taks at rigular hours. A histur has beem applied

 jintione has frequently got well. Quinine I have foumd to be one off the mot usiful remodies; it improwe the appretite, it tends to check the meturnal purnpirttions, ant acts as a peneral tonic; lut many pationt canmot take quinine, alecially these who suffer frem pastric herangements, whiels have to he sjuecinlly treated befor it it administered. Iron in some form or other is imbicatend at some time. The prescharide I lardly ever prescribe. u- it durnys the teath in time, howerer careful the patient may b.: I preftr the syrup of the phosplates, the citrate of iron and quinine, or of ammonia and iron, or dialyeed iron.
l think in the preant day there is a grest tembency to ride hoblies. One wenteman ilors little else escept recommend the use of certain inhulers, another preseriben a particular remedy: 1 leliene that the physician who is most likely to cure his patient is the one whe, having satislie! his mind as to the exnct condition off his patient, dow- lifs utimost to lind ont what has brought on the complaint, ant laving found out the cause, is firm, and if possibh compels his patint to avoid it. Ly aroicling the cause of a diseave nurle is done toward the cure. We should always kerp in mind that preat benellt is frequently derived from the great altitude tromeme of phithisis in suitable cases, as by such treatment the [ationt is suppliell with air pure and rarefiech, and reco ives many nther lomotits. Sea vorages are also beneficial in cortain cases, int at present 1 am not diliting on these two modes of treatmut, hut am endearouring to prove that the physician who makes gond use of the knowledge which we already jossess of the treatnent of phthisis may feel pretty confident of success in the majority of enses, even withnit sentling any away from our own country. Honwhile, whilst utilising this knotiledge, we shomb watch with care the discoveries which are constantly loing male by our fri.nds the bacteriologists and others, and "armenty linju that some day a methon will be found by which this diach may be stamperi out, as small-pox can he now, and thus the lives of thousants may be saved.

## The edectric mblymination of the male BLADDER BV MEANS OF THE NEW IN-CANDESCENT-IAMP CYS゙TOSCOPE.'

## BY F. HLRRY FFNWICK. R.J.C.S.

As:'s'an' Surgeon to the London Hoopltal; Surgen and 1athologist to St Peller's Iteminal for C'rimary Disenses.

From then rery commencement of the century, en loscopy has ntirdaced the uttontion and the efforts of the medical profession. since Barriai, of Frankfurt, introduced his " light conductor" in 1805, barious instruments have heen invented for examining the interior of the bladher and urethra. l'ractically, however, the nttempts hate hitherto proved unsatisfactory, for all endosoopes have failord from insufficiency of illuminatiner power. Twenty-five years ago Lruck, of Breslau, a dentist, conceivel the Trillian ider of utilising a lonp of phatinum wire, maintained at as whit, hent ly means of a galvanic battery, as the somrce of limh. The concrption was carried sut, and a monograpla writt n upon it. The instrument was trierl at the Vienna Hospital, lus proving a failure, it was discardel, and the attompt format: In. In $1=14$ Dr. Nitze grappled with the same problem, and 1. it $r$, the well-known instrmment maker of Viemna, was entruse $s$ with its solution. After ten mouthe of expensive and indefasi maln labost, hater construeted an wlectric embascope, hy means of whicla th, bathor could le effectively esamined. ${ }^{2}$ The in "run: $n$ " was, howawe encumberel by the nepessary npparatus for conveying curronts of colel water arcumel the wholosenpe to
 funt rl initat, and it was furthormore, enmplicateal, enstly, and rapricina: On the introduetion of the inenndesent lamip, Dr. Ni*: ant Mr. Latier prucenderl to work indemmiently of each Cat ] : in I tho ramblt has been, in cach rase, ther production of endos on $)=$ simplified by the ernployment of the smatlest Swan or 1: lians lamp ("mignin" lamp) as the jlluminating porer. Thes"

[^24]instruments were linisherl in 1827, anm were brought by their respetive makers lefore the German Surgical Comareson at berlin. ${ }^{3}$ Having usol both variet ies upon a scries of normal aml jathologieal blablers, 1 lave brought them liere this eveniug to show how simple, safe, and successful these fystoscojus are as compared with their progenitnss of Ing2 ami inig-1800. Norenver, as they have not as yet, I helieve, attracted than athention of the profussion in lingland, I vinture in deseribo their construction, to demonstrate their camalilities mut defects, to lay down a few rules for their use, and lo critically compare the merits of ench.
The Constrection.-The three esisentinls of the constristion of lenth varietios of the electrio eystoscopre (Nitze's or heiter's) are practically idnutical: 1. a catheter (rig. 1 AK ) of No. ©.2 gauge (French) in size, with a sharp elhow; ${ }^{2}$ a $F$ twminally placed incamescent lamp (rig. 1 1.) : 3, a window ( Fig . I p or F), closed by a prism, placed near the bend of the clbow to refract the intering rays so that they pass alony the tube (ligg. I if) to the ohserver's eye.
These points are worthy of a detuiled description.

1. In Leiter's eystoscope the catheter is built up of tro insulater metal tubes slijppeal one inside the other. The inner ("t plescope") tule (lig. 1 Tf) terminates abruptly at the prism r . Both tuhes serve as the conductors of the current between the battery and the incandescent lamp.
$\ddot{\because}$. The smallest incandescent lamp (" migmon" lamp) (Fig. 2r.) occupies the end or tip of the cystoscope. It is enclosed in a serewed-on silver hood (Fig. 2 6). Which has on one side an elliptical aperture ( Fig .2 CF ) fitted with a plate of rock crystal for the transit of the rays of light. But here notable and important differences exist in the two varieties: (a) in Leiter's cystoscope (Yig. $\mathrm{a}_{1}$.) the carbon filament burns within its small glass globe, and is protected moreover by the windowed hood (lig. :2 a). In Nitze's instrument the carbon fitament burns within the hood and lacks a globe: (b) the lamp which Leiter uses is a remorable and a cheap globe (three shillings) (Fig. a), which, if it is burnt through, can be replaced in a minute by another, ly merely unscrewing the hood. lht the law which Nitze employs is an integral part of the instrument, being permanentiy inclosed in the end or tip. If, then, the filament be burnt through, the entire cap must be unsererred and be sent hack to the maker for repair, at an outlay of ten shillings: (c) moreover, in Leiter's lamp the filament is longer, and gives a brighter and larger source of light; (d) the elliptical window (lig. 2CF) is larger and affords a greater egress to the light.
2. The wintow (Hig. 1, p or $\mathbf{F}$ ) in the bend of the clbow has an arrangement of retlectors and a prism.


Fig 2.-Shows (1) the lamp: (2) the lamp (1) ndjustel: and (3) the shlwer Ju001 ( 6 ) (or the lamts (in Lelter's eystoscope).

1. T:ach instrument possesses a "key" or "kick-over" (Fig I GC) for turning on or off the current.
2. A small portable four to six-celled battery with carhon-zin

[^25]phates and ehrom-sulphuric acid, supplies a curreut of four to six volts intensity.
This is the construction of the electric cystoscope which will prove most often of use, but another form (ilig. I B) is made, both by Nitze and leiter, for examining the posterior upper wall of the bladder. In this, both the light and the window are placed upon the convexity of the bend, and not in the concavity.
Certain objections might reasonably be made to the use of the cystoscope.

1. Breakaye of the Lamp.--It might be supposed that the mere contact of the urine with the lamp would crack the glass. Such an accident as that would be fatal to the use of the instrmment ; hut ladnuily it is renclered impossible by the closure of the aperture in the hood by means of a plate of rock crystal 2 millimetres thick. These lamps have burnt for thirty hours under water without a flaw. I have tested these plates with over-anxious roughnoss, and have only succeeded in cracking one by forcible finger and thumb pressure. Such violence could nerer be encountered in the hladder.
$\because$. Burning of the Mucous.Membrane.-The cap or hood, with its contained lamp, becomes very hot if exposed to the air; but when it is under water the heat is rapidly absorbed and the cap remains quite cooi. This is exactly what happens in the bladder, for the urine earries off the heat of the lamp as fast as it is formed. When I first began to use the instrument my patients complained of a sulsequent burning sensation, which ] attributed correctly to arkward manjpulation of the end, in keeping the lamp resting on or pressed against the bladder wall. "They may be burnt for an hour in a male bladder, holding 7 onnces of fluid, without perceptinly raising the general temperature" (Bremuer).

Capabilities.-By means of the electric cystoscope every part of the resical wall can be examined in as brilliantly illuminated a condition as if it were riewed in direct sunlight. Figs. 3 and 4 show the light thrown upon the floor and anterior wall of the hladder, and represent fairly well the direction of the rays emitted from the end of the instrument. ${ }^{\text {t }}$


Fig. 3.
As an example of the power of the light, I quote from my notes of a case of right renal hematuria which 1 examined with the cystoscope. "The trigone and base of the hlacher "ppear of


Fig. 4.

[^26]straw or sandy colour ; aml not, as one would suppose, of a rosy or reddish hue. The slit-like orifices of the urpters aro clearly visible, and a drop of blool would be apparent if it were entering the bladder. Here and there, this sandy--hore-like surface is rilieved ly a maronn coloured vessel which courses arbnrescently across the field : the entire picture reminds one of the optic disc." I fair number of cases are already recorded in the literature of electric cystoscopy. Ditlel has examined casos of chronic cystitis. Finger has investigated gonorrhoel cystitis. Foreign íodies, stones, vesical tumours ( 16 cases); diverticula, and other obscurr vesical diseases, have been discovered by its means, and subsequently rerified by operation; but this is not the rlace pither to discuss or add to these results.

What adrauce has the cystoscope of 1887 made upon that of 1880?

1. The water-cooling apparatus is dispensed with.
$\because$ The cumbersome Eunsen battery is rellacm by a small plinge battery of four cells.
2. Little accumulators whieh slip into the pocket may be usml (these are not always retiahle).
3. The instrument is one-third cheaper.
4. It is not complicated, and requires no sjecial knowledge for its manipulation.

What are the deficiencies of the electric eystoscope?
I. It cannot be used in irregularly enlarged or carcinomatous prostatic cases.
2. It is dificult to work in contracted hadders.
3. Hæmaturial urine causes a red fog to appear around the light and obscures everything.
4. Stricture of the urethra arrests its introduction until dilatation has been effected.

Rules and Directions for the use of the Cystoscripe.-Placo the patient on his back with his legs bare. Cocanise the uret hra and bladder, or anresthetise the patient. Make certain that the bladder contains at least six flud ounces of clear urine; a greater quantity is better. If the urine be bloody, wash out the hladder, and substitute clear water for the murky medium. Regulate the light of the lamp so as not to fuse the filament with an unnccessarily strong current. Do not start the light until the lamp and elbow are well within the bladder. Let the manipulation be gentle and purposive. Do not keep the cap in contact with the wall. Let the instrument remain for balf a minute after the curreut has been shat off, in order to cool the hood completely before you withdraw.
That the cystoscope of either maker will become rapidly popular, and be largely employed in the diagnosis of urinary disenses, may lie argued from the simplicity, safety, and success of the instrument ; but it is indeed difficult to predict aecurately its future rank. It will obviously replace the large collpction of instruments or procedures whieh attempt the diagnusis of the source of hicmaturia and pyuria; for the ureteral orifices are clearly exposed to viex: Its use will tend to limit the size and number of vesieal papillomata by enabling us to detect and remore these and other growths in their rery infancy. It will, moreover, affert us a clearer insight into the physiological and pathological conditions of the resical mucous membrane, and allow us to control our clinical observations and speculations by direct risual research.

In conclusion, I can only regret that the conception and completion of this brilliant innovation emanate from our Austrian comfriere, rather than from an Finglish sumee. I must gratefully acknowledge the kinduess of Mr. Leiter, und his agent in London, Mr. Sehall, of Wignore street, for their prompt and courteous assistance.

Tue Annual Report of the Imperial Sary of Japan. eompilet ly Takaki kanehio, F゙.R.C.A.Fng., the Director-General of the Sanitary Bureau of the Naty Department, shows that the authorities have learned to appreciate the economy and the value of sanitation. A large proportion of the mary effective suffered. until very recently, from kak ke, due, it is helieved. to the bad quality of the food supply. Sinee improvenents have been introduced into the commisariat department, eases of sickness among the sailors have decreased to the extent of 1.37 per $I_{,}(k)(1)$ men-a rery considerable saving. amounting in the aggregate to a daily average strength of $\overline{0}$ men, and an economy of is lives. Some very elahorate tables are given of the diseases and of the results of treatment, some of which hear favourable comparison with our own.

##  FLUM ACL"W PERITON゙TTS AT THE <br> ENPIRLTLON OF'THRELE MONT1Us.

 Batterseni.

F. J., ageel - - 4 , height if feet 11 inches, wioght 13 stome, a clerk, was seizay with a pain in his left luin in May, l-sst, when rowing on the river. The pain contimen, and in Feborury, 1856 , he lirst liscowred aswolling on his laft side. Thermpen he went into hospital, and heremuinell four days, when, after a brisk aporiont, the Nw dime disajparad, athmarli the jain continued. Ia Suvember, Live, the tumour returneal, and agnin dismpeared at the expiration of tun laye miner laxitive tratment. From that time until the last illness he suffered slight atacks. In August, 188i, the
 treatment, nitil, at his uterent rephest. I decidet to endeavour by of eration tor remose the disense ent irely:

On s.phember -7 th, 1-87, the date of operation, the following was the combition of the pationt. Oechyping the whole of his lefe sile was a thethating tumuir, which extenderl two inches acmas the midnle line: below, its lower burder was sharply defined in the f.ivis; above, it extemled under the ribs; behind, as far tas the spime: The whale of this space was thall on percussion, with the exeption of a small part just below the sulem. Nong the outer surface of the eyst, and extenling from above flownwards perpemalicularly, was an alevated ridge, which 1 diagnosed as colon. Ilis urine was normal, ann ot her organs healthy.
llaving placed a stout pillow muler the patient's loins and administered chloroform, ! performed the operation as follows. I madl. an incision fonr inches in lengtl along the outer border of the left rectus mustle down to the peritoneum. After securing all horling points, this membrane was opeated to the same extent as my incisin. L'mm intrulucing my finger the ritge proved to be colon, Which wastimbly alherent to the eyst wall. In orter to remeh it afely, I was obligal to make anether incisiou three inches long from the ceutre of the firet and at right angles to it out warde unto the loin. 11 wing earefully separated the gat and drawn it inwards (in doing which I was compelled to lewo a large portion of the peritoneum attached to the cyst, 1 tapped and brew olf about tre piats of Huid. Fiming that intlammatory athesions were the chuse of the obstruction, I reoceded to remove the kidney: This was done by enucleating it from its capsule, the tissues surrounding it being sudense. When the kidney was lrought to the surface securel the pedicle in two parts with a double silk curbolised ligature, passing another around all, and dividing it with aciseors, leaving a suall portion of the ghand attacherd. After tying the ureter with a couple of ligatures, I divitell it hetween them. With much dithiculty the cyst was freal from its attachments, ansf, when sembed ly a double ligature passend close up to the indlicle, was removed. The separation of the cyst proved the most tronhlesnmes lart of the operation, several vesumbs requiring to he tied. The cavity was then well washed ont with pints of warn water and sponged Iry, the pillow uncher the loin proventing any flaid entering the genernl peritonema covity. The extemal whum was then carefully closed with silk suturs, nind dressel with ganze straphing, gataze lmalage, and thamel roller ; and the patient placell in barl.

Fur the tires fuw henrs he sulfered a creat aleal from shock, but gradually rallied under the administ ration of en-mata of beof ten, brantly, ant ophum. During the night hoe slapt well, fand suffered but littor from sichness, at the same time phasing water fremly: From thiz time to the apventh thy, whan I removel the stitelnes, he appored and zaill he felt leather than he hat fone fer nonthas. When the stitches were removal the wound was well mited, with the excepotion of a amall part of either extremity of the transwree incision. the intervanis gortion of thes sumericial tiskhes afterwarta sloughing ant luavine the blatimato nieer, which hat not healed when the fatal eremt weurred. With this exception all Went well butil the evening of the tenth lay, when, for the firat

 1u. $5^{\circ}$; yet I was mable to detwet fluct mation. buring the next five days, the impprature $101^{\circ}$ was the highest imint reaclent. On the night of the two nty-first fay almen (wo bunc:- of saninus jurs
lurat throngh the lower etremity of the incision in the loin. A harge lraing -thhe was then pabad through the opening and out thromgh the hack. With the llogror in the abscess cavity, while introflefing the tulse, the examination proved that the general cavity of the peritone om was timly closed. During the tirat few wenk thie cavity was syringed out three times daily with carbolisenl water, atterwards with a solation of iodine, and necasionally with sulphate of zinc hetion. I'us continuel to drain away laty to the extent of an onnce and a half. Un Xovember $\quad=5$ th the pationt was allowed to get up for the Arst time, wearing a Martin's elastic hundage wer the lressing. On Decembor lifth symptoms of meumonia of the lower lebe of the left lung set in, amd, as the smas still contimed to discharge, 1 laid it open on the 18th. The simue evening peritofitis set in, which proved fatal on the 23rd, or three months and three days from the date of operation.
1 should remark that, although tapping is the usual treatment recommended hasuch cases, in this it whuld have proved masatisfactory, for the reason that my patient was in constant pain from the commoncement of his illnese, which, to use his own expression, " made his life a misury." The only 1 ssition in which he was at all free from pain was on lis hack. Ile was also more or less an invalid during the whole time, which necessitated his resigning inore than one situation. Again, taphing at most would have only given temporary relief, as the cause of obstriction was permanent; und although, after much suffering and loss of time the whole lidney tissue inight have heen absorbeal, he strongly objected to the delay, prefurring the risks of operation.
In reporting this case 1 wish to thank Dr. Barkwell and Dr. frigor, local practitioners, for the invaluable assistance rendered duriug and after the operation.

## TREATMENT OF ALCOHOLISM BY NUX romich.

By C. ROBERTS, F.R.C.S.
It is very remarkable, seeing how quickly new methods of treatment are adopted in these days, that so liftle, attention has been directed in this country to the treatment of conditions of the body due to the excessive hee of mine, /spirits, and leer, by mux vomica nul its preparations, as alsocated fur some time past by certain Italiau, French, ant Russian physicians, and incidentally referred to in a note in the Jotrana, fur banuary 14th. When I was a student, eases of delirinm tremens were treatel in the surgical wards, und as a dreaser 1 assisted the late $11 r$. C. Hhnterthen housc-surgeon-in his original experiments of treating this class of cases be the subcutanems injectiou of morphin-a kind of treatment which first led to the ase of subcutameons therapeutics, and which made all the forms of aleoholism of special interest to me. The treatment of the common forms of drunkenness by nux vomica is not by any means netr. Many yars ago a inedical friend used to trent such cases by full doses of the tincture of nux vomica combined with rlubarb; sodn, and full floses of earbonate of ammonia with great success, aud I hare been equally satisfied with the results of the nux vomica in combination with alkaline solutions of bismuth, hydrocyanic achl, and carhonate of ammonia for the more acute/cases, and of the acid solutions of stryehnine with iron and guinine, in chronic ones. 1 do not helieve, lonwever, with IDs. I',1moff, Tolvinski, ant Irofessor Manassein, that strychnine is an mitidute to alcohol in the ordinary meaning of the word, and 1/haye heen yery much disajpointed in the few chses in which 1 hase tried the subcutanema injection of strymme, as recommented by the Russian Whysicians. Indeed, I think it is a great error to speak of the Yarious conditions of the digestive and nervous systems rewlting from the excessive or injutiriong nat of alcohol as a specilic disensur, ho they are similar to those which result from the exeessive use of othor foods, nerrous excitement, and imontal and physical exersies of all kintla. The sutting aphat of the trentment of these disemses as a speciality is one of the greatest evils of the prevailing "vil of specinlisens, as is olvions by the nonsemse which is talked by such sprecinlista as to the hereditary character of the diseate. and the incurability of some cases. Ait present we have no evidinee that acepiretl la hits are tramsmissible from purent to child, and moreover there are no dofinitw and uniform hesions rabulting from the nist of alcohol to lm transmitted, if sucle fransmission were pasihle. That the chikd of a lrunken nother should have freble lipelthi is likely vough, as ita mutrition has hom inter-
ferel? with: amd that the children of intemperate parents should acquire their habits from imitation and the facilities for falling into them is likely enough also. But this is not heredity. even in the rery loosest way in which the word is used by medical men.
As to the incurability of drinking habits and the lisease they engender, they are, I think, just as curable and as incurable as rheuraatism or gout, diabetes or Bright's disease, or the hundred and one forms of the disenses of the digestive system. The real dilliculty iu the treatment of alcoholisms arises from the theory that they are of a shecific nature, and require specific remedies, and the forgetting, or perhaps 1 ought to say the ignorance. of the lang time the intemperate habits have heen goiug on before they come under the notice of the medical man. and the obstinaey of the patient and lis friends in acknowledging their true beginnings. Chronic diseases require ehronic treatment; and nervous sellsations of a periodic nature, the result of long hahits. cannot be cut short hy the sudden removal of the stimulus which caused them, They can only be surcly eradicated by the substitution of other and better habits; hence the advantage in the treatment of habits of intemperance of all kinds by trarelling and intellectual pursuits, and the removal of the patient from all former associations. As a confirmed disease, alcoholism is, I think, more nearly related to gout than any other constitutional condition, and in its wore chronic states it is most successfully treated by iodide of potassium and bark.

## THERAPEUTIC MEMORANDA.

## IDIOSTNCRASY WJTH REGARD TO AFTJPYRIN A WARNING.

A member of my family liable to migraine was attacked in the orlinary way a few days ayo, and 1 administered for the first time a dose of 5 grains of antipyrin in powder, with the following curious result: Five minutes after taking it, the "deadly sickness" which was previously present seemed to give way, and an "expanding sensation" was felt, rising from the stomach upwards. Almost immediately she sneezed violently for about twenty times runuing without pause. The face and eyes became deeply suffusel; ; tears began to flow ; quantities of mucus flowed from the nose ; the breathing became hard and laboured, accompanied by a feeling of suffication; there was complete inability to lie down. A violent cougl shortly cane on, and large quantities of mucus were expectorated; at the same time there was very profuse sweating.

After these phenomena had lasted for ahount half an lour, intense itching was felt on the insides of both thighs, and on examination there was found a thick onterop of urticaria, which soon extendeld on to the abdomen. There was also a strong coppery taste in the month-not continuing, but coming on in violent bouts-and an equally strong smell of the same metallic nature, also intermittent. There was loud singing in the ears, which felt intensely congester. The pulee was quick and very full.
After the symptoms hal lasted about three-quarters of an hour from the commencement, they gradually disappeared, some tightness of the chest and rumning at the nose remaining for four or fire hours longer. The sickness accompanying the migraine disappeared completely as snon as the drug had legun to work: the headache also lisapueured for a time, hut came back slightly about four hours afterwards.
As antipyrin is now heing so largely prescribed. I thought the alove accoint might be of use to the readers of the Jorrial, as showing the necessity for eaution when prescribing it for a patient who has not previously taken it.

Nice.
IV. Allen Sturar, M.D.

## GRNERAL STMPTOMS SOMETHES PRODLCED BY NASAL SlikAYS OF COCALSE.

1s applying sprays of a 4 per cent. solution of cocaine to the nasal cavities. I have not infrequently noticed an accelerated action of the heart as an almost immediate result, 1 have thas notel a pulse which, prior in the aphlication, was benting at the rate of 86 pulsitions to the minute, increase to 110 pulsations in tive minutes, after spraying into the nose 30 minims of a 4 per cent. solution, while its colune and strength were for the time increasel. This annount
would represent a little over 1 graiu of cocaine; hut, alluwing for a certain amonnt of waste resulting from the dripping from the nostrils, less than 1 grain probably would have been alsorhed. This increased activity of the circulatiou was attended by a very appreciable sense of exlilaration of spirits associated with a feeling of incrensed vigour and capacity tor mental effort. Cocaine arplied in this manner, in the quantity I have mentioned, has had the effect of distinetly rousing the individual; amil I have seen the same results in more moderate degree from smaller amounts. Indeed, I have met with rarer instances, where repeated spraying of 10 minims of a 4 per cent. solution to allay nasal irritation has resulterl in insomnia, and sometimes in active restles:ness lasting for several hours. So far as I have seen, all these effects have been generally quite transient, though a moderate sense of stimulation may persist for an hour or $t$ wo.
In using stronger solutions 1 bave on two necasions seen their application followed by rertigo and threatened synenpe. A gentlemanl, iu whose nose I applied a 20 per cent. solution upon a plug of cotton rool, and also in spray. prior to remoring a polypus, complained of vertigo, uausea, and faintness. These symptoms sulsided quiekly, ufter he had rested a few minutes on the couch, and he was well euough to undergo the operation before the local anæsthetic effect of the cocaiue had passect ofi. I saw similar effects in a lady after the application of 10 per cent. solution followed by a spray of the same strength. Although I hare constantly made these applications of cocaine prior to operations in the nose and as a local sedatiye, these are the only two cases 1 have to record where depressing effects have resulted. It has been more especially after using a spray, ly which the solution is forcell high up in the nasal fossx, and is more widely diffused, that I have noted the exliilarating effects that 1 have referred to. From experiments made on myself I hare found that the stage of exliilaration, when induced, is of comparatively short duration, but if, after the first effect has subsided, the spray be repeated once or $t$ wice in the course of an hour or two. these further applications may be followed by somewhat more rapid action of the heart, p roducing more or less disagreeable palpitation, while the sense of buoyuncy is apt to be less than at first, though some nervous excitement may still remain.
Notrithstanding these experiences, I should sar, after loug trial, that limited applications of strong solutions of cocaine in the nose as a local anesthetic do not, unless very exceptionally. produce general symptoms. Spray solutions of a strength not exceeding even 4 per cent. are more liahle to do so, and should not. as a rule, he andied in greater quantity than tel minims, especially if used by the patient as a topical remedy in acute nasal catarin; such then this application should not be often repeated. Hith such restrictions all risk of harm would be avoided. It is easy to
foresee, however the latine, however, that an agent which can exert the primary stimnlating effects, which it has heen found to do. would appeal to some; and that the uurestrained habit of resnrting to nasal sprays of cocaine by patients may lead to deleterious results.
W. McNeill Whistler, M.D.

> Pliysicinn to the London Throat llospital.

## FOLIENSIC MEMORANDA.

SUTCRDE BY HANGING: A CASE N WHICI THE SULCIDE SECCRED HIS OWN HINDS.
A FEW days ago 1 received a warraut to examine the body of a young adult negro, which had been found hauging in the woods not far from his dwelling. The spot chosen ly the deceased was n romantic one, at the mouth of $\Omega$ shallow limestone care, from
whose roof numen ledge at the cave's mouth wastic masses hung. The overhangiug frons which numerous cordlike withes lung dangline: some of these the mau had used for his purpose. These cordlike suckers, sent down so profusely by parasitic plants and athers in the tropics, will be familiar to all nequaintell with tropical regetation. A strong coffe-shruh, eapahle of sustaining a man's weight, stool some few feet off from the moutly of the cave. I found the boly lying upon the ground. fully elothed. When just diseovered, it was still hanging. hut the withes sustaining it gave way a little hater of their isw accord. A slip knot, made with three of the depending withes, intertwined into a maturally-formed rope, depenlug wroled the neck. the loop of the slip kuot being under
thity encire right ear. The hands we: fastoned down to the silhs and
the
shighty hehtul by pibee of short withe，wheh bore a loop at cach emb，and through these Inops the hands had heen passect up to the wrints．The strnight piece of withe comneting the two loops pasand isehind the boely，and was about a foot in lengeth． The longen and staight connecting piene were made out of a single piece of song withe．On trial，the loops were foum to plass over the hamas quite readily：
A prolable interpretation of the sapuence of esents in this un－ witnessel trugedy would seem to hep that the deceased tirst made the lony arrangement for his wrists and placed it within reach． Thereafter he sems to have climben into the coffec－shrmb，men－ tioned alove as standing at the entrance to the cave．and whose bark，chaferl anel dirt－stained at the forks，and newly broken twigs showed it to have leen recently ncengied．From this tree it was possille to make the slip knot for theneck from the de－ pendent withes．This being made，and its nowse arrangel around his neck，he must have stippel his hamels within the loop arrange－ ment for the wrists，and have gradually eased limself clear of the tree：this last of necessity，as the withes were not strong enough to have stood the strain of a sudien jork．
llard by，in cridence of a previous and unsuccessful attempt， lay another corl of withes．lta upper ent，attached to one of the stalactites ahove，harl broken off short by the ronf；its lower end lay below，ahamdoned：and inside it there was another arrange－ ment of longs for the wrists precisely similar to that fount upon the bolly．I houlder standing beneath the stalactite had served as a phat form and enabled him to reach it．

With the exerption of the bruising at the neck，the booly bore no trace of injury or of strugele．The clothes were not dis－ ordered．Hiscection showerl the appenrances usmally seem in death from asphyxia．There was also a diseased condition of the gortie salsec．The heart troubles hal given much pain，and had ren－ dered him unfit for work．Ho secms often to have suffered acute distress at night－time．He had recently lost lis wife，and this， with his hodily suffiring，seems to have driven him to an aet planned with mach fnrethought and carried nut with singnlar de－ iermination．He left his hut at some time during the night，a bright moonlight one；amd it was only at daybreak that his murse， an old ne，ress，mon awakening，missm hini and gave the alarm．


## Moncague，Jamaica．

## OPIITHALMOLOGICAL MEMORANDA．

OPITHALAH．A NEONATOTUU：TRELTMENT BY ALCOHOH， AVD CORROSIVE SUBLIMATE．
1 malisu this pan of treating nhthalmia neonatorum in the hopee that members of the 1 rufessinn will at least try what I hope may prove to be a distinct adrance in the treatment of this very unpleasant affection．
Evert the lide to the hack fold：hry them with a soft puece of clean rag；wash them freely with cthylic alcohol－a soft camel－ hair brush；and flowl with 1 to $\ddot{2}\left(\begin{array}{ll}(x)\end{array}\right)$ of corrosive suldimate watery solution．

The reason fur the treatment is：Roux demonctrates that pure alcolud r moves all lonse gnnococci．P＇ure ateohol has an ext ranti－ nary aftinity for water so that it displaces the watery thid of the lid ly alcaliol making it intensely hygrosecopic．The nleahol is in iurn displaced ly solution of corrosive shblimate，so that every possible nork anil crung is scarched by the grmieile．I think this plan would answer equally well with any other germicicte． hut corrosive sulitmate is ennveniont and chonnly．Dur cases have． been too few at present to form an opiniom．Sin far we find the discharge arresten，hut the granular condition of the lid is mot so rapilly realuectl as by silver．I take it that that is a small matter， compared to the prompt remoral of the iufecting oranisms．The alcohol has no apparent affeet upn the cornea．For home use wa order 1 in 1,000 of corrosise sublimate with weak horacie acil solution．

20, St．John Street，Manchestur．

## CLINICAL MEMORANDA．

 Tief paragraph in the Inctesas for fanmary elst．hernerol＂Syn－ tanmus Tetachment of Laryngeal l＇olypus．＂reminds me of a casw similar to the one relatell，which necurten when I was resichent medical nfficer to the Manchester linyal Infmary．A patient
presented herself with laryogenl symptons，and，on examination with the laryngosenu． 1 clearly saw a polypus in the larynx．I alvised her io mome moto the litirmary as an in－patient，in order that she might have the growth removed，which she consented to do．I few days afterwarls slae returned with her laryngeal trouble practically gone，and produced a hottle containing a small mass．which she stated she had coughed up．On re－examining the hrynx with the laryagnsenpe．the tumour was found to have dispprared，and microscopical examination of the substance enughed up revealed the ordinary structure of a polypus．

Manchester．
Ginaham Steeifi，MI．D．

## REPORTS

hospital and serbgical practice in the hosritals and asilums of great BRITAIN，HRELAND，AND THE COLONIES．

## EJE，E．IR，AND THROAT INFIRMARY OH EDINBURG1F．

CASE OF CHRONIC LARIXGITIS，PROBABLY TIBBERCLD．AR， THEATED BY THACHEOTOMF AND BY ENDO－LARFXGEAL IEKOVAL OF GROWTH．
（Under the care of Dr．11 שxTER MACKEN\＆1E．）
J．D．，aged 27 ，commenced attendance as an out－patient on Fcb－ ruary 4 th，les i，on account of hoarseness and shortness of breath， Which had bection gradual ouset，and had existed for a year and a half．There was no history of previous illness，and no phthisical taint in the family．
His general condition was poor，with a tendency to eyanosis of cheeks and fingers．Inside the laryms there was marked general swelling，especially over the arytenoil cartilages，which had a markedly globular ontline and a somewhat asly appearance．Tbe vocal cords were reddened and irregularly thielsened；the left was completely fixed in the midule line，und the mobility of its fellow was impaired．There was no ulceration anywhere．Some medium moist sounds were nudible at the infra－clavienar region，am！ rhonchi were present over both apices posteriorly．Tubercle bacilli were sparsoly present in the sputum．

In spite of alpropriate local and general tratment，the patient hecame worse，and was admitted as an in－patient in the begin－ ning of April．On the Gth of that month tracheotomy was per－ formed ly dr．Maxwell loss．The patient rapidly improved atter the operation，and in ten days left the infirmary．lle contimued as an out－patient during the remainder of the year，and was sul－ mitted to a course of Toenl treatnent，first by lactic acid，and secondly hy menthol．It coulh not be said that either of these remedics had any effect upon the intra－laryngeal condition，for． although this had greaty improved，the amelioration took place whether the remedies were applid or not，A small，warty－looking growth，which had heen slowly growing for some time from the posterior thirt of the left vocal cord，and was now apprecially diminishing the glottis，was，on January ith， 1888 ，removed ly Dr．Mackenzie with laryngeal forceps，in the presence of Mr．Max－ woll loss and the members of the elinique．
On Janury woth， 1888 ，the tracheotomy tube，which had been plugged for about four months，was remeverl．The pationt＇s cou－ dition at this rlate was fairly satisfactory．The general intra－ laryngeal swelling，as well as the infiltration over the arytenoid eartilages，had greatly sulsided，and the range of movement in the right racnl corel had increasel．The patient was consequently alile to breathe with tolerable eomfort per wias naturales．Some llry railes were present at the rimht pumenary apee．There was no expectoration．
Remanks by Dr．Ifrater Markenzen－This case is un－ doubtedly an example of clironic laryngit is which had either under－ gone or was alwint to undergo tubercular hegeneration．Whilst There was no evilence that this change had netually taken place， the well－markwl laryngoseopic appearances and the state of the long，along with thi lacillary sputum，warrant ns in assuming that，to say the least，this specific degeneration was mot fur off． （ Finlea the larymgernje ha supplemented hy the microscope，it is frequently inninsitue to say whether a given lesion of the larynx is tuhercular or not．）Traclentony was henetieinl in two whys． 1．It rolioved the hreathing，which，from the amount of swelling and infiltration in the laryix，was greatly embarrased，and，by
doing so, benefited the hungs by promoting their ventilation. 2. It reduced the irritation of the larynx eansed by the acts of breathing and coughing. The inefficacy of local applications of lactic acid and of thymol was scen by alternating periods of their application with others of abstention from treatment. lodoform, formerly so much in vogue in this disense, has of late been largely supplanted, especially in the ulcerative forms, by these two remedies. By themselves they are all equally ineffective in this malady. In judiciously selected cases, surgical measures, either on the lines now indicated or by thorough removal and cauterisation of the affected parts after ilyrotony or hy endo-laryngeal means, appear to be the only method of radical treatment which promises satisfactory results.
gerban hospital, dalston.
treatment of ulces crumis in the out-patient department.
(By F. A. Philippi, M.D.)
Duning a period of about eight months, the treatment of ulcers of the leg and allied affections was carried ont accorling to the principle laid down by Dr. Unna, of IIamburg, at the Dublin meeting of the British Medical Association. The subjoined table shows the results obtained in a series of sixty patients, taken indiscriminately as they came under treatment.

| Nature of Disease. |  | Healed. | Discontinued Attending. | $\begin{aligned} & \text { rinsuc- } \\ & \text { cessful. } \end{aligned}$ | Total. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Callous ulcer ... |  |  | 6 | 2 | ${ }^{23}$ |
| Varieose ulcer H ... ... Healthy ulcer | ... | 7 | - | 1 |  |
| Sloughing ulcer $\ldots$ | $\stackrel{.}{\text {... }}$ | $\stackrel{3}{1}$ |  | 1 | ${ }^{3}$ |
| Indolent uller ... ... | $\ldots$ | I |  | 3 | 2 |
| Diabuetic ulcer .i. ... | $\ldots$ | - | $\square$ | - | 1 |
| Inflammatory uleer ... | ... |  | ${ }_{1}^{1}$ | - | 5 |
|  | ... | ${ }_{5}^{4}$ | - | 1 | \% |
| Total ... | ... | 45 | 8 | , | ${ }^{60}$ |

The manner of applying the dressing may be briefly described as follows: On the carefully cleaned and shaven leg a moderately thick layer of warm zinc-gelatine (prepared according to the subjoined formula) is applied by means of an ordinary brush up to the limits of the ulcer, which receives a sprinkling of powdered iodoform or any other pulverised antiseptic; for instance, subnitrate of bismuth, boracic acid or naphthaline: this latter being especially serviceable in reducing the offensive smell of many ulcers. A small pad of medicated cotton-wool is then added as a covering for the sore, and a gauze roller (Lister) wound firmly round the whole, care being taken to canse the traction to work in the direction towards the centre of the ulcer. When no more of the zinc-gelatine penetrates through the meslies of the gauze, the dressing may be considered to be completed. It is allowed to cool and become dry, whereupon the patient can be dismissed without further precautions. In some cases, and especially in the latter stages of treatment, the zinc-gelatine can be painted over the whole circumference of the leg, including the ulcer.

This dressing should be remored at the end of three or four days. In the cases on the above list, however, it was mostly allowed to remain unchanged for a week, on account of the patients not being able to attend more frequently, and although it seemed crident that it would have been generally adrisable to renew the dressing at shorter intervals, still the progress made was, as a rule, satisfactory cuough to permit of the longer period being netliced to.

The dressing can always he very easily removed with a pair of bluat-pointed bent scissors and. in case of necel, a little warnu water. It is of great advantage, for ensy removal, to have shaved the leg before applying the dressing; the gauze which forms, with the zinc-gclatine, quite a compact cusing, can then be pulted off the skin as readily as the peel from an ornuge. If the discharge should penctrate the bandage before the end of the weck. a sprinkling of iodoforn may be applied to the soaked spot, or a piece of clean linen simply applied as a covering, to lic renewed when it becomes soiled. The zinc-relatine is thms prepared: Oxide of zinc, gelatine, as 5 parts; act dist., 6 parts; glycerine pur., 8 parts; all by weight.

The gelatine is first dissolved in the water at a moderately high
temperature, the loss of water ly craporation being compensated for. When the whole is reduced to a perfectly uniform and even mass, the oxide of zine, finely powdered and mixed with as much water as is sufficient to produce a thin Iraste, is added, with the prescribed quantity of glycerine. The whole is well stirred, and after making uip för evaporatel water, poured out into cakes on a cool porcelain slab. It will be found to he of the ensistency of commonglue, of a pure white colour, and deroid of stickiness. For application, a sufficient quantity is placed in a small pot, which stands in a saucepan of boiling water, in the same manner as carpenters' glue is treated. When dissolved it $p$-ould not be thicker than thin syrup or common oil-paint. It generally requires the addition of a little water, especially when the same pot-full has been treated a few times.
The chief adrantage derived from this method of treat ment is the possibility of curing the uleer without confining the patients to their beds. Indeed, with the aid of this dressing, even large ulcerations were rendered perfectly painless, so that our patients could perform all kinds of work, even long before the sores were healed. It will likewise be found to be a great adrantage that the treatment is not entrusted to the patients themselves, who often lack patience and sagacity enough accurately to carry out the instructions given them. The uniform and firm compression it exercises on the leg will be found to be most serviceable in the treatment of raricose veins. Further, the discharge arising from the sores is effectually prevented from coming into contact with the healthy skin, while, on the other hand, it is able to penetrate freely enough to the surface of the dressing. It was often also noticed that the discharge of pus from the ulcers was considerably reduced, and the disagreeahle odour almost entirely removed. The simplicity and cheapness of this dressing are likewise greatly in its favour.
The duration of trentment varied from about three to sixteen weeks, which, it must be confessed, does not seem to indicate a very rapid recovery; but, taking into consideration that some of the patients had suffered for several months and even vears from their uleers, and further that whilst under treatment the patients were not incapacitated for work, 1 think the results will appear fairly satisfactory.

## ROIAL INFIRMARY, NEWCASTLE-ON-TTNE.

spasmodic torticollif, following inttre to the cervical spine: successfully treated by stretching the spinal accessory rebte.
(Under the care of Frederick Page, Honorary Surgeon to the Infirmary, New castle-on-Tyne.)
Is the year I8CG, the late Mr. Camphell de Morgan pullished, in the British and Foreign Chirurgical Reciev, an exceedingly interesting case of spasmodic wry-rieck, following injury to the cervical spine, treated by excision of a quarter of an inch of the spinal accessory nerre. The spasms were cured, but the sternn-mastoid and trapezius remained permanently paralysed. In 18e0, a carefully prepared paper, by Dr. Sturge and Mr. Godlee, was read before the Clinical Society, entilled "Stretching of the Facial Nerre for the Relief of Spasm of the Facial Muscles." On April 2fith, 1887, D. L., aged 24 , a strong muscular labourer, was admitted. under my care, with the following history: While engaged last Decemice in a rough game of football, hic was thrown and fell hearily on his back. twisting his neck riolently to one side. He was unable to rise, and had to be carried home, having lost the use of his limhs. Ife wals not unconscious. Ilis head was twisted to the right side. During the night he regained the power of using his legs. In two days the wry-neck had passed off, but lis arms remained paralysed for a fortuight. For some days the bladder required to be relieved with a catheter. In the course of a fenv weeks he recovered sufficiently to the ahle to resume duty. Whill at work, about 3arch 19th, the patient struck his head rinlently against an iron pipe. He fell backwards to the ground, and. on rising, found that his neck was twisted as it had been for two days after his former accident. On almission, the patient was in the following condition: When at rest the right shoulder was elevated. and the face turned to the right side. The deformity was evidently due to tonic contraction of the right sterno-mastoid and trapezius muscles. Any attempt made to straighten his head, a touch or movement, produced clonic spasms of the minscles named. by which the right side of the face and sl:oulder were almost lrought in contact. liis chin heing at the same time dra wn slightly towards the left side. Considerable pain accompanied the spasims. Rest
in bed, courter-irritation, and drum produced no cffect upon the deformit: Whating the emelusions arrival ot hy Dr. Sturg
 morvostretching ialikely to prove etheacinus," mamely, those where: "the spusm is contined in the musches supplied hy one nerwanly,"
 Acombingly, on dune قlst, sir months after the llrst ant thrin montlis after the recmul accianont, I cut down upon tha right - fpinal aceasory nerve, whe re it amorges from the stemn-mmstoin on its path (1) the frapezint musclo, passed my Anger bementh, and
 "hen Ine neceasnty, ultimntaly. to resort to Mr. Morgan's expedient 1 meloghteyl a plan sugatesterl to me by my frimul, Professor Annanduln and surcoundent the no ree with a silk thrend, so that, should section le foumel requi-ite, I could reach the nerve ensily withont nuening up the wombl. Tha next lay, though the tomio contraction whe unafferterl. the pationt expressad himsolf as fectingmuch more minfortable freer from clonic spasm and from pain. The womal healed reallily, and. fourteen days after operation, the silk theral wals withlrawn. Onduly 2l<t, the patient was discharged, all elonic spmem haring casaml entirely for same time. There whs -ueill, however, some Ionice ontraction of the sterno-mastoill, but it
 14th1, the putient is fref from deformity, in quod leatth, and able to do his ordinary duty without inconvenience.

## REPORTS OF SOCIETIES,

## CLJICHL SOCTETL OF LONDON

## Fmidar. dantary $\because$-7th, 1883.

W. II. Benamemt, M.D., V.R.C.P., Preaident, in the Chair,

Su-called Idizuthir Dilatation of the Colm.-Dr. Aserel. Montes
 -5.5, an habithad Irunkart, sutiered from enomons distension of the colon, with dy:pmeal and hronchitis; the girth was ower sixfy inches, and thi manare from the ensiform cartilnge to the puhes whenty-ix. There was allominurin. Ile was treated tirst liy Mr. Pracet at \&it. Thomas'a llome by repeated punctures. Thwse gare great relief; he improvel so much that he refneen further trentment, and returned to his tlrunken habits. He was admitterl into Univerity College llospital o weels later unter Dr. Angol Money". with the same enormons distension, livility, nald dsenneat. wha much relieverl with the Ing reetal tube, but sark and did a week afler iulunissinn. St the necropsiy nll the sigus of hathitnal drunkenness were foumb, inchuling typieal "hobnail" lirer. Ther" was enormous distension of the coln, principally of the simmoid flexure: which formeal two huge sace extending right acroxs the aindominal cavity. There was no erganic stricture. Ir, Money Tals of epjinion that a twist of the sigmnid thexure or a spasmotic stricture might have veen present, or else that some morhid state of the blond, or els the mere jresence of an excros of gas, might havestarted the diswase. The buwd was hypertrophinh as well as dilatel. He referred to lor. Cien's papher in the St'. Bartholumpue's IInspital Reports, and to Dr. (iondhart's case (Clinical Simertys Transactiuns. vol, xir).-Dr. H. idDes asked if the palient had had lishitual constipation. Hu referriml to rases which Drs. Bristome. and fearock had jublishet, and deseribod two eases semb hy himgelf. The tirse was that of a girl, nyinl li, who had severe pain in the alulomena, with constiparion lanting tion days, and unaflected by pargutivis. Ther abionara was "pmem, biat no olist ruction detected . It ther post-mortom examination the sigmoid hexure was f and enormomisly distambul, its circumference measuring twedre inches. There hal bern no rhironie constipation. The second case was that of a woman, apod :H, who hat a copinus

 treatnient. Sir Fixas: Deckworgit referred to the ense of a girl who had enormus tilatatiom of tho ceccum, with tympanitos and constipation, sul in whom there of the interatinal tract seremed to be mermal. Dr. Fwast nakel if there was nus allession of the
 adherent omentum, or ifs invagination into the enran of a hernia, had seemed to cauzo distension of the enton. noe such pationt who recoveret from neute olwtrection dienl a forv dope later of preumnaia. She wasthen fums (i) bave an ofrl hernia, and the
transwersn colon was lragged down at it a midnle to the delvis and
 He objectend to the torm " inlopathic" as applievl to Dr. Nonery's rase, and thought the elistension was due to some mhthsion, cuasing olstraction. and then paralysis of the howel. In such case, if gas were formal, very acate distension wombl oecur. He would ask again if there was any displaceme of of the aneatum or an montal hernin.- Dr. I'wanse thought the diatation in such cases as that tlescribed by Dr. Money was due to the furmantion of gas, eansent by the imperfect ligestion of fool.-l)r. Homason thought that 110 ense shonld be termed "idiopmethic" unless thit diagnosis ware veritied by postmortem ixamination. He mentional the cose of a genthema whase smplosed inliopathic tlistemsion was reliosed hy abdominal puncture. When ohstruction necured a secomel time it was tratend with nulum anrl belladonna, but withDut sucress. After death a stricture was found between the sigmoid tlexure and the rectuma, which might have leen relieved by colntomy.-Dr. ki. H'owner askitl if the mesoncolon of the simmial thexure ras su long as to allow the colon to be misplacied nud obstraction produced. - The l'mesidest had secm a case some yours agn in which great distension of the abolomen was produed hy congenital elongation of the sigmond thexure, which started in its proper position, thence "xtented up) to the liver, amp then finssed down agnin to join the recturo. It was full of gas, and so gigantic that it fillefl the abdomen. In another cuse the Iramsverse colon Whs still more distended; it orcupinal almost the whole of the front of the abdomen, the tistonsion being apparently due to chronic constipation. This had leal to the bending down of the trancyerse colon, nud, after a time, to ohstruction of the left flexure. There was vomiting, especially after aperients were given. The ohstruction could only be reacher by enemata whilst the man was on his hands and knets. Litule ly little the obstruction was overcome, and was afterwards trented in the same manner.-Dr. 1\%. OCosxon referred to cases of constipation cansed ly the abuse of mineral waters.-Mr. Stepmex l'ariex suid that his punctures were made into the colon where the alwomen was most prominent and tympanitic. The gas that escaped was at first foetid, then less so; and the newhe was then dramn uif as if the colom treer ruganiner its normal position. Tha putient, who Ths a drunkami, Ihat hat monstipation for months, and passed only gas and liquid whife under thr spleakers eare--1br. Ingel Moner, on reply, said ther was comsiderable alteration in the omentum, Which harl lost all ita shary (ontlin" and was thickemed and tough, though not di-placed inth a hminial sae. Tlas mesu-colon was not rumsually lone If Dr. Pearae's sugqustinn were adopled, the cunse of thro distumsion whe mot mudhalwancorl. Dr. (ices cases, and others which had hen publishod, mere appareatly simblar to A. Wose mentioncal by the I'mident. Profesar hirschapirnug. in the Archiv fïr Kinderheillitende, had pmblished an interesting paper on the subject in the new-born.

Irielspid and Witral Stenosis in bohich Physical signs of Pulmonary Arterial Tieflur vere mesent.-Sir Dyce Duckwontur, M.D., ibescribed this ense. M. S., agoll 23 , n married woman, withnut family, wns ndmittel into st. Bnotholomew's Inspital under his care in May, lis\%, suffering finm generiul drupsy and ayspreca. She hat had scarlet fever in early life, hut there wha no histery of rhemmatism or chorea. she had suffered from dyspras from the nge of 14 , and heal worse for tha last twolvo months. Drojey set in in the legs thre months previnusly, and then became meneral On arlmission she wos very dusky and blonted. The pulse was Ioz, harely perceptille. The cariliac impulse was difusmb, the alnex bat onterne the loft nipple line. There was a presystalic thrill oret the left yentriche, with inn extendel aren of cardiac dnlness in all diections, At tha apmex was a presystolic, followed by a systolie inurmur. The sygtolic murnme was over the right ventricle, and there was necontmation of the second pulanmary sonme. The liver was malarget, and felt to within two inches of the navel. There Was dulowses at the hase of both lumpes, sud crepitation. The urine was senaty and ne-fourth albuminous. The jegs were much swalled, lusky, amd purguric. she was trented with ligitulis and nitrons alher, and two sunces of hrandy. Conlpanded jalap powder was necacionally givin. lraprovement set in after ofew duys. nad the pulse fell to sh. The atbumen greatly
diminishat in the urine. lator on a regurgitant murnur when diminishol in the nrine. lanter on a regurgitant murmur was hered in the aren of the phimmary urtery. I secoud point of Systalic murnur was faintly horsl in the wentricle, and a pretemprerature was uanlly submormal. In threa nomeths are thationt sjemperature was unally submormal. . In threanonths the patient
left the hospitnt. Thiree werka lator she was readnitted in as bad
a condition as formerly, having spat some blood. On this eccasion she did not respond to treatment. She was made worse by prevalent fogs in October. The signs of pulmonary urterial reflux passed off. After increasing dropsy, dyspncen, and jaundice, slie died on Forember 8th. At the necropsy the heart was found much enlarged in all its chambers, weighing 24 ounces. Dilatation and hypertrophy of the right ventricle were found. The tricuspid valve was stenosed, barely admitting two fingers, its edge being thickened. The pulmonary valves were not markedly altered. There was decided dilatation of the pulmonary artery. The mitral orifico was iu a state of button-lıole contraction, with thickened chordse tendinex. Hypertrophy of the left rentricle existed. There was some hepatisation at the base of the right lung, but no infarctions in the pulmonary artery. The liver was eularged and "nutmegry." The kidneys and spleen were engorged and hard. The points of interest related to the etiology of the case and the interpretation of the physical signs on the right side of the heart. Sir Dyce Duckworth had several times noted accentuation of the second pulmonic sound along with tricuspid reflux. The signs of tricuspid obstruction were explained by the state of the valve after deatli. The pulmonary arterial reflux was probably explicable by the dilated state of that vessel, and the disappearance of the murmur was coincident with increasing low blood pressure, as the vital powers failed towards the last. It was surmised that the disease began after scarlet fever, but the author believed that in the great majority of cases of mitral stenosis, so common in women, the disease had a rheumatic origin, often in early life, the attendant articular symptoms being but slight and commonly overlooked. (The heart was exhibited.)

Embolism of Right A.cillary Artery connected with Mitral Stenasis. Crangrene of Fore-Arm: Ampnetation: Subsequent Embolic I'leura-Pheumonia and Death.-Dr. Burnesy Yeo related the case of a woman who was admitted under his care into King's College Hospital in December, [886, with great pain and loss of power in the right hand and arms, which came on suddenly, accompanied witll giddiness. The fingers, hand, and forearm on the right side rapidly became white, and motion and sensation were completely lost. She had had acute rhermatism, and suffered from dyspana on exertion. No pulsation could be felt in the radial, uluar or brachial arteries in the right side; pulsation could, however, be felt in the subchavian. The cardiac action was rapid and irregular, the impulse and sounds were very feeble. The patient also suffered from cough, dyspuoa aud great restlessness. In a few days the forearm became blue and mettled, subsequently black, and dry gangrene set in. Opium was giveu to allay the severe pain and restlessness, and iron. quinine and digitalis to improve the cardiac tone, As the ventricular contractions improved in force and regularity, a distinct, though feeble murmur could be detected which appeared to precede the impulse. Ifter consultation with Sir Joseph Lister it was determined, as soon as the cardine tone had sufficiently improred from the administration of digitalis, to amputate. This was done, about the midalle of the upper arm, by Sir Joseph Lister, under chloroforna, on January 14 th. The patient recovered well from the operation, hat two days afterwards pueumonia with pleuritic exudation occurred on the right side, and she died somewhat suddenly on the 19th. Past-morfon examination slowed considerable coustriction of the witral valve, and a large, old and firm clot in the left anriculax apyendage, from which, no doubt, the cmbolas in the uxillary artery proceeded. Hamoryhagie infaretions ware found in the right lung, und consilerable effusion of serous fluisl and lymph in the pleural envity, and ou the surface of the lung. The kidneys also contained old. small white infarctions. Examination of the stump showed the primary elot to be situated just at the beginning of the axillary artery. Dr. Veo added sonie commonts on this case and its managempnt.

Disense of the Aortic and Mitral Ialves of Iong Duration.- Dr. J. Fingston Fowher described this case, which was that of a man, aged 66, a wood turner, working a treadle lathe. Physical examination of the chest gave the followiug results:-There was a syatolic recession of the epigastrium ; the cardiac upex was in the fiftll interspace in the nipple line; the inpulse was forcible, indicating a moderate degree of hypertroply of the left ventricle; at the apex the first sound was accompanied by a systolic murmur at the base, in the aortic urea, there was alsort systolic bruit, and the second sound was replaced by a rougla diastolic murmur ; there was evidence of some hmpertrophy of the right rentricle; the valves on the right silf of the heart were judged to be competent. Ti:e pulse was At. Emall and collapsing. The urine was free from
albumen. The interest of the case centres in the fact that in Isit the patient, then a boy uged 13 , was ammitted into the $1 l$ iddlesex Hospital, under Dr. (afterwards Sir) Thomas Watson, with wcute rheumatism, for which he remained under treatment wearly nine months. During the eurly part of tha illness leeches wert applied to the precorfinm on more, than a dozen occasions, amd subsequently hlisters were frequently used. The evidnace upun mbich it was concluded that the valve lesions now present uccurred during the attack of acute rheumatiom in I831 was entirely circumstantial, no written evidence of the case having been found. it might be summarised as follows: I. The statement of the patient that on a certain occasien two gentlemen accompanying Dr. Watson on his visit, having ausculated the patient's chest, the one remarked that he heard a sound "like an old woman bluwing a bellows in : back room;" the other suid the sound was more "Fike to the whistling of asterm engine." 2. The fact that Dr. Wateon tolu the patient's mother on his discharge from the hospital that he was never to leave home without telling luer where he was, going. 3. That for three yeurs the patient carried a card with his nameand address upouit, so that "if anything halperud to him suddenly it might be known who he was and where he lived." 4. That he had had no return of the rheumatic attack, and hal searcely loeen absent from work for a single day during the last tifty-four rears. The casc was reported as being a rather remarkable example of a stationarylesion of the cardiac valves of rheumatic origin. in which compensation having been established, it lad remained purfect for nifty-four years, and now showed no signs of failure. The patient had been shown at a previous ureting of the Society. The President thonght that in this case, which be himselt liak examined with much interest. there was satisfartory evilente of valvular disease and of adherent pericadram through all thest fifty-three years. He had seen cases hating a distinct listory of heart disease for thirty or forty years, who were yet leadinir an active life and loing good work. In Dr. Yeo's case he tholtsht that death had been righty attributed to the pulmonary embolism and pleurn-pneumonia consequent on dislodsment of clote from the axillary vein during the manipulation of the limb at the time of the operation. He considered it remarkable that there slould hare been gangrene in that case. He liad seeu nearly all the big arteries of the bedy plugred by embolism, and yet there was sufticient collateral circulation to keep the parts alive. The mitral ralve, too, in Dr. Feo's aase, wonld admit tha poiuts of two fingers. The great rapidity of the pulse was probably due to thes old plugging of the basilar artery; and the confnsion in the heart's action, probably su produced, led to gangrene of the hand and arm, As to Sir Dyee Duckwortlis case he tlought the phynical signs could only have arisen from fulmonary reflux. Whatever the degree of mitral stenosis miglit be. he did not think it ever gare rise to the purple condition of the limbs without there was tricuspid stenosis as well. The recognitiou of this latter symptom he based on the same-signs as those sir. Dyo Duckworth had described.-Mr. BowLBI described two cases of ganorreme which he had lately seen. In one there was gangreate of the hand and of the forearm up to the elbow; in the other the thigh was implicated. In the furmer case the aorta was disersed, and clots extended from it into the smaller vessels. 'The second patient was an elderly gentleman, who had dry gumsene of tho thigh and leg. with mitral disease. At the post-mortem coanmination vegetations and clots were found on the valve, and thery was a phing in the femoral artery which was also atheromatous. In the first casv the smaller vessels wore plagged as well fas the main ones. This. perhaps, cans*d the gangrene, or that was due to the atheromatous state of the vessels and the embolism.-Dr. V. Dneivitx described the cane of a girl at the West London lospital, admitted with typhoicl, wild tedirium, and a hiegh tempratture. She was delirionsfor four weeks. Shothen had a dark patcliva the left funt, and the wholo limb below the linee bencame gangrenous. No pulsation of the femoral artery could be felt. I'robably a clat. from the leart plagged the iliat artery, as the heart was acting very feebly. The limb had been amputated by Mr. DrueveClarkt, and the patient was on a fair way torechery.-1)r. pe IIAvifitanj 11ALL, flescrihed the case of an old gentlemun suffering from asthma, and seat to San lemo. After being there four weeks he had fuenmonia, with intense puin in one. thigh and leg, comiur on suddenly at night. In the morning the ley was quite blanched and cold. A line of demareation formed, but le sank and died.Dr. I'ency Kind referred to the combined signs of mitral and tricuspid stenosis. In one case there was lividity, with a presystolic murmur over the right ventricle at the lover part of the

- ternum. The diagnosis was veritled at the post-morten cexuminaion. Another cance, howerer, which he mentioned, seemed to be "preserl to this opiniom. It was that of a young man who hal no nurked çansis, hut marked mitral and irienspid stemosis, probably of congenital nrigin. D) Ir. Y Fo, in reply, snid that mo detniled dissertion of the vessels of the limb had been male in his ease. but no disease of arterics had berell found anywhere.-I)r. Fowlane snid that in four eases of mitral and ricuspids stenosis he hat found all tha signs mentioned hysir 1). Duckworth. In some cases of mitral stemosis tho puhnomary artery might become on diluterl the the valves might in conserpuence befome incompetint amb not close the "penimi accurately. He thouglit that this hymethesis would also explan the yariability of the murmur--Sir Dyce. Decowortry quite agreed with the explanation.
Living specimens.- The following were exhibited: Dr. DE Havthinin lladi: A Large Nievis on the Back--Mr. Pink fir: An lufnat l'resenting Syuptoms of Struma and of Syphilis Concurrently.


## OPHTHILMOLOGICAL SOCIETY OF TIIE UNITED KISVGDOA.

Thersday, Jancary $06 t h, 1888$.
Prtestlay Smith, M.R.C.S., Vice-President, in the chnir.
A Case of Suhretinal Eiffusion in Chronic Nephritis in a CWikd. -llr. Jamps Andersos read notes of this case. The patient was a cirl, aged 9 yenrs, admitted into the Londou IIospital on Slurch 14 th, $1 * 47$, under the care of Dr. Samuel Fentrick, who kindly allowerk the publication of the case. The child compluined of sickness and headache, was extremely pale and wasted, but showed no cetema of fice or limbs. She passed 50 to 65 ounces of urime in 24 hours, 1010 to $101:$ specific gravity, mith one-fourth of allumen, some free blond dises and casts of various kinds. The heart was hypertrophied and the arterial tensiou was high. The nphthalmoscope showed double neuro-retinitis. The child had heen healthy till 18 months of age, then had an attack of measles, and was never aubsequently well. In November, 1886, she was notical to have frequent nocturnal micturition, and five weeks before admission she comphained of headache and sickness, and that she could not thread a needle. A fortnight before admission into hospital, she had a sevre fit, was unirersally convulsed, and then lay unconscious for three days. When she recoverel consciousness, she was practically blinid, but partly recovered vision. Ite first saw the child on April luth, and found sevcre neuro-retinitis with numerous hemorrhages and ensideralle pale exulation in the papilla and retina, best seen with $+4 D$. On the nasal sile of each fundus there was extensive detachment of the retina, grewish pink and glistening, the vessels seen climbing nver it with +011 . The surface of the detachments oscillated freely hat slowly when the heal was moved. The child was almost quite hind, hut mentally clear. The retinal detachments rapichly increased. Drasings of the fundi were exhibited. Thut of the left eye showed numerons Wadder-like bolgings round the lower and nasal periphery. That of the right eye showed four large detachments almosi meeting in the middle, leaving only $n$ narrow qualrungular chink, at the bottom of which the fundus could be seen. The child rapidly gnt worse, the face and limbs got very slightly puffy, the urine diminished in quantity and became almost pure hoich. Treatment had no effect. She secame more drows, hat vomiting, "pistaxis, and hlecting from the lowel, and died comatese on April :ltha, about three months from the lirst complaint of vizual defect. The necropsy showed advancell librobl entraction of the kidneys, the left weighing only thromequareps of an onnee and being much distorted hy a derp libmid scar at its upmer part, the right weighing two numers and $n$. half, not so soverely affected, but both flowing (mieroservieally) markerl filmosis with hisenormages. The mucous membrane of the pelves of the kidneys, the ureters, and the Whalders was infiltrated with hood, and that of the Hadder was ruised inta soft prop-like growths. The retinse wore serparatml from the choroid hy a char atraw-coloured iluid. The brain and other orgnas showed no kross Imions. Detachment of the r-tina from any canse, and lihroid kidney were both rare in childran. ()ne similitense in a girl, aged la jeara, had bern luhlishell in the Tranenctions. The rarity of such cases and the a hannee of arle-managht very readily eanse them to the overlouked
 is mmulue or mearlet fuver was probully the sturting point in the grtat unjority of ench cases.

On the Prognusis of Nimur-retinitis in liright's Disease.-Dr. Mhase M11ws, ulter refering to a case which first uttracted his altention to the suligect of the paper, explained the methon of whtaining his statistics. The mames of all the cases ofcurring in the Lnmon llospital Medical Register under the headings of "Acute" and "Chronic Remal bisunse" for the verrs 1884, 1835, and lest were tuken, and the autes cxamined and extracted, in all 4ticntries. This number was reduced lo $\because 6$ for readmissions of patients, and by fli for acute scarlatimul cases, so that the total number of cases under consideration was 375. In 2ll of these, no sepmate statement regarding the eyes had been made, hat there were gond gromads for the assumption that the number of cyes examined and the number of eyes examined and found normal were both smaller than they should have been. Of the remaining $16 \pm$ cases, 105 were stated to be normal, 3 were affected with other changes, 5 from the nature of the notes were rejected, and 51 were detinitely stated to have had the eyes affected. The mortality was as follows: 1. Totul number of renal cases considered, $3 i^{\circ} \mathrm{i}$ total number of deaths in hospital in $1854-5-6,14$. $\because$. Number of cases in which the eyes were unaffected, 105 ; mumber of deaths in hospital in sume perind, 28.3 . Number of cases in which the eyes were nffected, 51 ; number of deaths in hospitul in same period, 27 . The mortality of the affected cases was, therefore, in hospital double that of the maffected cases. The 51 nffected cases were then separately considered. By various means, including inquiries at Somerset llouse, 45 deaths out of the 51 affected cases had been traced. The $f$ enses unaccounted for were all ndmitted into the London Hospital for the first time in 1886 ; andl, since the Somerset Ilnuse indices were only ayailable up to the end of the first quarter of the past year, they could unt be traced with any certainty nfter March, i8s7, Sex: males, is: females, 13. Age: under 20, $2: 20$ to $30,13: 30$ to 40,$10 ; 40$ to 50,$16 ; 50$ to 60,6 ; (6) to T0, 4. Duration of Life. As the majority of the 51 cases wero already affected with neurn-retinitis when admitted into the hospital, it was possible only to give the length of life after tho first note was taken. One case lived nearly eighteen months, and two nearly fourteen mouths; all the rest died within the twolvemonths. It was further stated that, if all the 6 untraced cases were alive at the "present date," not noe would have lived eighteen months from the time the eye changes were first noted. The following 9 cases were quoted as of special interest, because the eve changes occurred while the patients were under observaltion in the hospital.

| Name. | Age. | Sex. | Duration of Life in days after last note of "Fumli Normal." |
| :---: | :---: | :---: | :---: |
| ת. B . | 17 | Mr. | f1 lays. |
| E. C. | 25 | M. | ${ }_{108}^{198}$ |
| T. C . O . | 51 | M. | ${ }_{\text {lid }}^{10}$ |
| G. A. | 31 | 3. | 1:0 -, |
| c. ${ }^{\text {c. }}$ | 417 | M. | 14.). in hospital; has lived fitcen months. |
| J. W. G. | 31 | 3. | Now in horpital ; since firte uote of changes. |
| F. C. | 63 | $\stackrel{\mathrm{F}}{\mathrm{F}}$. | 301 days. |
| II. V . | 23 | F. | (t) |

In order to le on the safe side, the enumeration was made from the date when the eyes were last stated to be normal, not from the date when the changes were first recorded. The duration of life, therefore, amongst these nine cases had not uveraged more than six munths. Regarding the eve clanges themselves, the hospital notes were not generally suticiontly full to admit of accurates conclusions being drawn. The list recorded change was in somes cases a slight haze, in others a pmpillary exudation, nnel in whers again one or more hemorrhages. 'Ilee only puper that the anther could liml which had any brenting on the yuestion of prognesiswas reforret to, namely, that lyy lir. C.s. Lull, in the lune halfyearly munbre of the Anerican (phethathoseopia Sucicly's Transattions. It was atated that, in the discussion following that puperp a case whs quaterl ly Dr. Webster of a elergyman who, ten or fifteen yenrs previously, had had this condition of the fundi recognisul, and who was atill living at the time of the merting of the: society. This case was quoterl as showing the inpertanco of compring brivate with hospital practier. The following conelnsions ns ragards the experience in the Lembon lospital were then submitted us leeing justificd hy the statistics: J. That the retimal
changes nccur late in renal disease. o. That their presence appears to affect the prognosis very materially for the worse, the mortality in hospital amongst the affected cases being at least donliled. 3. That the prognosis is so bad that not one has lived eighteen months after the changes have been noted. 4. That therefure the ophthalmoscope affords a most valuable index as to the course any given case of Bright's disease is taking (except, perlapps, in pregmaney cases), unless, indeed, it be supposelit that the mortality of the cases considered happened to be exceptionally high, independently of the canses at work which produced the coincident neuro-retinitis.- Mr. Smaf Sxhme (Shettield) also read a paper on this subject. He held that the subjects of retimitis albuminurica that cane hefore the ophthalmic surgeon were to be regarded ns having, generally speaking, a tolerally clefined, or a short limit, to their existence. This referred to cases at all ages. He did not think that the retinal changes ever preceded the hidney diseases, as some asserted they might do. He referred to Dr. C. S. Bull's observations before the American Ophthalmological Society in 18:6. Out of 103 cases 86 had died, 57 in the first and 12 in the second year ; of the 17 living 14 were seen during the last six months; i haid been seen seven years previonsly. Dr. (Truening reported of 100 cases that none had lived over two years. Mr. snell alludel to the frequency with which the diagnosis of renal disease was made through patients seeking advice respecting sight, and notwithstanding the numbers that thus passed before the oplthalmic surgeon, his knowledge of the cases was for so brief a period, that the final results were not easily noted. ITe could only just now trace eight cases to the enil. The respective ages were $3 \overline{3}, 34,56$, 59, $31,66,23,39$; aud the periods of death after the retinal mischief was diagnosed 6 weelks, $4 \frac{1}{2}$ months, $5 \frac{1}{2}$ months, 10 months, $2 \frac{1}{2} \frac{1}{2}$ months, Tr months, 8 weeks, if months. Reference was made to the better prognosis in the retinitis associated with pregnancy.-Mr. Cirichetr thought that all ophthalmic surgeons now recognised the gravity of the prognosis in these cases. He recalted three instances occurring in medical men who lived for five, thirteen, and ten months respectively ufter the discovery was made ; in the first mentioued patient only one eye was affected.-Mr. Mcilardy thought a distinction must be made between losspital and private cases. He had only known one hospital patient live for two years after the condition was discovered. In young persons. in those in whom it was associated with excessive drinking and in nssocintion with pregnancy, the prognosis was not so Bncl.-Dr. W. J. Colluss had seen one case of subretinal effusion in acute nepluritis precedeel ly blindness and severe neuro-retinitis. He remarked that Dr. Miley's paper necessarily only dealt with those who were ill enongh to eome into a hospital, and concludel by disonssing the proximate eause, with especinl reference to hypertrophy of the left ventriele, and the hydromic condition of the blood-Dr. Vas Milingen had seen one case eight years preriously where only one eye was affected; the patient was still liviug.-Dr. Axpmaso., in reply, doubted whether theye was much difference in prognosis hetween hospital and private cases; the prognosis was very bad, though exceytional cases were necasionally met with. lie belierel it was sonetimes impossible to distinguish between cerebral and renal nenro-retinitis.

Toxic Amblyopia.-Dr. Thas Milinges real a paper on this subject. During lifteen years' experience in Turkey and the Levant he had not met with a single instance of alcobolic or tolacco amblyopia iur a Turk male or frmale. As regarded the tobacco this conld not be attributed to the kind suokect, for Turkish men snd women used such a large quantity, that the amount of nicotine would correspond with the amount in the smaller quantity of stronger tobacco used in this country. He therefore attrilnited the exemption to the moffe of smoking, and helieved that poisonous symptoms refulted from the juice of the tobacco being allowed to come into contact with the mucons memhrane of the month in a moist state.. Turkisll women did not drink at all; some of the men drank raki to excess, bat he had never known an instance of alcohotic amblyopia from this cause. On the other hand he had met with eight instances of alcoholic and two of tobaceo amblyopia in foreigners resident in Turkey.

Siviny and Card Specimens.-Mr. Criccirat: New lustruments (new Fixation Forceps and Linear Knife),-Mr. 11 figmens: Result of Operation ley Cautery for Conieal Cornea-Mr. Giexs: Growth of New Lens Filres after Spontanenus Ahsorption of Traumatic Cataract.-Mr. Woyxe: Condition of Retiua Suggestive of Cysti-cerchs.--Mr. Martringa: Iridiremia with Congenital Disloeation of Lensee,-Dr. Wells: Case of Frontal Mucocele.-Mr. Julbr: (1) Alluminuric Retinitis. (2) Persistent hyaloid Artery.

##  <br> Whanesday, Jayeary gith, lasa. <br> Arther W. Edis, 11.D., l'resilent. in the Clair.

## The following specimen- wre exhibited by Dr. G. Grantille

 Вамтоск:Hematosalpinx with Cystic Disease of the Ormy.-The inatient, aged 30, married, had given birth to a five montha' fottus five years previonsly. Recovery after the ennfinement liad not heen satisfactory. She had sufferel from utprinc bemorrlaze ever since. which had not been checked by the nsual methods of treatment to which she lad been subjeeted. The uterus had been dilated and curett ed, hut the hamorrhage persisted. The diaguoxis of the case was by no means casy; it was supposed that there was $\Omega$ fibroid tumoir. He decided to mpen the aldomen to lind out what really Was the matter. It was found that the left orary formed a hlonil eyst of considerable size, while on the right side there was a largr. hiematosalyinx, the orary also being muchenlarged. These were very adherent, and the peritoneal cavity had to be washed out and draineri. The progres, of the case after the operation was eminently satisfactory, but he was disappointed to find the patient had not yot rid of the hiemorrhage. Menstruation had returned and was very excessive. The tubes were removed as close as possible to the iterus. Ile alluded to the observations of Dr. Jolinstone, of Danville, Kentuck $y$, in which it was shown that the application of the ligatures close to the uterus was likely to check hemorrhage. He thought the fainne in this case might be due th the imperfect application of the ligatures, although he had endearoured to upply them as near to the nterus as posible. or it might be due to soine condition of the uterus. This the future would shors.
Blood-Cyst of the Orary and Irydrosalpinx:-In this case the left orary constituted a blood-cyst, which in the recent state had contained five or six ounces of liquid blood, and was rery adherent. On the right side there was a hydrosalpins with enlaryed ovary. In this case also it had been necessary to wash out the peritoneum and drain. The result of the operation, whieh was performed on November 20th, had heen perfectly satisfactory:
Removal of Appendages for Fibroid Tumour and Iramorrhage.The ease was interesting from the condition of the Fallopian tube. The appearance of the sjecimen gave no inlea of its appearance at the time of removal. The sacculated left tube exactly resembled a knuckle of intestine. greatlj distended, with semi-transparent walls. Adhesions added greatily to the difficulty of the operation. On the other side, the orary was large and contained a cyst, and the tube was thickened nud tortuous. The patient had had a number of ehildren, and was 45 years of age. The hemorrhage was troublesome, and he could suggest nothing but the remoral of the appendages to check it. He had not anticipated finding anything of the kind he sam on operating. The tumour tilled the cavity of the pelvis and rendered it very diftiente to provide for drainage. Ite was obliged to put a tube domi on the right side of the uterus, and this he removed three days later. The patient did well.
Cystic Disease of the Ozary.-The history of this case was that of an extra-luterine pregnancy. Fight years preciously Dr. Snvage, of Dirmingham, had removed an orarian tumour of small size. She was then 17 years of age. A year ago she married, and three months ago menstruation ceased. On lifting a meight one day
she felt she felt a sharp, pain and became ill, heing obliged to keep her bed, and having a high temperature. On admissima a tumour was found mine right side of the uterns, fipping down into Douglasis pouch behind. It could he distinctly felt orer the pubes, and there was a clear resount note orer the tumour, rendering the diagnosis somewhat ohscure. This was sulsequently accounted for by the discovery that the caecum was adherent to the front of the
tu tumour and over the right half of the fundus uteri, and had to he seprarated during the operation. The cyst. whiel was the size of a gooses egg. lurst whilst separating the afhesions: it contained a fingen of hard blood clot. It the hot tom of Douglas's pouch the broken downo and the pelvis cleared out with a stream of water A drainage-tube was then inserted. The patient was comralesent -Dr. Rourti pointed out that hemorrhage occurring in cases of fibroil tumour was often due to the preseuce of small mucous polypi. The eavity of the uterus should always he examined before proceeding to the abdonninal operation. Thii was the probable explanation of the farourable results of electrical treatment
in such cases. Mr. Miman Sitpon, Dr. Masefir Motilis, Dr. li. T. smath, and the l'mestmet, took part in the disenssion.
(yste from the Lahio Minara.-Dr, K, J. Smitil exhihital two cysis whelt he had removed from the hatia minora of a woman nated es, who had hal nne ehith elemen pare previously. Thes wore phacel smmetrically on either side within a third of an inel of the elitoris: The contents were muens.

Iresident's Address-The l'mesinest then dolivered his adalres:

l'athologich. Sertion.
Fmpar: IAviaty 18tu, IR8s.
( $\because$ B. Ball. M.I)., I'resillent, in the Chair.
Dyseqtery. Mr. Conohns Sormas made a communication as in the cause of the outbreak of dysentery with which he had to denl in the Richumbl Lumatic Avylum, Muhlin. Mr. Norman stated his helinf that the onthreak was due to defective draingge, and laid down the following as jrobable gentral laws that regulate the刀]川manace of llysentery: J. Dysentery is enmmuneatel throngh exhalations from a soil saturated with the products of organic deenmpsition. ".. The incilenee of dysentery at partientar times and seasons is due to the inereased moisture of the snil at such times. 3. When dysentery breaks nut there is conmonly a concurrent cntbreak of severe diarrhen. 4. 1)rsentery appents where dysentery has been hefore. 5. When dysentery appears over a large arca, including its own haunt, it appears in the latter situation in its worst form and to the greatest extent. fi. Like other malarial affections, dysentery attacks hy preference those who are not acclimatised to the enditions that have produced it.-Mr. Freazeis believed that dysentery was and could be contagions, for he remembered making a post-mortem examination in the lichmond liospital from which he gat $a$ most severe attack of dysenters: and which he believed to have been produced by contagion. Jlu was not antistied with IIr. Conolly Sorman's olserviations upon malaria. From the most remote times dysnotery had been epidemic in Ireland. In the hateles during the reign of Elizabeth the soldiers were decimated by it: the same thing neenrred dhring the wars of Cromwell and William IIT; and yet Jreland han always heen remarkahly free from malaria. But that dysentery might be associated with malaria, on the other hand, was possible. Malaria, as such, was confined to rery limited districts in Ireland. He knew that it existed along the Dublin river: hat there liad hem no enexistence of dysentery in those spots. Another remarkablefact was that it occurred at certain seasons of the year. It was well known to break out in antumn, especially after the first frosts. Which was acenunted for in former times hy prosnns drinking water containing animal and vegetable matrial in a state of flecay. As for its mortality, he was resident in the hospital cluring the years 1847,1843 , and 1819, am had to attend specinlly upon fever and dysentery : and the mortality in easea of dysentery of which only the veri- ind were uimitted was three times as great as in the worst fiver enses; it amonnterl at ones freriod to one not of every four eases. Dr. ('lieyne usal the remarkable expression that dysentery was "fewir turned in on the Inwels." llis preparations illustrative of the dismase wre in the Richmond hespuital, and werw describeal in the series of the bublin hospion rejorta-Mr. Aonmay replied.

Silerasie uf Brain and sipinal Cord.-Mr. Waleter Mhenarn, of Lombomerry, read a pajmer umon an oliscure" case of cerphroepinal disense, and exhibited mieroscopic sections of prtions of the spinul cord and contral nervons system. The chso in some
 three specimens taken from the subjert of the casp hat been submitted to him ly Mr. Bernard. The first was a section of the upper part of the medilla oblongata, and he had leen unable to satisfy himself that there was any selemsis in it. There was a Epot in the centre which uppeared unstained ; hut that might have been owing to a defect in the staining. Another spot looked somewhat as if the nerre tisaue had gone, and had heen replaced by connective tissue. Another specimen was from the middle part of the cervieal spinal corl, and tha anterior eornu on ome sille of this liad disappeares). In could not satisfy himself that there was any increase of eonnective tissue: it lonked more like atroply. The third specinen was a section of the nptie nerve, and in this there was an accumulation in some places of
round cells, whieh senmed to indicate neuritis to be [the pathoIngienl expressinn of the optic neuritis which Mr. Bernat saw.Dr. Fiser made some remarks, and Mr. Bewnarin replied.

Suicilal IIound of the IPart reith a Pin.- Mr. Whatisa Tmonsos communicated a cuse of sucicidal wonnt of the heart with a pin. The hetul of a pin was discovered in the fifth interenetal
 wards. The pin had Irawersed the pericardim, and wounded the anterior wall of the left ventricle, the pericardinm containel seventecti nunees and a half of bloody ilnid, and there was in small rent in the wall a guarter of an inch in diameter, which was tilled ly bombelot. The surface of the ventricle in contact with the pin was tom to the extent of nemrly an inch; a small vein Wers also wounleyl-IIr. Foot refirred to the case of Almiral Villemenwe, who commandeld the Frencla fleet at Trafnlgar, and whome time afterwards piered his leart with a loner needle. I case cume under lis (Dr. Font's) notice of a chitel into whose leart a needle rent from its mother's dress as she was elasping it to her hreast. She immediately ran with the child to the Heath Ilospital. He distinctly saw the nseillations of the unsedle caused lye the action of the leart, ned Irew it out with a rotutory motion, in ordar in lessen the chance of hemorrhage. The womanhrought the child to him next duy, nothingfurther happened. In Warsaw the latest treatment for cholera was puncturing the heart with a meelle tn stir up vitality.-Mr. For mentioned a case of a nobleman of Turin-a courtier of King Anadeo-rwho was lilled while asleep ly his wife, who drove a golden neddle into his chest at a spot ascertainel from anatomical plates to be ner the heart. Fischer eollected 453 enses of wounds of this sort, in the majority of whiel death resultel from the pericurdinm heeoming filled with hoord. In a case by Dr. Moxon, exhihitel before the CTinical Society of London, a large pin was seen sticking in the elest of the patient, and moving with each motion of the heart, lut apparently cansing no trouble whatever to the patient. In annther case a knitting-needle, shot from a toy pistol, perforatel the right rentricle of a boys heart, Wint into the amricle. and transixed the valves, and yet the loy lived for a considprable time. In another case a boy lived for five weeks after his heart had heen pierced hy a womlen peg three inches long. In the case of the wroman who drove the thirty needles into herself, denth reaulted from a wound intlicted by only one of them upon the superior rena cara. In another cose a pilin found its way into the thoracie duet, and the patient hed to ilenth. A most remarkable case was that of a medical student, Who, While on a "sproce" passed some pins intn his lieart. IIis pericardium was opened, and the head of a bin was found nutside the wall of the right rimtricle. It was graspeyd, ant a slight incision mas made in the rentriclo to facilitate its removal ; hat the systolic action of the heart carried it in, and the pin was still in the roung man's rentricle, and occasioned him no trouble. l'rufpssor Christisom recorded a case of a man roumled by a bullet, which found its way into the right ventricle of his heart, and it remained there for two yens, oceasioning hini no troulle, and he eventually died of pleurisy.-Dr. frysy saicl theqe eases showed how toterant the heart whe of injury, provided certain bortions of it were not injur d. The walls of the heart were tolerant of injury so long as there was no hicmorrhage to stifle the heurt's uction. But thera were cases of dath immediately oceurring from very small injuries to the nerrous ganglia.-Mr. Frazera said that amongst the Japanese puncturing of the heart was a Jirimitise mode of treatment for the cure of certain affections. He loul a note of a gost-mortom examination made while he was atumant, in which he found a needle an inch and a half Jong in the surface of tho heart, inside the perifardinm, the surface of it being envered with old lymph.--Dr. Whiter Sminti mentioned a case of suicide which came within his knowledge. It was a goung lady who betme insone. One day, while tro nures wore in the room with her, she drove a hairpin, which she had secrated, into her abdomen through the umbilicus, uttering no sound whinver or expression of pain, She told the superintendent next day that "she had done it." He Jookerl at her ablomen, saw momark, and disbelievel her; but symptoms of peritonitis sonn appearend, and slie died, and on at past-mortem examination the hair-pin was found lying amongst the coils of the intestine.-Mr. Mononx mentionel a case of a person who attempted suicide hy working a hoole in the abdeminal wall, abont an inds on the left side of the nmbiticus, with the end of a lucifer mateh.-Mr. Cox gave a case of a man who, white suffering from delirium tremens in an asylum, wounder himself over the heurt
and in the arm with the sharpened end of a spon,-Mr. Thomson brisily replied.

Multiple thicesses of the Jicer and Landys.-Dr. FiNisy uxhilited specimens illustrating promic multiple alscesses of the liver and lange, which had rum a riside conrse of about ten dars, and in which jaundice and the expectoration of pus hat ncenrted but five days hefore death. The patient, who hat heen admitted under Dr. Fimn's care into Sir l'atrick Duns IlospitaI on Sovember 16th, 1887 , gave a history of having been treated for pain and suffering referred to the Ieft side of the abdomen, over four jears previonsly, and of the question being discussed as to the existence at that time of cancer of thestomach. He died on December 2lst, and on pust-martem examination, in the sitnation to which pain had heen referred, there was fonnd in abscess, shut in hy firm and old adhesions of the peritonewn, and limited by the left kidney, the lower third of the spleen, the tail of the phacreas, and the superior surface of the splenic flexure of the colon. The abscess contained a couple of ounces of grumous, cheesy matter. The puints of interest were (I) the long duration (orer four years) which had elapsed between the primary inflammation of the peritoneum and its subsequent conversion into an abscess; and, as a corollary to this, the dauger, remote as well as immediate, attendant on peritoneal intammations: (2) the mode by which the secoudary ahscesses of the liver and lungs were de veloped, namelr, by the pus directly entering the portal circulation throngh the communication with the spleen, and thence again by the hepatic veins it was carried into the lungs; and (3) the short time which elapsed between the direct infection of the blood and the occurrence of lung abscesses, a period which may be set down as under five dars ; (t) the formation of the multiple abscesses was embolic in its nature, and accomted for the number and small size of the hepatic abscesses-Dr. Waloter Smitir made some remarks, and Dr. Finsy replied.

## BRADFORD MEDICO-CHIRURGLCLL SUCLETY December Meeting.

T. W. IIrme, D.A., M.B., President, in the chair

Mesenteric Cyst.-Mr. llomnocis, Surgeon to the Bradford Infirmary, showed a mesenteric cyst imbedded in the meso-colon. Above it was adherent to the great currature of the stomach, at its lower border the traneverse colon was attached. It extended a short distance between the liyyers of the gastro-splenic omentum. The cyst was thick-walled, and lined by a smooth membrane, which ras shreddy at points. On its posterior wall near the lower part it communicated freely with the stomach. It contained pus. The clinical history was notable in the fact that the pms had nerer been vomited lut passed by the borrel. Its origin was considered doubtful, as suppuration destroys the distinguishing features. lossible origin from mesenteric cyst, hydatid thmour, suppurating mesenteric gland, or localised peritonitis following gastric ulec $\mathbf{r}$ was discussed. The patient had been under the care of Mr. W. L. Roberts.

Perulent Ophthalmicu of Infants.-Dr. Bell read a communication on some destructive diseases of the eye, in the present case with special reference to the purulent ophthalnias of infants. After laving dealt with the symptoms and progress of the disease, he showed by means of figures the great frequency of the affection and of Windness consecutive to it. He urged the necessity of early treatment, which should consist of frequent washings of the eyce with warm water (lroppeed from cotton wool at some height above the face, and the application of a solntion of sulphate of zinc, grox to $\tilde{J}^{Z}$ vij, or of sublimate of mercury, gr. j to $\bar{z}$ viij. or of nitrate of silver, gr. j to 5 j . Me had for some fime beent trying to finel a thorough means of spreading the requisite information among the poorer classes, and he was glad to be able to inform the Society that he had been able to secure the assistance of the vaccination oflicer, who attached the following instructions to each raccination form sent out in loradford:
Instructions regarding A Feteborn Infants. If the child's eyelids become red aud swollen. or hegiu forun mith matter within a few dags after birth, it is to he taken without a day's delayy to a doctor. The disease is very dangerous, and if not at. once treated inay destroy the sight of both eyes.
Dr. Bell added that lie hoped this mode of convering information would in a short time be extended, and adopted throughout the kingdom. Jhe had observel that the application of solutiou of nitrate of silver to all cases of new-horm infants in somo lying-in hospitals had reduced the cases of purulent ophthalmia from ${ }^{5}$ to $\because 2$ per cent.
Cerebral Tumour:-Dr. Herbert Major showed a specimen
from a case of corebral tumour. The patient was a man, aged 31, who had suffered from headacle and at times giddiness. Temperate; no history of syphilis. About live weeks prior to admission he had an cepileptic fit, which mas followed by slight weakness of left arm and leg. A week afterwards flere was a second fit of greater severity, with a further loss of lower in the left limbs. In this, as in the subseruent fits (seven in all: the sequence of the conrulsive movements was sail to have been: left forearm, left arm geuerally, left leg, left side of neck, bead being drawn to left side; right side of lody not convulsed. Ile complained of very severe headache, and had a dazen expression when admitted. Speech was somewhat slow. There was no definite baralysis of the face, lips, or tongue, but marked paraly:is, with rigidity, of the left arm and (somewhat less) of the left leg. The superficial rellexes on the paralysed sile were lowerd, lut the knee jerk mas increased, as also the wrist jerk, and ankle clonus was present on the paralysed side. Susibility apparently unaffected; the special senses normal, and there was no optic neuritis. He was treated with bromide of sodium in 30 -grain doses, but grew steadily worse, and died about ons month after admission. At the posi-mortem examination a caseous nodule was found in the upper part of the right ascending frontal convolutim. The pia mater over it was thickened. congested, and adherent. The other parts were apparently healthy. The case was bruught formard as one in which the growth might possibly have beeu successfully remored hy operation.-Mr. Sameet Longr, jan.. detailed a somewhat similar case in which, from falure to observe the significance of certain facial srmptoms, trephining proved to hare died of cerebral abscess.
Post-Jasal Grouths-Dr. ADouf Bronner said that post nusal growths or lymphoid papillomata were a "local lyppertrophy" of the normal pharyngeal tonsil or retinoid tissue situated at the vault of the naso-pharynx." Post-nasal growths were of great importance in their relation to diseases of the throat and ear. They were often the cause of bronchitis, pharyngitis, asthma, and of diseases of the middle ear. Of 98 cases of diseases of the middle ear in children under 15, seen by Dr. Bronner in the last trelre cases of 52 cases, or 55 ner cent., had post-nasal growrths. Of 81 cases of post-nasal growths 70 , or 87 per cent., had diseases of the In adults other diseases of the naso-pharyins and are ander- 15. the nose became more frequent, and were in their may just as important for the treatment of diseases of the middle car as postnasal growths were in children.-Dr. Major drew attention to the effect of post-nasal growths in causing contracted chest in children.-Mr. R. II. Meid and Dr. Govder commented on the paper.

## PATHOLOGICAL SOCLETE OF MALCHESTER. <br> Wednesdat, Jaxuary 18 th, 1888.

A. IF. Stoces, M.R.C.S., President, in the Chair.

Cystoma of the Orary of a Fetal Cat.-Dr. 1. Ronissos showed sections of a cystoma obtained from the left ovary of a cat at about the seventh week of fetal life. The cysts were two in number, coramnnicating with each other by a narrow neck; and both were lined hy a low cubical epithelium. They were situated close to the hilus, and were developed from the tubules of the Wolnhan body:

Adenoma sehareum.-Dr. Brooker shotred sections of an adenoma of the sebaceous ducts. which had been excised from the scalp of an infant. It was said to have been noticed very shortly after birth, but had grown somewlat razidly of late. It mensured one inch by three-quarters, and was exceedingly like a xanthoma in its out ward appearance. The surface was smooth, bald, slightly raised, and yellowish. llistologically it wis fonnd to consist of $\AA$ pure hyperilasia of the gland, causing atrophy of the neighbouring hairs and sweat ducts by pressure.
Infartile Paralysis.-Dr. Asums showed sections of the spinal cord of an infant aged 9 months, suffering from acute atrophic or
" infant hefore its denth, which was paralysis occurred about six weeks the paralsis, whe whing to the parents, was somewhat şudden of accompanied by muscular twitchings and conrulsions. The $p a-$ resis of the legs was noticed first, then arms as well as legs; later she conld not sit up, and there was complete loss of roice. The paresis of the limbs continued with but little improvement till death. An examination of the cord showed extensive changes
in the cervical and dorsal cnaryment, boing well marked in the dorsal and uppre cervical romion. The. prsals entering the anterior horne were gorged with hbod ant surroumded hy many leumoeytes. The grey subtamen entainoll faty erambes, amb intritus, which was rery friable. The emulate nerve eells had in many phene enmphetoly disappearem; in other pheres they were mand going degemeration. In thes pons and medulta the privaseular apaces were culared, and the vesaels gergid with blockl.
 the Anatomy of the suspersory ligatment of the Lans--Other preparations were exhibiten as eard specimens.

## SHFPRYELD MEDJCO-HHLLRCHCHL SOCHETY. Tutmsbus. J.intativ l!tu, tR8.

M. M. ne Bartolome, M.D., l'resilent, in the Chair.

Nere Section for Hry-Nek.-Mr. I'vi-Suita showed a man, aged 3!), in whom he had divited the right apimal aceessory nerve for severe convulsive wry-neck. The movements had almost entirely ceasend, enabling the man to resume work. The sternomastoid and trapezius were much wasted.

Iaparotomy-Mr. I'vi-Saitur relnted a case of successful laparotomy for acute intestinal obstruction caused by a Meckel's diverticulum from the ileum in a bay, agen 13. The patient was shown at the meeting.

Cises.- Itr. Sinble introulueal the following patients: 1. Man With ehancre of upper eyelid (healed). ㄹ. Man with piece of steel in lens for ninetcen ycus, lens remaning rlear except at the situation of foreign hody (eneapsuled) at the fosterior part ; the vision was goal. The ease was deseribed in the Ophthatmic Review of 1831. 3. Staining of majunctiva with nit rate of silver.

Myrndema.-Mr. W. Hakein Joxis slowed a case of myxoxdena in a married woman, aged 51). The disease had been gradually coming on for the last four or tive years. The symptoms were great ansmin, with limited rosy patches on hoth eheeks, centre of forehead and lips; swelling of cutaneous surfaces, which dirl not pit on pressure ; comrnencing atrophy of both optic discs; pupils sensitive to light : systolic thasic bruit; exaggernted patellar retlex; urine about a pint in twenty-four loours; specific gravity 1014-10:2) ; full of phosphates but not almminous (it contained alhumen cighteen months ago) ; termprerature in mouth $96^{\circ}$; pulse th-ir): general lethargy, slowness of sprech, and stammering; slowness of movement and sensation; umpleasant taste but not smell: the thyrod was larger, especially in its left lobe, than in women of the same age; the liams hat the characteristic spadn-like appearance. Although speech was slow she could read flumtly.

Disease of lommur.-Mr. Fardann showed a thigh bone which had bon aeutely inlamed, mueh thickened, and the medullary eanal filled from cond to end with cheesy pus, whieh he had ampurtated at the hip-joint three weeks previously; the patient had made a rapill reenvery.

Colotomy.-Dr. Gwixne, gare the notes of a ease where he hat performed left eolotomy for ohstimate ennstipation of several months' standing relievel by oceasiomal attack of diarrhoea. The patient was a woman, aged th, unnarried. The case gradually got worse, with great distension of abulomen, and frequent vomiting. The patimit now (a year and a hulf after the operation) enjoyerl gnewl health. There was no history of syphilis. The pain was always reforred to the left groin, and since the operation she oeeasionally suffered from pain in the sama region.

Hanymas sonety or losinos. The following is a list of the nam+s of gentlemen electel by the Council as offieers of the socjety for tha year l\$88:-l'risident: *William Salgwiek. Viee-1'residfents: Dr. 'T'. l'inzard; Jr. Jolu Williams; "Mr. II. W'. lage; *1r. William E'wart. Troasurar: Mr. (i. I'. Pield. Honorary Scerntaris: Dr. H. Handield-Iones: *Hr. C. B. Lockwoot. Conncil: Mr. V. II. Champneys. 11.B.: Dr. I. JIughlings Jackson, F.R.S.: Mr. J. Virnest Lane: Dr. Li. S. Mair: Mr. C. W. MansellMoullin ; Ir. IL. II. Milson; Mr. A. J. J'pper; *Mr. Edmund Owen: "Mr. Mralerick J'reves; "Dr. Stiphen Mrekenzie; *Dr. 1.. C'lifforit llealn: *Mr. J. It. Drew. Thosn gentlemen to whose names an gasterisk is prefixet were not on the Council or did not fill the same officer last year.
Suchesseit Vaccination-Dr. J. Ih. Irwin has received the Government grant, amounting to $\mathrm{L}+1 \mathrm{li}$ :., for suceessful vaccination in the Whitehaven district.

## REVIEWS AND NOTICES.

Abe Vimbimich Contighors? Ry Johe Pahkin, M.D., F'.l.C.S., formerly Her Majestyos Mmpieal Inspetor for cholera in the W'est Inclies. Popular bitition. London: Sampson Low ant lio. $188 \%$.
Ture author. who died in lRag, at the ripe age of sf, had, during his life, seen th great many cholera epidemics, and had rvidently pondered over the sulyect. It the same time, the information contained in the editorial note by the author as to the conchasive results obtained on a "erneial tust" of his discovery of the antidotal properties of earbonic acid gas in cholera, gives rise to a feeling of diffidence on the part of the reater. If, as the editorial note would lead one to suppose, his suceessful trentment of cholera in different parts of the world was "so notorious," that Her Blajesty*s (invernment again appointed him Hedieal Inspector, one can only express surprise that so useful a method of treatment has not become general. The introdnetory ehapter is a very interesting, if somewhat highly coloured, picture of the progress and nature of the epidemics which have devastated the habitable globe.
The author points ont that far baek in history, when human intercourse was extremely restricted, the idea of contagion did not and could not have existed, since the inhahitants of one town being ignorant of the fact that the disense with whiela they were aflicted also prevailed in another, nust hare considered all diseases as endemic or sporadic. Even if this were the ease, it is a feeble argamentative weapon with which to overthrow the aceumulated evidence of the contagiousness of epidemics. Scarcely more to the point is the contention that, according to the contagion hypothesis, those most exposed to its influence ought logieally to suffer most. No allowance is made for the other factors which influence the conveyance and course of any given disease.

The author combats the circumstantial evidenee in favour of the dissemination of choleria through a contaminated water supply, in opposition to which he quotes isolated instances in which the whtez supply does not appear to lave been implicated. A grent deal of space and argument is devoted to discussing the spread of the plague-a matter which, if interesting, is not possessed of present importanee.

It would be tedions and unprofitable to analyse in detail the individual arguments advanced, which for the most part are basen] on npparent exceptions to the generally obscrved method of disease converance. While the work shows that the author has had an exceedingly oxtensive experienee of plidemies, and had, moreorer, carefully read up the suhject, it also proves his jutgment was warped by a preconceived idea.

A Textbook of Midwifery, By the late Otto Spiequlbeha Jrofessor of Obstetric Medicine in the University of Breslan. Translated from the secund German edition by J. B. lltary M.A., M.D.Cantab. Vol.I. London: The New Sydenham Society. 1887.
Professor Spisabibwho hegins his work, as is nsual, with the deseription of the female pulvis rnd of its contents, hut that of the embryo and its appenduges is relegaterl to the second volume. on the ground that, us it assumas at several points a knowledge of the changes in the uterus brouglat nhout by pregnancy, tha subjeet cannot well he disenssed earlim. It is, however, a decirmadyanlage to the stulent to eonsidur the futus in connection with the canal through which it has to pass, even at the risk of forestalling some of tho details. The pelvie measurements given are smaller all round than those generalty tanght in Fingland, and the anme remark applies to the vagina, though the latter is not of much importance.
lanving the topography of the pelvic cavity, which is wery thoroughly gone moto we come to J'art 11 . This section darla with the physiology and liygiene of pregnancy, parturition, and the purpperal state. The rexed prestion of the relationslipy of ovulation and menstruation is hardly settled by the nuthor, the two phenomena being deseribed as "closely comneterl but not neevssarily both present," so that we are left in donlat as to what the relationship is after all.
The subject of the development of the ovum, of the building
up of the embryo, and its several organs, is not discussed, and the reader is referred for information on this poiut to textbooks on Embryology. Further on, however, the usual explanations are given of the development of the ovam. The description of the physiological development of the uterus during pregmancy does not differ in any essential point from that generally received. The calculation of the duration of preguancy is made in lunar months and not in calendar months as is usual with us.
The translator obscures his rueaning occasionally by the employment of unfamiliar expressions. Thus, on page 131, we are told that the feetus, till about the seventh month, always occupies the pelvic "lie." Tbe author"s explanations of the position assumed by the fœtus are not altogether conclusive, though given somewhat dogmatically:
Some practical bints are given for the care of the new-born infant, but the author falls into the common error of adrising that the milk for artificially-reared children should be dramu from the same corr, although it has been pointed out that much greater uniformity of standard is likely to be obtained from an average dairy supply, in which individual variations are neutralised by the mixture of the milk of a number of animals. The direction to warm the milk "until it no longer causes an unpleasant sensation when applied to the eye" is a trifle inconvenient of application.
The remainder of the volume is devoted to the pathology and therapeutics of pregnancy, parturition, and the puerperal state, and comprises disorders due to a morbid intensity of physiological phenomena; complications due to intercurrent diseases; anomalies of the sexual organs ; diseases of the ovum; and hæmorrhage from the uterus.
A copious bibliography is given at the end of each chapter. No index is furnished with this, the first volnme, the only guide being the table of contents. The illustrations are fairly numerous, and, besides the stock engravings, there are a number of drawings which will be new to the English reader.

A Mantal of Feterinary Hygiene. By Fred. Smith, M.R.C.Y.S. Loudon: Daillière, Tindall, and Cox. 1887.

THE appearance of a mamual of veterinary hygiene marks one more step in the progress of vetcrinary science in this country. There has loug becn a need of a thoroughly scientific work of this character to place in the hands of students.

The author considers that sanitary reform is not bearing fruit in civil life so luxuriantly as in the army, but it is impossible that sanitary measures should be so uniformly applied to civilian animals as to military ones; nevertheless, civill life affords many brilliant examples of veterinary bygiene applied to large studs, under far more disadrantageous circumstances thanare found in the army. Quoting from p. 57, we read: "Their healthy state (speaking of army horses) is entirely due to the amount of pure air allowed them, for in no other circumstance of life do they differ from their predecessors of sixty years ago." This seems to amount to an admission that in no other circumstances of the life of the army horse are improvements advisable or possible.

In lis further studies we commend one point to the anthors notice: that whenerer a cirilian attempts to feed his horses upon the army "pattern," and work them as civilian horses are worked, they are very soon in a very weak and debilitated condition, and we should infer that if suddenly called upon for work demanding stamina civilian horses would prove greatly sujerior to army horscs, and that such an athletic conditiou of body as will enable a horse to work well, and continue at it, needs plenty of good food, anl is the ontgrowth of many montlis, not weeks, even after he has arrived at maturity.
The first chapter of the book is upon Water, and is excellently written, no point of scientific interest being missed. The succeeding chapters upon Air and Fentilation are also very perfect; they exhibit much painstaking application on the part of the author, and, although written in a too scientific form to be easily assimilaterl by the gencral reader, they will at least rouse the mell-educated horse-owner and veterinary surgeon to a semse of the high importance of the purity of air in stables, and explain the principles which control that purity. The author does not go so far, hut he may have well added that mrban stables should be inspected by a properly qualified officer of the local authority, and licensed as to the number of horses they should accommodate: this would canse a cessatiou of that cruelty of denying horses which work all day adequate room to lie darn at night-a form
of cruelty by no means extinct. A law to this effect would do almost as much as the Contagious Diseases Animals Act in diminishing glanders and farcy in largo cities, while it mould prevent much real cruelty.
The chapters on Stables, Removal of Excreta, Soils, Disinfection, are valuable, and well repay close study. The chapters on Labonr and Individual Hygriene esperially are ton short, and the subjects are treated too superficially. The book closes with chapters upon the liradication of Epizontic Diseases, Elementary Meteorology, and remarks upon Statistical Inquiry-a matter of considerable importance.
The author must be congratulated upon baving produced a work of great rylue, and exhaustive from the scientific point of view.

Manglyres et Operations a L'Anphimeatres. Par le - br.
Crotzat, Préparateur des Cours d'Accouchement à la Faculté de
Médecine de Paris. Paris: Delahaye et Lecrosnier. I887.
In this handbook the autbor describes the various operations which may become necessary in difficult or abnormal labour. After a preliminary dissertation on the fundamental principles of obstetrics and the course of spontaneous delivery, the author goes through the practical instruction given to students in Paris with the aid of the "dummy". This is taken up in French schools with a thoroughness and completeness which we have not so far attempted to imitate. We then come to the question of forceps, and these the autlor divides into three types: (I) that of Clamberlen (1600): ( -3 ) that of Lerret ( 1747 ); and, (3) finally, that of Tarnier (1877). It is almost incredible that French obstetricians should hold so obstinately to the cumbersone and unwieldy forceps of Levret, instead of adopting the Englishl loek and something of the English gradations in size. From the historical point of riew the chapter is poor, and from its being narrowed to the consideration of Tarnier's forceps, which are never likely to come into general use, its ralue is limited. The directions for the use of the instrument are clear and explicit. They are, of course, for patients in the dorsal position, and are, thert fire, hardly available for English readers, who probably prefer that on the left side. The necessary details follow for diagnosing the position of the fuetus and the presentation; and in this the student is always well drillect. The various landmarks are gone over, and their significance pointed out. The different methods of effecting version are explained, and the operation described in detail. The book is profusely illustrated with well-executed woodcuts, which add very greatiy to its lucidity and ralue. It is clear that a student who has conscientionsly gone through this course-and it is compulsory-must be in possession of an amount of practical knowledge which will enable him to go about his midrifery work with well-grounded confidence.
We can recommend the mork to students who propose taking out this course, and by its aid they can familiarise themselves with the technical terms in French, and generally with the Continental methods of procedure.

## ROYAL COLLEGE OF PHYSICYANS.

Tinere was a large attendance of the Fellows at the adjourned Comitia held on Thursday last to consider the resolution movel by the Seuior Censor
"That it is undesiralle that any Fellow, Member, or Licentiate of the College should contrilute articles on professional subjects to journals professing to supply medical lnowledge to the general public, or should in any way advertise himself or permit himself to be advertised in such jouruals.

In animated discussion ensued, in which considerable difference of opinion was manifested; but, as the debate was declared to belong to the "Secreta Collegii," wo can only record the fact that the motion was, on a divisiou, adopted by the majority.

Eemale Samitary lasiectors.- At a recent meeting of the Neweastle Sanitary Committec, one of its members suggested the appointment of women inspectors, as they would be far more valuable for going among the honsewives, and pointing out what had to be doue; to which another member replied that, if females were alpointed, some of the members' houses might be kept dirty.

## BRIVISII MEDICAL ASSOCIATION゙． SLCBCRIITIUSS fOR lisk．

 1sio Slembers of liranches are repuested to fay the suale to their respective sucretaries．Mombers of the Association not belonging to brandes are ropu－stad to forward their remit－ tances to the Gienoral Seremery， 423. Stamb，Londen．Prost－ oflien orders should be made payabie at the West Central lis－ trict Oflice， $1 \mathrm{ig} \mathrm{g} \mathrm{g}_{2} \mathrm{H}$ elhoru．

## Tbe（Britisl）Aterical Mommat．

## SATCRDAL，FEBRC゙ARI 4Tir， 1 sss．

## THE：BRITISH MEDICAL ASSOCIATION．

Tue minutos of the last meeting of the Conncil of the Associn－ tion include items of auch promise for the uscfulness of the work of tho Association during the yom，and indications of its continued progress and still rapidly increasing growth．Included in the business of the day was the formal election of 2．t new members，following on the recent issue of a special number of the Jotrral，au musually large contingent，and ono which promises well for tho total increment of the year just opened． Ancther gratifying duty was the furmal acceptance of tho pro－ prosals of the Perthahire Merlical Assnciation to constitute itself a Branch of tho British Merlient Association．Tho incorporation as a Branch of the Association of the nembers of this influential local medical society will have the grood effect of aiding the general organisation of the profession，so as to give effect to their opiniuns and wishes．
By tahing upa position among the Scottish Branches of the British Merlical Association，the members of the Perthshire Modical Association，while retaining all the adrantages of social communion and of scientific interchange of thought and oxperience，join hands with the great fraternity of upwirds of 12，000 medical men who are represented in its local and central Councils．They establish a claim for representation of their opinions in the Cormcil of the Association，and acquire a vote in its proceorlings．Tho antomomoms powers of the Tranches enable each to modify its times and places of meoting am？ its gencral proccodinys in such a manner as best suits its convenience or its circunstances．

Quite apart fom any considerations of ardition to the numerical strength of the Association－which is not neces－ sarily much affectort hy the formation of liranches－there is reason to welcomo heartily every accession to tho Branch organisation of the Association．Decontralisation is the essen－ tial condition of hoallhy；rigorous，and independent growth． In proportion as the Izranches are numerous，active，well－ organiserl，and well－nourished will the whole organisation thrive and flourish．Erery thoughtful well－wisher of the dssociation is fully conscions of this．

The accossinn of this new Branch is peculiarly welcome and siguificant in connection with the fortheoming recting
of the Association in Glasgrow，in August next，and testifies that the preliminary arragements annomed have been made with judement and capacity，and that they meet with tho ap－ proval and will have tho eo－rperation of our Seottish brethren outside the limits of the city．It affords thus a fresh carmest of the success and the pumanity of our fortheoning meeting on Scottish soil，which is louked furward to on all sides with so mach hopeful interest．

Another part of the businoss of the Council was to receive and cunsider the report of the Subcomnitteo which it had apponinted in August last，to consider the important question of the rank of army medical officers．At that meeting a somewhat dramatic incident had occurrel．Sir Thomas Crawford，the Director－ General of the Amny Medical Department，rose on the presenta－ tion of the report of the Parliamentary Bills Committec，and dechared with great enmhasis that he had no reasm to believo that the discomtent alleged to exist in the Anny Medical De－ partment as to the deprivation of relative ramk，or tho gracvances which had followod upou that measurc，had any real existence， and he ther doubt upon the existence of any extonsive demand for tatular military rauk．In the presence of this declara－ tion from so higbly authoritative a somec，the Ohaiman of the Parliamentary Bills Committee reaclily consentel that the paragraph of the report thas impugned should be reforred back to the Council of the Association for further investigation and report．That course was aceordingly taken．

The Cuincil appointed ：Subcommittee，consisting of many of its most experienced and judicions members，for the purpuse of such inquiry．The result is seen in their report，which was presented to the Council at its last meeting aud unanimously adopted．The opinious which Sir Thomas Crawford had thus challenged of npwards of nine hundred medical officers of all ranks，fuchuding many of the highest，woro obtained． Official rule prohibits them from any collective expression of opinion；so much so，that when a large number of modical ufticers，present in Dublin at the time of the meeting of the Association，proposed to mecot and make a statement on the subject to the Committee，protesting against the statements of Sir T．Crawforl，it was furthwith intimated that sueh a moot－ ing would he considered it breach of military disciptine，and the meeting was stopped．T＇he result of the inquiry of the Subcommittee，after a luborions analysis of the facts had been ruade，was，it will be seen，wholly opposed to the conclusions which Sir＇l＇．Craw ford had urged upon the mecting．They have reported in some detail，and their report will be forvarded to the Secretary of State for War，Such a report，coming after the intorvention of Sir T．Crawford，and as the result of patient and laburious inquiry，can hardly be eomsidered as anything ulse than conclusive．Armed with all possible information，aftor having hourd all that cin be urged ngainst it，and wioh a fuller knowledge of the whole matter than could be obtainst by any whor machinery than that which this Association and this Journal command，with the whole mind of the depart－ ment before ${ }_{T}$ them，and speaking in the name of 12,000 ．
medical men, of whom they are directly representative, the Council of the Britislı Medical Association earnestly call upous the Secretary of State for War to give to the surgeons of the Amy Melical Department such substantive and titular rank in the army as shall leave their position plain and unequirocal, both to soldiers and civilians. If the War Office does not grant this, the responsibility will rest with them for disregarling in a very flagrant and very indefensible manner the sentinsents of the medical officers of the army, now expressed with overwhelming unanimity, and sunportel by the most influential body of civil medical approval and endorsement which conld possibly he arrayed on their behalf. The consequences of such an attitude on the part of the War Office would be far-reaching, and could not fail to make not only the most painful impression on the department itself, and thus to affect injuriously the organisation of one of our most important military departments, but also to influence most unfavourably opiniou in the medical schools and colleges, and seriously to injure the prospect of efficient recruiting for the Medical Service of the army. There is no question of finance involved. We may, therefore, hope that the Minister for War will deal with the demands made in a liberal and statesmanlike spirit, unbiassed by the petty prejudices which appear to have hitherto been appealed to in order to influence his judgment unfavourably. The efforts of the Association to obtain a full and clear riew of the facts, and its deliberate and carefully considered verdict in favour of the medical officers of the army, will, we feel sure, not only cheer those medical officers by the assurance of well-considered sympathy and the substantial aid which it will afford them in the rodressal of their grievances, but it will be also highly satisfactory to the profession at large.

## APPLICATION OF THE SCOTTISH LICENSING BODIES FOR POWERS OF GRADUATION.

We publish in another column a petition from the licensing bodies of Scotland who constitute the Conjoint Meclical Board for Scotland, namely, the Royal College of Physicians of Edinburgh, the Roy:al College of Surgeons of Edinburgl, the Faculty of Physicians and Surgeons of Glasgow, for a charter under the Privy Council to enable them to confer degreos in medicine and surgery on such persons as may from time to time pass the examinations of their Medical Board. It is similar to the petition of the Royal College of Physicians of London and the Royal College of Surgeons of England. The petitioners state that they had no desire to disturb the existing arrangements whereby the Universities alone had the privilege of granting degrees in medicine, but in consequence of the action of the Royal College of Physicians of London and the Royal College of Surgeons of England, they have been constrained to apply for powers similar to those sought by these Royal Colleges. In one important respect the application from these Scotch Colleges differs materially from that of the two English Colleges. It has already been pointed out that the constitution of the new degrec-
giving body which the two English Culleges seek, is in the highost degree autocratic, unconstitutional, and non-representative, seeing that it is to be constituted wholly out of the self-elected Council of the Ronal Collere of Physicians and the Comncil of the Royal College of Surgeons, which is representative only of a very small minority of that corporation, and is, in its mode of election and in its general relation to its constituents, open to most serious objections. The whole of the body of graduates of the new university and teaching borlies generally are to be wholly unrepresented on this self-imposed governing body. The Edinburgh Colleges and the Glasgow Faculty have taken a nuch more constitutional view of the proper construction of the Senate for a new governing body. They propose that it shall include nominated representatives of each of the Facultics, and in addition to them representatives to be elected hy the recognised teachers of medicine ir Edinhurgh and Glasgow, and also by representatives of the graduates of the new body, so som as the number of graduates of the Senate to be so incorporated shall have attained to 200 .
Such a constitution possesses in it the clements of just representation and of equitable and wiso government. No'doubt tho Scotch umiversities will object to the appointment of any such new degree-giving body in Scotland, and it camot be said that the difficulties nf graduation in Scotland are such as to compare with the disabilities of metropolitan candidates, who have at present no other body to which to apply than the University of London. On the other hand, it would be difficult for the Royal College of Physicians of London and the Royal College of Surgeons of England to show that their examinations difier in any material degree from those of the Scotch' examining body, or that their diphorates have any inherent claim to a degree Which the diplomates of the liecosing bodies referred to do not cqually possess.
This application of the three great licensing hodies of Scotland introduces a new and important element into the discussion, and ene with which the Privy Council will have seriously to reckon. We have already repeatedly pressed that the whole sulject is one of so mucl national importance and so much complication that it can only properly be solved by referenco to a Roval Commission.
It would be regrettahle in many ways if the application of the London Colleges were granted in its present form, or if it were to be totally rejected in consequence of its defects in form. Some remedy meeds to be applied to the present state of things, which is one of great hardship to the students of metropolitan schools. It is much to be regretted that the remedy which the two Colleges propose should be so framed as nocessarily to arouse indignation and antagonism by reason of.its crude, imporfect, and autocratic form. But difficulties in form should not obscure the essential equity of the princinle involved, and on these grounds we earnestly hone that the Privr Comncil will canse the whole question to be thoroughly sifted, when an equitable result will, wo doubt not, bo attained-a result consonant alike with the true constitutional development of university teaching and
graduation and with the pressing and lemitimate requirements of the metropulit：un metliend sehouls and inmontes．

## MEDIC．AL A1D 1N゙ OUTVIVNG DNTTRICTS 15゙ 1N゙Dル」．

Alu reasonable proplo must sympathise with the efforts of the Government of India in tho cause of administrativo economy． liat thero is sneh a thing as false economy，and this kind of evnomy is ofton as crucl and myast ns it is falso．A striking example of this has causen a grorl deal of umpleasant enmment in India．Wo notice it to show the suthorities there that， although tho tragedy necurred in a remote district，it eannot be allowed to pass without grave notice at home．

Backerginj，in the Sunderbunds，is an exceedingly populous but vory unhealthy district：the population varies from 700 to 200 per square mile．This being so，it camnot be wondered at that the administrative and judiciad work of the collector and maristrate severely taxes the powers of the civil servant eharged with the administration of the district．The late Mr．H．I． Fasson had the misfortune to have to discharge，single－handet， the onerous duties of this position．This gentleman contractod a malariuns fever in the jungles of Chittargng，which ho was unable to shake off．He was frequently prostrated by this fever， and，while labouring under the racking headaches and other depressing symptoms of this deprossing malady，went on per－ forming his daily duties，involving great mental exertion．

It will not surprise our readors to hear that he broke down， aml in $n$ fit of nttor despondeney diol hy his own hand，＂sacri－ fived to the miserly spirit that pervides the present Govern－ ment in its dealings with its servments．＂＂Will it be believed，＂ says a writer in the Colcutla Imgliohman，that an important district like Backergimj has been without a European surgeon fur upwards of a yeur？＂Vet so it was．Had a competont medical oflicer been within reach，this valuable public servant would，louch ere matters reached such a pass as we have de－ seribed，have heon properly eared for，struck off harassing duty， and removed to $n$ better clinate．

This is not a solitnry example of the consorpuenees of this pitiful economy．Another civil servant，not much more than as jear nero，was cut of by mattack of fever，which under rational treatment would，in all hmman probahility．have had a happier issue；but as the Government conld ant aflord to give the neod－ ful help in the shape of a Eurnpoan uedical officer at，tho sta－ tion，this nnfortunato gentleman，whoso lomal aequirements wero such as to mark him out for the highest honours of his service， was cut off after $n$ brief illness．Appointments in the Indian Civil Service are much coreterl，and able mad highly educated men strive for them，ofton to the permanent injury of their health．It does not appear from the nuove that the Govern－ zent thoy serve sots a high value on their lives．Sueh a narra－ tive ns we have related is calculated to cool the ardour of com－ petitors．

It is not only in the manner we have indicated that false and
urinst economy is boing cartiod ont in India．Thu members of the Medieal Service are alhars among the first victims when money is to bo saved．Cinder a new rule recontly promulgatod doctors are muleted a hundred rupoes per mensem when they go om priviloge lenve：and this often when they are driven ly ill－ health and the pressure of work to seek a littlo rolaxation．This rule applies to medical offcers only．

Wo have already ealled attuntion to the fuct that the Medicul Service of Incliu is kept so short－handed that，unless on sick certificate，furlough to Europo is suspended．There me mumerons officers whose remulation leave has been due for eighteen months or two years who eanot get it．In time of war no one complains of this；in time of peace it is a flagrant breach of faith．How long is this persistent ill－treatment of ：un indispensable and most usoful and hard－working class of officers tog go on ：We suppose until the＂Worm turns，＂and the Govem－ ment of India knocks in vain at the doors of the various selools of medicine in the kinglom for candidates for conmissions in a service where such treatinent awaits them．Tlat chay will come soon，and the sooner the botter．

Her Royal Highness the Duehess of Alhany has graciously con－ sented to become patroness of the larkes Museum，of which 11．h．11．the Duke of Alhany was Iresident until his decease．

A minming of the Fxecutive Committee of the General Nedical Council has been summoned for Monday．February 2 －itho at 1.5 r．x．，for the disclarge of ordinary business．

Small－pox is said to be completely stamped out in the islan！ of Tasmania，and the temporary small－pox horjitals and quaran－ tine station－broken up．

## OBSTETRICAL SOCIETY OF LONDON．

Or Wednestay evening the ammal meeting of this Society，for election of lellows，was held．After some speeimens had been shown by Drs． $\mathrm{IV}^{\circ}$ ．Dunem nul Carter，and Mr．Meredith，a paper． by Drs．Nerman and fowler was read，and the l＇resilent，Dr． Joln Williams，gave the annual noldress．The officers for the en－ suing year，whose names were given in last week＇s Joctesal，were elected ly lallot，and the procedings terminated by votes of thanks to the retiring oflicers．

## OUTBREAK OF TRICHINOSIS．

As outhreak of trichinosis is reported from Cunewalle，near Liebau，in Silesia．Up to Janary lith，mo dess than thirty per－ sons had been attacked．The sulferers were all persons who had partaken of some small smoked samsuges at a loen！fite，some of which were fonnd，on examination，to swarm with trichine，The butcher who furnished the sansages is one of the sufferers，and nfirms that all the pigs killed lyy lim had been examined and pasend ly the sanitary nuthoritios．

## ALUM IN TYPHOID FEVER．

Dr．l＇dobsitil has treated sisty eases of typhoid fever，with ex－ cellent results，with cruble alum alome．He remarks that this Irug lind formerly been us＋d only ns a styptic and an astringnt， but mow that its antiseptic properties lad been recognised it was clearly indieaterl as a remedy far abmormal fermentations in the intestinal canal．

THE ASSOCIATION OF MEMBERS OF THE ROYAL COLLEGE OF SURGEONS.
Tue anmal meeting of the Association of Members of the Royna College of Surgcons of England took place on January 31st, at the llolborn Restaurant, when the aunual report and balance sheet were receired and adopted, and a resolution passed in farour of continuing the action of the Association for ohtaining the representation of Members on the Council of the College of Surgeons. The mceting, which was not numerously attended, was followed by the first Association dinner, over which Dr. Collum presided, the guests being Mr. Tweedy, Mr. Atherley Jones, and Mr. Richard Dary. A cordial rote of thanks was passed to the secretarics for their energy and perseverance in carrying on the movement.

## THE RELATION OF HOSPITALS AND MEDICAL SCHOOLS.

TuE next evening meeting of the llospitals Association will be held in the Board room of St. George's IIospital, on Wednesday, February 8 th, at 8 r.s., wheu Mr. Timothy Holmes, F.R.C.S., will read a paper on the Relation of the Medical School to the Hospital. Dr. Bristowe, F.R.S. (President) will preside. All members of the medical profession, and others interested in this question, are cordially invited. Cards can be obtained, on applicatiou, from Mr. Howard Collins, Secretary, the 1 lospitals Assaciation, Norfolk Hlonse, Norfolk Street, W.C.

## NURSES FOR THE SICK POOR.

The Committee appointed by the Queen to advise Mer Majesty as to the dicposal of the surplus of the Womeu's Jubilee Fund are desirous of receiving information from all the various institutions for nursing the sick poor in their own homes throughout the United Kingdom. Reports and other information should be forWarded to Grosvenor llonse, London, W., addressed to the Secretary, the Duke of Westminster.

## THE LATE MR. GEORGE GODWIN, F.R.S.

Mr. Gborge Godwex, F.r.S., who died in London on January 27 th , at the age of 73 , was one of the pioneers of sanitary science in this conntry. As the editor for many years of the Builder, he did much to awaken his brother architects to the importance of such suljects as drainage and ventilation. As the author of several popular works, he took an honourable share in laying bare the terrible defects in the houses of the poor, describing in forcible language the evil effects thus produced on life, health, and morals.

## REDUCTION OF FEES FOR THE OXFORD M.D. DEGREE.

Os January 24th these fees, which liave hitherto amounted to £(1), and, by their relatively large amount compared with those at other univcrsities, have certainly acted prohibitively, were reduced by Conrocation to ere. It is hoped that large numluers of graduates will avail themselves of the opportunities thus offered.

## NATIONAL PENSION FUND FOR NURSES.

We are oflicially informed that this fund, so munificently inargurated ly the donation of $£ 20,00 \mathrm{by}$ four of the great City merchant princes, is making rapid progress towards the commencement of practieal work. The Government antlorities have sanctioned its incorporation under the above title. The trust deeds have been approved and settled, and are now in course of signature. The society having thus received incorporation by Act of Parliament, its Council will hold its first meeting for the elespateh of misiness next week at the ofice, 48, Old Jewry, Fi.C. when the actuarial talles and other unsiness preliminaries are to
be completed. Inother handsome donation has, we are informed, been marle to the Pension Fiund of sieso by Mr. John Norbury: The Countess of Roscbery has added her name to the list of patronesses of the fund. The hospital oflicials and nurses who wish to join can forward their names to the acting secretary, who will furnish any desired information.

## THE ILLNESS OF THE CROWN PRINCE.

From special telegraphic information which we have just received from San Remo, we are pleased to be able to confirm on the highest authority the farourable reports as to the condition of the German Crown Prince which have appeared during the last few days. The slough which, as we mentioned last week, came away on January lith from the site of the growth which excited so much alarm in November was more than two centimetres long. The raw surface left by the separation of this piece of disorganised tissue has now almost entirely healed, and the condition of the neighbouring parts is highly satisfactory. There is, however, some thickening about the right side of the larynx; and though the present appearances seem almost to negative the theory that the disease is malignant, a dangerous amount of narrowing of the breath-way may be caused by simple intlammatory swelling. Lnder these circumstances it is thought not improbable by the physicians in charge of the case that tracheotomy may become necessary, possibly at no very distant date. This contingency, however, while requiring to be kept in view, need not cause any special anxiety as to the prolongation of the life of the illustrious patient.

## PROVISION BY MEDICAL MEN AGAINST TEMPORARY OR PERMANENT DISABLEMENT.

A sumarr of the general results of the work of the Medical Sickness, Anuuity, and Life Assurance Society for 1887, referred to in another column, has just been prepared under the Friendly Societies Act for transmission to the Chief Registrar. The results are in many respects remarkable, and of great interest, as showing the singular success with which this Society has achieved an object which had hitherto bafled the leading assurance societies, namely, the provision of a sickness fund making adequate payments to the professional classes for permanent or temporary disability from sickness and accident, as well as the customary provision for anmuity and life assurance. From this it appears that the Society commenced this, its third year of active operation, with an arailable membership of $728 ; 122$ members had joined during the year; 3 had died, and 18 lapsed or withdramn, learing a net membership of $\varepsilon 29$, or an increase of 101 in the year. The total incometo the benefit or assurance fund (including £491 16s. 7d. interest on reserves) was $£ \&, 08313 \varepsilon$., as agninst an expenditure of $£ 2.01019$. Sd., slowing an increase for the year of $£ 6,0-214 \mathrm{~s}$, and a total reserve to these funds at the end of the vear of $£ 19,1181 \mathrm{~s} .5 \mathrm{~d}$. The annual income for management purposes had been £911 1Ts. Gd.. of which, however, only £ 40417 s . 4d. had been expended, leaving a gain placed to the credit of the general assets of $£ 507$ on the year, and a balance of saving in the management for the thece years of £1, 0310 z .8 d . The total expenditure for management during the year had been a little orer 4 per cent. The net result, therefore, of the financial work of the year was $£ 6,579$ 14s. 2 d .. leaving a gmes eapital (the whole of which is the property of the assured) of f. 0, sill 1 s. ld. These results are, so far as is known, unparalleled in the insurance world in respect to the remarkable economy of management, the rapid and satisfactory growth of assets as against liabilities, and the complete demonstration which they afford of the success with which the organisation provided under the liriendly Societies Act can be worked wheu due cconomy*
 fesalumal dawis.

## THE WATER SUPPLY OF LONDON.

Tan lill whelt the (iraml lumetion Water Works Cimpany contomplate promoting luring the coming session is one of esperial interse to Lomboners, innsmath as it may monstinute the first step) tow atrols sechuring to the metroprolis generally a phrer supply of water than that which is at present itrawn from the Thanes, and which. after a more or less innerfeet system of sittration, is disfributed tos some twonal-a-half millions of persons. The Company snck luwors to construct an "intake." and nther works at Dormey (immon, nidway letwen Winden and heay, Therely thie would be emanherd to utilise the pure water to be found in the chatk in that bomlity. In latio report showing that it is practicable, and woulel be ecomomical, to romder availible for london the rast quantiry of pure water tos lof fomm in tho neighlomenond of Dorner, was madis by Mr. I. Thombill Ilarrison, one of the encrinering staft of the lomal Government lionet, and was lath beform Parlinment. But. like many another larliamentary paper, this valuable amd imperant repurt has nerer received the attention Which it duservea. Is long agn as 1881 Professor lrankland reportal that the Thanes and Lea were heenming rear by year lesa suitalle for domestic purposes, and that nlinion has been amply terifiod hy subsequent caperience. So loug as the erude somage of Staines, (itridford, and other towns abore the intakes of the metroplitan water companies fints its may into the Thames, Inndoners cannot fed happe in their water supply: Any indication, therefore, that the ample supply of pure spring water mhelt is ol tainable in the meighbourhnot of Dorney, and (since no filtritipu works would be neeled), could be substituted for the gresent Thames suply at licele, if any, incereased expemityure will in time Do mate availuhle for the whole metropolis, theneme to be cheerfully welemand und fortered.

## LEGISLATION FOR DRUNKARDS IN ITALY.

We:command the clanses of the new Italian prenal coderthich relate to drunkards to the attention of Sir Wilftid Lawson. Such enactmenta stem to ns to be based on a soumber primeiphe, and to be moch latter calculatel to mitigate the evils of drunkenness without umbe iuterference with imlividual liberty, than sweeping measures of restriction which weigh heavily on the just as well as the unjust. The following are the regulations to which we allule. Anrone foum in a comlition of complete and manifest drumkenness in a public place shall he finel a sum not cxceuding thirty fmnes. If the druakentess eun bo proved to he habitual, imprisombent from six to twenty-four days may be inllicted. If the offender is umber 15 years of age the father or guardian is to he reprimanded, ard directed to look after the youth, under twalty, in case of neybect, of imprisomment for a periond not ex-
 oferu to the publie, malicinusly cansus the drunkenness of unother promon, or surplies ariuk or other inebriating substances to persons already intoxicated, slabll he inprisomed for a period not exeverling tundays. If the person to whom the driak is rupplicel is
 ta wembness or dionder of intellect, the: punishment shall be imfrisoned from tem lays in a mouth. If the offondir is a person whosotrate it is tn sell the said! lipuors and inebriating subEtancer, he shall, in aldition to the above mentionch punisbment, forfeit his licence. When a promin who bas ben guilty of a criminal act has the penalty remites on the ground that he was trunk when he eominitted the "ffeuce, he shall nerertheless the liable to imprisonenent for a periml not cxeveding one year or to a fine, in such wise that the punishment shall be, wither in its longth or itwmoma, ential to :wothirds of that which would have
heren iuflieted land he committed the smae offence when in the full possessinn of his sensis. It may he remarked that the expression "drinks or other incbriating substances" (bearanfe ol altre sostanzo' inedbrienti) might possibly lee mulo to cover a much wider fiedd than "intoxicating liquors."

## LECTURES AT THE ROYAL COLLEGE OF SURGEONS.

Tun lecture armagements for less are oflicially amouncel by the Sucratary, Mr. Trimmer, as follows: The lecture hour will be + b.3, preciscly each day. I'rofessor John Bland Sutton, F.R.C.S.: Three lectures on Evolution in Pathology, on Monday, Wednesday, and Frilay, Vebrumy 13th, lith, aned 17th. Jrofessur William Watson Cheyue, dr.R.C.S.: Three lectares on Supparation ame Septic Diseases, on Monday, Welnestay, aml Friday, M, bruary outh,
 F.R.C.S.: Threc lectures on the I'hysiologieal and l'uthological Comblions of the Pupil and Aceommodation, onf Monduy, Wodnesday, and liriday, February 27 th und $29 t h$, and Marich $2 n d$. Professor Charles Barrett Lnckwnod, F.R.C.S.: Three lectures on the Development of the Organs of 'Circulation and Respiration, including the P'ericardium, Diaphragm, aud Great Veins, on Monday; Wednesday, and Friday, Mareh 5ith, 7th, and 9th. Professor Charles Stewart, M.R.C.S.: Six lectures on Locomotion and Allied lhenomena, on Mondays, Wednesdays, and Fridays, March 12th, 14th, 16th, 19th, 21st, and 23rd. Robert Marcus Gunn, I.R.C.S., Arris and Gale Lecturer, in June; dates and subjuet will be dunounced. l'rofessor Arthur Edward James Barker, F.R.C.S.: Three lectures in Junt; dates and suloject will be annomed. l'rofessor Thomas bryant, F.R.C.S.: Three lectures in June; dates and subject will be annonnced.

## ANTIPYRIN AND IDIOSYNCRASY.

1'iescribers who have made much use of atipyrin as an amalgesic have been for some timeaware that it was liable every now and again to give rise to symptoms of an extremely disngreeable kind. The graphic account by Dr. Allen Sturge, of Nice, of a casc in which this idiosyncrasy was very marked, pmblished at page 213, will be remi with great interest, because it is, we beliese, the first instance in which pulmonary symptoms have been carefully watched from the commencement by a skilled observer. The symptoms referable to the air passuges and lungs-the sueczing, coryza, and enpious bronchial secretion-which formed so alarming a combination, made their appearance in five minutes; they seum to point to a serions disturbance of the vasomotor systen, a surmise which is strengthened by the sudden development of urticaria on the thighs and abdomen. The only cases ate all comparable which we at present recall are two recently mentioned in the Few Lork Merlical Ficeorl. In one case related by Dr. C. T'. Barlmor, of llooklyn, it man thok fifteen grains immediately hefore going tor hetl; he was no seoner in bed than intense itching, starting from the face and cxtenting over the whole holly, began to unnoy him; the whole hodg was soon covered by an erythematous blush, which yuickly resolved itself intes characteristic unticaria. The face was so markedly awollen that the patiout's features were entirely obsliteratecl. The urgat syinjoms quickly disampared after tho atministration of an cwetic, and after milel jurgution the patient was agnin restored to his usual health. Wr. Burber does not state luw suon after the onsct of the symptoms le saw the patient, so that we canot do more than surmise that the julnonary symptoms noterl by Dr. Silurge were not present, or at least not very markel. In the other ease Dr. Whitehouse, of Santinge, gave seven und $n$ half grains to a elild; in two minutes there was intense pain in the stomach, followed ly general urticaria, and finally by loss of consciousness ; onfesurentietle of a grain of atro
pine was administererk, and in a frw namutes the child was well. Like nost othrr remedies, the action of antipyrin in migraine is very capricious; in some cases it acts like a charm, whenever resorted to, for months at a tirue, while in other cases it will succeed in one attack and utterly fail iu another; that these differmeos in its action are not due to accilental impurities has been shown by taking care to usc. in making up the prescriptions antipyrin from the same sample. It will be noted that the dose taken in Dr. Sturge's case was a small one, and only oncthird of that taken by br. Warber's patient

CARDIAC VALVULAR DISEASE OF LONG DURATION. A cusp exhibitel ly De. lingston Fowler at a former meeting of the Clinical Society, related ly him at the meeting on lriday evening last, and ryorted at page $2+7$, waz remarkable from the fact of the long continuance and stationary condition of the cardiac lesion, which tras of rhematic origin. The case may well take its place by the side of the examples describen by Sir Andrew Clark and other observers during and since the discussion on the subject at the Brighton meoting in Angust. 1886. Dr. Fowler's pationt was a man, aged 60, a wood turner, accustomed top work a treadle lathe, who bad diseade of the aortic and mitral valres. which was probably of fifty-threeyears duration. In 1834 he had been admitted to the Hiddlesex Hospital suffering from. acute rheumatism. for which he remained under treatment by $D$. . (afterwards Sir Thomas) Watson for nearly nine months. The evidence that the valvular lesions now present ocourred eluring the illness in $183 t$ was circumstantial, but scemed reliable. At any rate, the patient haid lad no return of the rhemmatic attack since that former illness, and had scarcely berp absent from work for a single day duriug the hast fifty-four years. His heart was described as stil] showing no signs of failure.

THE TENTH INTERNATIONAL MEDICAL CONGRESS. We have received from Dr.A. L. Gihon, Mrdical Director United States diry, a communication in which he takes, as it will seem to most realers, unnecessary pains to refute a statement of the Jurmel de Midecine of Paris, with regard to the next International Medical Congress. Our estecmed contempoxary is reported to have said that imerican physicians had "bent under the Prussian yole," and that "the next meeting will not be an lut mational "ongress, but merely a German reunion." 'Thís rhetorical flourish Dr. Gilun sets himself serinusly to refute. Congresses have
 (1875), Geneva (1877), Anstervam (1879). Lnndon (1881), Copenhagell (18, 1), Whalington (1857). Giermany and Russia are thus the only Eirrousan countries of the first rank in which a Congress has not been held, unless the recent elevation of Spain in the diplematic hierarchy entitles hor mame also to he mertioned. What more natural, therefore, than that the next Congress should be held at Berlin? At the reeting of the Committeo appointed at Washington to solect the next place of meeting. Dr, semmola, the representative of lalr, proposal, anl Dr. Gilon, the rapresenter tive of the L'nited States, secombel a reabution naming Berlin as the place where the Congress shouht meet in 1890. Professur Reyher, representing Russia, supported the proposul, elniming at the same time that the Fleventh (ingress (lay3) should be held in St. Petershurg. Dr. Cordes, the reqresentative of Switzerland, proposed that the next Congrass slould be held in l'iris in 1809 , during the centennial celebration; but, on being put to tho votes, the proposal to hold the meating in Berlin in 1800 was earried, with only one dissentient voice (Dr. Gordes's): 'The Berliner Klinische Wochensehrift of January $\quad 3$ rel remarks: "Freneh men of science we camot answer for the press in lirance-will participate without any objoction in the unification of internationa! insertigatim, and the amin ont medical mun of France.
with few exceptions, are not dispored to bring national antipathies to bear upon science. Unfortuantely, the intlacnce of rublic opinion (so-called) is paramount in France, it will be a praiseworthy task in the cause of scipace to lead this opinion in the risht direction."

## THE EXEMPTION SCHEDULE IN BOARD SCHOOLS.,

Consineratble lifferences of opinion exist on: the subject of exempting children in primary schonls, from the operation of the educationad code, and, naturally, difierent views of the matter from those held by the teachers are sometines taku by Hor Majesty's inspectors when reporting on the, school work. 1 list of such exemptions was recently presented to an inspuetor, and considercd unsatisfactory. Of 67 boys in the. kirst stanlard, 20 were withdrawn from examination. The causes stated were the common ones-"dull," "hackward," "delicate," "ill-fed." Of the 67 loys, only 3 were wader 8 years, and 1 was said to be,over 1.5 years and an idiot. To speak precisely, it appears that the heal teacher reported those hoys not as incapable of being prepared for examina-tion-we suppose the idiot was an exception-but as a list of boys who in the opinion of the teacher wero likely to break down in health if the ordinary work of the school routine mere pressed on them. As to these cases, what is wanted is some impartial anthrity who, after looking at the children presented by the teacher or school managers as specially feeble in body or in braiz power, may decide upon competent knowledge who are unfit for the ordinary school routine. Such points cannot be satisfactorily determined by the teacher, and this duty is hardly a fair responsibility to throw upon any layman; what is needel is that every large schom shond be visited a fers times in the year by a medical inspector, who may then decile such questions upon professional knowledge. Distinctions would thas be made between feeble and exhausted children and those who were merely lazy: It is very desirdbe that the feebte children, even if they camme follow the routine rork, shonld still be kept in school: even the inliot is better of there than in the streets, if no better provision can be made for him. We have urged many, times that Schonl Boarla are bound by their duty to the jublic to see that feeble children are trained in schom, and not leprivel of the benefits of such training as may save them from mental and moral degradation in after life. Children below a certain physical stendard cannot juss throngh the code work without hame; when it is known on competent anthority that a chilh is feeble, he shond be exempted from examination but not from school training. It cannot be loo strongly insisted on that national education is intended for the improvement of the nation, not simply for the alrancement of the brightest and best. It is among, these chilleren for whm exemption from the rontine of the educational code is asked, that re find many who will probably fail in after life if neglected in chitahond.

## TABETIC ARTHROPATHY.

Tue special bone and joint leaions met with in a ccrtain small propnrtion of cases of locnmotar ataxy were as is well kmovn, altributed by M. Charcot, who mas the first to describe them, to neuratrophic influences: the absence of any a dequate carse in the majority of the cases, and the extraodinary extent of the destruction of the articular surfaces of the hones without pain, or any of the ordinary signs of inflammation, afforded strong evidence of the accuracy of Charent's view. It has not, however, met with universal acceptance, partly, mo donbt, becanse it has heen fomm that the implication of the anterinr horns, to which he attributed it, has not hern always present. During the discussion at the Clinical. Socioty in 18s5, Mr. Jmathan Hutchinson and the late 1)r. Moxon were among the nppenents of 31 . Charent's theory. It was urged that the comdition might be due to el ronic osteo-
arthritis occurring in a joint so completely anesthesic as to fermit of free motion. This suggestion is strengthened by the fuct that thongh destruction of bone is the main characteristic, new formation clocs also occur. This was the easo in a very interesting specimen shown to the l'athological Society of london at its last moming, by Dr. Collior, of Oxforl. It was the knee-joint of a woman, aged 41, who had died in the Littlemore Asylum from general paralysis following on locomotor ataxy. Enormous loss of bone hal occurred : the external condyle of the femur had entirely disappeared, ant the erncial ligaments had been destroyed, yet a large amount of new bone had heen formed in the immediate neighbourhood of the destruetion. All this had necurred in about six months. When the patient Ieft the Radeliffe Infirmary in January, 18s7, there was some general swelling of the limb, but no alteration of the joint heyond fluid effusion. When she was admitted into the Oxforl County Asylum at Littlemere in August, 185\%, Mr. lilkington found that the bones were freely movable in every direction, movement causing no pain, but leing accompanied ly marked grating. The point of specialinterest is that in the interval between leaving the Radeliffe Infirmary and entering the Littlemore Asylum, the patient was absolutely unahle to move ahout, owing to the extreme ataxy, so that the rapid disorganisation which had taken place could not be due to the free use of a joint affected by osteo-arthritis. In this case the joint affection commenced at a very much later period than in the cases observed ly Charcot. The patient had well marked ataxy two years and a half lefore she died, and was then quite free from joint disease. which began about eleven months before she died, and had reached its maximum in about six months.

SCOTLAND.

## GLASGOW OBSTETRICAL AND GYNAECOLOGICAL SOCIETY.

Thif, fourth mecting of the current session was held in the Faculty Hall on Wednestlay, January 25 th. The following gentlemen were tuly clected Fellows, namely, John P. Meeklem, L.R.C.I'F., and 1. C. Edmiston, L.li.l. and S.G. Dr. Garnett Wilson showed an anencephalous foctus, a twin of the seventh month. A discussion followerl, from which it appeared that most of the Fellows present had hatl experience of such cases, but none in a twin pregnancy; and nearly all occurred in multipares. Dr. Oliphant then introducerl a discussion on the aetion of pessaries, in the course of which the mechanism of the various kinds was debated.

## GLASGOW ROYAL INFIRMARY.

Is Gilasgnw Royal Infirmary last year there were treated 4, 500 indoor patients admitted during the year, as compared with 4.817 in 18A6; the total number of casea trenter by the staff in $185 \%$ was 41,503 , as compared with 39,250 in 18s6. Like most of the medienl charities in Scotlund, the ordinary income lad fallen off during the Jear; this was, however, more than compensated for by the unisually large sums of monery received as legacies: these amounterl to £:n, 732 , which not only made up for the deficiency in the uedinary income, hat which allownal a large sum to be adled to the capital account of the institution.

## IRELAND.

## STEEVENS'S HOSPITAL.

Ir in statel that br. Ruhert Mellounell is about to retire from the surgeoncy to Stectens's Hespital. The appointment of lis successur lies in the hands of the Board of Ciovernors.

## THE BOWMAN LECTURE.

Mr. II. R. Swaszr, Surgeon to the National liye and Ear luflrmary, Dublin, who was President of the Ophthalmologieal Section at the anmual meeting in Dublin last year, has been invited to deliver the "Bowman" lecture before the Ophthalmological Society of the Vnited Kingdom. This is a well-meritel compliment. Mr. Swanzy is a distinguished ophthalmolngist, and will justify the honour which has been conferred upon him.

## THE PROFESSORSHIP OF SURGERY IN QUEEN'S COLLEGE, GALWAY.

IT is announced that the Lord Lieutenant has appointed Mr. W. W. Brereton to the clanir of surgery in Queen's College, Galway, vacant ly the death of Dr. J. V. Browne. The appointment is for seven years. There were about ten candidates for the office from various parts of Ireland. The direct emoluments are very small, hat prutice is supposed to result. As usual, there is mueh outery. Mr. Brereton, who is surgeen to the Oughterard Horkhouse Ilospital, is objected to, first becanse he is not a university graduate, secondly because he is a Protestant, while Catholics were passed over. It certainly does not seem in the least necessary that a professor of surgery should have graduated in a university. although it is desirable; and it may he sail that Mr. Drereton held office in the College many years ago as demonstrator of anatomy under Professor Cleland, now of Glasgow. The religious question is one with which we will not deal. It is right to state, however, that two candidates-Dr. Mahon and Dr. Eagleton, old students of the College and gold medallists of the Unirersity-were candidatca; and the name of one of these at least was sent forward by the President is one of three from whom a selection might he made. The l'resident, who is a man of great liberality of sentiment, is roundly censured, as if he had made the appointment. It by no means follows, however, that he is in any degrec responsible, as the Government is not hound to accopt the first name on the list, and, as a matter of fact, does not do so in all cases. We cannot help expressing some sympathy with those old pupils of the College who are disappointed. Their university career was unusually distinguished, and they naturally look to the Alma Mater for approval of their work.

## BELFAST MEDICAL STUDENTS' ASSOCIATION.

Tue second annual conversazione of this association took place at the Qucen's College on January 26th, and proved highly successful. About 500 persons attended, including nearly all the professional staff, a large and influential representation of the medical profession, and many visitors. The decorations were on a very clabarate and artistic seale, and in the Examination llall an excellent stage was creeted for the performance of the tableaur rivants. Tea was served at 7.30 , and at 8.30 a demonstration of chemienl experiments was given ly Irofessor Letts. The rest of the evening was occupied by a scries of tabledur rivants, music, and a comic lecturc by l'rofessor l'itagerald, on The lirst, Second, and Third Lridges. The tableathe vivants left nothing to be desired in point of completeness and artistic linish, and were londly applanded. Among the scenes represented were: Medical Studints lisis and l8es, The lenance of the Duchess of Gloncester, Othello and Desdemona, The liape of the Loek, The Lrineess, Tweedledum and Tweedledec, und lierdinand and Miranda. The music was supplied by an excellent orehestral band under the direction of Mr. Edgar Staines, of the Theatre Koyal, and by a number of nmateur vocalists. In interesting feature of the reving was ufforded lyy three seenes of an Ambulance at Work. The counpany seprated at midnight, after a most enjoyable evening.

## APPLICATION OF THE SCOTTISH LICENSING: BODIES FOR POWERS OF GRADUATION.

The following petition has been presented to the Priry Conncil:To the Queen's Most E.cellent Majesty in Council.
The Petition of the Rofal College of Physiciavs of Edinburgit, the Royal College of Surgeons of Ediaburgh, axd the Faculty of Physicians and Surgeons of Glasgow, ender their respective Coumor Seals,
Hembiy sheweth,-That your petitioners, the Royal College of Physicians of Edinburgh, are a corporation ereeted by Roval Cluarter granted by liis Majesty King Charles the Second, uith November, $16 * 1$, ratified 16 th June, 1685 ; and of new incorporated by Royal Charter granted by your Majesty 16 th August, 1861.

That your petitioners, the Royal College of Surgeons of Edinburgh, are a corporation erected by Seal of Cause granted by the Town Council of Edinburgh Ist July, 1505, confirmed by Royal Clarter granted ly His Majesty King Jannes the Fourth of Scotland $13 t h$ October, 1506, ratified by Aets of the Scottish Parliament passed on 17 th November, 1641 , $\mathbf{2} 2$ nd August, 1670 , and 17 th July, 1695 , of new incorporated by Royal Charter by King George the Third, dated 14th March, $17 \div 8$, confirmed by Act of Parliament 27 George 1II, eap. 65, as altered aud amended by Act of Parliament 53 George 111, cap. 76 , and incorporated with new and additional powers, privileges, and immunities by lioyal Charter granted by your Majesty on the 11th March, 1851, under the provisions of the Act of Parliament 13 Victoria, eap. 23 ,
That your petitioners, the Faculty of Plysicians and Surgeons of Glasgow, are a corporation erected by Royal Charter granted by His Majesty King James the Sixth of Scotland, under the Priry Seal of that Kingdom, on $29 t h$ November, 1599 , ratified by an Act of the Scottish Parliament passed on the lith Seytember, 16ヶ2, contirined and amended by an Act of the 13th year of your Majesty's reign, chapter 20, passed on 10 h June, 1850 , entitled "An Act for better regulating the Privileges of the Facalty of Plysicians and Surgeons of Glasgow, and amending their Charters of incorporation."

Your petitioners, under the provisions contained in Clause XIX of the Merlical Act made and passed in the Session of Parliament of the trenty-first and twenty-second years of your Majesty's reign, united and co-operated in a scheme constituting an Examining Board of the tro Colleges in Edinburgh and of the Faculty in Glasgow, and in making regulations for conducting the examinations reqnired for the purpose of qualifications to be registered under the same Act, which scheme and regulations were approved and adopted by your petitioners, the Royal College of Plyysicians of Edinburgh, on 18th March, 1884, and by your petitioners the Royal College of Surgeons of Edinlurgh on March 11th, 1884, and by your petitioners the Faculty of Mhrsicinus and Surgeons of Glasgow on ith Jamary, 1884, and received the sanction of the General Medical Council on 31st March. 1884.
Your petitioners had no desire to take any step to disturb the existing arrangements, whereby the universities alone lad the privilege of granting degrees in meticine, but in consequence of the action of the Royal College of Physicians of London and of the Royal College of Surgeons of England, they have been constrained to arpy for powers similar to those sought by these Royal Colleges. Your petitioners are therefore desirons, and it is expedient in order to encourage proticiency in the sciences of medicine, surgery, and midwifery, that your petitioners should be enabled to unite and co-operate not only in condueting examinations for the purposes of the Medical Act, but also for the parpose of conferring degrees in medicine and surgery on persons who shall pass such examinations as may from time to time le prescribed ly the Colleges and Faculty, and on persons who have alreally passed the examinations of the said Colleges and Faculty, and who shall have complied with such further regulations or undergone such further examination as it was he deemed 1 roper to impose or require 'rom time to time, and that for this purpose a Senate of plysicians and surgeons should be constituted and incorporated, composed of an equal number of Fellows of each of the said two Colleges and Freulty and of persons closen by all teachers of medicine in Ediuburgla aml in Glasgow who shall have been recognised as teachers of mellicine ly either of the said Colleges or Faculty prior to the estallishment of the said Senate. who are not members of the Senatus of any university, and by all
teachers of medicine in Edinburgh and in Glasgow who thereafter shall be recognised by the said senate, who are not members of the Senatus of any university, and also of persons chosen by the graduates of the Senate when the number of such graduates shall have attained to two lumdred; also of the Lord lrovosts of the cities of Edinbnrgh and Glasgow for the time being, and the Chairmen for the time leing of the School Boards of suid cities.
Your petitioners are desirous that they slould have power to approtion whatever surplus funds may remain after defraying all expenses of carrying on the business of the said Senate and of conducting the examinations for degrees as follows, that is to sar, fire-twelfins to the Roval College of Physieians of Edinburgh: three-twelfths to the Roval College of Surgcons of Edinburgh; and two-twelfths to the Faculty of Pliysicians and Surgeons of Glasgorr, for the purposes of providing and maintaining such buildings, libraries, museums, etc., as may by these bodies be deemed necessary; and one-twelfth to be expended in the aid of medical teacling in Edinburgh, and one-twelfth to be expended in the aid of medical teaching in Glasgow.

Your petitioners therefore humbly pray that Your Majesty will be graciousls pleased to incorporate the President for the time being of the Royal College of llyssicians of Edinburgh and six other persons, to be elected by the Fellows from among the Fellows of the said College: the President for the time being of the Roral College of Snrgeons of Edinburgh and six other persons to be elected by the Fellows from among the Fellows of the said College; the Iresident for the time being of the Faculty of Physicians and Surgeons of Gilasgow and six other persons to be elected by the Fellows from among the Fellows of the said Faculty; the Lord I'rovosts for the time of the cities of Edinburgh and Glasgor, and the Chairmen for the time of the School Boards of said cities; two persons to be elected from time to time by the recognised teachers of medicine in Edinburgh as defined abore, from their own number, at meetings of the said teachers to be conrened by the Presidents of the Royal Colleges of Plysicians and Surgeons of Edinburgh ; and two persons to be elected from time to time by the recognised teuchers of medicine in Glasgors as defined above, from their own number, at meetings of the said teachers to be convened by the President of the Facultr of Physicians and Surgeons of Glasgow, with the addition (as soon as the number of Graduates of the Senate to be so incorporated shall have attained to two hundred) of five persons to be elected from time to time by such Graduates from their own number, under the name and strle of "The Senate of Phrsicians and Surgeons of Scotland," with perpetual succession and a Common Seal, and with power to grant to persons whe have complied with the regulations and passed the examinations prescribed by the Senate degrees in medicine and surgery, and with power to sue and he sued in their corporate name, to take, purchase, and hold lands. huildings, and property, both heritable and movable, and with such further powers, and subject to such pirovisions as Your Majestr may think proper to grant or impose, and your petitioners will ever pray.
igned in name and by anthority of the Royal College of Physicians of Edinburgh,

Robert Pefl Ritchie, M.D., President.
Signed in name and by authority of the Roval College of Surgeons of Edinburgh, Joséph Belx, P'resident. Signed in name and br authority of the Faculty of Physicians and Surgeons of Glasgor.

Jhies Mortor, M.D., President.
VICtoria by the Grace of God of the Cnited King dom of Great Britain and Ireland, Queen. Defender of the Faith. To AhL To whov ThFse. PRESEVIS shatic cone, Gremting. Whereas The Royal College af Physicians of Edinburgla are a Corporation erected be lhoval Charter. grantel by His Majesty hing Charles the Second, hearing dute the zoth November. 16si, ratified lith hing charles the second, icaring date the loval Chatter bearing date loth June. 168, and of nerr incorporated heinn And Wherear The Royal Collcge August, 1881, in the 25th rear of Our Reign ; AND WHERESE The Royal Concge of Surgenis of Ediuburgharea Corporation erected hr Seal of Cause, granted the the Town Coumell of Edinhurgh on 1 st July 1505 , confirmed We Royal Charter granted by His Majest King Janues the Fourth of Scotland, bearing date the 13th Oct ober. 1506 . ratificd lye Acts of the Scottish Parliament, passed
 corporated by Royal Charter granted lig Ilis Majesty Kiug Grorge the Thind
 made and passed in the 2ith year of His saill Majesty, King George the Third. Chapter 6 bj, as altered and amended by another Act of the British Parliament made and passed in the 53 rr y year of the reign of His saill Majesty. King George made Third. Chapter is, and incorporated withnew andadditional powers. privileges,
 of Our leign, and granted under the proisions of an Act of the British Yar











 ant Enrgerms of (ilasgon) might with the whe finh shal warler the direvtions

 burgh, the lloyil Cullege of Surgwons of lidiaburgh, and the Fueulty of Jhyw









 co- oparate, not only' in conduct ing examinatlons for the purposes of the Medicat
 fers. andlyy the sald liaculty sepmrately. or ly passing the Eximsination held
 pussing suy uther limmintimu to he held by the two Colleges and the facnity quallicatlons for rexist fartons under the Madical Det, and who alall hare also contrlited with such further regulations or mulergovo buch further examiuation ns it may hs ceemed proper to impose or require from fime fo time, nm that for this purpose a sumate of thysicians and Surgeons should be constitute and ineormmatyl, cemposed of an equal sumber of Follows of each of the two Collages and Facally, and of persons ehosenh hy all Teachers of Mecticine in
 the ashld senate, whonre nut menibers of the Senitus of noy Iniversity and th all Teachers of Me.llcine ln 12 tinhurgh and in Clasgow who therenfter ahatl be
 T'nisersity, sind nisu of persons chosen hy the Crablabtre of the Sunate whe Laril Provosty of the Cities of hidnburgh anul (iluggow respertively for the time
 respectively, with all such powers ns are hereinafler confersed ons such Senate



 manner followlngi, that is tosay:-

1. fneorporation of Emate:-The following peranns, unnely :- lirst. The laresj-


 som to be elected from the to tirie for thas purpase lyy the follows fromamong the Follown of the stitl College: Thirf, The Presilunt for thetinte being of the Farnity of Physhelans abil singenns of Glasgew, sthil six other jersony to the

 tr-lage of the Sithom linardo of the and Cities respectively: Flfth. Two fursmis to be electisi from time to the fiom thifir own mumber by the Teachers of Tewhers to fo comvened is the l'rexulents of the lional Colleges of inhysiotans and surgeons of tiflathargh, and two persons to be efletent from tiano to time



 number, as lierinnitter wrovidod, shald herome sul for hencuforth for ever heri-






 heritable and movealin: anil matl and elivpune of the sume, and tany aleo exerclse the ot lier jowers herelagicer mestituned.


 Appolat. shall twe Returning inficer fur the elaminn by wich firaluntes of bue of




 Shmate, prowhted alwag that the nombination shatl be the writhg, mat yhe
 enteted. The persols so eleted to be Mrmbers of the semute shall enter on




 "w-lh of the following bears till the whole have gotu onf uf oflive, und thereafted

 dine la Falinburyh, nul of the twe tirst elected ly the Temelers of Medtetne




 going out of office for dicnabers of the Senate shatl be the flrst day of sio4. Aronntiers of Sonte eligikle for reaticion.-Any mumber of the semnte going

 theath of any of the senate, aminpol the gong onther than Members electet by the Gratuates, or inv ether vacancy in their mumber, ilulualing such
 to nny ofice, the holder of which is ex officio a Member of the comaty somu Medibine in Ediahurgh or Glasgow, shall be elected in lis place by the Fellows of that Cullege or Fineulfy, or hy the Teachers of hedidine in betinhargh or
 Las not expired. In the event of it vachacy occourvin. office, or otherwise as aforesaid monge the Members of the simate dectell biv the
 hanl hold office till the aext quinquernial period of ejectiont hy the (lakimates.
l'resident.- The President for the time being of the linynl Cobleme of Phy cians of Filinburgh shall he the urst resicm on the trst l'reailent gutu ofico until the first day of November, 1 se , and on the thrs l'reailent going out of oflice, the next l'resident of the Semate shat be the losin fir the time heing of the loyal College of Surgeons of Edinhurgh, who shall hold nthe for such period not excecting two years as the semate shath have determined a a special mpetiug hela previonsty to his entering upon offier, wi which meeting nok lexs than twonty-one days prevous notice in wing shall hase been given to paeh Wember of the Sellate, athl on the seeond Fresment - ininc ont of omice the next ${ }^{2}$ resident of the Semate shall the the President. for the lime being of y of lhysicinns and Surgions of Glasmow, whe shall hot oftice for wh perion not pxaeding two wars ath the sumzo shall have detarmaned st spedial meeting held preriously to his eftecrisg hiph office, of which meeting nok less thais tweut o cach Afember of wo. Schate, mat thereaflor hit want

 Senate slall have determined in manner moreshin.
2. Vice-preatents. The Presilent for the time lecing of the nown College of

 Facult who is not for the thac being l'resilient of the Sentio shalt he a VicePresilent of the Sennte.
3. Presifient may resign.-The Presilent may resign his oflive by a writing under his haml mbiressed to the Smate, and welivered to Thus suretary of the
 he Praident of the Senate duritg the remainder of his tomn of oftre
President if in asesce of the resment.-At any maving of the spute the

 shall take the chair sund act na Presintent
4. Wectings of the scmate. -The semate slall hold their firat anceting withiln ix enlentar mont has from the tate of these Our fatters liatelt in such place
 10. liules ar fo . Mectung may be mude. - Tho Senat: may ankus such thites abd
 Burnoning the same ny to the Somate may seen propur, whelh Rules ant Regh-
 alrenco of any rule or regulatiom as to summoniog ameathg, the Propluent for the tinat lociag, or elther of the Vice- Prowilents, may by a writhg umier bis
 than athi place an ly may think proper.
 Chen by the wotes of the maprity of members prexent nt a meeting of the Somate, and the flamiman shall, in alifition to his vo

Guorum of $\pi$, Vretiny. - Nin busionss shall the trasacted at nhy meeting of the Senato unless thero are af least twelve members of the Senato present at surli meetlyg
13. I'rocrefinge waid nofurthetanding l'acrney. - Notwlt hatantling any wacancy In the number of the mombers of the Senute, tho Senate may exorelae all poners conferretion them by these Our leet tere d'atent.
tar nocers may be apponted. -Thesenate may mpmint a Treasurer and Secre tary and simh other otherers as they think necessary person who, ty pasaing the Fxaminationa formerly held lige either of the salid by the Examinfug Ioarl of the sall two Collogin and liuntry monjointly, or hy [isslnts nny other examluatons to be helul by the (wo Colloges and lacuity
jointly or separately, shall have already acquire or may hereafter acquire the qualifications for registration meder the Medical Acto or any Act amending that Act, and who shall have also complied with such further regulations and undergone such examination as the senate may from time to time see fit to impose or require as a qualification for a Degree, both, or such one ats tho Scmate mas thiak proper, of the following Degrees, namely, the Degree of Bachelor of Menlicine and Bachelor in Surgery, and also on those who. having iscquired both or either of the Deyrees of Bathelor of Medicine and Bachelor in Surgery, shall have alsn complied with such further regulations or undergone such further examinations complied with sucli forther regulations or undergone such further examinations
as the Scnate may from time to time see fit to impose, all, or sucli one as the as the Scmate may from time to time see fit to impose, all, or suli one as the
Senate may think proper of the following Degrees, nanely, the Degree of Senate may think proper of the following Degrees, namely, the De
Doetor of Medicine, Master in Surgery, and Doctor of Sanitary Science.
Doctor of Medicine, Nister in Surgery, and ootor of Sanitary science,
16. Fee for Examinations. -The Senate may denand and take from each candidate for examination the following feus-namely, for the lixualnation required for the Degrecs of Bachelor of Medicine and Bachelor in Surgery; singly-or Loth, a fee not expeding ten guiuess, and for the Examinations required for all or any of the Degrees of Doctor of Medicine. Master in surgery, or Doctor of Sanitary Sclence, a fea not excerding fico wineas in respect of wach of the said Sixaminations, but shall not demand or take anv fee for rrauting any. Degree Any stamp duties chargeable on Diplomas shall the paid by the Graduate.
17. Apportionment of surplus Fees (if any).-Any surplus funds which may remain after defray ing all expenses of carrying on the business of the Sebate. and of conducting exaninations for Lerrecs, shall be apportioned as follows, that is to say, five twelfths shall be paid to the Royal College of Physicians of Edinburgh, three twelfths to the Royal College of surgeons of Edinburgh, and two twelfths to the Facnlty of Physicians and Surgeons of Glasgow, for the purposes of providing and maintaining such buildings, libraries, and musems as may by the sail Colleges and Faculty respectirely be considered wecessary; one twelfth shall be expended in such manner as the Seuate may consixler proper in ail of medical toaching in Edinburgh, and one twelfth shall be expronded in such mammer as the Senate may consider proper in aid of medical expeniled has Glasgow.
18. By-lmws may be male.-The Senate may from time to time make and alter any By-laws and Regulations (so as the same be not repugnant to the Laws of the Realm, or to the terins and general objects of these Onr Letters Patent) touching the qualitications for Degrees and the granting of the same, and any other matters to be done inder the provisions of these Gur Letters Patent, anit all such By-laws when reduced to writing, ami under the Common Seal of the Senate, and approved of and countersionned by one of Our primeipal Seeretaries of State, shall be hinding on Candidates for Desrees, and for all other purposes within the provisions of these Our Letters Patent.
19. By-baws to be approved.-Provided that any By-law or Regulation to he made by the Senate shall not he of any fore until our approral there of shatl have heen signitiel to the Senate under the hand of one of Our principal Secretarics of State, or the same shalt have been atherwise approved in such manaer as slabll be directed by Us with the adrice and consent of the Lorils Spiritual and Temporal and Conmons of Our Xealm in Parliament assembled.
General Confirmation Clause.-And we do hereby for L's, Our heirs, and suecessors further grant unto the Semate that these Our Letters Patent, shall be in all thiugs fool, firm, valid, sufficient, and effectual in law according to the true iutent and meaving thereof, and sball be construed in the most favourable and beneficial semsp for the Senate notwithstamding any non-recital, mis-recita or imperfect recital. or any uther omission, imperfection, or defect whatsoever in these Our Lecters Patent : Axis We do FUrther will and command that this Charter do pass the Seal appointed by the Treaty of U'rion to be kept and used in Scotlam in place of the Great Seal thereof, per saltum, without passing any other Seal and Register, for which these presents alall bo as well to the Director of Our Chancery for writing the sande, as to the heeper of the said Seal for causing the said Sal to be appended thereto, a sufticient warrant. Given at Our Court at
By IIer Lajest $y^{\prime}$ 's command.

## DEGREES FOR LONDON MEDICAL STUDENTS. PETITIONS TO THE PRIVY COUCIL.

THE l'etition of tiff Association for l'romotisg a Teaching University in London.
TImE Association for l'romoting a Teaching University in London, which came into cxistınee in $\overline{\mathrm{N}} \mathrm{a}$ y, last, has devoted a great deal of time to the study of the very complex questions involved in the organisation of university edneation in London. We say organisation for want of a better word to express the objects of the Association, which has perlapls suffered in its appeal for public support, owing to the dillienlty of preersely deseribing to persens whahave not previously given attention to the movement the means which it is proposed to take to remedy the evils which all collogiate teachers in Lomlon wlmit to exist. The main contention of the Association is that there alrendy exist in London institutions giving nurersity instruetion, hut that they suffer from the Want of a common centre, such as a unversity would supply, and that the sevwane from the work of teaching of the work of exarmination for alegrees, anl the assignment of examination to the existing University of Lombon as its sole function has laad an injurious effect upon miversity edueation in london.

We have from tiue to time so fully reported and commented on the useful work whieh the Associntion has done that it is not now necessary to repeat thw whole of the petition whieh it has recently presented to the (bueen in Coumeil. The petition sets forth tho opinion that the evils above mentioned cammot be fully rewedied vicept by the establishunent in landon of a teaching unirersity-that is to suy. a miversity whiels (1) provides for the student in nll
the subjects included in its faculties the lost attainable teaching with the necessary aids and ippliances; (2) requires a regular cuurse of attembance on such teaching as a preliminary to graduation; and (3) secures to the teacher a direet and adequate representation in its conncila and a due slare ia its administration, The objections urged to the schmme jroposed lyy the Senate of the Uninersity of Lonlon as a solution of the llifficulty are (I) the absence of a eurriculum in the faculties of arts and science; ( $\quad=$ ) the admission of collegiate borlies ontside London; (3) the absence of any suflicient conditions for sucuring that the as=ociaterl colleges shall he doing effective maversity wurk; ( 4 ) the want of any provision for the direct representation upon the governing body of the associated institutions, or of univereity teachers; (j) the granting of an unduly large representation to the graduates of the university. Referring to the proposed Senate of Plysicians and Surgeons, the Association deprecates any severance of the machinery for sranting degrees in London from acnlemic influences, many serious lefeets of miversity education in London being in its opinion due to such a severanee. With a view to aroid multiplication of bodies conferring a diploma or a licence to practise, the Association advises that the possession of the conjoint dijuloma of the two Royal Colleges should be a preliminary condition for obtaining a medieal degree in the university, the conferring of such diploma remaining, as at present, the function of the Roval Colleges.

The Asspeiation suggests that the constitution of the governing body of such a university as is proposed sloould be, in adelition to a Chancellor appointed by the Crown, members appointed hy (1) the Crown, (2) the governing bodies of colleges associated with the university, (3) the Councils of Legal Education and of the Royal College of Physicians and the Royal College of Surgeons, $(4)$ ing the teachers. The conditions to be fulfilled by a college would be as follows:- (1) that the instifution is giving instruction of a university character; (2) that it has established a complete curriculum, aud possesses a suffieient teaching staff in at least one of the recognised faculties; (3) and that it has furnished proofs of its means and appliances for teaching being established on a satisfactory basis.

It is explicitly admitted that this scheme las the same general effect as that presented by the Comneils of University and Kings Colleges to the Priry Conacil last antumn. It has many points in its larour. It meets the objections which have been urged with some force against the ereation of a miversity of one, and that a professional. facultr, for it would practically include the schemse of the Royal Colleges as a part of a larger selneme. That it will be viewed with approval by those corporations is impossible. for its realisation would somewhat detract from their diguity, though it would not climinisla the beneficial influence which thes exercise on medical education.

The same objection may, we regret to notice, be urgerl against this scheme as has already been forcibly raised against the scheme of the two Royal Colleges; in both the rights of the future graduates are entirely ignored. All through the teachers have the air of graciously presenting something to their pupils: the pupils, it is assumed, exist to increase the dignity and to line the jnchets of the tenclers. Once the state of pujilage is over then all connection between miversity and juphil is to cease. This is not a new form of pelagogic arrogance. but it is at tho present day more offensive than ever before; $n o$ precodent can be fonnd, in this country at least, for sueh a proposal. The Liniversity of London has been called a stepmother; the leart of this propostel muversity would be harder to her sons than the nether millstone.

THE l'FTLTION OF TIEE L'NIVRIRSITY OF C'AMBRIDGE
(in opposition to the Petition of the Royal Colleges of Physieians and Suropenns).
The Vice-Chancellor has published to the Senate the following form of petition proposed hy the Special Board for Jledicine for adoption and presentation by the Senate; it will be taken into eonsideration at the meeting of the Senate on this day (Saturday), at 2.15 P.M.

Io the Qusen's. Most İxellent. Majesty in Counmil.
Tlue humble petition of the Chancellor. Masters, aul Scholars of the University of Cimbridge humbly sheweth-

That your jetitioners have heen informma that a petitiou has been alilressed to your Majesty in Council by the Koyal College of Physicians of Lomdon and the lioyal Colleme of Surgeons of Encland, in which the sail Colleges ateting jointly revueet that the l'residents and a certain mumber of Fellows or Comneillors of
the suid Cobleges he incorpmated unter the name of "The Sconate of l'hysicians and surgens." und that the satul propesed semate be empnewerel to grant dugrese in modicint ame surgerv:

That semer petitioners desire to repersent that its power of granting such degrees has heretofore been entrusted to unversities only:

That your petitionors helieve it to be an adsamaen that in mirersities the gronting of degrens in medicine and surgery is conpolledly the opinion of a laxiy of mon interested in rarious subjects, wherens the sain? propmeel Semate would represemt a single faculty only:

That there is alrendy in Inoulon an examining hely, the L'niversity of Iondon, whicli grants its degretes to all whoso knowledge is sullicient to ematule them to pass its cxamination;

That in the ahooner of any arranement for university teaching. resillence, or discipline in conncetion therewith, the proposed Senate wobld constitute a seemd morely examining borly in London, which would grant me class of degrees and on casicr terms ;
That the clistinction at present attaching to the degree of Doctor of Meelicine granted by this and other miversitios has enabled your petitioners to require of eandidates a longer and withr course of mentical stmy than that hitherto required hy the licensiug eorperations, and your petitioners are of opinion that the science and practice of medicine have therely been advanced;
That they therefore delpereate any proposal such as that made in the sain petition as temenge serionsly to diminish the distinction of this legree:
That for these and other reasons your petitioners submit that it is contrary to public policy and to the interests of medical and surgical science that the said pronsed Senate should be invested with the power of granting denrens:
Your jetitioners therefore fumbly pray that your Majnsty in Conncil will be gracionsly pleasen to hear them ly counsel or otherwise in support of the allegrations in this their petition.
Aud your petitioners will ever pray; ete.

> G. L. PAGET.
> ALEX. MACALISTER.
> OCTAYIHS STURGES.
> DOVALD MACALISTR.
> A. S. LEA.
> ALEA. MILL.
> G. D. LIYEING.
M. Fosten.
charles S. Roy.
George Wiferry.
Lacrenen Humpiny:
M. M. Pattison Muth.

Johy Cleland.
Gerald F. Yeo.

## Reform of the royal college of surgeons of hagland.

Roply of the Curncil of the College to the Statement presented to the Lord l'resident on belatf of the -Association of Forlonts.
Tue Royal College of Surgeons of Eingland consists of ahout 18,000 Members, of whom alont 1,200 are liellows. The governing body of the Colloge eonsists of a Council of twenty-four lellows, elected by the Frblows as directed ly the Charters of 1818 and LRis. Thren mombers of the Comncil retire every year, and are eligible for re-elrction.
The Fellowship Examination was institutel in the interest of surkical exlucation, nuld to constitute a body from whom and by whom the Council should be eldeted. The Fellowship represents a higher grade than the Membership. In order to obtain the lellowship, a longer time nust in devited to professional study. than is reguirend for the Membership, and a further and more difficult cxamination must lee passed.

In reply to the enmplaint of some Members that certain priviloges are exclusively in the lenads of the fellowe, it should be underitnod that it is opion to Mrmbers of the College to beeome Fellows. Acema in thi Pallowship Finmination has been iacilitaterl to such an "xterr that any Shenlow of two years' standing.
 the profecsinn durine that puriowl, inay present limself for it without any further spenial curriculum of professional stuly in wolving additional "xpense.

It has of late heen repeaterly aflimed that the Hombers have no privilegra within the folloge. lint such a statement is unt correct. The $1 f$ embers have the privileges of admissinn to the Huspum, to the Liherar: and to all leatures delivered within tho College walls, of enmpiting for the College prizes, and of bing eligible for certain lexaminerships and Luctureships. These
privilages (which inelule all those of the fellows with the exception of the dection of and the heing electerl to the bonncil. and of being cligible as lexaminers for the Pellowship) may compare favouralify with those of the graduates, not Dembers of Convocation or the somate of oxfort or C'mblirige respectively.

The authors of the statement to the Lorel l'resident appur to complain of the appointment of a number of fellows ly election; but in the first instance this was necessary, ns the lemeling surgeons of Finghme conld harely have luen sulojeetm to examination. Tho present proposal of the Council to olataln power to extend tho number of Members anmully elected to the Fellowship without cxamination from two to teri, as a maximum, was mainly to meet the view of some that certain. Members of the College were entitlel to the honour of the lellowship by distinguished serviecs in their profersion, and yet were too andraced in life to we sulijected to any further examination.
The proposal on behalf of tho Association, that Jembers of ten years' standing should take part in the election of the Conncil, and that Mombers of twenty years' standing should he eligille as councillors, would substitute mere seniority for professional distinction, as proved by examination or by distinguished professional merit.
If no by-law could be made or modified without the consent of a general meeting of liellows and Members, the delay and dificulty would he so grat as scminuly to interfere with the eflicient conduct of masines. The process by which alone a bylaw is made or modified is already a very claborate one, naml affords, in the opinion of the Council, ample sufuguard against its abuse, and, in fact, every proposul for such a change is made pablic before it is sulmited to the Secretary of State for his sanction.
To the suggestion that the election of the I'resident should be in the lands of the Fellows at large, fthe Council submit the following objections, namely:-
(a) That there is mo "ridence that the great body of the Fellows themselves desire this change
(b) That no arrangement lyy which it eould be carried out has licen suggested that would not he in itself objectionable, and in many instances so disagreeable to the candidates themselyes, as to deter some of the most distinguished from coming forward.
(c) That the Council, who are chosen by the Fellows, must of necessity be better judges of the qualification of any one of their number for the oflice of Iresident than the general body of Fellows.
(d) That election by the pellows might in some instances teml Io interfere with the independent action of those members of the Conncil who might aspire to the oflice of President.
(e) That it might lean to contested elections, and thereby encourage the practice of persounl canvassing, of extorting pledges, and of holling out promises.
(f) That it would practically place the election, not in the hands of the body of Fellows generally, lut of a comparatively small number who would make themselves actire in the business of the electinn.
(g) That the system of anmal electim ly seniority merely, which until recently prevailed, and agrainst which strong objection has existed in the Cumeil itself, has been discontinued, the present l'resident being now in his third yenr of oflice.
The Conncil would sumnit that tho College is a scientific, culueational, and professionn inatitution, and not a political one Their carmest desire is to uphold surgienl educution, and, with this oliject in view, to encourage. Dhmbers to take the Fellowship.
The great purpose for whiol the College exists being the promotion of the seience and art of surgery, the clicef means at present at its command for effecting this jurpose would be serionsly impaired if elanges sueh as those proposed were carried out.
The resulte of the inquiries made ly the Council show that the majority of the lollows are (pposed to the c-laims set up on behalf of the Nembers, and thero is no eviclence hefore the Conncil that the majority of even the 1 lombers themselyes are in favour of them.
The Conncil think it right to point out the following instances, among others of inaceuracy in the statement which has been "lrawn up on belanlf of the "Association of reellows."
It is statell that the necescity for some control over the actions of the Council is slown " hy the arlitrary way in which the Council artele such grestinne as the amalgamation for examination purpinses with tha Collece of Plysicians, and the "xelusion from that Scheme of the Societ $y$ of Apotheentius," and also "ly the setheme now in progress for acquiring powers along with the Cullege of

Physicians to grant degrees in medicine, a scleme which may or may net le acceptrable to the general hody of the College, but on which they have never heen consulted, though the matter is one which tonches their interests most nearly."
At a meeting of the rellows and Members at the College on Mareh $24 t h$. 1834 , the following resolution was passed, namely:-
"That this menting of Fellows aul Memlers of the ioval Collecre of Surgens of Eingland begs most respectfully to recommend that the Council of the College do obtain a Charter to enable the Comeil to combine with the Royal College of Plysiciuns of London, with a view to the amalgamation of the two Colleges inte one great College of Medicine, to be endowed with authority to examine ant grant licences to practise in all brancles of medicine and surgery, and to confer on its licentiates the degrecs and titles of Boctor of Medicine and Master of Surgery."
The scheme propesed ly the two Colleges is in accordance with this resolution.

So that, in taking the steps complained of, the Council are acting in barmony with the desire expressed by the Fellows and Members at their general meeting, and since confirmed by a memorial 1 resented to them containing over six hundred signatures.

Again, it is affirmed tbat " no longer ago than last year a proposal was attributed to an emiuent member of the Conucil to admit, by a rote of the Conucil, tifty Members each year to the Fellowsliip-a measure which, if it had been carried ont, ,rould have destroyed the acalemic ralue of that diploma. This proposal was riyorously resisted by the Association, and did not pass the Council."

The question here alluded to has nerer been discussed by the Council.
Should the Lords of the Comeil desire any further information, the Council of the College will wait on their Lordships.
January 19th, 1888 . Wilanal S. Savory, President.

## THE RANK OF ARMY MEDICAL OFFICERS.

## REPORT OF RESOLUTIONS OF THE COLNCIL OF THE BRITISH NEDICAL ASSOCIATION.

The Council of the British Modical Association having had before them the roport of the Parliamentary Bills Committee of the Associatiun referred to the Conncil hy a resolntion moved at the general mecting of the Association in Dublin on August 2 nd by Sir Thomas Crawford, K.C.B., Director-General of the Army Medical Department; and also an analysis of the statements of 922 nerlical ufticers of the arny, many of them of the highost rank, have unanimously adopted the following report and recommendations, which will be efficially forwarded to the Secretary of State for War.

Report of the Committee of Council on the suldject of the Rank of Army Medical Officers.
Your Committee in considering this subject have had before them:

1. The paragraplis of the Repert of the Parliamcutary Dills Committee en the suliject of army medical rank, referred to them for consideration.
2. The replies of 922 army medical officers at home and ahroad, to a series of guestions issued by the Chairman of the Payliamentary liills Committee with the view of ascertaining precisely What are the sentiments of the individual army medical efficers of all grades, in reference to the question of rank, whether honorary, relative, or sulstantive.
3. An immedtate mass of correspondence from officers of nil ranks expressing in detail the gromend and arguments by which they support their views.
An analysis of the above documents has been printed for the use of the Committee, and copies nre submitted with this report.

Without entering into any prolonged statement or discnssion, it mey be stated that the abolition of relative rank by the Warrant of January, $1 \times 57$, was the immediate canse of the present dissatisfuction, and that subserquent steps taken by the War Office have not had the effect of giving satisfaction to the Army Medical Service generally.
From an examination of the documentary cvidence submitted to this Committec it results:
(a) That the abolition of relative rank has, in the almost unanimous opinion of these interested, inflicted a grave injury on the status of the Sedieal Department in the army by leaving the officers without any definable or namable army rank.
(b) That, to an army like ours, serving in every climate and all parts of the world, a thoroughly organised, efficicut and contented medical service is essential for the health, discipline and physical well-being of the soldiers; and that, thercfere, the present anomalous position of the medical officers in the army is indefensible, an evil to the troops, and against sound policy.
(c) That, as both officers and men of the Medical Department equally share with their combatant brethren the inks of climate: the dangers aud privations of field service, and are not infrequently lilled and wounded in battle, ${ }^{1}$ the deprivation of $l o n a-$-fide rank, title and status in the army is not only unjust and ungenerons, but an administrative reproach.
(d) That namable and definable rank should be accorded to medical officers, whether of a substantive, honorary, or relative nature.
(e) That, should it be determined to give medical officers a hybrid professional and military title, such should clearly indicate the actual rank of the holler by affixing tha military title to the professional designation.
(f) That, when medical officers are gazetted, on nppointment or promotion, their military rank should be fully stated.
(g) That the substantial military rank and status slould he stated in commissions of all medicnl officers.
Your Committee recommend to the Council to submit these conclusions to the Secretary of State for War, and to urge upon him these considerations, seeing that the efficiency of the Army Medical Deprartment and the prospects of recruiting it in the future from the abler sections of the younger members of the medical profession cannot but be serionily and prejudicially affected ly the present anomalons position held by medical oficers in Her Majesty's Army, and the general dissatisfaction arising therefrem. It should be pointel out that is per cent. of the arms medical officers whose communications to the extent of 922 have been received regard the concession of army titular rank to medical officers as cssential to the efficiency of the Medical Department.

[^27]Cesterariass. - The death is annonnced in Dublin of Mrs. Bridget Dempsey Coolehan, at the advanced age of 106 years. On the family tombstone is recorded the death of her granelfather in 1821, at the age of 126 years.-Mrs. Elizabeth Stillman has died at Newbury within two nonths of reaching her 102 nd year. She was in good health and retained her mental facutties till a short time ago.
Tins sumual report of the City of Lomdon Truss Society shows that no fewer than 9.311 patients of both sexes and ages, varying from a few wceks to uinely years, were relieved.

## ASSOCIATION INTELLIGENCE.


Mentings of the Cinumeil will he held on April 1sth, Iuly 18th, and Oetoler 15th, lRes. L'andilates for thection ly the Coincil of the Association must serm in their furms of application to the Ciemenl Secremary not later than twonty-une days hefore each muting, namely, Marel weth, June sth, September 2bth, and Decembler 2sth, issis.

## ELECTION OF NEMBERS.

Axy qualifiel medical practitimur, not disqualified by any hy-law of the Assaciation, who shall he recommended as eligible hy any three members, may lne wected a member by the Council or liy any meeognised IBranch Couscil.
Cnudidates seeking election ly a Branch Corneil should apply to the seeretary of the Branch. So member ean he elected by a Branch Council unliss his name has heen inserted in the circular summoning the ruecting at which ho serks rlection.

Finscis Fowre, General Secretary.

## COLLECTITE INVESTIGITION OF DISEASE.

Tue Report upon the Coskectios of Disease with llabits of Istemperance, which was presented to the Seetion of Mellicine in the Amunl Meerting of $18 \% 7$, and a further portion of the Report upon On, Acr: have heen completed, and will shortly be publishod in the Jounsat..
Reports upon the two remaining inquiries, nomely, that into Dipitifma, and that into the (imoinaphical Distimettos of crantars 1)iskasp:s, are in prequation, and will be published as soon as ready.
The following ingury only of the first series remains open, mamely, that on Tue Etronocis of Putiosis.
A frest inquiry into the Omigivand Mode of Propagation of Fiphemics of Dipithimenits has just been issucd.
Mensranda upon these sulject $x$, and forms for recorlling observations, may be had on application to the Secretary of the Cullective Investigntion Committec, 429, strand, W.C:

## BR.INCH MEETHKGS TO DE IIELD.

Metrmpotitan Cotwties Mraycti : East Lomon ayd South Fseex DigTBict. - The next menting will he hellk at tho Town Hall. Walthamstow, m Thuralay. Gitbriary $166!$, at $8.45 \mathrm{~F}, \mathrm{M}$. (Nharp), The chalr will he taken by A. Durham, lisq. Trrestelent of the Branch. A paper on Pernicimus Anamia, and the Dikensea lifable to be Confoundel with It, will be real hy Dr. Bristowe, F.1R.S. Visitare will le welcomed.-J, W. Hescr, 101, Qucen'a lkuad, Dalston, flunomary secentary.
fibatchetmantre brasch. - The next orilinary mecting will be held on
 The preshlemey of Dr, Curvi", dgenda: 1. A petitlum will be Inid un the table Tor algnature liy mentwore in support of the Architents and bugiserra Bili, a

 Homumpathy in helat imblo lientar Medioine. 3. Casca of interest in the ins-


Border Colevtife Brasert- - A neving of this Branch will he held at the


 will ho glat io revolue mutices of papers for reating. and patlests ne morlifi
 Ilvaorary simertary, 41. Louther Sireat, Cartisle.



 J. Maraball lambo Burnees. 3. Mution of Dr. Wight-te memurialise Phe Town
 prmacht varant le fllest up hy a gnalifirl medtral practitioner. who shall bo Exrluiled frinn privite proctio. Atid whew whole thice alinlt bosirvoted ta the





 1:+1, 511. Honorary Survelarins.
 natell Companien of the Order of S1. Wichael and St. Geerge.

AF゙TROHOHITAN COUNTUS JBR.NCH: WESTRRS DBTRUT. 'TuE second meeting of the sassion was hedel (hy kind jrrmission of the incdical stuff) in the lifrary of St. Mary's Hospital, 1’adington, on Firidnj, January ath. The chair was taken by 10r. Charlton Bastinn, E..R.S., the Viee-president of the district, and ahout forty members umb visitors were present.
 to St. Hary's and the Children's 1 ospitals, gave a very inturesting and practical deseription of eurtain chronic disuases of the kneejoint in young children. Mr. Owen exhibited sovernl patients, mud showed the adaptation of certain njpurutus, such as Thomas's and plaster-of-l’aris splints, ete. Mr. Owen also slowed a case of syonovis, which he* trented by aspirution and the immediato application of a plaster-of-l'aris sylint.-A discussion ansued, in which Dr. Bastias, Mr. 太ublez Smith, and Dr. Camphele P'opb teok part.

Diseasenf Spinal Cord.-Mr. Lews, physiciantoSt. Mary: Hospital and assistant physician to the Children's Hospital, then described certain points connected with different kinds of chronic disease of spinal cord, subsequently illustrating his remarks by the exhibition of patients suffering from locomotor ataxy in various stages, infantile paralysis, spastic paraptegia, hemiplegia, etc.
tites of Thanks.-The proceedings ended hy cordial votes of thanks being passol to Mr. Owen, Dr. Lees, and the Chairman.

## NORTH OF IRELAND BRANCH.

A genvrat, meeting of the Branch was held in the Royal flospital, Belfast, on Thurselay, January " 6 lis, 1888. Dr. Paramen (Armagh), l'resident of the Branch, occupied the clair, and there was a good attendance of memhers.

Communications.-The minntes of the previous meving having heen read, the following commanications were bronght forward: The P'resinext (Dr. l'almer) showed a young voman on whom he had performed excision of the knee-joint. - Dr. Nrison read notes of an Ear case, in which perforation of the mastoid and trephining of the skull had becn performed for scpticemia, and showed the specimen.-Dr. Dempser showed an Orarian Cyst and a Subrucous Fibroid removed from the Uterus, and read notes of the cases.-Dr. Byens shomell a new Intiseptic Confinement Sheet, and a Multilocular Cystic Tumour of the Ovary, which he had successfully removed by abdominal section.- Professor Dilit introduced a discnssion on Pucrperal Fever, and Dr. Byens real a short paper on the Loeal Treatment of the Uterus (illustrated by instruments, etc.) in Puerperal Septicemia. A iliscussion followed, in which several members took jart, and Dr. Dilt, rephied. Dr. OXEnfe showed two patients on whom he had performal amputation of the thigh by'sedillot's method, and also a patient treated for severe Wry-neck.-I'rofessor Sinctain exhibited a Segmont of the Smali Intestine remored ly Enterectomy for Artificial Anus, of cighteen months st anding ; also a Cancerous Tumour of the Rectum removed for excision.
New Members.-At a meeting of council held previous to the general meeting, the following were plected memhers of the North of Ireland Branch: Dr. Sproulle (Sinintfeld, co. Down), Dr. Ilunter (Amangh), and Dr. Aldilister (Carrickfergus).

## OXFORD AND DISTRICT BRANCIT.

An ordinary meeting was ledel at the Radeliffe Infirmary, Oxford, on Jamury 20th: Mr. Cheathe, Presidnat, in the chair; twentyfour members were present, and one visitor.

Sere Members. Thos. OKelly, M,D.Q.U.J., Chipmer Vorton; Bertram ldunt, M.P.Oxon., Oxford; F.S. Imold, M. B:Oxon., Oxford, ware elfeted members of the issuciation and Branch. Seven gentlem+n were proposell for election at the next meeting.

Alferation of by-lare--Dr. Marbisinam gave notice of proposiug nanleration in By-law 1 at the next meding.
(rmmmentions.- Dr. Brwatere Wian read a pmper on a case of 1"upilloma of the Bladder, and showed a specimen.- Mr. Bhaxsome read notes of a case of Anthrax, and showed microscopical preparations of the Bacillus Anthracis.-Mr. Alongsis rend notes of a case of l'rimary Chancre on the Lip, and showed specimens of Disense of the linui-jnint.--Mr. Winkfiklid real notes of a case of Lithotrity, with specimens of Calculi, and showed $n$ case of Sarmma of the Shoubler, amb of Syphilitic Firnption on the llanda.
1)r. Colinen showmin specimen of ligature of the Carotic Artery for Thoracic Ancurysht, and (for Mr. Pilebivatos) a specimen of Charcot's liserase of the Joints.

Tote of Thanks-A cordial vote of thanks was passed in the Iresident.

## TIIE GLOUCESTERSIIRE BRANCH.

An ordinary meeting was held on Tuesday, January 17th, 1888, at T.30 r.s., at the General Ilospital. Cheltenham, under the presidency of Dr. Currie. Letters of apology were read fur nonattendince from Messrs. Bower, Fowler, and Wilton.

President's Address.-Dr. Commie delivered his presidential address, taking as his subject "Scepticism in regard to Medical Treatment."

It was proposed by Dr. Wilson, and seconded by Dr. Batten, that a cordial rote of thanks be given to Dr. Currie for his able address, with a reguest that he should publish it in the Journil. Carried by acclamation.

## Proceedings of council.

At a meeting of the Council, held in the Council Room of the Assuciation, 429, Strand, London, on Wednesday, January 18th, 1888: present:-

Ur. T. Eridgwater, President of the Council, in the chair,
Dr. (:. Holman, Reigate, Treasurer Dr. James Hardie, Manchester
Dr. J. S. Bristowe, F.I.S., London
Mr. H. T. Butlin, London

## Dr. A. Carpenter, Croydon

Surgeon-General W. R: Cornish, London
Dr. J. Ward Cousins, Portsmouth
Dr. G. W. Crowe, Worcester
Dr. Y. M. Veas, Exeter
Dr. J. I. H. Down, London
Dr. G. F. Duffer, Dublin
Mr. George Eustes, London
Dr. W. A. Elliston, Ipsswich
Sir B. Walter Foster, M.D., M.P., Birmingham
Dr. J. 11. Ftalton, Upper Norwood
Dr. C. E. Glascott, Manchester
Dr. Bruce (inff, Bothwell
Dr. W. C. Grigg, Loadon
culated, and no ofjection meeting having been printed and circulatel, and no objection raised, they were signed as correct.
Read lntters of apology for non-attendance from Dr. Bryan, Dr. Cheen, Mr. Vincent Jackson, Dr. Withers Moore, Dr. James Taylor, Dr. Needham, Mr. Prankerd, Mr. Wheelhouse, Dr. J. Barnes, Dr. Bartolomé, Mr. J. Wright Baker, Mr. Arthur Jackson, Dr. Jones Morris, and Ur. W: Ruseoll.

Read letter from Dr. Gowans, Perth, of which the following is a copy:-
Dear Sfr, -T have much pleasire in forwarding the euclosed petition (signed hy 25 members of the l'ert hshire Medical Association), desiring to be recognised as a Branch of the British Medical Assoclation. Although only 25 signatures are exhilhitul, still a number more conld hare been obtained had time permitted and had it been necessary.
1 shonld feel much outiged by your kindly letting me know the result after Council meeting. - 1 am, Yours faithfully,
F. Fowke, EAq.. Lomdon.
F. Fowke, Exq., London.
W. B. Gowans, M.D., Secretary.

## To the Council of the British Mredical Association.

GFintumes, -Wre the uadersigned. members of the Perthshire yedicil 1888. ciation, and also niempers of the British Medical Association, herely make applicatiou to he recognised as a Branch of the latter Association, madertaking that. sald application being granted, we shall conform in all rcspects to the hy-liws now existing, or which hereifter mas be made, regarding the formation and regulat ion of aur'h Branches:-
Th. M. Bryce Troter, L'resident.
A. IR. L'rquhart

John Mčaughtan, M.J.
J. Ifolmes Norrismi, M.1., F.T.C.S.E.
J. Sinclair Kemuerly, M. IT., ('.M.

James 1'. Bramwell, M.J.. L.L.C.S. George Findlay. M.13.. C.M.
Iefgh Hint, M.M., C.M. Lejgh Hunt, M.
Javial Fleming. Javid Fleming. Thos, MI, Meikle, M. ©, A. Thot, Thom, F.C.S. El.

John 1Yaggart, M.B., C.M.
Weorge Wr. Dickson, IF.B.C.C.M. Fd.
Joseph H. Keay, M.A., A1.1., C.M.Ed.
Jom Lowe M.B.. C.M.Bd. C.M..
J. Beghic Laing,

Thonas Brown, L.F.F.S.
Andrew MeJilian, M.D.
Andrew Me3Sillan, M.D.
Colin Maclser Camplell, M.D.
Robt. Johert son, L. F.P.S.
I'eter MicCullam, L.F. P.S.G.
Win. Brite Gowans, M.1).Edin.

Resolved: That the Comncil of the British Merlicul Assaciation has much licasure in recoguising the l'erthshire bratuch of the British Maelical Associntion, suhject to the confirmation hy the next meeting of Council, when the memhers he requested to send accoly af the proposed ly-laws of the branch for consideration sull approvill.

Reall iefter lome the Temistrar-fommal in raply to the one of
the Council of October 2fith last, of which the following is a cory

General Register Officc, Somerset IIonse, Norember 19th, 1897. Str, I amdireeted by the legistrar-General to acknowlenge the receipt of say that be regrets that, after giving the matter full consideration, be is unable to accede to the request that he shall canse the deaths from malignant discases, whleh are now tabulated in his Annual Report under as single headlag. do be tabulated for a series of years under separate headinger, according to the part of the hody affected.
Probably the centlemen who with rou sigmed that letter are ont aware of the great and regrettable lack of Irecision with which vers many members of the
medical profession state causes of death in their certificates; the resnit of which is that these certificates can only be tahulated with utility under wide and general headings, and are quite unsuited to serve as materials for precise pathological inquiries. In a very large proportion of the deaths aycrlbed to malignant diseases, neither the part of the body affected nor the precise character of the malignant structure is stated on the certificate; so that ant attempt to lureak up the heading."Malignant Diseases" into munerous smaller sub-divisions ronld be practically of little use. But esen were it not so. the Registrar-General would be nnable to accede to the request now made to him. The healings under which the causes of death are at present tabulated are no fewer than 173; and the labour of arranging the deatlis under these is such as to tax to the utmost the clerical force which the Registrar-Gcocral has at his disposal for statistical parposes. If any alteration were made in this list of headings, it would be to diminish their number; and a proposal to increase
them, and this so considerably. as is involved in the request now, made, is one them, and this so considerably. as is involved in the request now, made, is one
that the Registrar-General regrets that he cannot possibly entertain. IJe would renture to suggest, however, that returns gathered from the numerous hospitals of this comntry, in which full and precise records of causes of deaths the modical practitioners who uelong to the Association in all parts of the the modical practitioners who uelong to the Association in all parts of the Investigation than a complication from the very imperfectly filled-in certificates in the possession of this ofriee.
As regards that considerable portion of your letter in which it is argued that the increase in the deaths ascribed to cancer corresponds to a real growth of the diseases so designated, and is not due to improved diagnosis and statement, the Registrar-General cannot of course think af putting any opiaion of his own on such a sulject in opposition to that of medieal men of wide expericoce and long practice. Ite would, howerer, point out that the numerical arguments adduced in your lefter are based upon the erroneous assumption that the headings in the Ananal Repart for 1867 correspond completely to the similar headings in the present Annual Reports; whereas this is not the casc, a great change laviog
been made in the classitication in 1881 , as is fully explained in the Report for that year. And, secoodly, he would point out that your letter appears to imply that the Registrar-General has expressed an opinion in his repurts that the whole of the increase under the headiog "Cancer" has been due to iuprosed diagnosis and more careful statement. This, howerer, is a mistake. All that the Registrar-General has done is as follows. Finding that the deaths from cancer were fear by year increasing in nuniber, and more rapidly than the population; he has in several reports called the attention of medicai men to the fact ; but, in so doing, has also pointed out that much of this iocrease-how precise statement of cause: and if it be admitted-amd the Registram-General scarcely supposes that the British Medical Association will not admit-that medical diagnosis has, as a fact. heen improving. and that inellical certificates are now givell with greater care than formerly, it appears to follow alonost as a necessary consequence, that at any rate some part of the increased mortality under the hasding "Cancer" mast be so cansed. It may possibly be that thie Registrar-General is inclined to attribute too large a slaire of the increase th this eause; but this is a question simplr of degree; and that some part of the increase has been thus caused is in his judgment indisputable.- 1 am, Sir, Jour
obedient servant. obecient servant.

Also suggesterl letter in reply, of which the following is a copy:
To the Registrar-General of Biths, Deaths, and. Marriages in Enoland. Sir.-We have to acknowledge
19th, signed ly Dr. William Ogle.
In reference to the several parts of it, we mar state that we were perfectly aware that the lack of precision in the existing certiticates woold render then useless in framing statistics for the years that are passed. It is for the future that we hope for more detailed stat isties, and we trust that sufficient!s precise certiticates will be forthconing when the purpose for which they are uesed has been made known.
Gour letter spens
lour letter speaks of "precise pathological inquiries." We hasten to assnre you that we have no intention of asking for soch au inguiry. We do not even Rek for a tlivision of the eases of malignant disease into their different saricties, unt only for a division aceording to the part of the body affected.
In reply to your suggestion that we should wather rect anns from the fospitals
of the contry, we mar sar that such returns would be fincomplet, and might of the coint ry, we may say that such returns would be incomplete, and might
even be misleading. They would deal ouly with poor people. They wonld vary according to the relation each individual hospital to the smrounding population, and to its attraction in cases requiring operation. ete. Moremer. comparatively few of the patients who are treated for cancer itt the huspitals die there. Although, then, hospital statistles are of value in showring the comparative frequency of cancer in the dinerent organs of the humy, and the
varions forms which it usautes In different localities. the statisties from this
 enarce are sa

With reqain to tho last. naragraph, we fnlly informed ourselves of the changes which had heen made in the Aunual Reports, and used those tables which mest nearly correwpent and which contain sionilar brathys of disease in the lieports of different. years. In relathon to this point, we veature to quots tho narskraphs in Your Report for 182 l . The firs paragraph runs ag follows:- "One when it has been carrici out varafter year for a consldemble perion, is that it chables those who are entraged in preventive medicine on who are stadying the matural history of diseares, to compare the mortality trom each canse iu suc-
ressive vears. etc., ete. (page six). The secoml paragtaph is.:- If these resive vears. etc., ete, (nage mix). The secom paragraph is.- It these









 our lape that you will see your way to provile us with more detailed statistics on the sntuject, and of a khil whicli commot bo ubininet from anyo ofher souree. -Wo rumain, sir, your uberlient sirvants,

Resnlverl: That tho letter her reasivel and approveri, ande form
 abenatation comsisting of the signatorios be appointed to meet Dr. Ugle, if necessury, in eliscuns the sulbject with litm.
Read lefter from the Honmary Siccretary of the lieading Branch, requestine that the proposisls of a specinl general mecting of the lieading Branch to elhage the name of the lranela to the deading and Cupher Thames lranch, and that minnmal meeting and dimner be held in the first week in July in each year, and that the Council shall have power to arrange for lurther meetings if consileresl desirable, hon aproverl and enntirmen by the Conncil.
lesolved: That the prigmsals enntaineyl in Dr. Heygate Phillips's leter relative to the ateration in the name of the Feading Branch and the ammal meeting of the brunch be approved and confirmen).
Fead letter from Surgeon J. J. Lamprey, suggesting that in those distriets in the Colonies which are too sparely populated and the medical men live ton far apart to form a branch, a 1 l omber of the Issociation should be appointed as llonorary Secretary for the District.
Resolved: That the letter he referred to the Journal and Finnnce Committee for eonsilleration.
Read letter from Mr. Jielson Harly asking for the occasional use of the Council Room for the Metropolitan l'olice Surgeons Association.
The consideration of the letter was postponed till the reading of the minutes of the l'remises and Library Committee.

Resolverl: Tlint the $25-1$ Candidates whase names nupear on the circular convening the mecting bn, and they are herehy, clected members of the British Medical Association.
liesolrmal: That the Minutes of the Journal and Finance Committee of todny's date be recuived and approved, and the recommendations contnined therein earried into effect, with the exception of the recommendation relating to the increase of salaries of the nfficers.

The Jinuteg of the Jonrmal nun Finance Commitiee contain the nccounts of
 andifors quarterly curtilimate. Jtecomamendutions for ihe investment of fa, und, mud the Increasp of ufficers salaries.
Imanlved: That the recommemation on the increase of snlaries of nftien a loe referred liack to the Jourual and Finance Committec, and reportell upon to the Council at the next meeting.

Resolvel: That the Minutes of the llabitual Drmanards Committen of the 17 th inst. be received aml npprnved, and the recommendations entained therpin carrien into effect.
The minntes of the EIbitual Ilrunkarils Committee contain a recomanendar fion that tho Jione Secrotary le requestenl to receive a rleputation of the Comqnietce uposit he subject of further restrictive leglolation for IIabitual Drankards.
luesolved: That the Alinutes of the Therapeutics Committee of the 17 th inst. be receiver and suphrused, and the recommendations contained therein carriml into cffect.

The Consmitten met inconsider resolutions passeluy the Therapentie Sectlon at the annumlmerting at Juthln bu Sugust lust, arultotakeanchateps in emory
 L'resjifertis milruss.
Resolval: That the Jinutes of the I'remises and library Committen of the wlat dny of Siovember last aml of the 17 th imat. be ruceived and approsed. and the recommendations contained therein carried into (effect.
The minutes of the Prentera ant lithmry Committoe eontain arveral offors of (manks, the tieport of Dr. .ilfr-I Carpenter relaplue to the fimprowement In the whthation, and reconmum lithona whth certain conditious upon whth scientific assorlations may have thels meetings In the Comell Ronm.
liesolvel: That the Minutes of the lonative Rank Committer of the nith of Octolere last and of the 17 th inst., together with the Runore of the Committes (sec page ebis), be received and approvel, and the recommendations enntainel therein carried into effect.
 services, and to take any furthor steps that may lor neeessarr.

Resolved: That the Dlinutes of the Fees to Witnesses Subeom-
mittee of the 1 thth inst. her received nat npproved, and the recommendations enntained therein enrriml intu effect.
 quastion the blaced before the branclu's of 1 hw Assmeintion for evddence as to the prackleenf the connts tu the varlous jarts of lie Lisiteal Kingiom.
The further artungenents for the naual meeting at Glasgow were then consillarefl.

## SPECIAL CORRESPONDENCE.

## SAN REMO.

[FRom nit ows commesposdent.]
Amtur a weekis conlinement to lis room owing to a catarrhal attack and some change in the laryngeal condition reported elswhere in your collmas, the Crown lrince is again to be seen taking daily drives, apparently none the worse. There has been tho surgestion here of any fresh consultation taking place. Sir Alorell Nackenzie continues to enjoy the mast absolute confidonce of his august jatient and that of the Crown Princess and the family generally. Sir M. Mackenzie arrival hero on Sunday afternonn, being met at Ventimiglia by lr. I'reeman.
On Wednesday und Thursday the ammal bazanr in aid of the poor of all nationalities mas held here, nnder the patronage of the Crown l'rincess. who contribnted two terracatta plaques painted by herself, Prince llenry also sending a sketch. The royal party luncled at the buffet, which was kept and served entirely by the English. The room and tables were most tastefully decorated, and the young ladies attired as maitresses and the gentlemen as cooks made an effective scene. In the evening a dance was held, at which Prince llenry thoroughly enjoyed Limself, dancing until 3 A.M., when he left by the early morning train for Milan, to meet his future bride, the l'rincess lrene, who, with her father, the Grand Duke of Ilesse, have arrived to stay for some time.

On Wednesday, the thittieth anniversary of the Crown Irince and Irincess's wedding-day, addresses and bouquets were presented, and a display of tireworks with illuminations of the hotels took place in the evening.

On Wednesday next a subseription ball in aid of the Ophthalmic Institute is to be held, and it is expected it will he a grent success, Prince Ilenry and the I'rincesses having promised to be present.
There have been many visitors to San licmo and to the Villa Zirio the last week or two, amongst others, the Princess Louise and Lord Lnrne, the Marquis of Jlartington, and Sir IIenry and Lady Lavarel.

Mr. Eilwarl Lear, the eminent water-colour artist, and the nuthor of the famous books of Nonsense, long resident here, died on Sunday Inst.

## MANCHESTER.

[FROM otn nwi conraspondest.]
Tacant Chairs in Outens College.-Ship Canal and the Pollution of the Iruell.-Small-por.-University Clubs.
Go far mo oftcial intimation has been made of the racant Chairs of Onstetries and Surgery in Owens College. We believe that the Buthorities of the College are seriously considering low they enn most efliciently thll these importnnt posts with most benefit to the: medical sturlents of Owens Collegre. The Owens College is now so large and important a centre of inedical instruction (the average number of students attending classes during the winter session on purely medical subjects heing nbout three hundred), that its authoritips are bound to secure for these posts the very hest a wailable nen, men who will throw themselves into their work with vignur and enthusinsm. The following local gentlemen are, we helinve, likely to he candidates for the Chnir of Obstetrics, namely, I)r. Willian Inpp, Sinclair, Dr. Walter, and Dr. Lloyd Roberts. As in the candilates for the Chin of Surgery, rumour is bnsy with the names of several local surgeons, but, so far, nothing is definitely tecided on this matter.
Tha Ship Cama is likely to have fur-reaching effects, npart from its commereial allantages, on the Wanchester district. At a confarcnce of local authorities the question as to what means can be taken to prevent the pollution of the Mersey and Irwell was dischsiand last week. The eanal will depend upon the waters furrusheal hy these rivers; and if the water be allowed to remain pol-
luted with sewage and the refuse of manufactories which these rivers and their tributaries pass, then the canal will become the main sewer of the greater part of South Laneashire instead of the great waterway of the county. The rivers must be cleansed, and the directors of the Ship Cunal and the various local bodies of Lancashire have taken steps to see how this can best be accomplished.
The Manchester Loard of Guardians have adopted suggestions drawn up by their medical officer in view of a possible outbreak of small-pox in Manclester.
The members of the Edinburgh and Aberdeen Unirersity Clubs have just held their annual reunions. At the dinner of the former, Dr. Little presided; at the latter, Dr. Sinclair. Dr. Paterson, of Owens College, was elected Secretary of the former, vice Mr. Ilardy, who has resigned. Mr. Hardy lias been Secretary since the formation of the Club.

## NEWCASTLE - UPON - TYNE. <br> [FROM OUR OWN CORRESPONDENT.] <br> College of Medicine.-Death-rate of Newcastle.-Annual Report of the Dispensary. - The Clinical Society.

The Council of the College of Medicine have instituted a series of lectures on anatomy and physiology, intended for artists, art students, and others interested in higher edneation; these will be held in February and March annually, the lecturers being Dr. Oliver, Lectnrer on Physiology at the College of Medicine, and Dr. Mears, Lecturer on Anatomy. The course comprises in the anatomical part:-The construction of the skeleton, showing use made of arch, girder, buttress, spring, wedge, and buffer; the formation of the varions kinds of joints, the mechanism of the muscles, and the internal mechanisms connected with respiration, circulation, ete. In the physiological part, the forees in action in the human body and their relations to the phenomena of life. Examinations will be held at the end of the course, and certificates awarded to the successful candidates.
The mortality returns of the city of Newcastle have for some time been unnsually high; there is reason, however, to believe that the returns have been estimated on a lower population than exists in the city; the Registrar-General has intimated that in future he will deal with the health statistics on the assumption of an increase of 20,000 inhabitants. This alteration will bring the mortality returns more in keeping with the actual state of things, and will enable Neweastle to compare more favourably with the other large torns of the kingdom.
Dr. Ridley, the resident medical officer at the dispensary, presented his annual report to the committee of the institution this week; it is the report for the 110th dispensary year, and shows an increase of 1,973 cases over that of the previons year; there bas been an increase of 2,024 in those cases recommended by a subscriber's letter, and a slight decrease in the number of easnal patients ; the letter-patients are, in the majority of cases, attended by the visiting assistants at their homes; Dr. Ridley ascribes the increase as largely due to an epidemic of measles which occurred in the spring. The report gives a table of the cases attended at home, tabulating them in their proper districts ; in each district the work has been much heavier than in past years, and it seems probable that an increase in the number of visiting assistants will be required if the work goes on increasing and is to be properly carried out. During the past year, Dr. Ridley says, he has instituted a series of investigations into the circumstances of patients under the dispensary through the melinm of the Charity Organisation Society, and in no case was it found that the charity was bcing abused. The number of casuals treated during the year was $15,0 \mathrm{s3}$, the largest number treated in one year, the increase being probably due to the closing of the casual department at the infirmary. The mortality returns for all the patients amount to 2.5 per cent.i amongst the home patients it is 9.4 per cent. The highest death-rate oceurs in children under 1 year and from 1 year to 5 years of age, the former being 19.0 per cent. and the latter 10.4 per cent.; 1,314 cases of zymotic disease were treated during the year, with a mortality of 7.3 per cent.; measles was responsible for 733 cases, with a death-rate of 5.6 ; scarlet fever, 159 cases, deathrate 1.8 per cent.; 15 cases of typlius ferer occurred, but Fere removed to the fever hospital. The report, coneludes with special reports from the special departments-aural, skin, and dental. Dr. Atkinson, in his report of the anral department, says the cases cammot well be grouped, owing to his ignorance of the condition of many of the patients treated prior to his receiving the care of
this department; he also suggests the inclusion of diseases of the throat in this section. The reports of the dental and skin departments are meagre in the extreme, the total number of cases alone being given, withont any attempt at elassification; it would be a great improvement if the reports of these departments were treated in the same exhaustive manner as that of the resident medical officer.
The annual dinner of the Clinical Society will be held on February 16th, 1888 , the President in the chair; representatives from nearly all the learned societies in the district have been asked, and I understand the evening will be even more snccessful than that of last year; the January meeting of the society was held last week. Dr. Ridley showed a stone remored by lateral lithotomy successfully, also a case of varicocele cured by subeutaneons ligature. Dr. Limont showed a well-marked case of pseudohypertrophic paralysis in a little boy. Dr. Hardie showed two cases of abdominal tumour, one renal the other splenic. Dr. Robertson (Gateshead) read a paper on infantile diarrhœa, which gave rise to an interesting discussion.

## CORRESPONDENCE.

## TIIE HENDON COW DISEASE.

Sir,-I had hoped that the Ilendon cow discussion would have been allowed to rest for a while. I must, howerer, ask you to kindly permit me to reply to Dr. Klein's letter in the Jocrsal of January 28th. Dr. Klein writes:-"Dr. Crookshank expressed great indignation at my having exhibited to that meeting 'without his permission,' 'his' calf. Now, the fact of the matter is that this ealf was not Dr. Crookshank's property. It belonged to Professor Brown, and had been sent with other similar calres by Professor Brown to the Animal Vaccine Station, etc."
The protest which I made, Sir, was a firm but not an indignant one, and is expressed in the Jocravar of January 2Ist, p. 135, as follows:

It was one of those calves which had been vaccinated at the National Vaccine Establishment which Dr. Klein had brought to the meeting. He, Professor Crookshank, thought that if this was to have been done it would only have been fair to have shown one of the first ealves that bad not taken when revaccinated. He thought that for one observer to publish part of the. as yet unpublished, researches of another, and to show one of his animals without his having been consulted, and to be allored to give his version of the results, was an event unparalleled in the history of the Pathological Society of London."

It ras not a question of the actual ownership of the ealres. Strictly speaking, they are the property of the Agricultural Department of the Privy Conncil. But they were handed over to me for my experiments, and I could therefore surely speak of them for the time being as mine. It was I myself Nho, on the morning of the special meeting, arranged that the calf which was to be exhibited should go straight on to the Animal Paccine Station, and I (not Professor Brown) further arranged for two more to follow afterwards from the Royal Veterinary College. I did this under the distinct impression that the experiments to be done were to be jointly done: and 1 distinctly understood at the time that Mr. Murply would co-operate with me. Mr. Murphy had expressed himself as most anxions to work with me at the cowpox aspect of the question, and he accepted my invitation to visit the Wiltshire farm and to eross-examine the milkers. He was greatly impressed with what he had seen and heard, and on the journey back even went so far as to say that, if it was not vaccinia, he did not know what it could be. Yet his co-operation fell through. Why?
I attended very regulariy at the Animal Vaccine Station until the ealves were ready. The first inoculation I made jointly with Dr. Cory; the sceond inceulation I made jointly with Mr. G. W. Collins, Dr. Cory being a way at the time; the third and fourth inoculations were made by Dr. Cory, and in each animal in about forty places, and in the presence of Professor Brown, Dr. Klein, and myself.
Now. Sir, my protest was directed to the fact that, although Professor Brown and 1 met Dr. klein, and we together inspected the calf on the rery morning of the meeting at the l'athological Society, yet Dr. Klein gave us no intimation of his intention to exhibit it at the meeting. Iad the proposal been made to me to show the calf, I should willingly have acquiesced; but I should
have shown also the other ealf the lirst remove from the boy's thumb) which had resisted the test of revaccination. To keejr this calf hack, and to show only the secoml rennove or pustular calf, which did take, will hardly commend itself to anyone as fair criticism or impartial co-operation for the advancencut of science.

The second part of my protest was elirected to the fact that Dr. Klein endeavourel to oxplain amby certaiu experiments of znine which are not yot published, and at which he was not cwn an onlooker. From some rough notes of these cxperiments which I sketcled out for the benefit of those interested in watching tho revaccinations, Dr. Kilein presentel to the Society a pedigree, with certain comments, which was printed in leaflet form and distrlbuted ly an attendant io members of the Society as they entered. I am surely justified in taking exception to this when 1 have promisell that all these experiments will shortly be pablisherl io full.

In conclusion. Sir, the subject of cor-pox has been pressed in the front: hut it must be remembered that the main question which is at present before the profession is, whether a certain vesicular disease of the teats of cows at Hendon-a disease communicated from aoimal to animal by the hand of the milker-was the very disease which we in man call scarlatiad? In other words, was the llendon cow lisense a disease new to science, which might be called the llendon or scarlatinal pox? The results of my investigation have forced me to rery different conclusions, and these it was my duty to lay before the profession.-I am, etc.,
January $30 \mathrm{th}, 18 \mathrm{ti}$.
Edgar 3. Cbookshank.

## herbert spencer on santation bi compettion.

Sir,--Will you allow an admirer of the «ritings of Mr. llerbert Spencer to point nut that your article in the Jourxal of Jaunary Quth does him injustice?

You say: "Mr. Spencer seems, too, to have studied only one feature of the Darrinian theory, and to understand the lessons even of that yery imperfectly." Now all that you quote from Mr. Spencer is in Social Statics, published in 1850; While the joint paper by Darwin and Wallace on Natural Selection was read at the Linnoan Society iu 1838 , aud the Origin of Specids appeared in 1859.

In the preface to the Imerican edition of Social Slatice, published in 1804, Mr. Spencer sars: "During the fourtecn rears that bave elapsed since the original pulilication of the work, the general theory which it enuncintes has undergone', in bis mind, consider-" able further development and some accompanying modifications." And. again: "In restating the doctrines he would bring into greater prominence the transitional nature of all political institations, and the consequent relative goodness of some arrangements Which have no claim to absolute goodness."

You say, "So long, Ior instance, as Mr. II. Spencer was content to occupy himself with the crolution of a theory of religion and lifo from his own inner consciousness and the writings of M. Comte," ctc Nothing could be more unlike than the religious views of Auguste Comtc and of Mr. Spencer. The object of Comatist wors Spencer says: "No such think as a 'religion of IIumanity' can ever do more than temporarily shut out the thonght of a Power of which Ifumanity is but a small and fugitive prorluct-a Power which was in coursi of ever-changing manifestations bufore Hu-manity was, and will continuct through other manifestations when. Ilumanity has ceasel to he" (Study of Sociology, chapter xii).-I am, etc., Ilfret R. ILAle.
Sunnybank, Shoot-up Itill, N.W.

* We inust decline to accept our cortespontent's apology on behalf of Mr. Herlert Spencer. In the light of Marwin's pablications, Mr. Spencer has permitteyl at least one new edition of Socinl Statics to be pullished without any modification of his nojectionable theories in the text. Niay, so far from that. (and this is a proof of that ignorance of tho completo bearing of Darwinism with which we chargod him), in a pullication (The Man versus the State) issued thirty-three years later than Social Statics, Mr. Spencer refers specifically io Mr. Darwin's doctrine of natural selection as strengthening his ohjectionable prosition, and expresses surprise that, despite the gencral acceptance of this doctrine by cultivated neople, "now mare than eyer lefore in the history of the world are they doing all they can to further survival of the unfittest."
As to the extent to which Mr. Ilerbert Spencer is indebterl to

Auguste Comte for his Theory of Religioni and Life, we must'refuse to enter into a' controversy unsuiter for our paghes. Wo are aware that Mr. Spencer has denied his inlebtedness to Comto for amy of his doctrines: we are also aware that this was is unswer to those who held, on what they deemed to be irrefragable proof, that wilhout the previous existence of Auguste Comte, Mr. Spencer's doctrines would neyer have seen the light.

## DR, CREIGHTON ON COW-PON AND VACCINAL SYPIILIS.

Sir,-The reviewer of a small work of mine on cow-pox has allowed two or three errors in matters of fact to creep into an otherwise learned, witty, and pertinent criticism. . 1 send the corrections, both on account of your habitual care in reporting upon books, and from a natural unwillingness that those who may have read the revien, but may nercr see the book, should go away thinking the thing which is not. ${ }^{-}$

1. "IIe gives us no assistance towards reducing whatever risk there may be in the operation (of raccinating) as nowadays practised." Can the reviewer have read the hook through? There are numerous examples in it of what follows from neglecting Jenuer's "golden rule", (see especially p. 117). In' more than a dozen places I advert to the danger of using late lymph. I adopt and endearour to elucidate the practical teaching of the late Dr. 1. C. Seaton, as to the avoidable caluses of the great vaccinal disasters which ha reoccurred mostly abroad, as well as the corresponding teaching on the no less obnoxious than misleading doctrine of invaccinated syphilis. 'I endeirour to illustrite the folly of vaceinating from a child, with an eruption ou its arms by reference to the well-knoryn case of a vaccination inspector, and by reference to the same case, to show the convenience of knowing the date after yaccination at which lymph is proposed to be taken. One of my principal themes, illustrated from the writings of Ceely, Estlin, Bousquet, and Jonner, himself, is the peculiar and even surprising. properties of primary lymph; I point out the danger of "going bach to the cown," and I may here remark that what I had to say on that point had acquired special relevancy within the last few weeks. Doubtless the author of a set of directions or instructions for vaccinators would have fallen into a more didactic turn of style; but I shall be, eurprised if my reasoned statement of the natural history of cow-por does not help vacciuators to understand how and when the risks arise.
2. "Of evidence we have none." This is said of the substance or main contention of the book, which occupies the preater part of it, and to which every part, of it leads up. I will charitably suppose that the reviewer here speaks in some non-natural. lickwickian, or constructive sonse. The book is pretty nearly all evidence; it is so compact with evidence, os any onlinary person will understand the mord, that it needs close reading to apprehend it. Not more than an eighth or tenth part is taken up with comments ; all the rest is a relation of evidence, collected and put together at the cost of much thme and pains. The eridence is constantly authenticated by full and precise references in the notes; it is summarisel in several pages of contents; it is alphabetically registered in an index; and if tho Agricultural Department had only been a few months carlier with its shocking revelations of reeent cow-pox, the evidence, wonld have been corroborated in an appendix, dealing also with the hunamitarian aspect of cow-pox in the cow, with tho contaninution of milk by scabs, pus, and blood, and with the scariot fover traceable to such sources.

2 The worl "falsehond" which I and accused of using along with "sophistry," does not occur in the book, nor any .equivalent of it .
4. "Ihenders will do wisely to verify each statement of our author hefore accepting him"-whaterer accepting "him" may mean. In form this is not a misleading assertion like I and 2; it is meroly a gentlemanly insinuation; it is tha sort of caution that one might give, in a parallel case, against a habitual liar or a detected impostor. Readers of this book, as the reviewer pathetieally tells them, may have scant means of gning to original source of iuformation; and, in the very same breath, ho throws upon them a task which he has thus far declined to take upon himself. l'erhaps the simplest way to deal with this gentleman will be for me now to challenge him to point ont one single misstatement of fact (for it is to matters of fact that his sweeping innuendo relates)
in those chapters of my book against' which hee specially" cautioned your readers.

In giving a chatlenge of that sort 1 know that I am inviting a closer scrutiny than-a Friter's work is ordinarily subjected to; but I give the challenge deliberately, and I shall foel obliged to you, Sir, if you frill undertake to delivér the'cartel to the person who has to answer it. -1 am , cte.,
U. CRETGHTON, M.D.

January 16th, 1888.

## MEDICAL EXAMINATIONE.

Sur,-The address by Mr. E. Owen which appears in the JourNaL of January :Sth refers to several points to which my attention has been oftentimes called during the past few years, and which are so important that they should not, I think, be allowed to pass without comment. With your permission 1 will refer to them in order.

1. The Conjoint English Board's examinations in chemistry and materia medica. I suppose the experience of every teacher of anatomy must be somewhat similar to my own on this point. I constantly, at the commencement of the winter session and during the month of October, find myself engaged in some such conversation as the following: "Mr. So-and-So, I don't see you dissecting." "No, sir, I am reading for my examination in materia medica" or "in chemistry," as the case may be. "How is that?" "Oh, I got ploughed iu July," or "I didn't think I knew enough to go in last summer."
Now the Conjoint Board is careful to fix the examinations in these subjects tomards the end of October, the result being that a certain number of first $y$ ear's students are irregular at lectures, and dissect little or not at all until November begins, thus handicapping themselves more than they are aware in their anatomical Fork. It is natural that students should wish to clear off their materia medica and chemistry before going on to ather subjects, and the Conjoint Board shonld see that this may be done without interference with other work. If it were compulsory that a student should pass in these subjects prior to registration, as Mr. Orren suggests, the difficulty would be most easily surmounted; but if this is impossible, then surely the examination might be held in the latter part of September, or at least early in October.
2. The subjects of materia medica and therapeutics may now be studied prior to registration and passed in immediately afterwards. Surely it is ridiculous that a student who is or may be totally ignorant of physiology and anatomy should be expected to know the pbysiologieal action of drugs, and that he should learu the theory of the administration of medicine before he has made any acquaintance with the diseases for which they are given. If materia medica is to be taught at all, one would think that it might form a primary subject, therapeuties being entirely relegated to the final examination, as is or was the rule in the University of Dublin when I was a student there.
3. I fully agree with Mr. Owey as to the absurdity of permitting students to pass in physiology and anatomy at different times. A man ought reasouably to be expected to know enough of both subjects at one given time to pass in them, or he is certainly not fit to become a medical practitiouer.
4. I also endorse every word which he says as to the recent regulations with regard to the honour cxaminations of the University of London. If the preseut scheme has beon devised solely for the purpose of lightening the labours of the examiners, there is nothing more to be said about it. Its devisers may at least, however, congratulate themselves on having discovered an infallible method for cutting down the number of students competing for honours to the minimum.

It has sometimes occurred to me that if the Deans and llonow rary Secretaries and others concerned in the management of medical schools had the opportunity of meeting anmually, matters sueh as these might be considered, and possibly a joint remonstrance or recommendation from such a meeting might have its effect upon the rulers of our licensing bodies.

This is perhaps too much to hope for, but 1 trust that Mr. Owen's admirable address' will not be allowed to pass without some expression of opinion from those directly interested in tcaching.-I am, ctc

Bertram C. A. Windie, M.A., M.D.,
Professor of Anatomy nnd IIonorary Secretary,
Queen's Collegn, Dirminghan.

# NAVAL AND MILITARY MEDICAL SERVICES. 

## RED CROSS ASSOCIATION゙.

Her Majesty the Empress of Germany has placed at the disposal of the International Conference of the Red Cross Association, which met at Carlsruhe in September last, a suin of 6,0,0 marks, as-well as three gold and niue silver medals bearing her efligy. The object of this generous gift is to offer the Conference an opportunity of introducing something calculated to promote the interests of the International Institution of the-Red Cross, and more especially, the relief of the wounded. The Conference has consequently decided on devoting Hér Majesty's gracious gift to a competition on the best interior arrangement for a portable lazaret (hospital), that is to say, the indication of the most suitable objects and the best means of procuring them, for arranging and working a portable lospital intended for a certain number of sick and wounded. Inquiries or parficulars as to taking part in the competition should be addressed to the "Comité Central des Sociétés Allemandes de la Croir-Ronge, Wilhelmistrasse 73, Berlin." All correspondence in reference to space in the exhibition should be addressed to the executire committee in Brussels, Rue du Palais 2 .

## VOLUNTEER MEDICAL ASSOCIATION.

We are asked to state that the inspection of the class now being held under the auspices of the Folunteer Ambnlance Department will take place on Saturday, February 18th, at 5 Psr, at the Guildhall, when the Lord Mayor and Sheriffs will attend in state. The members of the Association and their friends will dine together at the Holborn Restaurant at ? P.Mr. the samic erening, after the inspection. The Council will be glad to see any army or rolunteer medical officer either at the Guildhall or at the subsequent mess meeting, and such gentlemen are invited to, communicate with the Honorary Secretary, Mr. Alfred Lingard, at once.

## THE NAVY

THE following appointments have been made at the Admiralty : George S . Smith, Surgeon, to the Kingisher ; Johr S. Fegrety. M.D.. Surgeon, to the Reindect; Gramam E: Kevxidy, Surgeon, to the Orwell; H. W. Macmamara, Surgeon, to Malta Mespital ; Alexayder J. J. Johrstoy, Surgeon, to the Surprise ; JAMES M. Rogers, Surgeon, to the Duke of Thellington: Descar MILTSTOS, Depnty Inspector-General of Hospitals, to Bermuda Hospital \& R. $\mathbf{R}$
 SICCAMA, Deputy inspectorgeneral of Hospatals, to Chatham, Isle of Mas.

Staff-Sargeon Jambs Bootg died at Montrose on January 2lth. Me entereI as Surgeon Jume 1st, 1825; became Staff-Surgeon; Angust 15th, 1E3s; and retired in 1857.

## THE MEDICAL STAFE

Deputi Surgeor-Gengral W. M. Webb is promotad to be Surgeon-Genemal (ranking as Major-General), vice H. T. Reade, V.C., C.B., granted retired pay His previous commissions are dated: Assist:ant-Surgeong March 24th. 1251 Surgeon, Jauuary 15th, 1864; Surgeon-Major, Maroh 1st, 18:33; Brigade-Surgeon, Norember 27 th, 1879; and Deputy Surgeon-General. July bth, 1881. He served with the 19 th hegiment throughout the Crimean war in 1851-55, and was at the battles pf the A!ma and Balaelara and at the siege and fall of SebssHas at. He has the medal with three clasps and the Turkish medal.
Brigade-Surgeon F. W. WADE is nade Deputy Surgeon-General (ranking as Colonel), vice W. M. Webl. 11 e entered as Assistant-Surgeon, September 2 aith , 1857; became Surgeon, October 514, 1572; Surgeon-Miajor, March 1st, 18;3; and Brigade-Snrgeen, Felruary 1st, 18s3. He thas no war record.
Surgeon-Major' O. A. MivNskil, M.D., is promoted to be BrigadeSargeon (ranking as Lieutenant-Celonel) nice F.W. Wale. Brigade Surgeon Msunselt entered as Assistant-Surgeon, Octuber 1st. 1:62; becime Surgeon, March 13t, 1873; and Surgeen-Uajor, April 23th, 1896. He mis with tho Rogal Artillery 1uring the Rhootan campaign in 1864-63, and was at the eapt ure of Fort Buxar. the Bala Pass, the Tuzgaon Stoekade, and Fert Chamoorchee. (medal with elasp), He was alse engaged in the war in Eyypt in 18s2, and lias the medal elasp), He ras alse engaged in the war in mizy,
and the Egyptian bronze star for that canmaign.
Brigade-surgeon F. P. STaples is granted retirel pay. Mis' commissions are dated: Assistant-Surgeon. April 1st, 1561 ; Surgeon. March 1st; 1873; SurgeonMajer, April 1st, 18i6; and Brigade-Surgeou, September 20th, 1087. 11e served with the 1st Battaliou of the 19th Regiment in the Hazira canpaign is 18is, and took part iu the expedition against the tribes on the Black Mountaiu (medal with clasp).

THE INDIAN MEDICAL SBRVICR.
Deruty Surgeoz-Geveral 1h. Fi ILutchison, M.D., Behgal kstablishment has retired froms the serviee, which he entered as Assistant-Surgeon December 3rd, 1553, attaining to Deputy Surgeon-General Deceniber 9th, 1582, He was engaged in the Afghan war in I8:9, and has the vuedal therofor.
Surgeon $\boldsymbol{A}:$ R. EDrasms, Bengal Establishment, is appointed to the officiating medical charge of the 1st Sikh Infantry, vice Surgeon A. Sncock, who has been posted to Belaspore as Civil Surgeon.
Surgeon-Major C. W. OALTHRop, Bengal Fatablishment. Medical Officer 4th Native Cavalry, has leave of absence on modicul certificate for one year to the Kangra Valley and adjacent bills.

Surgen-Major A. H. C. Dane, Bomlayy Fistabllshment, in medleal charge of the Bhapul Dullalion, has deave to liurope for efghteen mobths on private attatre.

TII VOLIXTEERS.
Actixisidroeny J. M. Cavithoy, M.iB., lat Dumbarton, has reslgred his
 is appolnted Acting-Surgeon lu his atead.
is appornted Acting Surgeonl h. Joses is appolnted det stes-Surgeon to tho and Volunteer Ballalion wheli lieginuent (late the lat Glamorgan).

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## UNQUALIFIED MEDICAL ASSISTANTS.

A IbGGAL correspondent writes:-1 ease of very considerable interest to those practitioners who employ unqualified assistants has receutly been reported. The case is a most useful one, as showing and defining iu $n$ fairly distinct manner the duties which are within the scope of an unqunlified assistant, and those duties which should only be performed by a duly qualified medical man.

The action was ono brought by the trustee in bankruptey of Louis Fitzmaurice for fees for services rendered and medicines supplied by an unqualified assistant to the defendant. Fitzmaurice carried on business in Bury; and had a hranch business in a neighlouring village, which was conducted by Joseph Alphonso Fitzmaurice, who was unqualified. At the trial it was admitted that Louis fitzmaurice had not rendered any services personally to the defendant, and that Joseph Alphonso Fitzmaurice who had rendered the services had no qualilication at all. The judge of the Salford 1 undred Court on these facts, and relying on the thirty-second section of the Medical Act, 1858, non-suited the plaintiff, who appealed to the Dirisional Court, and it was contended on his behalf that the only effect of the Act was to incapacitate the nnqualified person from suing, the Act containing no provision rendering the employment of a qualified person compulsory, as in the Apothecaries Act (55 George 111, e. 101). These arguments, however, did not prevail with the Court, and Lord Coleridge, in his judgment, defined very reasonably the sphere that an unqualified assistant should occupy: It is not necessary that the services should be rendered personally by the qualified practitioner, if the really directs the attendances and prescribes the medicine. The unqualified person may he, under certain circumstances, "the hand employed and guided by the directing brain of the qualified person." In this case, however, the action was for services which the qualilied person did not render, and it was found at the trial that the qualified person rendered no services at all, either by directing the services of the unqualified assistant or in any other way.

Mr. Justice Denman said, in the course of the argument, that if the plaintiff was right, a medical man could send his butler to visit his patients and yet reenver his charges, and the contention of the plaintiff practically did amount to this.

Mr. Justice Denman's juigment was so clear and concise that the following extract may he useful:-"llere an action has been brought by a qualified medical practitioner for services rendered and medicines supplied, and he must make out he has rendered such services and supplied such medicines. This he dnes not do, but shows that another person lins done the work for him without consultation with him. Can it be urged that this is a compliance with the 32nd section of the Medical Practitioners' Act, 1858? lonoking at the provisions of that Aet, I do not think it is competent to a medical man to give a roving commission to another, and, in this instance, an ungualified person, to do work in his own name, and then sue the patient so nttendenl. To permit such n state of things to go on would le contrary to tho clenr intentions of the Act. Again, so far as this case is concerned, it would le a mockery and a misuse of the words 'master and servant' to hold them to be applicable undre the circumstanees detailed."

Iractitioners cannot, therefore, he too carcful not to leave cases in the hands of unqualified men, lut should carefully superintend and owersee everything entrusted to them to do: otherwise, and rightly so, not only will the fees bo irrecoverahle, but practitioners may lay themselves open to most serious claims for negligence.

## COUMBE v. HANSON AND BRODHURST.

Turs was an action to recover moneys, being the balance due for madical attendance, medicina, and hourd and lodging. Mr. Coumbe, A.R.C.S. practising at Twyford, was called on September 6th to Colonel brodhurst, who had been thrown from a carriage, and sus-
tained $n$ fructure of the thigh and otherinjuries. Being at the time on a visit to Sir R. Manson, who was going away in three weeks' time, Colonel lrodhurst asked in ho taken into Mr. Coumbe's house. Sir II. Ilanson told Mr. Coumbe that he would hold himself liahle for the expenses incurred. Colonel Brodhurst remained under treatment in Ar. Coumbe's house for eight weeks: his wife and a hospital nurse from Reading were also in the house. He was then removed to Brighton, Mr. Coumbe going with him, for which a charge of $£ 21$ was made. A fortnight liter Mr. Coumbe again went to Brighton, for which $a$ fee of fifteen guineas was charged. A sum of f89 was charged for medical cxpenses, and £l0 a week for hoard and lodging of Colonel and Mrs. Brodhurst and nurse. The plaintiff stated that he charged 10 s . Gl. a visitlle sent a bill for £2l0 to Sir R. JIanson, who tendered $£ 100$ in payment.
The jury found a rerdict for the plantiff for 555 heyond the £100 paid by Sir R. Hanson and the $\mathfrak{E}^{2} 5$ paid into court by Colonel Brodhurst.

Mr. Justice Stephen gave judgment for the daintiff, with costs.

## DISPENSARY*CHARGES

Dr. Jamps Ifateam, n phyelcian in practlee in Hodney Sireet, Liverpool sought in the Liverpaol Count Court, on Jnnnary 3ist, to recover the sum of fay for medical and surgical attendauce from a butcher named Dunbar. The defence was that Dr. Leatham's services were somght through his dispensary In Seacome Street, nnd that it was anticipated that the charges would be at the low rates obtaining there, namely, 2s. ©d. A visit, and the defendant had paid intocourt 5514 s . Ed. in settlement of the claim. Dr. Leatham stated that the defendant was informed that his charge was Los. Gd. for enchattendanee, and he made no demur.

The jury held that Dr. Leatham was called in as a dispensary medieal man. and gave a verdict only for the sum paid Into court, and awarded the defendant his costs.

## ETIQUETTE FOR NEWCOMER

lgsoramus asks, Which is the correct etiquette? Should the neweomer call on tho resident or the resident on the neweomer, or does one follow the rules of ordinary society?
**" If "Ignoramus" had been an observat reader of the Joursal, he could not well have failed to note that the question he sulmits has been repatedly auswered therein. At the same time we have pleasure in responding thereto by quoting from the Code of Medical Ethics, second edition, page 90, the following extract ; and, for further information on the subject, we would refer him to the Code itself :

The custom or ctiquette (iliverse from that pursued in ordinary social life in relation to new residents) expected from members of the profession on commencing or changing the locality of practice in town or country entails on each newcomer, voung or old, an obligation to call, with as littie delay as may be, upon every duly qualificd legitlmate nedical pmetitioner resident within a rensonable distance of his own selectell place of abode, and courteously announce his intention to practise in the locality."

## FTIQUETTE OF CLUB PRACTICE.

Fair lear asks for an anawer to the following: A. has for three months regularly attended a club patient who was suffering from a chronle disease; a brother of the patient culled in a local practitioner (B.). Who prescribed for the case, and contimned in attendance till death without informing A. A., however, saw the phtient once more, and informed him that he would not call again as B. was in nitendance. A. and I . have never met, and there has not been any communicalion between them. Has B.'s conduct been coatrary to medical etiquette?
** Assuming that F. was cognisant of the fact that A. was, and had been for some time past, in atteudance on the patient in question, his conduct, as related by "Fair Play." was contrary to medical etiquette, and shoukl, more(wer, have been strictly governed hy the following Jule 81, extracted from tho Code of Medical KYhics, second ditlon, page io, to whllelt we may refer our romesponlent: "When a practitioner is called In to or consulted by a patlent who has recently been, or stll may be, ander the care of another for the same Hharss, he shonld on monecount interfere in the case, except in an emerkeney; haviag provided for which lie should request a consultation with the gentleman in previous nttendance, and decline further direction of the case except in consultation with him," cte.

## UNQUALIFIKD ASSISTANTS: ANOTHEH DIFFICULTY.

B. writea: A. Hnd I3, are the only modical practitioners in a snall town, and linve been nceustomed to attend for euch olfur in case of nimence from lrome or cmergeory. A. Is also HI's anlistifuto as districh medical officer. Some months ago $A$. procured an assishant, and informed 13. Ju was a qualified toan. B. eonld find no unme corsexponding witli the nsaistant's in the IRgs
 Directory. On the first opborthity B. unentioued this to A., who mad the
asslant wan bot resiatored, but had a certaingualification. After exnmining then regnlations of the unfversity referred in, In, came to the concluston that, this could not be correct, and wrote to A. juoluthog this ont : nlag arying that molens the assiatant coulel sallufy him ho posscased a diploma. B. oljected to hls scelng patiunts for hlm. A. replies that lic cannot see what. Il. has to do with the qualifications of his assiafant, and na ll, ohjects to the nasiatant seeing his patients. $A$. clecelhes to met. as B.'s suhstitute. A. is the suolor of H.. nud thonglt $B$. is quite Indeprodent of $A_{1}$ and can find another substitute,
he las no desire to seck a quarrel. Both are members of the British Medical Assoclation. Shoulu A. have satisfied 13. that the assistant was legally qualitied, or had $\mathrm{l3}$. nothing to do with it as A . contends?
**" If the above statement correctly represents all the material facts of the case, it is, in our opinion, to be regretter, and especially under the circumstances of the reciprocal professional arrangement between the partics, that either should fail to recognise the expediency, to say the least, of mntusi frankness; if, therefere, it be that the assistant in question is not legally qualified, we strould in no wise (notwithstanding the convenience of such an arrangement as has hitherto existed vetween "A." and "B.") be indnced to dissnade "B." from severiag all connection with the nssistant; for it is desirable that the "assistant" should be a duly qualified practitioner to enable hla principal to recover his prefcasional charges in case the account for his attendance be dispnted. "A." should, therefore, in onr opiaion, "have satisfied 'B.' that the assistant was legally"qualified."

## MEDICO-CHIRURGICAL TARIFFS.

M.D.Durimam.-In response to "M.D.'s" query as to whether "aay small book exists containing information on medical tarifis," we are informer on inguiry that the corrected proof sheets of the fourth edition (revised and enlarged) of the Bedica Chirurgical Tariffs, issned by the Council of the late Shropshire Ethical Branch, are now in the hands of the printer, and will shortly be published; and, moreover, that he will find thereln all the information necessary to guide him in making his professional charges. The Manchester MedicoEthical Association has also published a tariff of medical lees..

## COVFRING UNQUALIFIED PRAOTICE.

BagNal writer: A maa who tires abont a mile from here, and whe is in practice duly qualified, has taken a house here and put in an unqualffied man, who practises under his name. On the door of this unqualified man appears the plate of his "cever," Ir. Q. S., M.D., so that strangers imagine when they consult him they are haring ailvice from a doly qualified practitioner. Cananything be done to stop this disreputable conduct?
*** If proof were furnished to the Soclety' of Apothecaries of the unqualified man bimself prescribing for or fisiting patients. "the Society would at once institute a prosecntion against him. There is necessarily, however, great and obvious difficnlty in obtaining convictions where a qualified medical man "covers" an unqualified one, conduct justly described by "Bagnal" as "dis'reputable."
A. W. (Liverpool).-If the soliciter's opinion which has been had on the ease is not sufficiently authoritative, the proper course is to take counsel's opiniea. The case is not ono which we cau take upon ourselves to decide.

## "CHANGING THE DOCTOR."

A. N. G. Writes : 1. Mrs. A., the mother of two children, the younger aged aix months, who has been attended hitherto by Dr. B., a leading acconcheur, but who also takes family practice (he was last in attendance about twe montbs previonsly), requests Mr. C., a junior practitioner living near, to call and see her child. Mr. C. does ao, and is told by Mrs. A. that she does not like Dr. B., that his fees are high, and she would like to leave him. Mr. C. prescribes and says he will call again two days later to see the child. On that day Mr. C. receives a note from Mrs. A. saying the child is much better, but she would like Mr. C. to call to see her and give her a tonic. What should Mr. C.'s course be? Should he bimply attend as requested, or must he first re quire Mrs. A. to write to her late medical man and tell hlm that she has called in Mr. C. ?
2. Also what is the etiqnette to be obserred when a patient wishes to change the family medical man, supposing the late medical man not to have feen in attendance for some time, and a fresh illness to hreak out in the family?
** In reply to our correspondent's first question, there"can, in our opinion, tee no doubt that, under the circumstances related, it is not necessary for Mrs. A. to write to her llate medical attendant (B.), and inform him that she has called in Mr. C., inasmuch as such a notification is only required (from a professional point of view) when a family, for some renson or other, are desirons to aupersede the practitioner in actual attend ance on a case. When, however, snch attendance has terminated, consequent on the recovery or death of the patient, or in tine event of a new case of $11 i_{i}^{-}$ ness, the family would, in either event, be jnstified in changing thelr medica. adviser should such be their wish. The preceding remarks are also applic able as a reply to ont corresprodent's second question.

## PARTNERS' SHARES OF SPECI.UL FEES.

A. and B. are partners ; one of the partaers receives it large fee for attendance during several days at an important case at the lieral Conrts of Justlce for glving cvidence at the trial, and for services coanected therewith. Is there any rule which enables you to say whether anch a fee is to be considered a part nership asset or not? Or, to, enable you to deoide the point, must. the facts of the case be mere filly itated to you? The partners have agreed to refer the matter to yon, and to accept your decision.
for the time and trouble devoted to atte paid te them personally as a selatiom for the time and trouble devoted to attending the case and giving evidence Whether the partner of the witness is entitled to s share of fees so paid de. pends on the partneiship agreement. If "all fees received" are to be shared, sheh fecs wonld wo incluided, but ofherwise they wonld belong to the part ner who at tended as a witness. If this answer does not aolve the "difliculty a
cops of the material part of the partnership agrecmeat should be sent.

## PUBLIC HEALTH <br> AND

## POOR-LAW MEDICAL SERVICES.

Health of Enolisi Towss. - In the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons, 6,106 births and 4,056 deatha were registered during the week ending Saturday, January 28th. The annual rate of mortality per 1,000 persona living in these towns, which had declined from 23.8 to 23.0 in the three preceding weeks, further fell during the week under notice ta 22.5 . The rates in the several towns ranged from 14.3 in Brighton, 15.2 in Derby, and 15.9 in Bradford, to 29.0 in Norwich, 29.4 in Blackburn, 31.3 in Wolverhampton, and 31.9 in Manchester. In the twenty-seven provincial towns the mean death-rate was 22.8 per 1,000 , and exceeded by 0.7 the rate recorded in London, which was 22.1 per 1,000 . The 4,056 deaths registered during the week under notice in the twenty-eight towns included 214 which were referred to whooping-cough, 61 to scarlet fever, 47 to measles, 46 to diphtheria, 39 to fever (principally enterie), 39 to $\varepsilon$ mall-pox, and 32 to diarrhcea; in all, 478 deaths resulted from these prineipal zymotic diseases, against 476 and 481 in the two preceding weeks. These 478 deaths were equal to an annual rate of 2.7 per 1,000; in London the zymotic death-rate was 3.3, while in the twenty-seven prorincial towns it averaged only 2.2 per 1,000 , and ranged from 0.0 and 0.5 in Mull and Cardiff, to 3.7 in Bolton, 3.8 in Tottiogham, and 6.6 in Sheffield. Measles caused the highest proportional fatality in Blackburn; scarlet ferer in Norwich and Blackburn; whooping-cough in Birkenhead, London, Derby, and Wolverhampton; and "fever" in Brighton and Nattingham. Of the 46 deaths from diphtheria recorded during the week under notice in the twenty-eight towns, 29 occurred in London, 3 in Manchester, and 3 in Oldham. The 39 fatal cases of small-pox included 37 in Sheffeld, I in Bristol, and I in Leeds, but not one in London or in any of the twenty-four other large provincial towns. The number of small-pox patients in the Metropolitan Asylums Hospitals was 9 on Saturday, January 2sth, of whom 5 had been admitted during the week. These hospitals also contained 1,641 scarlet fever patients on the same date, against numbers steadily declining from 2,602 to 1,729 in the eight prececing weeks; there were 135 admissions during the week. The death-rate from diseases of the respiratory organs in London was equal to 6.5 per 1,000 , and was slightly below the arerage.

Health of Scotch Towns.-During the week ending Saturday, January 28th, 830 births and $567^{\circ}$ deaths were registered in the eight principal Scotch towns. The annual rate of mortality in these towns, which had declined in the three preceding weeks from 27.1 to 23,3 per 1,000, further fell to 22.4 during the week under notice, and almost corresponded with the mean rate during the week in the twenty-eight large English towns. Among these Scatch towns, the lowest rates were recorded in Greenock and Leith, and the highest in Aberdeen and Perth. The 567 deaths in these towns during the week under notice included 65 which were referred to the principal zymotic diseases, equal to an annual rate of 2.6 per 1,000, which was slightly below the mean zrmotic deathrate during the week under notice in the large English towns. The highest zymotic rates were recorded in Aberdeen, Dundee, and Edinburgh. The highest proportional fatality of measles occurred in Edinburgh; from scarlet ferer in Dundee; and from whoopingcough in Aberdeen, Greenock, and Glasgow. Four deatlis resulted from diphtheria in Glasgow, and 3 in Aberdecn, The mortality from diseases of the, respiratory organs in these Scatch towns during the week under notice was equal to 6.0 per 1,000 , against 6.5 in London.

IIealifu of Irisir Towns.-In the sixteen priucipal town districts of Ireland, the 517 deaths registered during the week ending Saturday, January 2 Sth, were equal to an annual rate of 30.9 per 1,000. The lowest rates trere recorded in Sligo and Dundalk, and the highest in Kilkemy and Cork. The death-rate from the principal zymotic diseases in these towns areraged 5.2 per 1,000 , and was highest in Kilkenny, Cork, aud Ncwry. M, Eles showed fatal proralence in Cork and Newry. The 234 deaths registered in Dublin during the week under notice were equal to a rate of 33.1 per 1,000 (against 35.8 arrol 31.1 in the
two precetling weeks), the rate for the same period being only 2n. 1 in Lomlon, and asta in protioburgh- The deaths included 33 from the principal zymotic aliseakes (eqhal tol an- annual rate of 4.9 per $1,(000)$, of which 10 resulted from scarlet fever, 8 from
 rhen, anil 2 from measles.

## USFFCLNESS OF MY-LATS AS TO NEW BUILDINGS, FTC.

 OTh mirespmodent, "L.IR.C.P.E.Emton." has nntloubtedly given hifa manitary nutherity sound adtoo in reemmentigg them to miopt a proper code of tryawis for thetr diutrict. Thic provislons of the Public Meath Act aro very comperlinalve, but in enme respents are permissive nal not compulsory. Thus, under Section 157, "every urtha aothority may make by-laws" with respect to the construct ion of new strects and bullitngs, " "o the drainage of Duikungs, to water-lonets, enuth-iosets, privics, ashpits, innt cesspools in connertion with bolldiges, hnd to the closling of thilldings, or parta of bulldinge, unfit for human habitation, and to prohlbltion of thele uso for auoh bablitation "" and under Section 44 they may make by-laws as to the eleansing af foptways and pavemeate, the removal of liouse refuse, the cleansing of eartb-olcsets, prlyiel, ashpila, and cesapools, and for tho presention of puiennces arising from snow, filth, etc. Unless, therefore, the sanitary ant hority eserciac these permissive powors, and supplemeat the provisious of the Act by adopting by-laws applicable to the particular circumstances of theif district, theis gand ary powers remain mo far defective. As a matter of fact the adoption, and enforcemeat under penalty. of adequate but reasonable byolaws, based on the modele issued by the Local Government Board. is able by"aws, basen on the mays of securiog wholesome conditions, especially in krowing locallties.A1 regard water supply. the Publio Health Act. 1805, gives sanitary authorities power to provide propersupplies; but where a pullio supply is not providel and surface wells are depeoded upon, by-laws prescribing the minimum distance to be allowed between rees cesspools, ashpits, etc., and sources of witces supply are imperatively necessary, it should asso be remembered thint although the Public Ifealth (Water) Act. 1879, concerns rimarily , riral sonitary authoritics, Section 11 provides that "the Local Government Bnard may, if they think fit, ty order Invest any urban sanitary autbority with all or any of the powers and duties which are by this Act given for rural annilary anthority, and such inrestment may be mado Act gitcondrentitionaly, or subject to any conditions to be specified by the Hoard as to the Ime, portlon of the district, or manuer during, at, or in which lioard as to che time, portlon of ned duties are to be exorcised;" bot we believe this course has not offen been taken.
Aa regarde the powera of aspitary officials to enter private premises, zueh powers are givon by Section 102 of the Public Health det, but are severely circumserited.
APROINTMENT OF INSPECTORS OF THE LOCAL GOVERNMENT Mencts. - The medical inspectors of the Local Gorernment Board are ap'potnted by the. President of the Board. The nalary begias at esoo, and, of courfn, each has before him the prospeot of becoming medical officer to the Board. Thery in the usual peasion on rotirement from office.

SMALI-POX AT SUEFFIELD.
Dr. L. J. Ilobsor (Harrogate) writes: In the interestiag note upon Sheffield and jea opldemic in the Journar, of January 21 st appear some rather malsfoming deductions as to proportionate mortality in vaccinated and unvacelnated cases at all ages. it la first.stated that of the 2,193 cases of amall-pox in the vaccinated and of the 382 in the unraccinsted, the deaths are 157 in the former and of in the latter. This should make the mortality in the vaccinated at about 1 in 14 instead of " 1 in 22 ." and in the unraccinated at aboul I In 4 instend of " 2 io'every 5." Norcover, the chances of survival of the vacinated over the unvaclonted in case of small-pox wonld then be deduced at three and a half timen instead of "ton times greater.
The flgures 157 and 97 would scem to have been transposed in making the The dgures 15 , and 97 wouldseem to have been tansposed incts should reerroneous calculatons, bint, with "antlvaceinatlonlsts."

- Dr. llobson la errrect in his cilticisms. Our correspondent gives firat figurea taken from the report ni the medical officer of health-namely, 2,198 vaccinated with 157 deaths; 8.53 unvacoloated with 97 deaths. Later be quotes from tha Shefreld Daily Telegraph, which transponses the figures tluas: 2,189 vaccinated with 97 deaths; 282 unvaccinated with 157 deaths.

EANTTARY REGISTRATION OF BUILDINGS BHLL, A pondic conference will take place at the Society of Arts on Saturday, Fchruary 4th, at $40^{\circ} \mathrm{clock}$, when an introductory address will be given hy Sir Joseph Fayrer, K.C.S.I., F.R.S. Short papers, will be read by Mr. Mark M. Judge, A.R.I.B.A., and Sir Vincent If. Kennett Barrington, who will propose and second the following resolution:-
A. That it is desiralite that the lnw should forbld any buifding heing used for pablic or semil-public purpmena, malfanand unth the arragernents for the Truce supply, dralazge, and walliation of shoh building hnve beea certified as ealisfactory ty come properly qualined perso, and that the providou of. a pablic ennitary register for the veluotary registration of privato houics would be inat numental to promoting annitary linprovement.
B. That in the opialon of this Conferencos, the Sanftary Remistration of falldings 13II, 1888 will, is paseed into law, have a graat indueace for gond on tbe bealth of the community, and, Flthnoi plectging Stself to all the detaila of the measure, this Conferener anthoriecs the Chalronat to slgn pettiona, asking Parlisment to pas the Bill into law. with ruch modifcations an confideration in Committe may abow to be dealrable.

MBDICAL OFFICFR OF HEALTH FOIR ABERDELEN.
Dro J. Wiont writes: This nflice in vacant juat now liy the removal to Shemield of Dr. Thomzon. Drring the pats six or seven yeura the medical officer of bealth has had to desote his whole time to the duties or the puthe has been diablowed private gractico. The present chairnan of the Phblic Ifealth Comanitteo-a tuedical mant-lias, It is said, proposed a seheme by which a small salary would be given to a regularly quallied practitioner, but allowed smalisalary wourdice, or to get a young man to attead the "City 1 ospiltul," totahe private practice, orth getas a zort of consultant, one of the medical for minectlous discases norit, anthe the anitary inspector when he had any diffmen of the citylo conanitwallou obtalns here.
As Chairman of the Parliamectary Commitice of our Branch here. 1 brought his tuat er before my Committee. Did I do right Is it compctent for mo to do so? As some objected I ngreed to hring it before the Branch st its frat meeting, but this does not take plare until the middic of February. In the meantime the battle nay bic fought and won. A ropresantation from us as a Conumittce might have in Branch mectivg will take place only two or three days before the Town Council meet to decide the maiter. Kindly say if I did ribht, and jexpress your opinion on the whole sit ustion.
** Certainly every effort should be made to prevent the Town Council of Aberdeen from adoptiog a conrse so projudicial to the health interesta of the town.

## INDIA AND THE COLONIES,

Jealti of Troops in China and Straits Settlements The Army 3edical Department Report for 1885 states that the troops serving in China and the Siraits Settlements consisted of European and Asiatic troops. The average strength of the white missions from the year under notice was 2,188 . The hospital admissions from this force were 2,454 in number, the deaths 25 , and per 1.000 of strength were, conseqivently, hospital. The ratios 1121.6; mortality, 11.43; and for constautly sick, 42.95 . The ratio of admissions into hospital was much higher in the Straits Settleraents than at Hong Kong, but that of mortality was considerably less. The arcrage strength of the troops quartered at Hong Kong was 1,114 , the number of admissions into hospital 987 , and the total arerage strength of 1,074 , the ne straits settlements, out of an Was 1,467 , but the tatal number of deaths only 7 . This difference in the proportions of mortality in the two divisions of the command is explained by the eccurrence of an outbrenk of cholera at 'llong Kong, while no cases occurred inmong the troops in the Straits Settlements, The epidemic of cholera at Hong Kong took place in June; it was fortunately of a limited character; altogether only 19 cases were admitted, but of these 12 , or 63 per cent., proved fatal. It is stated that cholera was known to be prevalenr in Tonquin, Annam, and the Philippine Islands for some time priot to isease mearance among tho troops at Houg Kong. As soon as the placed under canvas at Kowloon, on the opposite side of the were bour, and were subsequently moved to Stanley, on the othe harof the islaud. It was here the last case of the outbreak occurred. this case recorercd. It is remarked in the report that "withmost of the conditions necessary for the development of the disease present, it nerertheless did not get a firm hold on either the civil or military population, and it is presumed that there was some conthe wanting either in the atmosphere, soil, or climate that gare quarter of the townity from a severe epidemic. In the Chinese condition necessary to favour the spread of the disease, yet the number of cases reported were comparatirely few." levers of rarious types appear to hare been prevalent at Hong Kong, and especially at Tanglin in the Straits Settlements. Fnteric ferer cansed 4 admissions and 1 death. Three cases of typhus fever, 1 with a fatal result, are reported to hare occurred at Tanglin. Other continued fevers returncd 419 admissions, aud of these 322 were shown in the returns from Tanglin alone; they were attributed chiefly to climatic causes, heat and exposure. Under paroxysmal fevers there werc 343 admissions with I death; of these 301 were ngue and 48 remittent fever, many of the latter being defcribed as the ague, 156 cascs, and of the remittent ferer, 34 cases, occurred at llong hong. It was supposed that the malarial emanations from the rather disintegrated granite of which the soil in llong Kong is composed, some of which had been freshly upturned, had a share that, in cases of dehility conequs. It is remarked in the report tarium was found beneficial; but when malarial caclaexia was established, a complete change of climate was nccessary to restore
health. The average gtrength of the officers .was 91 , and among them were 2 deaths; one of the deaths resulted from hepatic abscess, the other from hydrophobia; in the latter case the officer had been bitten hy a rabial dog some months previously at Tanglin, bnt so slightly, the injury being only a scratch, that lie diel not think it necessary to have it cauterised. Among an average strength of 75 women, there were 67 attacks of illness and 1 death, and among 134 children the number of cases of illness treated was 53 and there were 10 deaths. The Asiatic troops in the command, consisting of the headquarters and two companies of Gun Lascars, Fere 188 in average strength; among them were 208 admissions into hospital and 8 deaths. The principal cause of sickness among them सaa malarial fever. Various sanitary defects in the command are referred to in the report, but appear to be in progress of amelioration.

## OBITUARY.

## PROFESSOR ASA GRAY, M.D.

By the death of Professor Asa Gray, which occurred on Monday last at Cambridge, Massachusetts, from paralysis, America has been deprived of its greatest botanist, and the world of science mourns the loss of one of its most eminent teachers. Born at Paris, in the State of New York, in 1810, he graduated M.D. at Fairfield Medical College at the age of 2I. His intense love for botany, however, soon decided bis future career. In 1834 he was offered the position of botanist on the United States Exploring Expedition under Captain Wilkes. Though he declined this appointment, heafterwards worked out the botany of the expedition on its return, and the results were published in 1854. In 1842 he was elected Fisher Professor of Natural History at Harvard College, a position he held until 1878. He twice visited Europe-first in 1838-9, and again in 1850-51. He spent many months at a time in England, where he made many friends. He was one of the earliest to give a somewhat qualified support to Darwinism, and stoutly defended it against great opposition in his own country. He was one of Darwin's most constant and esteemed correspondents. He was in 1874 chosen a Regent of the Smitbsonian Institute, and in 1878 mas elected by the Académie de Sciences of Paris a Corresponding Member in the Section of, Botany. Dr. Gray tras a prolific writer, and in the Royal Society's List the titles of his contributions to science occcupy something like seven columns. Among his best known works are his Elements of Botany, published in 1836, suhsequently enlarged into the Botanical Textbook: Structural and Systematic Botany; Manual of Botany; and other textbooks. In $183 S$ he began, with Dr. Torrey, The Flora of North America: and in 1884 he published the Synoptical Flora of North America.

## DR. JOHN THOMAS IRVINE BOSTELL

The eminent botanist', Dr. J. T. I. 'Boswell, died on January 31st, at Balmullo, Fifeshire. Dr. Boswell tas for many years Curator to the Botanical Societr in London, and was a lecturer at the Charing Cross and Middlesex Schools of Mredicine. Ilis largest rork was 'the rewriting of Sowerby's Botany, consisting of trenty rolumes, a task upon which be was engaged for twenty rears. Dr. Boswell's family has been located at Balmullo in one successive line since the reigrt of David 11, and his mother was the daughter of Lord Balmullo, one of the Lords of Scssion. He leares a widow and sereral children.

## UNIVERSITY INTELLIGENCE.

## UNIVERSITY OF CAMBRIDGE.

Dr. Humpuny, Professor of Surgery, bas heen nominated an Examiner for the Winchester Reading Prizes in IS59. Lord Rayleigh has been nominated a member of the Board of Electors to the Jacksonian I'rofessorship of Natural Philosophy.
On Thursday, January 26th, F, C. Servaes, M.A., King's College, was admitted to the degrees of M.B. and B.C.

Proposied Smallepox Hospital for Derrf.-The corporation have agreed to pay half the cost of a hospital for small-pox cases.

## MEDICAL NEWS.

Royal College of Pifysigians of London.-The following candidates for the College Licence, having conformed to the bylaws and regulations, and passed, the requircd examinations, were granted the Licence to Practise in Physic:

| Name. <br> Medical School. <br> Anderson, G. R. <br> ...St. Thomas's | Name. <br> Merlical School. <br> Lakeman, T. <br> ...St. Bartholomew's |
| :---: | :---: |
| *Andrews, I. W. ...St. Bartholomew's | *Langle5, R.J. ...St. Thornas's |
| Ashley, 8. D. ...London | *Layng, II. ... ...Westminster |
| Benson, A. H. ...Bristol | Lissaman, T.... ...St. Bartbolomew's |
| *Bowman, R. O. ...Manchester | \#Lucas, A. ... ...St.Bsrtholomew'e |
| *Bray, G. A. T. ...King's College | Maberley, J. ... ... Middleses |
| *Bromhead, F. H. ...Londor | Msisey, C. T. B. $\quad \therefore \mathrm{Guy}$ 's |
| Brooks, I. P. .... King's College | *Marriott, H. B. ...Gny's |
| *Brown, W. G. S. ...St. Bartholomew's | *Miller, A. D. ...Birmingham |
| Browne, R. H. J. ...Guy's | *Mothersole, Ei D...Guy's |
| BnenodeMesquits,S.Guy's | *Mould, G. T. ...Sl. George's |
| * Oalder, F. ... ... Bristol | Naumann, 'J. C. F....Charing Croes |
| * Oarter, W. J. B. ...St. George's | Ogilvie, F. M. $\quad \therefore . \mathrm{St}$. George'g |
| Castle, B. .a. . . St. Bariholomew'8 | Grd, W. T. ... ...St. Msry's and |
| *Cautley, E.... ...St. Bartholomew's |  |
| Caven, W. P. ...Toronto | Qvens, T. ... - ...Toronto |
| *Clark, C. M. ...St. George's | Pedler, W. F. ...St. Bartholomew's |
| Clarke, G. S.... ...St. George's | Pettingill, A. E. A....St. Bartholomet's |
| Cleveland, H. F. ...UniversityCollege | Phillips, J. Ṅ. ...Guy's |
| Cockerill, J. W. ...St. Bartholomew's | *Randall, F. B, ...UniversityCollege |
| *Collier, H. S. : ...Sti. Mary's | Raywoed, J. R.I. '...Guy's a 1 |
| *Cotton, W. M. ...UniversityCollege | Rees, J.. ... ... Middlesex |
| Cox, O. A. S. B. ...St. Thomas's | *Rees, J. L. ... ...London |
| Cree, J. D. ... ...Middlesex | Reeves, J. K. n.Guya |
| *Da Costa, F. X. ... Bombay | Roberts, A. C. ...Guy's |
| *Daniell, E, P.. ...UnizersityCollege | *Robinson, T. © ...St. Bartholomen's |
| * Darroll, W. B. '...London | Rossill, J.C... , ...St. Mary's. |
| *Davey, W. H.H.C....Charing Cross | *Salisbary, C. R. ....Leeds |
| *Devis, H. F. ...Bristol | *Sapp, J. G. V. 21...Charing Cnoss |
| Draper, J. TV. ...UniversityCollege | Scadding. H. C. ...Toronto |
| Drew, H. V. ...UniversityCollege | *Scott, A. ... ...Guy's |
| Drew, H. W.... ...Guy's | Scott, H. J. H. ...Melbourne and |
| Duckett, C. A. ...UniversityCollege. | i King's College. |
| Durrant, T. A. ...St. Thomas's | Seagrove, II. A ; .r. UniversityCollege |
| Ficcles, C, H.... ...St. Thomas's | Shaw, W. R.... ...Toronto |
| * Edwards, C. S. ...St. Bartholomew's | *Shipton, H.... ...Klng's College |
| * Elphick, H. W. ...UniversityCollege | *Smeeton, C. W. ...Leeds' |
| Ferraby, G. A. ...Birmingham | Somerset, F.um ...King's College |
| *Forster, J. E. ...Westminster | Spencer, H. A. ...St. Thomas's and |
| *Francis, T. W. ...St. Bartholomew's | - ei Bristol |
| Freeman, C. D. ...Charing Cross | *Spink, C. P. * .「Leeds |
| Gedge, A. J.... ...London | *Starling, E. H. ...Guy's |
| Gough. H. E. ...Manchester | *Streatfield, P. W. ...Gav's |
| Graham, W, A.S.J...St. Mary's | *Symonds, IX. ...St. Barlholomew's |
| *Grenfell, W. T. ...London | Thomas, T. N. ...London. |
| *Guiselin, F.W. ...St. Mary's | "Thompson, I. ...Guy's |
| *Hardj, W. E. ...St. Bartholomew'a | *Tyacke, $\mathrm{N}, .$. |
| *Heaton, G.... ...St. Bartholomew's | Tyrrell, A. F. ....Middlesex |
| Heffernan, H. II. ...St. Thomas's | Wadham. F.J. *..St. George's |
| *Holland, C. T. ...Universit jCollege | Walker, J. II. ...UnirersityCollege |
| Holt, A. K . ... ...St. Bartholomew's | *Wayte, J. ... ...St. George's |
| "House, F. M.. - ...St. Thomas's . | *Weekes, C. J. ... UniversityCollege |
| Jeeves, F. ... . . Oharing Cross | Weatherly, A. J. ...Oxford, Middle- |
| *Jermaine-Lulham | sex and Bristol. |
| F.S. ... .I ...St. Bartholomew's | White, F.J... montreal |
| Jones, R. $\quad$. $\quad$...St. Bart bolomew's | *Wise, H. W. ...Edinbargh |
| Ђershaw, E. E. . ...Middlesex | Woodyatt, J. F. ...Mathehester |
| Kirkhouse, G. ...St. Bartholomew's | Wryat, W. L. ...Middlesex |

* Approved by the Fxamining Board,

Royal Colleges of Phisicians and Surgeons, Edinblrgh, and Faculty of Phisicians and Sumgeons, Glasgot,- The Quarterly Examinations in Edinburgh for the Triple Qualification took place in January, with the following results:

First Examination. Of the 58 candidates, the following 37 passed
P. F. G'Hagan, Longford; G. S. Pope, Madras: G. T. Tuke, Elinburgh ; A. H. Barstow, Spofforth; J. F. Hoden, Edinburgh: G. A. Ings, Canada; E. V. Eameg, Donegal; T. J. Tonkin, London: T. S. Allan, Glaskon; J.
Stevenson, Dnndee; W. H. Walker, Ripon; F. J. Fiavin, Donaster; J. Stevenson, Dondee; W. H. Walker, Ripon; F.J. Flarin, Doncaster; J. Connty Derry ; H. Stedman, London; H. Shaw. Enniscorthy; H. A. Holmes Manchester; P. R. Crofton, Ireland; C. J. A. Coates, County Cork; W. Yeates, County Down: R. S. Jaques, Scarborough: A. R. Douglas, Newcastleon-Tyue; D. C. Caruduff, Berhampore; R. Milling, County Down; G. G. Sinclair, Mamilton; W. W. Margenout. Cerlon; G. Maingot, Trinidad; R. Love. County Antrim: A. Burns. Chatham; Miss Beatrice Mary Harrison. Brighton: C. E. Dodd, Cheshire: F. C. Rogers. Cheshire; N. J. Newhold. Cambridge; J. H. Hart, Yorkshire; A. M. Dubonrg, London ; snd C. F. G. Baternau, Nonvich.

Second Examination. Of 63 candidates, the following 34 passed:
J. Round, Dudley: J. P. MeLaren, Glasgow: F. Aldons, Norfolk; C. J. Millgan. Belfast; T. S. Hogrg. County Derry: S. W. Wolfe, Connty Cork: C. L. Strangman, Waterford; C. R. Doadd, Minshnl Vernon; N. If. Newbould, Cambridgo: F. C. liogers, Cheshire: W. C. Laneaster. Dublin: E. Treherne, Glamorganshire: 13. W. Morrow, County Dowu; J. B. Grifiths, Stroud; J. H. Carson, County Down; W. W.

Margenoub, Ceylous: fi. 1. Caroll, County Cork: J. L. Smith, County Linofleh: T. S. MinMnhon, Lnngiont: T. B. Brooke, Cambrhigeshira J. Mackenze, Suthorlatut: II. K. Wright, oldhan: J. Stobo, Juthwelt; J. C. Thompson, Yorkshire: J. Qulgley, handemderry: J. O'Sullivnn, Dublin: A. lamage, Kitmardeck: A. M. Ford, blusgow: T. F. Southam Chestare: R. J. Stirling. teobles; J. Haher, Wateriord; W. S. CrawGont. County Down : J. B. Merenlith, Queon's County ; and A. II. Duhourg Loncton.
Final Fxamination. Of Sb candilates, the following 40 prssed, and wero admitted L.R.C.I.E.., L.R.C.S.E., and L. F.I'. nnd S. G.:
A. A. Jervis-Pereira, Intha; J. Iluy, Ashhy-ltha-Zoueh; Miss Mary Crawlego

Northampton : S. Fvana, Malras; W'. A. Gibsan, Dublin: 13. L. Caunter, Cornwall: A. J. Ryan, County Limerick: M. J. O'Connelh, Cork; k. J. Courtenay. Sheerness; 1i. Broohs, Mhackbarn; W. J. France, Shrewshury
 1. II. Loyde. Aberystwirh: J. C. latour, Melbourne: T S Xoer
 County Derry: J. Stodilart, Dumfries-shire: J. C. MacDiarmil, Argge hire: F. M. Spencer, Tavistock: J. Cotter, Oork; J. MeDowell, Newry; M. MeLaughlin, County Dunegal: J. C. Leyngbergh, Ceylan; M. Is Lelcester. London: R. K. Mitter. India; A. W. Douglas, Aldershot; M. T. Casey, Cunnty Limorick; A. S. Taylor, Walkeron-TYne; 13. J, E. Wright, London; J. C. Freach, County Durham: G. R. Rawlinson, Oxford: J. T. Keanedy, Kerry; C. Doherty, County Donegal J. P. Ferkuson, Ireland: W. K. Lockisead, New South Wales: J. W. Kelly Oncenatown: C. Becaley, Southsea: 'T. Ireland, Germany: and G. F. Ililliard, Ireland.

Rofar Coifegr of Sungeons, Eminmorah--During the January sittings of the Examiners, the following gentleman passed the Final Examination, and was admitted L.R.C.S.E.:
iv. G. Sym, Bunburgh.

For the licence in Dental Surgery, the following gentloman passed the First Professional Lxamination:
A. Turner. Aylesbury.

Arhe following gentlemen passed the Final Examination and were admitted L.D.S.Edin.
E. A. White, Stoke Iloly Cross, Norwich ; and J. Turner, Edinburgh.

Society of Apothecaries of London. - The following gentlemen having passed the Qualifying Examination in Jedicine, Surgery, and Hidwifery have received certifieates entitling them to practise in the same, and have been admitted as hicentintes of the Society.

Mampicyldo, James, Malabar House, Bexley, Kent.
Blackiuck. Jobn, Kast Bauk, Haslingden.
Bryden Francis Him . Augustus, Beech Honse, Uffeulme, Devon.
Garvey, Menry Patrick, 11, Thorne Terrace, Barnes, Surrey.
Garvey, Menry Patrick, Ihack, George, Leathley Lodge, 1unslet, Leeds.
Handcock, George, Leathley Lodge, Munslet, Le
Killick, Cbarles Jlowe, 33, London Road, Dever,
Modiln, lsaac Qibson, 5 , Featherstone Street, Roker, Sunderland.
The following gentlemen passed the Surgical portion of the examination.
C. H. Adams, of St. Thomas's 1lospital; W. S. Brown, of Guy's Hospital: W. Marris, of the Mlkhlesex Hospital: T. W. Mead, of St. George's Hospital: C. F. Stovin. of the London Hospital ${ }^{\text {W Whe Wins, of St. }}$ Hartholomew's ilospital; J. Westwood, of Qucen's College, Birmlagham : T. C. Whan, of the London liespital.

The following gentlemen passed the Nedical portion of the examination.
W. Metralfe, of St. George's Iospital : 1I. C. Sugden, of Edinburgh Unlveralty.
The following gentleman passed the Primary Examination.
F. S. Snell, of Unlversity College.

The following passed the first part of the Primary Examination. P. B. Baly, ni Queen's College, Hirmingham: C. A. Threalgale.

The following passed the second part of the Primary Examination.
A. C, Baca, of St. Hartholomewin Ilospital ; F. O. Curtis of Aberdeen University ; W, M. Keal, of St. Martholome iv's Ilospital, W. O. Lattey. nf St. George's ifonpital; F, II, Lazanlry, of Unisersity College; II. B. T. Symons, of the Cbaritag Cross Itospital.

## MEDICAL VACANCIES.

The followidg V'acancies are announced:
BIMMIXGHAM HOROUQIL ASYLUM.-Cilnical Asslstant. Application to F. H. Whitcombe, linq.

DOIRNI:MOITII FIRENDIT゙ SOCIFTIES MBDICAL ASSOCIATION.Ikmident Movical Offrer. Salary, £aw) per abmum, with realdence and fees Applleations to Mr. F. A. K . IIounseth, Trinity Chambers, Bournemouth.
BHESTOL ROY.LL INELIMARY.-Denta! Surgeon. Applleations by Fcbruary 19th to the Siecretary.
CANCEIt HOSLITAL. Brompton.-Patholngiat. Monorarlum of $\mathcal{C} 80$ for twelvomonths. Appilcations by E'ebruary 2lat to the Secrotary.
FOBEST 1 HLL JHOVIILAT DISPENSAIK.-Medmen Offirer. Applications IVV Felorenry 15th to F.J. Marrint, lisg., 2, Perry Villas, l'erry Vale. E'orest Iliti, S.F.
MENSTON ASYLIOM, near Leeds.-Merlical Superintendent. Salary, clmo per anturn, whis Doaril anil reshlemec. Applleationa by February 15ilh to W. L. Wibliams, Lisq. Weat lldiag sollcitor, Wakefteh.
 Iionorarium, eto. Applications by February aist to the Secretary. Great Burtland sifeot, if.

NORTH-WEST LONDON IIOSPITAL, Kentlsh Town Read,-Asslstant-Physiclan. Application by February 10th to the secretary.
OLDOASTLA UNION,-Medical Oficer. Oldeastlo Dispensary District. Salary, £13.5 per annum and tho usuad tees. Applicatlons to Whilam Jarman. J. P., fonorary Secretary, Crossirum. Flectlon on Pebrnary 13th.
hOYAL, HOS1PTAL FOR DISEASES OF TILl OHEST, City lioml.-Assistant Jhyslelan. Application by Febrnary 11th to the Secrotiry.
royal national lospital roh consumption, Vontoor.-Asalstant liesldent Medical O日icer. Applications to the Secretary, 31. Craven Sircet, W.C.

ROXAL SURREY COUNTY HOSPITAL, Guilltord,-ILouse-Surgeon. Salary. £ 80 per annum, with board, etc. Applications by February isth to the Assistant Secretary.
RUBKIKY IHLL ASYLUM, Bromagrove. Worcester.-Clinical Assistant. Board and resldence. Applicationa to Dr. Lyle.
ST. JOIIN'S HOSPITAL FOIR DISEASES OF THI SKIN.-Lelcester SquareTwo Assistant Medienl Offiecrs. Applicatlons by February 8th to the Seeretary.
ST. MARY'S IFOSPITAL FOR WOMEN AND CIHLDHEN, Quay Street, Manchester. Honorary Surgeon. Applleations by February luth to the Chatrman of the Board.
YORK DISPENSAlY:-Threo Resldent Modienl Officers. Salary, el30 per annum, with iurnished apartments, etc. Application to T. W. North, Kaq., Mleklegate, York.

## MEDICAL APPOINTMEENTS.

Adbotr, Charles Edward, L.K.Q.O.P.I., M.R.C.S.Eng., reappointed Medical Officer of Ilealth for the Braiutree Ilural Sanitary District, Easex, for ono year.
Bnight, Eustace, M.B., M.R.C.S., apnelnted Resident Clinical Assistant to the Hospital for Consumption, Brompton, vice B. de B. Carey, M.B., M.1i.C.S., L.S.A., resigned.

Blomfietid, Arthut G., M1.D., appointed Physician to the Devou aad Exeter Hospital.
Dalr., J. P., M.D., House Surgeon, North Infarmary, Cork, appolnted Medical Officerto one of the Dispeasary Distrlets, Cork Unloa, vice Dr. Riordad, resigned.
Davifs, A. T.. B.A., M.B., M.R.C.P., appointed Phystelam to the Rojal LIospital for Diseases of the Chest, vice J. J. Pringle, M.B., resigned.
Edwards, P., M.K.C.P., L.R.C.S., appolated Assistant Medical Officer to the Manclaester lioral Infirmary (Mousall Fever Hospital), vice II. L. Williams, M.R.C.S., L.J.C.P., reslgned.

Fox, R. G., M.B. and C.M.Edin.: appointed Junior Assistant Medical Officer to the Sussex Connty Lunatic Asylum, vice M. O. Manson, M.R.C.S., L.R.C.P., resigned.
Saviders, C. E., M.D., M.R.C.P., M.R.O.S., appointed Medical Superintendent to the Sussex County Lunatio Asylnm, vice S. W. D. Wihiams, M.D., resigned.
Etrugnel. W. T., M.B., M.M.C.S. appointed Senior House Surgeon to the Hoyal Hospital for Diseases of tho Chest, vice P. G. Lewis, L.S.A., resigned. Trfeylyan, B. R. T., M.R.C.S.Eng. L.R.C.P.Lond., appointed Asistant Physlecan to the Bristol General Ilospital, vice J. W. Wcbb, M.1R.C.S.Eng., L.K.C.P.Lond., resigned.

Waleer, P. Hunter, M.H., C.M., appointed Medical Officer to the Lechlade Distriet, Faringdon Union, vice J. B. Miller, M.B., C.M., resigneal.
WhiLhce, A.s M.A.. M.D.Oxon., M.R.C.P.Lond., appolnted Phyalelan to the Essex and Colchester 1Iuspltal.
Writherfi, Frank, M.B., M.h.O.S. nppolnted Resident Cinleal Assistant to the 1 Iospital for Consumpton, Brompton, vice W. A. Evelsu, M.B., M. R.C.S., resigned.

The Metropolitan Asiluas Board.-The return presented to the Board on January 28th, with respect to fever and smallpox, showed that at the beginning of the half-year (the end of June) there were 528 cases of fever in the hospital. During the quarter ending September, 2,095 cases Were admitted, of theso 1,921 were scarlet fever, 147 enteric, and 8 typhins. During the quarter ending Christmas there were admitted 3,215 cases, of these 2,043 were scarlet fever cases, 4 typhus, and 244 enteric cases. At the end of the Christmas quarter thero were 2,205 cases under treatment, of which 2,045 were searlet ferer cases nand 146 enteric cases. The returns ul to Thursday midnight (January $26 t h)$ showed that in the fortnight thero had been 207 eases admitted, as agninst 362 tho previous fortnight. "lhere lad been diseharged 505 in the last fortniglit, as against 510 in the previous period, and there remainect on Thursday under treatment 1,833 , as against 2,083 a fortnight since. With regard to small-pox, 7 cases had arisen within the fortnight, ns against 4 in the previous fortuight. In the same period 6 liad been discharged and 10 remained nuder treatment-an increase of one since the last return.

A Manical Cluyb. - A elul, called the Circolo Medico Milaneso, Las heen established at Milan, and unny of tho medieal men in tho town havo joined it. Its nhjects are stated to be to provide a phace of social intereourse, together with the ordinary conveniencea of a clab for its members, and to promote a feeling of professional brotherhood among them.

Bequests and Donations.-Colonel Hachen has bequeathed $£_{1,000}$ to the Warneford, Leamington, and South Warwickshire Hospital.-The britisll IIone for licurables has received $£ 3808 \mathrm{~s}$, being the balance of slare of "residue" under the will of Dr. G. G. Gardiner, one of the physicians.- Mr. Christopher James Corbally has bequeathed £ 100 each to the Dispensaries, the Royal Infirmary, the Infirmary for Children, the Northern IIospital, and the Southern Hospital, all of Liverpool.- Miss Clara Frances Gladstone, of Bowden Park, Chippenlam, has bequeathed the "residue" of her estate to her sister Alice, but with the request that she would give £200 to the West of England Sanatorium at Weston-super-3Iare, and £100 to the West London Children's Hospital and Dispensary for Women at Shadwell. - The Worcester Infirmary has received $£ 200$, less daty, and the Dispensary $£ 100$, less duty, under the will of Mrs. Eliza Woodward; and the former bas received 100 guineas, and the latter 50 guineas, from Mr. J. Waldegrave Stone.- The Northampton General Infirmary has received $£ 100$ under the will of Mrs. T. Pell.-M iss Flizabeth Norman has bequeathed $£ 100$ to the Adelaide Hospital, Dublin.-Lord Burton has given 100 guineas for the second time to the British Mome for lncurables.-Mr. Henry Brown has given $£ 100$ to the Victoria IIospital, Southend.-The Doncaster Infirmary Ball realised $£ 675 \mathrm{~s} .-$ " $G$. W. C." has given $£ 30$ for the third time to the Convalescent Home Fund of the Chelsea Hospital for Tromen.
The Third Report of the Medical Mission at T'ai-Yiuen-Fu, Shansi, +iorth China, for 1887, shows an amount of practical work which is creditable to the workers both as medical men and missionaries. Altogether, about six thousand patients (including 298 in-patients) eame under treatment, and the diseases raried from typhus fever to dyspepsia. and from phimosis to ulceration of the cornea. They are enabled to record a snccessful case of operation for strangulated hernia, and twenty-three cases of successful restoration of sight after cataract. It is easy to understand that surgical work in these distant regions is hampered by the lack of efficient assistance, and the want is one not easily remedied. Dr. E. H. Edwards may be congratulated on his zeal and ability in compiling a rejort amid the absorbing duties of his responsible position.
Royal Meteorological Society.-At the monthly meeting of this society, held on January 18th, the following officers and council were, elected for the year $1888:-$ President: William Marcet, M.D., F.R.S., F.C.S. Tice-Presidents: Francis Campbell Bayard, LL.M.; William Ellis, F.R.A.S.; Charles Harding; Riclard Inwards, F.R.A.S. Treesurer: Henry Perigal, F.R.A.S., F.R.M.S. Trustecs: Hon. Francis Albert Rollo Russell, M.A.: Stephen William Silver, F.R.G.S. Secretaries: George James Symons, F.R.S.; John William Tripe, I.D., M.R.C.P.Ed, Foreign Secretary: Robert 1Lenry Scott, 11.A., F.R.S., F.G.S. Conвcil: IIon. Kalph Abereromby; Robert Andrew Allison, M.P.; Edmund Douglas Archibald, M.A.: William Morris Beaufort, F.R.A.S., F.R.G.S.: Henry Francis Blanford, F.R.S., F.G.S.; Arthar Brewin: George Chatterton, M1.A., M.Inst.C.E.; William Henry Dines, B.A.; Henry Storks Eaton, M.I.: Baldwin Latham, M.Inst.C.E., F.G.S.: Edward Mawley, F.R.H.S.; Charles Theodore Williams, M.A., M.D., F.R.C.P.

Manchester Medico-Ethical Assoctation.-At the annual meeting of this Association the report of the Committee showed continuous prosperity, with a steady increase of funds. The following gentlemen were elected office-bearcrs and members of Committee for the Year:-1'resident: 11. Simpson, M.D. Vice-Presidents: J. Foster, Esq.: T. N. Dean, Esq.: J. Broadbent, Esq.i. and A. Tanrys-Jones. M.D. Treasurer: D. Lloyd Roherts, M.D., F.R.S. Edin. Secretaries: A. Wahltuch, Mi.D.; and F. H. Collins, M.D. Committee: R. Crenn, M1.D.; A. Denholm, Esq.; F. M. Pierce, M.D.; C. Holmes, M.D.; H. P. Tlderton, Esq.; E. Jackson, Esq.: W. Lauder, M.D.; W. Y. Martin, M.D.: S. H. Owen, M.D.; T. C. Railton, M.1.; R. C. Sinith, M.D.; and W. Walter, M.D.

Prostifution in Bresspis.- The Royal Acadeny of Medicine of l3russels have unanimously passed a resolution to the effect that "the regulation of prostitution is necessary to check the propayation of renereal diseases." Other resolutions were passed, with few dissentient roices; in favour of prolibiting prostitutes from frequenting "streets, promenades, and public places," and providing for the periodical medical examination of recognised prostitutes.
Manchester Water Supply. - The Manchester water supply is said to be lower in quantity than it las been for many years
past. The consumption is upwards of $2,000,000$ gallons a day in excess of what it was in 1879, when the stock fell very low, but this year the water in stock is even less than in that year.
Successfel Vaccination:-Mr. C. Maycroft, of Bow, North Devon, has obtained a Government grant for succesfful vaccination in his district.
The Ormskirk Guardians have increased the salary of $\mathrm{Dr}^{\prime}$. Monre, medical officer for the Southport District, from $£ 60$ to £100 per annum.
Dr. Williani If. Fitzpatrick, the late medical officer for the, rural district of the West Derby Enion, has obtained a superannuation allowance of $£ 80$ per annum.
Dr, C. E. Sativeers, medical officer of Health for the Middlesex and Herts combined sanitary districts, has been appointed medical superintendent of the Sussex Country Asylum. Dr. Saunders has discharged lis duties as medical officer of health with ability and assiduity, and has had some experience in lunacr as medical risitor of the private asylums in the eastern division of Sussex.

## MEETINGS OF SOCIETIES DURING THE $/ 1$ NEXT WEEK.

## HONDAY.

Medical Societs of London,-Dr. Churton, of Leeds: Emprema. Mr. Pearce Gould: Four Cases of Thoraco-Plastic Operation for Emprema. Dr. F. de Havilland Hall and Mr. J. Astley Bloxam will relate Similar Cases.
Odontological Society, 8 P,m.-Casual communications by Mr. Stores Bennett: Dilaceration in the Incisor of a Porcupine; and Dr. St. George Elliott: A System of Crowns. Papers by Mr. J. Bland Sutton: Odontomes; and Dr. Harlan, of Chicago. The Management of Pulpless Teeth from the Standpoint of Daily Practice.

## TCERDAT.

Pathological Socifty of London.-Mr. E. H. Fenwick: Etiology of Fesical Growths. Mr. R. W. Parker: Specimens of Bone Disease. Mr.) Eve: Specimens of Dry Caries. Mr. Spencer : Deformitry of Sternal Ends of Clavicles in Rickets. Mr. Treres: Melanosis of the Skin. Mr. E. Owen: Anomalous Appendages in a Case of Spina Bifida. Mr. Shattock; Imperforate Urethra. Mr. D'Arcr. Power: Parosteal Lipoma. Card Epecimens-Mr: Eva= Bilharzia Hæmatobia. Mr. Treves: Tumour of Spermatic Cord. Mr. D'Arcy Power: Angeioma of Cerebral Membranes. Mr. J. $T$ H. Morgan; Femur from Case of Premia in an Infant. Mr. Mansell Moullin! Transrerse Fracture of Patella United br. Bonse. Wr. W. K. Sibles: Double Intussusception. in a Baboon.

## THEDNESDAK.

British Graecological Socrety. $8.30^{\circ}$ p.M.-Dr. James Aveling: The Diag-, nosis and Electrical Treatment of Early Extra-Lterine Gestation. Adjourped discussion on Mr. Lamson Tait's Cases of Ruptured Tubal Pregnancy, successfully dealt with by Ligature of the Broad Ligament. Specimens will be extibited by Mr. Lawson Tait, Dr. G. Granville Bantock; and others.
Epinemiological Society of London, 8 p.m-Justin F. Donovan, M.D. Surgeon R.N.: Iellow Ferer and the Microbian Doctrine.
Rofal Microscopical Socifts, 8 p.M.-Annmal Meeting. President's Address Rev. Dr. Dallinger, F.R.S.
Hunterian Soctett. 7.30 p.m.-Annual Geupral Meeting. Ep.m. The Annual Oration: R. Clement Lucas, B.S.

EIEIDAY.
Clinical Society of London, 8.30 p.m.-Mr. Mayo Robson: Cases of IRuptured Intestine without External Wound, Diagnosis and Treatment. Mr. Bennett : Case of Intestinal Obst ruction. in which the Colon Gave Way outside the Peritoneum. Mr. Walshmm:Case of Intestinal Obstruction; Nelaton's Operation ; Death; Volvulus of Cxcum : Malposit ion of Iscending Colon. Living Specimen -Mr. Beruard Roth : Case of Arrested Growth of Clias.

BIRTHS, MARIFAGES, AND DEATHS.
The charge for inserting announcements of Births, Marringes, and Deaths is is. 6 d which should be forwarded in stamps w'th the annowncement.

## BIRTIIS.

ADsms.- On January 2tht, at 18t. Aldersgate Street, E.C., the mile of Jolin Adama, L.R.C.I'.Lond., of a dattghter (Mary Dora).
DAFInsox.- At 2, Bon Accord Square, Aberdeen, on January 2ith, the wife of James McKerizie Daridson. I.B., C.M., of a danghter.

## DEATHS.

Muppay. - Ou January 23rd, at Aspatria; Cumberland, William Ponsonbj Murphy, L.R.C.S.Ireland, aged 6s years.
PalaER,-On Jannary 28th, at Putney. Caroline Nargaret Palmer, recently of Barnwood, Eastbourde, Susser, widow of Henry Smith Palmer, M.R.C.S., of St. Leonards, Mortlake, Surrcy, aged 65.

## OPERATION DAYS AT THE LONDON HOSPITALS.

 (Ophthalmin bepartment); and lioyal Wereminster i) phthat mle.-2 P.N.: Mrironelitan'rree; St. Murk's ; Central l.nndon t)phthalme: Hoyal Orthoperdo; and Hospital for Women.3.20 P.M.: Chelsen Hesplat for Women.

TUESDAX…...... 8 A.N.: St. Msry's (Ophthalmic Depart ment). -10.30 A.M.: loys! Loadon thohthalmic.- 1.30 f. Mi: (iny ; St Martholo-
 ster Oplithahule-2 Prom. : Westnimster ; St. Mark'a : Central
 Ilrompton. $\rightarrow$ P.M.: St. Thomas's (Ophat hainue Degartment.

## HEDSESDAI.

 Ophinalmie.-1 P.N. : Midulesex. -1.30 P. M. St. Martholomew's. St. Thomasis: lloyal Wertminster Ophthalute--2 p.sp. ; Loudon: Lulversity College Westmaster: (ireat Jortlimi Cenatral: Central Eimdon Ophthalinic.-2.30 P.M. : Sidnaritan Free llonpial for Wimmell abll Children; St. leterso-3 to 1H.M.; Kiug's College -1.30 P.M.: St. Martiotomew's (Ophthalmio Department): Guy's (Uphithalnic Department); Royal Weat minater (Ophithalmic. -3 P.a. : Charlog Uross, London; Central Iondon Oph-

 Yomell.- $2.30 \mathrm{P} . \mathrm{M} .:$ : Horlh-Weat
Women.
FRIDAI ............ 9 A.M. St. Mary's (Ophthalmio Department).-70.20 A.M.: lioyal London thithalmie.-1.15 P. M.: St. Grorge's (Ophthalmic lepartment).-1.20 P.M. © Guy's : Royal Wersiminster Oph-thalmie.-2 p.ss.: King's College: St. Thmmas (Ophthalmie Department): Ceatral London Ophthninac: Royal Sonth Lomelon Ophthalmic: East London Hospital for Childrent. 2.30 P.... : West Lonion.
S.ITURDAY.......9 A.M.: loyal Free.- 10.30 A.M. : Royal London Ophthalmin.1 1.M. \% King's College. -1.30 P.M. : Si. Bamhomomew : S.
 Ophthalmic. -2030 P.N. : Cancer Hospital, Hrompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Crariva Crors-Medical and Surgical, daily, 1: Obstetric, Tu. F., 1.30 ; Sinin, M. Th. 1.30 ; Dental, M. W. F.: 9

Qư's.-Medical and Surgical, daily, 1.30 ; Obstetric, MI. Tu. F., 1.30; Fra, M. Tu. Th. F., 1.30 ; Fiar, Tu. F., 12.30 ; Skin, Tu., 12.30 ; Dental, Tu. Th. K., 12.
Kmo's Colseow= ${ }^{\text {Mediow, daily, } 2 \text {; Surkical, daily, } 1.30 \text {; Obstetric. Tu. Th. S., }}$

Londox. -ifmleal, daly, exc. S., 2; Surgical, daily. 1.30 and 2; Ohatetric, M. Th.
 Mondrespx.-Medleal and Surgical. dally, 1 ; Obstetric, Tu. F., 1.30 ; o.p. MW. S., 1.80 ; Liye, W. S., , 20: Kar and Throat. Tu, 9; Skin, Tuı, 4; , Nental, daily, 9. St. Bartixolonew's.-Medical and Surgical daily, 1.30 : Obstetric, Tin. Th. S.. 2, o.p. W. S., 9: Kye, Tu. Th. S., 2.30 ; Ear, Tu.F., 2 ; Skin, F., 1.30 ; Larynx, F. 3.30 ; Orthopredic, M., 2.30 ; Dental, Tu. F., 9.

St. Groarge's-Merlical and Surglal, M. T. F. S., 1 ; Obstetic. Tu. S., $1 ;$ o.p." Tn. 2; 1月ye, W. S. 2 ; Kar, Tu., 2 ; Skin, W., 2 ; Throat, Th., 2 ; Orthopeclic, W., 2;Dental. Tu., S., 9, Th.. 1 ,
St. Marr's, - Medical and surgical, dally, 1.45: Olratetric, Tu. F., 1.45; 0.p., M.
 -0.30; Electrian. Tu. F., 2; Dertal, W. S., 9.30 ; Consultations, If., 2.30 Operatlons, Tu.. 1.30 ; Ophrthalmle Operations, F., 9.
St. Trovass.-Medlical anl Surpical, dally, except Sat., 2; Obatetric, M. Th., 2 ;

 Skin. W.. 12.30; Throat. Tu. F., 1.30 : Chilesend, dally, 1 to 2 ; Olutetrics, Mi. Tu.

 Wratminster. Medical and Surciral, dally, 1.30; Obatrtric, Tu. F., 3; Eje, M. Th., 2 230; Ear, M., 9 ; Skhn, Th., 1 ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS

 129. Strand. W. C., London; those nonecrning bualneas mattors, non-tiellyery of the Joursas. cice, shonld be addressed to tho Manager, at the Onice, 42. Si rand, W.C., Lnarmm.
Is nodee to arolld dolay, it. In partlentarly requented that all lettern on the लiltorial hualnema of the Jounrai bo midresamed to the Bditorat the office of the Jourxale. and not to lils private honare.

 Jovgnal. sto
Strand, W.C.
Cosamyl, W.C. authentime them with their names of comers not neemsarity for publication. Comaracompists not answerm are requeeted to look to the Noticea to Correrpondeats of the following wrek
Maniserimts forwarnen To ThFo Office or tils Jovpral cansot twbfa any
 of Benlth if they whll, on forwazdfigg thair Annual and other leporta, favour of with Dreplicrice Copies.

## To. Cumstaroninexts.

OiR corropondents aro seminted that prollxity is a great har to publication, And, with tho conslant, pressure 1 ion every clepartment of the Journas, breylty of at yle and conciseness of statment greatly fariltato carly Inacrtion Wh ner compelted to return aurl hold over a great number of communfeations chlefly hy reason gif their unnaressary lerigh.

## QuEITIES

G. Th. G. ank an fo the sulfatility of the ellmate of Melauesla and Norfolk Island for a patient in the lirst stage of phithishs.

## Thentment of Tinntter.

 for the treat ment of the following ease. A man, aged 16, of neurollc temper ament, has hecuatfering from singing inioss in the ears of varying Intensit 5 , and alternating from one to the other aide for the past three montha. Almot. uronth prior to the onset of this rouble he suffered from detachment of the rating necesgitating comptete reat. for two months, and it was durtige this
 perto normal, and ereluding lor gout. Nter excluding loral cansen, such as concretions in the masecalvely Whocking of the Eustachian tube, the following remedies were sheresaje y tried, lut all without. success: Colehicuat, hydrohromic acid, bronide of piatassiuni, and faradisor. The patlent is at present taking smatl doses of satlicylate of soda.

## Theathent of Phoflef Sweativg.

[8. J. E. Cimperym (Coseley) asks for advice in the treament of the following case. Alady, aged 16. not havhgyet reached the menopause, suffera from profuse perspiration ofi awaking in the inorning. gonerally lasting trom 4 to 8 oclock. dhe sweating is preceded by a hot burning conditio: of the skith, and is 80 proluse that her bell cannot be made untl! it. and the bedclothing have been dried. It does not necur every morning, but abont two or three morninge in the woek. She has been nerious, but is now in excellent health. look well. eats well, and slecps well till the swrating begins. The following remedies haw, been tried: Belladonna, bromide of potassium, strychmine, oxide of zine. valerianate of zine, and hot anomging. Most relief has been derived from the zinc valerianate.

Contayfecext iomer Wanten.
Dr. F. L. Archer (Kensington) wishes to hear of a convalescent bomo at. Bonrnemouth where a roung man, who is prohably in the early stage of consumption, would be adinfted on payment of a moderate fee for a fes weeks.

## Disinfectixa Chamber.

M. O. If. wishen to learn the name and address of tho maker or agent of the Schummel Steam Disinfecting Closet of Berlin.

## Massage

Forice, having gathered, from Massage as a Nfode of Treatment, hy Dr. Whllinm Murrell, thitt the art enn only be a'quired alter at latist two gears practice. and only by practical instruction, asks if this is reatly the case, as ho hat hoped to be able to use it after st tidying the aubject from books?

## ANHWEIRS.

H. 1. Mattmews,-Obvionsly the proper course in to pursue the neceanary treatment and not to volisto professlonal confidence, which, uthere the eir cumstances, is sucred,

Dr. Mirkthe. (Harmgate) writes: Thie best applleaton for fallog halr or pro moting growth of hair is a quilling hairwash made by scbutte and $\mathbf{C o}$ Widmore Quinine Works, Bromley, Kent.

## treatmeit of Stammering.

M.II.C.S. whites: In rephy to Mr. Li. regarding a publication likely to be of
 arnice Collime of thate (furti alltion) whicl) couthils cmbodied as an arpendix
 directions and exercises to assist in the removai of ataninurring, havige bech for years, whena child, a stammerer myself, I am able to jutge to rome nxtent of thetr worth, besidee hathg lad practleal proof of th
book referred toln quished by Longmans, Green and Co.

Tfaching the Dumite Spraf.
Un. A. Ji Jomsstum (Nicthway, Kingsley Load. l'rever'a Gates, Liverponl) writ cs's, I amm marh interestenl ba a girl or about 18 years of age who, through some malformatinir of the month or tosgur, has rever heph athe to apenk, with the excepthon of a few worla. I believe slue has all her gnoultien mind, though small for her age. is mindeformed. 1 am trying to persuatich her frigple to ecud her to achool, so that slie may at least lwathy to falk with hur
 where she would be kindly treated.
" " It would be a mistake to teach the girl to talk on her fingers, and than divert lier from lip-rading and matural nyeech. Dr. J. Symes Thompson, to whom westave refered the quastion, recommends that the fricols slonk paje a visit to the Trafaluge College for Teachers of the Deaf, Castlebar 1till. Fhing, W, the Prinelpal of whleh, Mr. Klasey, wolld be able to gite

 recent Anurican writer has atated the protentage of "cultivated" marricel (Americinh women who fo not poseess aly spxual ferling to be ashaghat a wionar doss not imply aterlity.

## NOTEA, IETTEIKN, ETS

## Repaymeyt of lacome Tax.

 $u s$ to mention io your colomms a most important point we lave just carried. A medical man in the north of Lendon was last year assessed at £3so ; this year the notice canse in for $£ 110$. We male out his statement on our forms, and his assessment was reduced to $£ 3 n 0$, not only a saving of tax on $£ 100$. but giving hirn a right to abatement m £120, consequently ef 8 s . 4 d. in pocket this year. But the following is the phint we wish to call attention to. We advised our elicut to make a cham for repaymeat of tax nverpaid last year, basing his clatm on the fact that he had paid on 2350 , wherens he had now proved to the satisfartion of the General Conmissionera that his arerage was oilly £imo. Wie have just heard froas him that he has received a post office order for the amonnt. We shall be glad to assist others in the same way. Our being able tu cite the case to surveyors is a great advantage.

## Diphtagria durtwg Pregimancy.

Dr. P. O'Comatid (Chicago) writes: The following may possess points of interest to merit reeorl in the JuLrial. On December 21st, 183s, I saw Mrs. McQ., aged 24. Both tonsils were so enlarged as alnost to meet, and were The attack was a sharp and selere one she wation. Tempcrature $102^{\circ} \mathrm{F}$. The attack was a sharp and severe one. She was ont of dingger oo the seventh day, ant sat up for an howr on the eighth day. The urine was albumiams until danary 6th, 1885 .
When tolll on the third day of her illness that she was two mouths pregnant with her fourth ehill, I was startled, and expected an abortion, with probably intal teranination. During her illness, besides topical applications, she took internally iron with two ghias of quinine every four hours. On July 2ath, 18sb, I deliscred her, at full term, of a healthy female child of arrage size.
llere permit me to ask: Has quinine any action on the grawid uteros? Four or fise years ago, if 1 correctly remember, some of the Indian medical officers snid it was dangurons to give quinime for infermittent fevers during pregnamer, as if was pret ty certain to induce labour. During the annual meeting of the British Medimat Association at Dublin last Year, Dr. T. Afore Madden (ride Jothasi, November 13th, 1887, p. 1045) advised the use of quinise, with irou and chlorate of potash. during the last two months of preynancy, as a good prophylactic to puerperal fever. I frequently employ it with ergot, stryelinine, and eapsionm in cases of suhinvolution of the wimb: also to rouse the uterus to action on surlden cessation of pains during the progress of labour, and always with success. I camot say, hawever, if alone it would induce contractions, siace J always used it in combination with one or more of the drugs mentioned.
Jomi Rerd, M.A., M.D.Aberd. (Melbourne) $\begin{gathered}\text { Mrites : In consequence of the pub- }\end{gathered}$ lication in the Joursil of Professor Alex, Ogston's report on Drumine, and also of reports published elsewhere, I institnted inquiries as to the action of rectified spirit solutions. I may preface by stating that I bave used weed obtained in Victuria (euphorbia drammondii), and that I have obtained the alkaloid by boiling the weed in dilute acetic acid, percolating and precipitating with sodium bicarbonate. Solution of the acetate was then made and employed. I have not heen so suecessful in obtaining so well formed erystals of this salt as of the hydrochlorate obtained from South Anstralia (N.D.).

Suheutineously a solation in boiling rectified spirit has produced the smarting of sp. Win. rec. modilied, but no after-effects. Similarly a selution of the alkalnid or salt (previously decolorised by animal charcoal), applind to the scrotum on an eczematous patch. from which the scab was remorent, causeci first slight smartimg and afterwards no pain. Subsequent applications were not felt. Compare the action of reetificd spirit alonc, in which subsequent applications are very paliful. In addition, the clisease is cared, seabs, etc. clisappear, the fotolerable itching and annoyance vanish, and a life of ease succeeds. One or two applications to the nostril cure a common cold. In tonsillitis a single application caused pain and annoyance by swallowing to vanish. Solution in rectified spirits is well preserved, and acts well enough when not nsed hyporlemically: the transitory smarting is not very great execpting where the patient is over-scusitive. A fresh aqueons solation tireent ebrefrable
tromgly (to ebullition) hrought to light that when drumine is heated strongly (to ebullition) with glyecrine (as I did in order to obtaia solution needlessly), it is evflently in part deromposed, emitting the odour of burnt
feathers, or transmiting to the solutiou as a five feathers, or transmatting to the solntion, as a friend on whwse gum I applied as poiotine to thehe said, the flavour of urine. This is interesting only In so fir as poiating to a chemical reaction, and ought not. to oceur if, the solution is marle at a proper temperature. Some was no donbt decomposed. The fact that the alkaloid ransesta precipitate with phesphomolybrice acid has not as yet been reported in the Jotreval.
acount has been rery fatal to the growth of cuphormin drummondii on to acom of the excespire wet: but in an probability it will soon be possible to place rimmine in the market, $n m$ to alcow the profession an oppor tunity of testhy ita qualities for themselves. Were it only used for "common colds" and "eczema of the scrotum," its value could scarcely be

St. Johris Itospltal, for bisfases nf tite Skiv
A Latr, Meargat of The: Sfaff writes : ds the existiag Buand of Management of this iustitution has again advertived for two assistant plysicians, I think it. only fir fo candidates that they should know something about the system of management and the circumstances which have brought about the present vacancles.
It is important to know in the tirst place that these appointments are made be the Buard of Management and not by a mewting of governors, and that this boant, thangh suppased to be elected periolically. has not becon re-formed
for some time : moreover, two manbers of this board can form anorum. It is donbtful, therefore, whemenbers of this board can form athorum. It is donbtful, therefore whether it has the right to appoint. The appointment ayanis on no errian perioh, and the melical oflicer is liable wore tilled up. but wro at last of the gentlemenclecteil fiuding out the state of affairs and the cireumstrares under which their predecessors were dismissed, almost immediately sent in thaid resignations.
The matier sppears in reality to come to this. If, yon do not act with fwo of three nombers of the Bhard of Management, who have practically,
uncontrolled sway, you will find rour position rendered unsatisfactory, and you will sooner or later elther feel yoursclf obllged to resign, or you will te summarily dismisset
The financial affairs of the Institutfon will probahly, be Invertigated before long by an independent hnquiry, hut the staff of the hospital will neyer tak a high place in the profession nor be respected unlese its election, tenurc of office, aud general conrse of action are altered.

## Mr. Morbis of St. Babtholomeir's Mospital.

Mpesers, ANTHOY゙ A. Bowlm (St. Barthnlomew's Ifnepital. L.C.) and Josfer
 recently heen distributed to old students of St. Hartholomew's IFosplat Efating that it lias been resolved to present a testimnnial to Mr. Mark Morris the Steward. It is suggested that the tratimonial should take the form of a portratt or bust, to be placed in the hospital; and it is to be boped that the in andition, The precise form, however, of the tentlmonfal will be Ir . To the recision of the subseribers. Mr. Morris's eonnection with the hospltal and school extends over a period of forty-seven yeara nud althongh it is hoped that he may loug coutinue to till his present post, it is felt by many that the time has arrived when hifs long and valued services shonld be thas formally recognised. All who hare beell brought futn contart with Ihr. Morris mist be well aware of the lact and judgment he has always displayed. His kindly consideration for nthers, hls constant good nature, and nuvarying millingness to render assistance must be especially well known to those who have hield offec on the resident staff. Subseriptinns, which should not exceed troo guineas, may be sent to either of the IIonolary Secretarics.

Comimttes:
Di. R. Martin ... ... ...


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* Members of the Exceutire Committee.


## COMM VICAMIITY OF SYFHILAS THROEG THY: SAHLS

 the Jurrsil of December esth, writes . The tattoner contracted the primary smer some years ago, and before he became a solditer. At the time be was andmitted to hospital. which was a few days after the tattoning was performed, he had painfil notiss nin the frontal bonc. and one on the left claride extenting to and implitathing the sterne-clarienlar articulation. There way rather olistinate erlargenent of one testicle. There was uo lesion of thie mouth. but there was a muce-purnfent disehiage frow one nostril, and ot her symptonis of post-nasal misolief were present. This may no donbt have been the source of contagion.
With regard to the other niag. who has heen nischarged from horpitsl, he had a characteristic copper-colourel mash distributed in gatches over his Whole borly about the time that the sores on the forarm lad healed. In this stage he was seen keveral thmes hy a cirillan professional fricud.

I have no doubt (1) thls man contracted syphllis as the result of the tattooIng: (3) that it was through the saliva of the operator. Bnt, that the saliva por se, and not as the vehicle for some other discharge, has tho power of conreying the rirus from a syphilitio patient, the evidence is not quito conclusive.

How Shootivg Accidents are to be Ayoided.
Dr. Jона IRuxrox, late Leicestershire Regiment, recommends, as means to prerent shooting accidents:

1. Impose a tax on all firearms except sanctioned by Government, and on all who use or borrow them, besiles their owner, levjing a heary fine in cage of non-compliance.
2. Make the very act of pointing a fircarm at, or in the direction of, any person, a criminal offence.
beaters together, and ohtain their of party ought to call hoth shooters and beaters together, and obtain their eapction to the rale "t that anyone using a gun who is seen interfering with trigger or hammer while the gun is pointing in the direction of any person, either when walking in line or crossing a fence, should lie at once disarmed, and become a heater for the rest of the day." The discipline of keeping in line must. be very otrict ; the gunners who malk with beaters should halt 120 yards from end of beat; heaters ad vance, leaving all winged game going forward to guns placed in front, and all going backward to those behind, neither firing till bird has risen well; ground game to be shot only when it has passed either set of ahooters. After beat is completed, the forward guns and beaters may again drive back to other guns, observing similar rules of ahooting. Excitement will thus be other guns, observing similar rules of shooting
3. Io grouse driving the butts must be sufficiently low in front to allow free scope for shooting game coming towards one, and sildes so high that shooter cannot fire into butt at either right or left, even if wisbful to do so. To accomplish this, the floor of the butt must be excava+ed, and trenches dug at the lowest parts to allow escape of water. The back of the butt must be open to give full 8 wing at game which is passing low, or has passed. The keepers and beaters to whistle loudly when within 150 yards of butts, after whtch no forward shots may be fired. The shooter on no account to leave his hutt til 1 beaters have passed him.

The Parasitic Origin of Maligyant Grontifs.
Dr. Harry Caypbell, M.D., B.S.(Lond.) writes: The following is an abstract of a paper which was prepared come time ago independently of any published writings on the parasitic theory. As much has been recently written on this subject. It is unnecessary to give more than an abstract of my paper. I ahal dwell chiefly on such points as have hitherto received little or no attention.
Malignant tissue is of inferior value to that of the surroundiag parts; the change is retrogressive; it is not, as in development, a change from the homogeneous to the heterogeneous, but the reverse. Herbert Spencer, indeed, especially singles out the malignant growths as exceptions to his great principle of evolution, assuming that the change is from the homogeneous to the heterogeneous. A careful study of their structure and mode of growth would seem to show that this is not so. The tissue of sarcoma is of a very elementary order, but the carcinomata have no such simple structure. hnt there can be little doubt that, in their case also, the change is a backward one. In the squamous epitheliomata the epithelial cells dip down as in the development of all open glands, but the down-growing cylinders never become hollower out. The glandular tissue is therefore of a very crnde immature form. In the cylindrical-celled variety a more perfect variety of tissue is approached; for the cylinders contain a distinct lumen; nevertheless, the process is disorderly and tbe gland tissue, taken as a whole, is decidedly imperfect. In the acinous form of cancer the glandular type is maintained, but it is of an erratic kind. Wherefore we may say that the carcinomata consist of an immature and disorderly form of gland tissue. But the malignant change is not of the nature of a simple degeneration, for along with the deterioration in structure there is an actual increase in tissue activity.

In considering the etiology of malignant growths, it is very necessary to decide how far the malignant tissue is due to a simple transformation of the affected tissue, and how far it results from a multiplication of the few cells initially constituting the tumour. Although primary carcinoma is largely a transformation, jet it is certain that many of the cells are derived by a nultiplication of the cells already constituting the tumour. Elements are everywhere present to ahare in the formation of the growth; for when it spreads to tissues in which there are no epithelia, the growth is evidently solely by a multiplication of the cells already belonging to the tumour.
My view of the matter is this: Under the bacterial irritation the tissues are onable to keep at their normal level, and revert to a tissue of a lower order, thus exbibiting some one or other of their many potentialities. The type of morhid tissue thas produced depends (I) upon the nature of the tissue primarily affected, (2) propon the nature of the parasite. We have seen that the secondary growths are not always due to the transformation of the affected tissues, wherefore the theory of reversion cannot apply to such cases. Such secondary growths depend, I believe, upon the transiference of tissue cells plus the bacteria from the seat of the primary affection. Under the specific parasitic stimulus these transported cells take on the same morbid action as at the primary seat of infection by virtue of their potentialities. It is impossible, however, to deny that cells of the tissue econdarily affected take some chare in the process. There are probably several varieties of "malipnent" bacteria: the carcinoma parasite must he quite different from that cansing ввгсота.

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## BOOKS, ETC, RECEIVED.

Practical Physics for Schools, By B. Stewart, M.A., and W. W. M. Gee, B.Sc. Fol. i. Electricity and Magnetism. Loadon: Macmillan and Co. 1888. hepherd's First Aid to the Injured. Revised and rearranged by Rober Clerken well, E.C.
The Student'e Manual of Psychology. By E. D. Drought. London: Swan Sonnenschein, Lowrey and Oo. 188.8. The London Literary Society.

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## AN ADDRESS

# OUR HOSPITALS AND THE INTERESTS OF PATIENTS AND PUPILS. 

Deliversd at the Annual Meeting of the Dublin Branch of: the Britioh Medical Association, January, 1888.

By EDWARD DILLON MAPOTHER, M.D.,
President of the Branch; Ex-Prestdent of the Romil Cottego of Surgenas, Ireland; Consutting Surgeon to St. Vincent's Lospltal, Dublin.

Durayg the past ycar our Brancla lins heen movel towards the provision in Dublin of proper opportunities for pathological atudy. and a Blue Book of extreme value, toudhing the curative mil edncational 'facilities of our hospitals,' has beín presented. On these topics i'propose, to briefly; comment, being, of course, solely responsible for: any suggestions offered, The fmancial points, and the moder of government and of election of officers, will not be dealt irith, having regarl for your patience and my orm unfitness.
The teaching of pathology, macroscopic and microscopic, is at a low ebb in Dublin, a city in which an active society originated an interest in the former. The number of hospituls, general and special, will bar nil progress unless consolidation or, at least, nssociation is brought about. The physicians and surgeons camnot, and I fear their pupil assistants will not, give time to"r full cxamination of a!! the organs, and the decent re-arrangement of the cadaver. The proceedings will occupy from ono to two hours, even when, after removal of the riscera, the spinal cord is taken out by cutting the bodies of the vertelre from the pedicles by chisels, spurred for each side-a quick way I lately sam worked in Viema. It is usually thouglit better that the officers of lying-in hospitals should not undertake post-martem examinations. In each of the ten general and six special hospitals there could not he a teacher of pathology. It reems to me that the two great bodies in Dublin which alone liave pathologital ruseums should found chairs. In one there is a great tencher of the most! cognate subject, whose competency is unquestionable, and whio might find time; in this other there is an officer of, מood promise ; Lut teaching has been forbidden; although :a hundred nyears ago the system of demonistrating such specimens tras there in vogite: The slizpends sliould come fron the conjoint Indies and the University, on condition of free admission to all candidates the had passeri the first. half ' of their examinations; and from 'the nsual school fees from othert'. The physicians and surgeons would give notice of any case desirable for 'examination, and' of course they', will rejoice to hare their diagnosis tested bya:phathologiet who only sets the specimens. The rough, duty ebould be dune by trainet worknen who Would bring the raluable parts for fullexamination and preservation to those colleges resprectively.

As such specimens would be varied and irregularly supplied, it is only in theso musenms that systematic courses could he given. A lino drawn north-west to sonth-ast from the Midland Bridge, North Cirenlar Road, ito Leoson Street Bridge, fairly-risectat the city. The hospitals which might thus group with Trinity College would he the Mater, Rotunda, Jervis Street, Sir 1'atrick Dun's. Dagkot Street, St. Joseph's, the Alelaide, and Mercer's: and whith the Cullege of Surgeons, the. Richmond, Steevens's, Combe, Mcath, Cork Street. and St. Vincent's, oach group containing about '550 heds oscuipied, but let the selection be by fitness, affection, or in ariy other way. The pupils of each hospiaf would attend the yecropkies in it, but only these franked by the colleges or by thie special fre would the present in the musenms at the systematic courses, including pathological histology.

As chiluren's bodies aro not procured ha dissecting subjects, examinations of them in some of thene dead-houses would suppis $n$ want in anatomical science. Herenfter changes in the Royal Lnivereity might demand readjustment of the project.
It could not be contended that in three of the schools of Dublin, ns at present constituted, a full course of patholog" could be delivered, or that the teacher could be fairly piaid for exhanstive labour in this most expanding of our sziences. The same being
true of many other wubjects, especially the purely scientific ones, Wherefrom tho stipend cannot exceed $£ 100$ a year, on that carnasf and original work cannot he hoped for, is it not time that indid vidual interests and sentiments should be merged towards an amalgumation of schools? Amongst other great thinge then attainnble would the the establishment of a residential hall. Howeder, those topics are to be discussed in a practicnl tray elsewhere:

Post-graduate courses have long hem pinpular in Amprica and on the Continent; for instance, three hundred ofton attend the Polyclinic in New York. In the great hangitals of that city the ordinary clinics are wery thinly attended-examination inatead of education haing in view-und the hetter clasa, ifter masing, eilher work in their own hofpitale or come to Eurole to adapt them; selres for immedinte seientific practice; but some may trespass on the pulbic field without fluess.
Our licenaing bardies cond encourage elinieal and matholngical work ly setting those studies alone for the flmal Jear's "xaminad tions : but do our hospitals give opf,nrtunitios? If an nflicet of a fow years' standing in the nrmy, may, ne disppnsary servich homes to refresh or to mark his fil ness hy phesing for the Fellowship of the Roynl College of Surgenns, he can in Dablin efllcient!y study the dianases of the ere, of the female organs. and of chlldren; but in the present sildivided way, groups of disenses of skin, heart, hungs, joints, digest ive and urinary organs could nnt be presented in number and variety for the three or four weeks' course which the practitioner conld attend. Sereral hospitals could unite in giving instruetion for a common fee. The Fellowship examinatione will now be held at tbree stated periods, and the courses might be fixed accordingly. In London and in Finglish provincial towns, leeds for example, large hospitals have afforded these opmortunities.
In Dublin it would seem that, with an examination alead. none but the old lines will lie roluntarily followed. For a fee of five sliillings, thirid and foirth year students can attend the splemdidyt instructive meetings of the Royal Aeademy of Medicine-a privilege unkinown elservheré-lut of some six hundred students whio could do so six have enterel. Attendance sloould be made comppulsory for fourth year students, if , inthological courses camnot be arringer .
In the winters of $1852-53$ such maisters as Crampton, Corrigan. Stokes, O'Ferrall, Mayne. R. W': Sinith, Alams (omitting the' living), taught-in the Tathological Societs puyile of my day, and, besides the kuowledge we could imlibe, they filled us with pride that our country had such grand expments of medical science. As a sanitarian, twienty years ago, in me 'Lectures on Public IIealth, and in my Carmichinel Essayy, 1 urged, that fever wards, or even udjnining huildings, elonkd not be connected with general bidepitals; entherwise, despite all efforts, frifection will be spreat? by inuses or students: Still less should they he parts of our workhionse hospitnle. I never tire in ginting Corrigin's dxinm, mif down in 1et6, regarding "this point-"Sickness should not be made ta chain to "rng a man imtn a poorlonse?" Convalescenced from ferer heing show, such patients would he necessarily asso ciatel' with pankers! : Cork Struet Hospital. couse the moner Wherce it may. must be supported as a well-wited and admirnilis worked institution. havieg stprate. Muildings. nll extensible for cplifemic pressure of any variety. It hargely serves the aljoning townships, Rathmines and Kilmainham. Sin also is the Hardnivke needed for the north half of the city aml suburls. Its site. is'very conl, sufficiently isnluted from thie minn buildinge nad from lobuys. If there whe not neconmondation enough on the north, the south side would hare to hear the expense of its patients', whinlh is platiot mighst to the taxphyers there
But surely there is waite for the chat. and for the Pembroke Township, if fever hospital. If Sir Patrick Thn's be not fulli" niaflable and a new site be wantat, the maste ground on the Pigen House roal, either east or west of the Constguard Station would suit; and so infections mese-small-pos and elolern espe-cially-renchinu us liy sen eould le ensily interecpted. The new rond, running froun niar Iriahtown Church, mukes the place, ensy of access, and after disinfection there is a safe ontlet for thie excreta by the main of the Rathonines and Pembroke Tquaships to near Dublin Bar.
The two late small-pox warnings (for happily they were no more) give some hints of ralue. On Augnst goth, lestia Dublin shopmann stayed with an officer of nn institution in L7ster who had visited a sniall-pox patient, be being safe, so that our citizen suffered through a middle person. He lay ill for tive days, and on September lst, when the rash had been three days very largely out.
was admittend to the llarlwicke Vaccination and very complete isolation of the right iumates of his house, burning of their clather and bedding were instantly carricel out, and thence no other casu has arizen.
In Octoler a foreign sailor, with some"unrecognised rash, lodged in Grant's Row, and the illness of an unvaccinated child whs afterwards concenleal for days. On the zith she was removed to Cork Street Ilospital to die, that being the only fatal case. F'rom this focus nine cases were traced. One eatmo to hospital well smeared with sulphur ointment. Oh for the diffusion of dermatological knowledge!

The only case urising fur off was that of a lat who sent his washing to that listrict, and he produced the disease in l'ortobello. After sevent weeks freedom a child with the discase was unnotiticd from this district, and ul, to the present five cases are tracesble to this nest. small-pux being palpably enthetic, and cholera heing as clearly importable, any person, peer or pauper, suffering thercfrom should le foreed to go to hospital, if he happened to be one of the tirst ten cases after an absence of the contagion for three months. So many foci would have been then set up, and the preventive steps wonlu be so expensive-for instance, fin) was demanded for loss of clothes by one of the recent patients-that the ordinary steps for stemming epidemics must suffice

After many vears of freedom some imported cases were, in 157:-, concealed in Salpas Street, and thence arose an outbreak (the word "rpilemic" has no meaning here, if, indeed, it has anywhere), and orer $: 0.000$ cases were recorded for Ireland. In 1805 a case taken into a gencral hospital, Montreal, infected many patients: by them outside it spread, 3,0 , drat lis occurriag in a ferv months. He are not sure lint other zymotics may not in like way be scattered.

In Cheltenham all classens subnit 10 isulntion in hospital, and thanks to this, nfter six zeparate intrometions of the disease, it has nerer gainerl a footing. Somo of our hospitals which admit other zyzutice refuse small-pox, as it has nearly always burst the bounds.
The P'ublic, Health Act, 155 (sect. 1 $1+1$ ) authorises the removal of an infectinus chsp improperly lodged to hospital, but does not enforce its retention there. Inowever, any unsafe patient leaving conld be punished und.r the next section, or arrested for lareeny of hospital clothing, if such had been supplied. A hospital for treating children with infectious diseases is noost desirable, but Dr. Gairdner, our I'resilent-elect, reported in 1864 (being then Medical Olficer of Health for Glaggow) as to the dificulties in its way:-
" Is a general rule, the habits and traditions of the family life, eren in the most poverty-stricken and degraded classes, oppose an insuperable barrier to the removal of very young children; nor, even if the consent of parents could be obtained, are the means of treatment in hospitals adapted to such cascs. It is, therefore, with a feeling of complete helplessness that the snnitary officer sees such cliseases ns measles, whooping-cough, and scarlet fever rumning rint in the houses of the poor; he feels that in most instances mothing can be done beyonl a general instraction to open the windows, and attend, if possible, to cleanliness. In some instances he is paralysed in the face of greater emergencies; he has ag power to enforee removal, even ahould an infected family settle in a crowded neighbourhoml hitherto free from disease; lie cannot disperse a schuol in which cases of infection have occurred, and any attempt even to give publicity would only result in their more careful concealment. Fven, as has repeatedly liappened within our observation, provisions are pmblicly sold from infected apartments. In one instance a woman with the eruption of smallpox actually on har hands was found selling sweetmeats to the children of a schnol in her neighbourhome. In this instance a threat, partly of exposure and partly of legal consequences, put an end to the seandal: but legal remedies can have a very limital] application, and sulf-interest will of en be much too strong for all ruggestions proceeding mercly on public grommls. In truth, the spread of epidcmic disease among chidiren can hardy be met othorwise than log the gradual diffusinn of enlightennemt, amd by the itmprowid habits which may arise from thin remoldelling of the dwellings of the poor over a long eonter of years."

Fvery geacral hospital shonded have oleorvintion wards in which cascs indefinable for two ne thres laya could be lodged, and there the students would learn mucl, but only in great special hospitals
 restrict the attendaner at fover horpitale to thime or fourth year
men. Firesh country youths take jufectiou most readily, and cannot prolit in exchange for the risk. Whea they have worked at such subjects as the non-iufective lesions within the thorax and abrlomen, the ordinary rashes, the treatment of bed-sores, distended bladder, atul tho like for three monthe, or at most sk mont hs, they should acquire the power of applying such information in the fever hospital, where such complications arise. An equal period usually sultices for the gain of pphthalmic and anral, and of ohstetric knowledge. The fee should be subtracted from that of the general hospitul, and on hygienic grounds the fiver months should never tally with those of work at midwifery. Fept at fever alone studenits will master the subject in a few months; but, reaching the hospital' after ;earnest work at * $n$ gencral hospital for a couple of hours, their receptivity of learning would be rery much less.

In this conntry fevers are fortunately becoming less endemic, and our graduates who go abroad will have to learn what they conld not study here of other localised pests.

The hospital which Surgeon George Dorle founded in 1750, the lock, was the most difficult which the Commissioners had to deal with. 1 lowever, every benevolent citizen will feel that such a separate refuge must exist, as it would be grossly wrong to mix the fallen with the virtuous poor, and to put them into separate wards would he equal to branding them with "the searlet letter." The dress and manner of their female risitors, decently as they might strive to act, must be objectionable. There shonld be power to keep these patients till cured, or at least coutagionless, provided they had signed on entering an agrecment analogous to that by which the drunkard can imprison himself for twelve months.

But surely the cases in the Lock can he studied by senime students, or at least by , lost-graduates, without fear of moral cons tagion. In other hospitals yenereal diseases, exeept thoso in thes female genitals, can be freely seen, amd there can he no objection to carry suitable pationts, with faces fully veiled, to the theatre, the slidents laving access there alone. The small fee which should be charged should be allowed in the total expense of hospital education. If surgeons are not taught the mode of recognising chancres in females who subsequently become mothers, racial degeneration must ensue, and wrong diagnoses in family practiee may ruin many a honsehold.

Two fuets joint towards a clange to be wished for as regards the eve and ear hospitals, and against their speeialisation; they are but 370 yards from each other, and four of their six officers teach in general hospitals. In two other hospitals there are ophthalmic surgeons, so tbat in Dublin wo havo eight eyo clinies. What can be the objection to attach all their strength in the latter places consolidated, as vastly more available to patients and pupils, all appliances boing, of course, fully provided in place of those generously supplied in the present special institution?

Again, is it not regrettable that so many orthopredic casies aro divertel from the general hospitals, where students could protit by them, to the one special institution; the more so as the spocialist there would be so remarkable a gain to the staff of any large hospital which established such a department?

Since Ewory Kennedy's great paper in 1869, with a most exhaustive delate for seven nights, I have felt that lying-in hospitals ouglit to be limited to cases in which difficulties had been foreseen, or in which very special circumstances compelled the removal of tho expectant mothers. In the normal state of any ennmunity, surely the home, bo it ever so humble, is the fit place for the function of childbirth; affectionate aid is nssuresl for the mother, and she is able soon to clirect at least the care of the housobold. lemoved from it, her anxiotios must tell against her well-doing: When Masso foumlerl the most fanous lying-in hospital in the world. the romms of the poor were so tilthy amb erowded that romoval of the parturient whs necessary. Whitelaw's survey in 1798 ghowred grat density of population. For instance, in St. Luke's Jarish, 15.35 per hoinse; in St. Miehan's, 12.0H; and in 1Junkett Street, over 28. Ilalf a century hefore, when Mosso hegan his enterpriso the population was, it is believed, $2(1), 000$ in much fewr houses. Sow onr working class are better housed, aml evers year improvemont goes on; so that we hopa for bettur things, oven in this por-ladnn town. Take the cares of the two healthiest Jinglish towos: in the lying-in hospital of Brighton, with about 120,000 inhabitants, twenty-five deliveries yearly take place: and in Hastinge, with to, (000 people, there is no such institution at all. I do not urge the crippling ne such great hospitals as the Rntunda or Comme, but that they ahnuld tind toward sprending thuir functims as hospitals for disenses of women, and
by their maternities succouring those who lie-in at home by the best medical and nursing skill, and by, food and clothing. The Bill of last session would disendow them unless they had at once \& 0 , and after five years, 100 occupied beds, although the Commissioners waired that point in their favour.

In 185) the Master of the Rotunda, at the Ilouse of Commons' Comnnittee, was asked: "Do you afford any external relief to lying-in Women?" Me replied: "Not ordinarily; in an extreme case, if they send to the hospital for assistance, we send one of the senior pupils or assistants."

Since then changes hare gradually tended towards using hospitals for the troubles of parturitive science. Is not the adjective just used better than that perversely derived word "obstetric?"
I still Warmly favour the plan which Earl Spencer conceived, and which mainly moved him in appointing the Commissionnamely, the abolition of the Richmond Hospitals (a title far better than their usual inclusive appellation or separate names), and of Steevens's Ilospital, and the erection of a new nedicochirurgical building, Cork Street, to be the ferer hospital in connectiou. Some degree of unfitness of the Richmond surgical block, and the sites of all on the edges of the city remote from medical schools, were good reasons for the change. A site near Christ Church has been proposed, and Steevens's would be 1,370 and the Richmond 900 Jards distant therefrom. A large, cheaply available space in and about Meath Market, Thomas Street, would give a healthier site, more convenient to the terminns, the great breweries, distilleries, and barracks, and the Kilmainham township. Eien greater advantages would result by the clearance of ruinous tenements. The Richmond, Steevens's, and Cork Street Hospitals would be respectively 1,150, 840, and 660 yards distant.
This Western Hospital, as it might le named, could be built on the most modern hygienic principles withont extravagance, and the sums got by the sale of the Richmond and Whitworth (that the North Union wants these premises is only an enhancement of their value), and Steevens's would go a good way. The great manufacturers and merchants who abound in the district would be generous towards a building fund. For maintenauce, surely institutions which for over a third of a century have heen well parning half the Government grant would be still worthy a large share, and the properties of Dr. Steevens and Edward Cusack (the larger donor, whose name is so nsually ignored), although now tepressed, are of considerable value. The financial fact just stated appeals against any sentimental objection to the abolition of a name. In olden times the remoteness of Steevens's, although its teachers were illustrious, kept away a class except that resident-now the staff is strong and progressive, but their energies are wasted for want of kearners.

If there was any hospital at all contiguous in which the governors and officers (if these designations were there separable) did not form a happy family, perhaps au adroit peacemaker might bring about a union more or less complete. No hospital shoula le "an incompatible," to use a pharmacist's expression.

In contrast to the medical staff domiuation just hinted at stand mut the charters of Sir P. Dun's and Jervis Street, which exchude the medical oflicers from their committees.

If the fusion of the Richmond Mospitals and Steevens's be not fryoured, surely the former tried friend of the poor need not be wiped out hecause the adjoining workhouse covets its premises. Rather let the guardians send their serious acute medical and surgical cases on fair payment, as at present they do their ferer patients; the pauperising point would not arise, as State funds would be still arailable; or let them buy one or two of the buildings, when the remaining could be converted into an improved medien-chirurgieal hospital. The facilities for taking grounds for hospitals should be at least equal to those under Railway Acts, and thereby the persistently noxious dairy yards in front of the Whitworth Hospital would be cleared.
If the Richmond llospitals be abolished or consolidated in the south-west, north Dubliu conld bo hospitalled by the Mater Misericordie, of grat available capacity, and by Jervis Street Ilospital, also of great capncits. They are 1,350 yards asuncler. and they are distant from the Richmond 1,150 and 800 yards respectively. Then as a North Ferer Hospital, the llardwicke or the Whitworth (which slight changes would make? a more suitable building) should be maintained. It wouli serre for the clusses of the Mater and Jervis Street, and fever might be ex-
cluded from the former. The Sisters of Mercy nurse these hospitals and those of the North Cnion, and we may feel sure that these devoted ladies would gladly extend their ministrations to the adjoining fercr hospital, funds for the patients' support being derived from the State, the Corporation, or the North Dublin Union, or all proportionately.
Both the Commissioners and the framers of the Bill of last session propose to deal justly with the officers of the Riclumond Hospitnls, and doubtless the Treasury will do so if a Government Bill be introduced. To deprive these eminent physicians and surgeons of their clinical facilities would be somewhat like closing law courts to some leading Queen's Counsel, and our brethren should get as ample compensation as the latter assuredly would in a like case. The agitation for change during the past three years has, of course, lessened the clusses, and the suspeuse has injured the interests of the officers.
On the south side two institutions, which are but 700 yards asunder, showed symptoms of conjunction-Sir P. Dun's and the City of Dublin. To aroid costly building, surely they could join their classes, and keep one hospital for surgical, the other for medical cases; or let Baggot Street be enlarged to accommodate both these classes, and let Dun's be the great Eastern Fever Hospital. If, as urged, infectious cases be treated apart, poor patients thus afficted should not be carried to the Mardwicke and Cork Street Hospitals, across $t$ wo-thirds of the city from the eastern edge and the Pembroke District. Of course that wealthy township should be roused into greater generosity than appears in Dr. IIanghton's justly indignant evidence.
The Meath Hospital is of good size, and is just completing considerable additions, and serves a most extensive area. If it fever cases. Which maiuly come from country districts where they should be treated, were diverted to Cork Street, and the £GOO a year it has receired for their treatment was applied to general cases, this old and famous clinical institution should be regarded as a large hospital.
Of St. Vincent's, with which 1. have been connected nearly thirty years, I will only say that, although it is large as regards oceupied beds and paying pupils, the managers desire to acquiesce in any conditions which may increase its usefulness to the sick poor and to the cause of medieal education. Its distances from netighbouring hospitals are, to Mercer's 740 , to Meath 1,000 , rards.
Trear a précis of Sonth's separate report, which has not been breught enough to the front, perhaps because two large hospitals had not been then founded, and others have been enlarged. Ile woull lessen our general hospitals as follows:-Nort side: More the hospital at Jervis Street eastward to a larger building on a better site, and leave the Ilonse of Industry for the north-mest. On the south side of the Liffer, combine, as regards funds, management, and staff. Stervens's and Cork Street-the former as the surgical house, the latter as the medical and fever departments. Such would be the south-western hospital, and the southeastern he wrould constitute of "-Sir Patrick Dun's, the Meath, and Mercer's, or, in its stead and united with it, the City of Dublin Hospital." The first to be the medical, the seennd the fever house. and the surgical building to be provided by the culargement of Baggot Street buildings, that in Dlereer Street being abundoned. Mercer's and the Adelaide are within 340 yards of each other, and the latter is 500 yards from the Meath.
His views were however, dominated by the erroneous idea of haring the scientific medical schools necessarily combined with hospitals-a system not to be thought of here.
There is only one piece of evidence in the blaw bonk to which strong language might be applied. It is as follow::- "The poliee have instructions to hring all cases (accidents) necurriug on the south side of the city to (blank hospital), except those occurring near the steps of annther hospital, and to (hlank hospital) ou the north side of the city." The instructions always have been to bring accidents and other cases wanting prompt relief to the nearest hospital.
It may be well to state very briefly some of the advantuges which would follow the reduction, say ly half, of the geweral hospitals, by consolidation or otherwise.
Clinical positions are too numerous-trenty-five physiciancies. thirty-eight surgeoncies-leds being, therefore. relatively too few. Mr. Thomson's evidenee on this point is exhaustive. With wider Liells, greater additions would be made to medieal knowledge. Although Dublin has done her duty in the training of practitioners, her original observers and positive additions to science might hare been more numerons. Thus may be partly explained the striking
fact that nut one Dublin practitioner holds a British or foreigo honomary elegres. Last year alone our licensing bedies conferred thirty-three upon strungers. Such distinetions here would tend towents checking party and persomal favouritism, which is extinguishing the mmbition of honest scientitle workers. In Buglmal, und still more on the Contiaent, every year hospital and tionermasental medienl posts are becoming more nssured as the rewards of special lit ness.
A large hospital could afforl a resilent physician and a resident surgeon, either to bo present at ull hours to instantaneously meet emergencies.
If in an enlarged institution the class becomes unwieldy it conht, and indeed in myy caso shouht, he divideel amougst different teachers, according to 'the four yeurs' curriculum now definitely settled.
some patients are over-treated, or often Ireated, as they have so many buspitals nr dispensaries close by and free, and are trained to lecome the veriest hypochondrineal hores.
Amalgamation will ho justly brought thout if the general hespitals must show, seven years hence, $n$ minimum of 150 occupied betis. It is always woll to guote points which may be cited aguinst as well as for un aryument. On Yowember $4 t \mathrm{~h}$, 1811, the College of Surgeons deciled not to reeognise any hospital which had less than twenty beds. How grateful should tho poor patients and pupils of Wublin be that they do not lire under the aystem of "the grool old times." The application for recognition was from a building in leter Street with twelve beds, the property of the surgeon.
It is clearly just that the Corporation grants, reacling ers,noo a sear, should le in fuvour of citizcas only, and that other authorities, townships, por-luw guardians, and the like, should contribute to the support of patients from $\Omega$ distance. This is already done with us in the ophthalmic loospitals, and in the case of a few fever patients, and is universal in Continental hospitals.
If the hospitals be ge werned by a board for the allotment of the public funds, the Continental systom of a central bureau whence applicants would be drafted to the several institutions seems inadvieable, as the poor as wrell as the rich should have the power to seek advice from any physician or surgeon whose fame had attractell them. Gur city is ton small to need such a system.

That Dublin has a right to the grant every one of the State reports show, especially for the support of the education of public medical ollicers: that it has a need for it was most forcibly expressed by the Clouse of Commons' Committec (numbering fifteen), in 1854. "It is a motrmpalis for the poor, but not for the rich. The value of its juroperty las within the last fourteen years deerensed, while local taxation, population, and panperism have increaserl." How sadly intensified does the statement applr today, the only statistical fact changet-smaher population-telling for the argument: year hy year our higher class go, the poorer crowd in.
All the suggestions in this brief achlress aro made with due humility whin so creat a topic has to be facea, ant if any one of them shall prove of value it will not have been writtern in sain. Incidentally, approval of the report of the Commissioners lias leen noterl, but it is right to say that this Blue Book, unanimonsly signed, is, from that astomeling circumstance and its own morits, a gem.

Lhezuests asb Dosathons.-. Mrs. Manmah Surah Chadwick, of Balham, herquathed el, (ha) each to the Earlswood Asylum for Idiots, the leyal Free IIospital, the Inspital for Consumption and Disetrens of the Chest, the Charing Cross Ilospuital, the Didellesex Hospital, and the Western Dispensury, and Li00 to the London Fever llow pitul, all free of duty, and tebititic 13s. 14. consols subject to the lifu interest of hers sister, and to the payment of legacy duty, to the Westminster Inspital. -The Bolton lifirmary hias receiven 23 , EAM under the will of Miss Alien Lowe, of South Shore, Blackpol. Mr. F'rancis Drakin, of Bastbury, Watford, Iterts, bequesathed Elow each to the Cenneral Inospital, the lree llospital for Sick Children, the bye losprital, and the Lueen's Hospital, all
 (i) the Kilmarnock infirnary.- The Sheffield (heneral Intirmary has recrived $£ 100$ uneler the will of Mr. Bidward Itulsod, of East Slife.-The ammal report of the Committer of the Northern Ilnspital, biverpool, aeknowledges the reeript of El.000 under the will of Mr. G. II. Thompsom, f:mo under that of Mrs. A. M. Herwood, $\operatorname{Lif}(x)$ under that of Mr. Roger Lyon Jones, and f:200 under that of Mr. Robert Little.

# A LECTURE ${ }^{\circ}$ <br> <br> THE THIRD S'TAGE OV LABOUR. <br> <br> THE THIRD S'TAGE OV LABOUR. <br> Deliverellat the Post-Craduate Course in Edinhurgh. 

Bx A. 11. FREELAND BARBOUR, M.D., F.R.C.P.E.,
Leeturer on Midwifery in the falinburgh Mevical Sclaot: Junior AsbistantPhysician to the Maternity Itospital; Assistant-Physician for Diseases of Womens to the IRoyal InGirmary, Edinburgh.

THE third stage is undoubtedy that part of normal luhour whieh is of the greatest interest and importance. Lo those of us who are engaged in midwifery practice. While with regard to the management of the first and second stages there is not room for much difference of opinion, each of us has his own ideas with regard to the third andlhas formulated for himself rules for its management.
To turn this demonstration into a vigorous and interesting discussion, I should only need to propeound the question, What weuld you recommend as the best mode of managing the third stage? But if we were asked on what basis our principles of management rest, we should havo some dificulty in replyiug. l'robably, we should not venture to say mere than that our midwifery experience has tanght us that it is best to do so-and-so; in other words, our management of the third stage is not yet scientific, for our knowledge (or science) of this stage is as yet in its infancy.
Let me suggest some very elemontary peints which we do not know. 1. When is the placenta separated? 2. By what means and in what way is it separated? 3. How are the membranes separated? f. llow are the pacenta and membranes expelled? 5. What is the natural mode of stopying bleeding from the placental site?
And I need only mention, in passing, a number of more remote questions, questions borderiug more on pathology, which start up at the same tinc. What is adherent phacerata? Why are membranes most oftin adherent round the lower portion of the uterus? Why should a bit of retained placenta in one case endanger the patient's life, immediately from hemorrhage or after a diy or two from septicembia, and in another be apparently harmless? What is the relation of endometritis to retained fragments of membranes?

I shoult like this morning to say something with regard to a few of these questions; not so much. perhaps, in the way of answoring then as of seeking to define the present state of our knowletge.

1. First with regarl to the time at which the placenta is separated. And here we must frankly nimit that we know at present nothing clelinitely as to when this coccurs. It has been taken for granted hy many that the phacenta begins to lee splarated during the second stage; that is, when the chidd is heing horn. Of this no proof has heen advancel. The suly elinical fact apparently sapporting it is tbe appearanco of asplijxia in the chith it it lies for a little with only the hearl born. But tho interference with the placental circulation which this asphyxia implies, may he due to compression of the cord, or to disturlanece in the circulation of the platental site from uterine contraction and retraction.

We shall see when we have discussed the monte of separation that there is reason to believo that the phoenta is usually not seprarated until, at least, the commeneement of the third stage.
2. By what force, and in what way is the placentat scparaterl? Thongh I have thrown these two into one quest iun, they are quite distinct ; and the non-reengnition of the differrace has lect to great confusion. When we are asket. "What is that cause of the scrparation of the placenta?" We have, like the prowrinal Scotsman, to answer with a question, What do you mean by "cause?" Do you mean the forces which effect the separation or the mode in Which they do so?
There can be no hesitation, 1 think, in answering the first of these queries: the force is labour pains or uterino cont ractions; not the pains of the second stage but those of the third, the "vidence for whicla we shall refer to hater on. Giravity, which is tho only other eflicient force in labour, scareely deserves serious con-
sideration, from the small weight of the placenta relatively to its extont of attachment and from. the patientls'leing recumhent:
As. to the scoond part of this question, "In Inwhat way is it separated? "How do the pains acte" "n The old view wras that they operated ly diminishing the area of the placental site. The placental site diminished in area; the placenta-was unable to follow it, and hence it separated. In the, Germau sebool, of, midwifery, effusion of blood lat ween the phacenta and its site has been held to play'ai important role. Bandelocipue sptakis of the oecurrence of blood-effusion, hut it was Schaltze, who formerly taught that it was an important factor in separation. Most of you will be familiar with his drawlog, 'rhichi hàs' pissed into many of our textbooks; in it the nterils is represented bike a thick walled inverted bell-glass, and the placenta at its mouth like an inverted sucker with a large blood-clot behind it.

While still asserting the importance of this retro-uterine hæmatoma. German writers are changing their standpoint as to its mode of production. From Ahlfeld's aceount of it, we should gather that the uterine contraction made the placenta spring up and aspirate blood betreen it and the uterinc wall. But this implies that there is bleeding during a contraction. Coln, in more recent writer ou this sulject; makes the placenta sink down by its weight in the interval between the pains, and thus draw blood in. Further, a fall in the intra-uterine pressure, consequent upon the emptying of the interine cantents, has been brought forward by another recent German authority (Stratz), as explaining why the placenta, which should (if the German niew be correct) separate during the second stage, does not as a matter of fact de'so till the thind.

And liere let me warn you against the fallacious view of regarding the placenta in the uteris as a piston in a pump-the placental site of course being the marshy ground, in which the sinuses are like springs. It is a faseinating theory, and I could construct a leautiful. pieture from the similitude; bat the amlogy breaks down at every: point. For the placenta has not the consistence of a piston; the genital tract is not like an iron cylinder. The pump theory will not work. In fact, the physics of the third stage offer so many pitfalls to the unwary, that a man mould need to know his ground mell hefore tre could 'aceept as a guide either hin or his new hypothesis.
With regard to this question of how the pains act, let me give you two faets:-
(a) That the placental site can diminish to an area of $4 \frac{1}{2}$ in: by 4 in., or until. the uterus las nothing in it but placenta, withont the placenta being separated; (b) that there is no earity in the post-parturn uterus.
These are ficts the demonstration of which you will find in the first pamphlet ${ }^{2}$ pit into your lands this morning. These are facts. Now let me give jou ms riew of the production of separation. You will find it stated in detail in the concluding paragraphs of the third pamphlet. ${ }^{2}$ "Dinimution in area berond that (4 in. hy $4 \frac{1}{2}$ in.) +the action of the uterus as a whole on the phacental mass, I regard as the formal canse; the pains of the third stage as the effecicnt' catise of separation." "The third stage $I$ regard as a second labour in miniat ure. After the pain that expels the cliid comes a pause, during which the placenta is still as a whole or in great part attached; then labour comes on again, and the plaeenta is first detalied and then expelled. This second latiour is not almays marked off by a distinct interval from the first; sometimes onc long pain expels the child, and ther detaches and expels the placenta." Note that it is the "action of the uterus as a whole," not merely "contraction."
3. How are the membranes separated? In one word, hr crumpling up and stripping off. What I am about to deserile is what happens in the Porro utcrus, as we liave not yet seen the process in the normal uterns. When the uterus is emptied of its contents in Porrn's operation the different layers of its walls behave differently. Yon will find the detailed account of how they behare in the second pampluet (page 4). ITere we have only tine to mention that the chorion with decidua is thrown into folds, and

[^28].the decidna tears through, so that a portion of it is left on the miscular mall. In what plane exactly it tears tlorough is of hiotologicalinterest; the pretical point for the obstetrician is to examine the membranes as well as the placenta after delivery, *o see that the decidua has come. Not that, supposing we flnd a portion of it absent, we should think of passing our lianrl into the titerus to remove it; lest in steering clear of the Charybdis of entometritis we might be dashed on the Scylla of septiciemia.
4. How are the placenta and membra nos expelled? Here, again, gentlemen, is a double question: By what power, and in what manner, are the placenta and membrancs born?
A. by what power? And here we must keel, before us the differentiation of the uterus into two parts which occurs in labour. It would take us too much aside to bring forward the anatomieal and physiological proof of this. We must content ourselves (with stating the proposition, that the uterus in labour becomes differentiated into two parts: an upper, which is active and shortens and thickens; and a lower, which is passive, olongates, and thins. A glance at these frozen sections (Sce Figs. 1 and 2 ) of the uterns


Fig. 1.
Frozen Section made inmediately after Delivery $\left(\frac{1}{6}\right)$.
The section shows the pelvis and lower part of the aldonien. The body is in the dorsal posture, with the promontory of the sacrum to the right and helow, and the symphysis pubis to the left and above. The genital canal falls into two portions at the line a (see text). © is on tbe firm, thick, contracted portion; $c$ on a fold of canal below: $v$ on vagina. Note the folding and deubling up of the canal at and below $a_{\text {, }}$ showing its limpness. The small diagram to the left, represeuting the genital tract alone, is intended to make clear the special point.


Fig. 2.
Stratz's Frozen Section made immediatelv after Delivery,
Position of pelvis and letters as in Fig. I. Note the thinness of the walls of of the canal below $a$. The horizontal direction of the vagins (vertical. of course, were the body erect) is abnormal, being due to the fact that the projection of the rickety promontory has kept the uterus high in the abdomen and the walls of the canal below taut.
inmatiately after clelisery shows the difference lotween the firm, contracted, upper protion of tho lmoly, nul the thinner, llabby, lower segment and eervix fobled below it. This proposition is not only of scientille, but of pretienl impertance; it has a wide bearing in pathology, for example, on rupture of the uterus and on placenta previa.
Lowk now the third stage of labour in the light of this proposition. The lower segment, in its passiveness, is more allied to the cervix and vagimathan to the active part of the uterus above it. The genital tract falls intu two parts througha line corresponding to the upper eml of the lower uterino segment ( $a$ in the woodeut). Abve that line the museular wall of the senital tract is able to force on a loely lying in it, while, below, it is unable to do so.

Now for the practical benrins of this. The placenta can be driven out of the upper portion of the nterus by the action of the walls alone, that is, by the pains of the thirl stage. But onee it has possed that lines, some other foree wust operate-either incrense of intratabdominal pressure, gravity, or artificial interferonce.
(a) Incrense of intra-nbiominal pressure is the first force we think of. The pinch of smuff which the old wives gave to bring away the after-birth is quite sonnd treatment. It rests on this scioutitle basis: the pheenta will be born (expelled from the bower sagment, cervix, or ragima) by any aetion of the abdominal museles which sudelenly increnses the intra-abdominal pressure, for example, the forced expiration of sneezing: and there is no mors effective stimulant of the centre for sneezing than snuff. In fact, whatever makes the patient bear down favours the birth of the placenta. in this respeet, the lower segment, cervix and ragina resemble the bladder after delivery, and an interesting paralle might le Irawn twe ween them. May not the alificulty of omptying the bladder post-partum be due, not, as is often said, to the removal of the weight of the pregnant uterus, which allows the bladder to expaut, but to the removal of the volume of the pregnant uterus, which makes it more diffeult for the elongated abdominal nuseles to increase the intra-abdominal pressure sufficienty to force tho urine out of the hladder? The change in intra-abdinainal pressure hy the substitution of a volume of ten cubie inches for one of eighty-three ( 1 estimate the bulk roughly from two frozen seetions I have made of the uterus at the commeneement and at the completion of labour) is considerable, and its effect on the atmlominal circulation and the aetion of the viscern is well worthy of study.
(b) Gravity will be brought into play by the patient's leing made to sit 11 .
(c) Artificial interference brobngs to the management of the third stage, which liee beyom our present pheer. Will you just note in passing that the Dublin metholl assists the natiral mode of oxpulsion: and the Crede nne, also, in ita two parts (first grasping the uterus antern-justeriofly. Than pushing duwnwards in the axit of the pelvis) adapts itself to the two stages of expulsion, carrespunding to the placenta being in the active or passive pordions of the camal.
II. In what manner are the placenta and membranes expelled? "Two viaws have heen lorought forward: one hy Schmize, that it comps fotal surface lirst ; the other ley Satthews lomean, that it romes ellge first. There is no toubt that it comes nut in both thase ways. Hy nwn obarvations. recorded in the third wanphlet, make me believe that Duncan's way is the more frefuent: fut wo mus remember that the prosence of the hand in the utwre will favour tist mode. Champneys has recontly made at mueh more extemsise series of observations on this point ; and
 part was either the edge or within twis inchea of it.
5. What is the natural molle of stomping blowding from the phacental site: Though this is a guestion of the mone immediate prantical importame, involving offon directly the life of the mother, it has not bern sperially invertigateci. We know that atrong contractions stop, beeding-a wrickit-hall utwrus and postparhum hemorrage are incompatible-hut how they omarati we to not know. The 'fuestion is a more eompliented onte than Mprears at the first glance. Win know of at lenat thron factors which operate: the change in tha museular wall of the uterus in uterisuc contraction and retraction ; thrombnais within the vassels, which neenrs "spuntanously" "ren before scpart tion of the placenta begios, and is a very ionprtant factor during and after tha third stage: the enntition of the honol itself. All of the:e musi be takin into ncomult, atul their action is diferent; the
first compreases the vessels, the second ehokes the channel, the third is subordinate to the second. l'ree bleeding from a firmly cont raeted uterus, noted in a chse of phosphorus poisoning, shows. I think, that this last has nu important, though as yet unrocognised, action.

# TIIE MANAGEMENT OF ANTERIOR AND POSTLRIOR DISPLACEMENTS OF THE UTERUS. ${ }^{1}$ 

By J. HALLIDAY CROOM, M.D., F.R.C.S.F.,<br>Plysichan to, and Cluical Lecturer on Diseases of Women, Ioyal Intirmary,<br>Edinturgh.

I An fully alive to the responsibility which onyone incura in venturing to lay down definite lines of treatment concerning anterior and posterior displacements of the uterus, for I believe I am safe in saying that upon, no subjeet in gynaeology has greater diversity of opinion existed, and upon none have more opinions been expressed with equal confidence. This subject has been the bone of contention between different schools of gynxcology for many yuars. That this should he the case is easy of explanation, and that for various reasons: 1. Because many teachers and practitioners have regarded the conditions as merely mechanical, and direeted their treatment accordingly ; 2. Others have considered the conditions as the result of inflammatory action, and their treatment has been in strict necordance with their views: 3. Others, perhaps the largest class of all, have regarded symptoms alone, and treated the conditions empirically; 4. It must be further kept in view how frequent are deviations in the position of the uterus, and how prone we are to seize any seemingly pathological condition as an explanation of spmptoms and to treat it vigorously when the condition is all the time only a coincidence, not a cause.

Sow, in venturing to offer to you a sketch of the treatment of the displacements under consideration. I would have it clearly understood that anterior and posterior displacements occur in two great groups:

1. Displacements in sirgins or milipare.
2. Displacements in parous women.

In regard to the first clnss 1 an inclined to look upon them, speaking generally, as being congenital conditions; the anteflexion Teing in the dircetion of non-development, and the retroflexion in the direction of deformity. These conditions in virgins are not infreyuentls associated with discased conditions of the annexa, and when thry are it is the inflammatory condition of the anuexa which reguires treatment, and not the congenital deformity or non-devrlopment. A well-marked illustration of this came under my ohscration lately when a patient had for eight cears been umber treatment with pessaries for an anteflexed undeveloped uterus. Har distress whs so great and persistent that I removed the ovaries, which were extensively diseased, and the woman has had comfort ever since, the uterus still remaining antellexed. The progress which gynecolegy has made in recent years in mivnacing onr knowletge of the uterine aunexa has shown conclusively that many cases of pain and dysmenorthon which were formerly uttrifuted to uterine displacements are due entirely to conditions of the owaries and tubes independently of a concurrent displacement which may mean nothiag. Deviations in the pesition of the utcrus of minn degree give rise in the single woman to no symptoms, and require, therefore, no treatnent. Markel rersions uncompliented with some pathological condition, such as a filmod, are rure in single women, and when uncomplirated give rise to wery slight symptoms, and nead no mechanical interference. When the thexion bnckward or forward is very acute, 1 do not deny that it may be associated with severe dysmenorrhan. Liven armitting that these displacements in virgins give rise to some discomfort. What treatment is at our disposal? Finginal pessaries are seldom if ever curative, and intra-literine pessaries are surrounded with such risk in tho direction of inflammation, hamatocele, and ovaritis, that so far as I am enncerned 1 have disearderl thrir mae altogether. lat it le distinetly underatooll that I by no means wish to sny that, in the latads of an

[^29]
experienced gynecologist, there are not cases, especially of retroflexion in virgins, in which the pressure symptoms from lypertrophy and enlargement are to be remedied in no other way than by stem pessaries, hut these cases are, so far as my experiexperience goes, extremely few, and do not fail to be discussed in a general view of the case. It is only fair to say that intra-nterine stem pessaries have within my knowledge, in some exceptional cases, rendered benefit ; but on looking back over an experience of nearly twenty years 1 mean to say that 1 have known them do more harm than good, and as a teacher of gynecology 1 have found it my duty to warn students and practitioners agaiust their use.
But the question naturally arises as to the cure of dysmenorrhoea, which unquestionably is often associated with, although not necessarily dependent on, these displacements. Is no mechanical treatment to be adopted? Now, upon this point there seems to be too great a tendency to local interference for dysmenorrloca in virgins. I should withhold local treatment altogether unless its severity be such that, after all ather means failed, it interferes with a rich woman's social engagements or a poor woman's means of livelihood, for it must alwars be kept in view that dysmenorrhea is but a relative term. When, however, local examination and treatment become necessary, then vaginal pessaries are of little avail, and intra-uterine stem pessaries are unsafe. Dilatation of the cervix with a dilator bougie or an accasional passage of the sound, with the persistent use of the hot raginal douche, will often effect a cure both effectively and safely. Here 1 must enter a caveat against the indiscriminate tise of the sound and dilators, unless accompanied by careful precautions; and these are (1) that there be no recent or remote peri-uterine inflammation; (2) that the greatest care be taken as to the perfect cleanliness of the instrument.
Much as we owe to the sound, yet I feel sure that its indiscriminate and routine use has been a fertile source of uterine mischief.
In a word, then, in unmarried women and nullipare, with some exceptions too few to affect the general statement (the conditions being usually congenital), vaginal pessaries are of no avail, and intra-nterine are always dangerous and usually hurtful. When aggravated dysmenorrioe is concurrent with a simple displace-
ment, then the nse of a sonnd, bougie, or dilator, along with hot water, will often cffect a cure. If there be the least pathological condition to be found in the annera, there should be no mechanical treatment, but only the hot douche.
With regard to parous women, the case stands differently. In them, unlike the others, the displacements are usually, if not always, acquired. In the case of antellexion and anteversion, which in parous women are so often induced by various forms of peri- and parametritis, and hy inflammation of the utero-sacral ligaments specially, mechanical trentment in the shape of pessaries is seldom indicated. The sphere for anteversion and anteflexion pessaries in parous women-if, indeed, they have a sphere at all-must be when the displacement does not depend upon any inflammatory condition ontside the uterus, but is solely due to an increase in its weight. Fren in such cases, which are rare, the tronble and annoyance to both physician and patient attending their use is more than suflicient to outweigh their temporary comfort. Of stem pessaries in forward displacements of the uterus in parous women, 1 have no experience, and I have yet to see the case in which 1 consider their use desirable. The majority of these anterior displacements give rise to very unimportant symptoms. When they do, the symptoms are due to some inflammatory products outside the nterus, and the treatment is to be directed to its removal (1) by the hot vaginal douche; (2) by blisters; (3) ly iodine applied to the vaginal roof : and (4) by small doses of iodide of potassinm and perchloride of mereury internally: Sometimes a soft glycerine ring pessary, by relieving tension and elevating, may do good, but as a rule even this is contra-indicated.
Coming now to posterior displacements in parous women, namely, retruversion and retrollexion, we are hound to recognise the fact that they are specially prone to arise mechanically. This will appear ohvious if we consider the freguency with which these conditions oceur after pregnancy as a result of im perfect iuvolution, dorsal decubitus, increase in weight, and too e trly rising.
The origin of these parous posterior displacements being usually, though not always, mechanical, and the symptoms to which they give rise, such as sterility, leucorrloea, menorraugia,
and pressure, to a greater or leaser extent heing well reoognised, their treatment must be mainly based on mechanieal principles.
I. 'Ione must he given to the uterus by the use of ergot and hot-watir douching.
2 . The uterus must be carefully adjusted in one of several ways: (a) hy pressing up the fundus; ( $b$ ) ly pressing back the cervix; (e) liy the genu-pectoral position; (d) by dragging down the lip of the cervix with a volsella; and lastly, by the found. In any case, accurate and careful reposition of the uterns in any of the ways I have mentioned is essential. J place the sonnd last because I really think that the bimanual replacement of the uterus is the safest and most thorough, and because the introduction of any body into the carum uteri is always to be avoided when practicable.
3. The uterus must be retained in position by a plessary,.. In the case of a well-marked retrorersion, a well-adjusted Hodge, or some of its many modifications, will be found to act efficiently, whereas in the case of a Trell-marked retroflexion the ordinary, ring pessary will act better than the Iodge. The Hodge in such' circumstances is inapplicable becanse of the difficulty of adjusting it so as to act with much advantage on the fundus, and it is apt to get into the sulcus betreen the cervix and uterns, and 60 aggrarate the condition it was intended to cure. In such cases the ordinary ring pessary, by elevating the whole uterus, will give most jelief.
In some aggravated cases of acute flexion with hypertrophy, stem pessaries may, under exceptional circimstances, be required, but this must always be regarded as a dernier ressort.
In that class of cases-which is exceedingly frequent-wher there is some degree of flexion and yersion combined, the Hodge will most frequently meet the requirements of the case. Shonld there be any adhesions or any orarian prolapse the soft indiarubber glycerine ring will be most generally serviceable.

Dr. Lombe Atturll expressed his disbelief in anteflexion as a disease, or even as a condition dermanding treatment. If it accurred in connection with dysmenorrhcea in a multiparous woman, and depended on uterine causes, those causes would generally be found to be a conical cervix and a contracted cervical canal. The virgin uterus being naturally anteflexed, pessaries in such cases were useless, and stems most objectionable. Cases of retroflexion were always acquired, and in many of them a pessary, such as a Jodge, was very useful, and a great aid in curative treatment, but it must never be looked on as being itself curntive; in some cases the retroflexed fundus pressed against the rectum, and interfered with defacation. In these a well-adjusted pessary often gave marked relief: but the mere fact of the uterus being retroflcsed, provided that it caused no discomfort or symptom, did not necessarily demand treatment.-Dr. Jarnes said Dr. Halliday Croom objected to llodge's pessary in extreme retroffexion, because it got. between the cervix and the retroflexed bodr, and resorted to the ring pessary. Now he (the speaker) contended that all depended upon a projer choice of pessary. The true idea of a good pessary was Hodge's; it must act as a lever, and, therefore, the uterus must be movable, and the pessary must more witl it. forming, as it were, part of it; and for this it must be well adapted to the particular case. The ring pessary had become to him an abomination; it stretched the ragina, weakened the natural supports of the uterus. and thus left the patient worse than before. On the other hand, by first reducing the uterus, the patient lying on her hands, a gentle touch of the finger would push the fundus over to the left side of the promontory, where it would easily rise to its position, and then a glycerine-pad pessary passed in would keep the fundus from falling hack. Jr. Barnes believed that cases of distress from anteflexion were quite rare, and he had seen good from Graily Hewitt's cradle pessary. hat great eare was required in adapting the pessary to the case. With reference to the statement that, before applying a pessary. you must reduce the congestion or swelling of the uterus, that was attempting what could not be done. The removal of enngestion depended on keeping the uterus in situ. All depended upon judgment in selecting the pessary--13r. John A. Brane said that whilst he had learned a great deal from Dr. liarnes, he could not agree with him about the non-necessity of previously roplacing the uterns. (Dr. Barnes here explained that he did not mean to assert this.) lle (the spenker) had a good deal of experience of userine affections, and he was of apinion that retro-displacements were rery frequent, whilst anterior displacements were extremely
rafe No foult this displatement whi sometimes ohserverd in thate oases where the uterus anm ajりemdayes wero bomml down loy ohd intatumatory problucts; hut as un originully ahormal displacement, it was in his mpinion extremely rare, llo cunda mot aptee with 1)r. Jthill, erpen in rases where a retroversion or hloxiou was nliservent, and where ho argent symptoms were manifosterl, that slill hes shumd not attempt rrplatement; the reposition ard retention couhl not boy uny posibility do any harm. We should lo all in unt gover to remove day ligperplastic utarine contition, alchongls he was of opinion that (on) much Ampertance was attachent to this so-called metritis; and in un organ like the uterus wa should exjuect that there must be ocasionally engorgoment
 doal of oxngogeration un this subject. He entertuined a very strong objection to the use of the sem jessury. There was one circumatance that oceasiomatly accompanied retrombisplacemont, mamoly, sterility; when in comsequence of the curvapure the woman dinl not eonceive, the replacement hul in his liands been atteaded by the most heneficial results.Dr. Mons: Maneren suit the importance of Jexiens in relation to the causation of sterility was a suljeect brought daily under his obgervation, and ont which could unt be tou strongly insisted on ; for in the great majority of cases of sterility and ilysmenorrhoe, whether there was stenosis of the cervical caunl or not, he was tirmly convincell that any operative treatment wonld generally he useless untes the coexisting displacement or flexion were at the same time remedied, as either might be hy a properly adjusted, woll-litting lloago lever peessary.-1)r. Willaam Dundas said it always secmad to him remarkable that, when gynacologists discusseld uteride lisplacements, some considered all cases required mechanical treatment, and others dejprecated any treatmeat whatcever. Ur. Hancan, whilst wlmitting that cases sometimes refuirod local truatment, evosidered the majority of easer of velsions or flexions 'auset per se 110 trouble, and required no treatment. He thanhit that it was lma proctice to introduce a vaginal or stem pessury un any casc of antetloxion, but that the raising up of the uterns in the pelvic casity by a Hudge or ring pessary in cases of backward displacement relicverl the circulation in the uterinu and ovarian veins, and thus did goon. He did not believe that a pessury ever curud a version or llexion. Ile thought that a cravo responsibility restud on tuachers wha practised and adrised tho fromuent use of pessaries in the trentment of versions aud lfaxions,-Dr. Routil said no one woukl think of treating a case which had no symptoms. I'atients came to us when they lad suvere symptoms which required treating; but evon here pessaries wore not nlways to bo nt once njulied. simple messures, such as local depletion, purgatives, ete., should llrst be tried; if these failod, theo pessuries might be tricd. As to stem jessuries, they were condemned mostly by those who had never used them, or ouly to \& very small exkent. If proper measures were taken at first Loprevent inflammatory complications, and tho stem pessaries wore not' too long, and rest were insisted on for some days after their
 wortu endorsal Dr. Barnes's remarks upon the inuportatace of tha mechanieal treabment of uterine displacement. and bare testimony to the value nlso of the stem pessary, and particularly to that form invented ley 1br. Gorton Blatis, of Harrognte. He hall used this in two casis, whieh liad only beeh parti:lly relievent with Houge's pessaries, but which were rapidly relicved by this forin of stem.-Dr, H. (Asnimus said casod of clisplacuminat that not remain as whon first met with, bit "went on from bad to worse unless properly trented. Ile woulil also likn to state that satisfactory results hal been whtaines in filasmew from shordening of the roumb ligumonts, the useiof the tampon. and lot-watur injections. He has every ennfulence in the usn of juessaries.-br. W. I. SMyty said the uterus wns muiutnined in position by intra-abmominal prossure, but its displucembut was jreventerl by the lignonents. When the later were subinvoluted, then they enuld not perform the ir functions when the utumas was roplaciol, so that the intestines eame to progs ujon the pasteriar surfac": a Hodegosa perssury, by practically shortening the utero-sacal ligampots, wimald prevent iff displacement. When the utems was in position, and tho pessary acting Irruncrly: the fundus whs nbont three inches remadel from the ghasterior lara and therefore to speak of supurorting the fundas was erroneons, ame to invint soft jessaries fitfol with glyeerine, an as nut to hurt it when tunder was unthecesserj. - I'rofesgor A. Wismach suill he agreed almont entirdy with Jor. Mallidzy Cronm's raethods of treatment., There

Whs nne plan which hut nut been noticendmamely, tho use of lampans, which wero first used ly Marion Sims. lliese were marle by saturating coton-wool with glyeerine, which might be medicated by various substances, as astringents, untiseptice, etc. lle had used this method for many sears as a proliminary to tho usu of a pessary. The jessary which le always used for cases of postorior displacement yequiring mechanieal support was the Albert Smith's morlification of Horge's, uade of soft, pliable metal whiel conld bo bent and fitted according to the requirtments of the indivialual case- Dr. J. Wallalof (Liverpool) refurred to the dificulty of discussing this large subject in the short time permitted. As a teacher and practitioner he had beon guided by certain principles. First, the pathological conditions, mud sceondly the mechanical, were to be olserved and treated as stated seriatim. But nu ense could be seitutifieally put under treatment unless its etiology as well as its morbid conditions, pathological as well as mechinical, were determined. In virgins displacements were often produced lyy straining at stool, by prolonged standing, as in shop girls, schoolmistrussos, and in lurlies who followed fashion in tight lacing, dancing to excess, and a relaxed muscular system and health generally. Anteflexion of cervix, the os uteri pointing forward to the pubes, slight procidentia of the body of the uterus, and retroversion of tho fundus uteri, often retrollexion-in short, tho sigmoid nterus. This form did not always give rise to symptoms, but they came at last, local or reflex, and reguired trentment. These might bu cured by constitutional and local treatment without pessaries. In married momen with sterility, postorion section of cervix would frequently cure. In women who had had numerous children in a few years, sub-involution of the uterus and of the Fillopian tubes and ligaments, with discased comlitions of the endometrium, was common. Dr. Wallace drew particular attention to the open Hallopian tubes, which he had found to be almost the rule in these prostpartum cases of displacement. Engorgement might depend upon Hexion, but he felt sure it arose from displacement. Local treatment such as the hot douclo, applieations to the cervix according to the intensity of the morbid conditions, and sedative pessaries Wonld relieve the local tenderness, after which a pessary udjusted to the requirements of the individunl case might be safely placed. He confessed that hewas surprised at tho statement that pessaries did not cure. They certainls did, provilled tho pathological conditions were also mured.-IIr. GRIGG stated he quite agreed with all that fell from Dr. Wallace and Dr. Smyly with reference to the important function the ligaments performed in relation to the retention of the uterus in its proper position, and instanced cases of primiparous womon, whose nteri were perfectly normal antecedent to prognancy, remvering from the puerperimen with retroversion, eonpled with the leseent of the whole pelvic organs. With regard to Ifr: Wallace's statement that he eould miss a utorine sound throngh the Fiallopian tubes sliorlly after delivery, this Dr. Grigg controverted, anl stated he had nevir suceeeded in joasing even a prohe through the Fallopian tutie in the eadaver of women confined within a few hours to three or four weoks.

## THE DIAGNOSIS AND TREATMEN'I OF

## DISEASES OF THE ENDOMETRIUM. ${ }^{1}$

BY W. J. SMYLY, M.D.,
Gynaculogist to the City of Dublia Hospitat.
I KNow of one method only by which the dispases of the uterime mucons mentrane can be diagrosen with accuracy, amd that is by the microscopice exmmation of portions removerl by means of the curefle. In the mulority of cases a faidy correct dingnosis may Ins: arrived at withont resuming to the niternseope, hat not with certainty. When, for example, amedium-sigerl curette can ensily phes into the nterus, iml is there foumd to be fromy movable in an enlared eavity, aml over a soft und velvety but irregnlar surfaco: aml when its colting edge is used long strijs of hyperjhastic membroue come awny, we sloulal jrobably le correct in supposing the case to los one of fungous enclomel ritis, but it might low one in which the deeidna dmal be'n retained, or a simple or naslignant adenoma: for the nupearnuces of these to tho nakex rye. jresent a very close respuhbnee to ench other, hat microsmpieally they differ very willely. Should ouly a few small sherves of

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thin membrane be obtained, twen after very vigorous scraping, we beliere the ease to he onv of atrophy, but conld not tell to what variety of this condition it appertained. Suall, friable, whitish particles are strongly suggestive of cancer, but even then the microscope will be necessury: and lere we meet witl the most important, and often I believe the most diffenlt, problem, namely, to determine with certainty from specimens obtained the matlignancy of the disense. 1 must confess that I never liave done this myself, but I do not think that during tho four years since I have adopted this method such a case las come under my care. It has, however, been done by others; the uterus excised in consequence, and the diagnosis confirmed by the subsequent examination of the specimens obtained, and it is a very remarkable fact that, considering liow few are the recorded cases of malignant discase limited to the body of the uterus, so many as elesen should have been diagnosed during the last seven years by a single individual, namely, Dr. J. Yeit, of Berlin. This is to my mind strongly suggestive of the belief that a large proportion of such cases are not detected until after the disease las involved the cervix or the meighbouring organs, because of imperfection in the methods of diagnosis usually employed; and that were the curette and microscope used more systematically, we should more often succeed in discovering this terrible malady at a time when its removal would offer a reasonable prospect of permanent relief.

This methed of diagnosis Was introduced by Réamier about forty years ago, and it is from it that most of our knowledge of the diseases of the uterine mucous membrane has been derived. He derised the curette by means of mhich he removed "fongosités" or regetations, and subsequently applied some caustic to the denuded surface. The particles removed were examined microscopically by Robin, who gave a very exact description of their structure, corresponding with what is now generaliy known as fungous endometrit is. De Sinéty and Ruge have distinguished in the same Wry three distinct forms of endometritis, according to the relative development of the glamds and inter-glandular tissue: but as all these forms may occur simultaneously in the same aterns, this division appears to be rather too artificial. If, however, Martin's opinion that the more the glandular derelopment predominates, the more liable is the disease to assume a malignant character, and Wyder's that the more the interstitial tissue is developed. the greater is the lamorrlage, prove to be correct, then it will be a very important one.

Retention of the decidua after abortion is one of the commonest affections of the uterine mucous membrane. When examined microscopically it contrasts very strongly with funcous endometritis, owing to the absence of glands, and it will. J believe, always be found in a state of inflammation. Whether this is the cause or the result of its retention, I am unable to say; but, in either case, it indicates the advantage of its early removal. Of the atrophic furms of endmmetritis, two appear to me of especial interest-first, that deseribed by Schroeder as dysuenorrhoal endometritis, in which there is a dewlopment of the inter-glandular tissue leading to the obliteration of the glands themselves, and a subsequent cirrhesis or atrophy of the membrane; and secondly, a condition leseribed by Zeller as " psoriasis uterina," in which the uterine cavity is lined with scaly epithelium. I mention these forms especially, because it was by the microscopical examination of particles obtained by means of the eurette that they were discovered. The curette and microscope are accordingly most efficient means of thagnosis, but their use is, in this country at least. generally regurded as advisable in exceptional cases only, and after the ordinary methods, by means of the sound and introduction of the finger after tilatation of the cervix, have fuilet. Now, as regards the latter metled, it is not only more painful. and involves greater risk to the patient and a much greater expenditure of tine on the part of the practitioner than curetting. but. what is of mere consequence, it seldom yields mueh useful information. Only gros pathological changes can be distinguished by the finger, and in proof of this I would refer you to the writings of those who practise either method exchusively. There you will find that by those who advocate the curette and microscope not only are definite patholoyical conditions described and figured, but there is a remarkable unanimity in their opinions as to the nature of those conditions, whilst amongst those who do not employ then we find such vague and unsatisfactory terms as "gramular conditions," "pulpy states, "irritable membranes," etc., expressing not the nature of the conditions present, but only the impressions which they conveyed to
their fingers; whilst in such conditions as are not palpable in this way only two courses are open to them, vithur to deny their existence altogetlier, or use some indefinite term such as "intranterine disease," without any attempt to deline it more exactly: Let me quote an example Irom the work of such an eminent yynacologist as Dr. Émmet, who speaks of the curette as "an instrument which has proved a most objectionable one:" and as regards the instrument of Dr. Sims, "he honestly believes that the ingenuity of man has never devised one capable of doing more injury." Ilis knowledge, therefore, we may assume, has not been flerived from the use of this instrument. Ile mentions four forms of disease to which the uterine mucous membrane is liable. First, a form of disease usually the result of preguancy, and characterised by hamorrhage, which, he says, "is common but little understood, microscopists not having, to jis linowledge, fully investigated the subject;" a second condition is frequently met with, "which some writer has cempared to gramular comjunctivitis;" and a third "resembles the pile of velvet, and when floated in water it seems to consist of prolongations of blood-ressels from the muscular tissue;" and lastly; "a thickened condition of the membrane, which could be easily detached in long strips like the skin which has been scalded, and is blanched in appearance." Now I would peint out that in not one of these cases is the real nature of the disease described. In the first he says it is unknown, the second is like granular lids, the third like velvet, and the fourth like scalded skin; but what we want to know is, not what a tisease is like, but what it is. What should we think of an oculist who described granular ophthalmia as a disease resembling decidual endometritis? I hase selected Dr. Emmet's work in order toshow that no matter how brilliant and obsersant a man may be, ignorance and confusion must result from the rejection of the only seurce of knowledge.

In spite of the obvious advantages of the curette as a means of diagnesis, its adrance towards general accertance has been but slow. Récamier's results were very brilliant, and although he perforated the uterus in a few cases, J beliere that no evil resulted therefrom, llowerer, its introduction met witli such a storm of opposition that, in spite of the advocacy of Sir James Simpson, Olshausen, Marion Sims, and otbers, it made but little way until about four years ago, when a revalsion of feeling in its favour oceurred. Certain hangers naturally suggested themselves as likely to follow its use, and especially that the mucous membrane having been thoroughly removel, it would be replaced by cicatricial tissue, and thus sterility would result. Reasoning from analogy we should expect this to accur, bint analogy does not hold good in this instauce. The uterine mucous membrane differs from every other in its rapid and complete regeneration, as was clearly proved by Dr. Jartin, of Berlin, and his assistant Dr. Düvelins, and it was the pululication of the investigation of this subject by the latter which marked the epoch to which I have already referred, since which this method of diagnosis and treatment lias rapidly gained in popularity. The most remarkable eases recorded by 1r. Nartin, were those of two women who had been repeatedly curetted and cauterised for adenoma of the mucous membrane; but were at last reduced to such an anemie condition that as a last resource the uterns was remored. In one of these cases the last scraping took place two months, in the other four monthe, previously. The mieroscopic examination of the organs after extimation showed that the newly developed membrane was related to the muscular and intermuscular connective tissue in the usual manner, nor was a cieatrix to be found anywhere in the mucous membrane, or between it and the muscle. Theoretically there is no renson why pregnancy should be interfered with, but on the contrary it sheuld rather be favoured by the renoval of a diseased membraue, and its replacement by another which we have every reason to hope may prove a lealthy one. Fow as a matter of experience this has been fomm to be tho case. Dr. Divelius found that out of the patients operated upon by Dr, Jartin and himself hetween lsi! and I883, to were known to have subsequently beenme premmant, and of my own cases 1 know of six, but as l conkl not trace all my pationts, the number is probably greater. It is therefore evident that, no matter how thoronghly the curetting nay be carried out, the membrane will he regeuerated. that this new mombrane is not cieatricial in structure, and that the operation favours rather than hinders the occurrence of pregnancy.

Let us now consider the treatment of fllese diseases. The chivf indicationo are, first in remove the dietnsed membrane
as completely as possible, and then endeavour to induce a healthy growth in the new one. These two indicutions are hest fulthilat by the nse of the curette, and by subsequent injections of strong solution of indine or ionlised plenel. Why should we sperml months and yeurs in raking ujplicatinns to a membrane which may he removed in a fers minutes, with the certainty of its being spectily replaced ly at least as goml, hut prolnably a better one? That the new membrume may be disersed is trut: lint this ohjection will apply to every form of treatment, and speraking generally we may say that the snecess which has attented myy therupeutic agent has been in direct proportion to its pwwer if destroying the dispased mombrane. This explains to us the marked henetit derivel from the nae of pmerful cansties, especially the fuming nitric acil. In Dublin we have had remarkable success with this agent, but it is inferine to the eurette in three ways I. It necessitates previons dilatation of the cervix. $\because$ Its action is rendered uncertain by hemorrhage and other discharges. 3. It destroys the tissues upon which we depend for diagnosis. 315 present practice is to enrette in every ense of disease atfecting solely or chietly the uterine mucous membrane, which loes not yield to attention to general healt h, donching ansl astringents, and 1 can strongly recommend it in others as having the following advantages, which I may briefly recapitulate. (1). It is eflicacious both as a dingnostic any as a therapeutic ascent : and (2) its emploment is safer and simpler than any methol which involves the dilatation of the carvix.

## ON MARTLN'S METHOD OF DEALING WITH

THE PLACENTA AND SAC IN LAPAROTOMY FOR EXTRA-UTERDNE PREGNANCT.

## By BRNEST AN゙N.ACKER, M.D.Berlex, M.R.C.S.,

House-Surgeon aud Reskient Obstctric As-istant-Surgeon to St. Mary"s Hospital, Manchoster.
0)SP of thr most interestiner guestions in connection with the treatment of alvan ed extra-aterine fatation by laparotomy is the method of yrgcedure in regarl to the placenta, upon which the failure or success of the operation is believed largely to depend. My nbject in this paper is to druw attention to the plan proposed, and successfully adopted by Ur. A. Martin. of Derlin, accorling to whieh it beemmes possible to remove the placenta with the fertus, at any period after its formation, without any gerions risk of hmmorriage.
Most refont writers on this subject, including Thomas, Jlicks, Barnes, Kielrelk, and 'Thit, are agreed that the jilacenta should in most cases be luft behind on account nf the severe hamorrlage which frequently attends ita removal, instances boing indeed very numerous where death has resulted from this cause. That it is a phint on which the experience of eompetent nbservers differs very widely may be gathered from the faet that Schrnetler removed the pilarenta as farly as three werks after the ileath of the fertus withont ndprencing any untoward result, while bepral, on the other hand. removing the organ four months after the activity of the placental cireulation hail had time th diminish ly rensum of the ileath of the fretus, hate the misfortume to lose his patient from hamorrlage. This is a by no means inolated experiente.

The fisadvantages of leaving the placenta belaind are (1) the tedious an'l protrated ennralesennce; (2) the danger of thath from hectie and exhaustion nwing to long-enutimued suppration of the sar and its eontents during the joncess of disintegration and thewine off ; (3) the possilifity of seenndary hemorriage anch as oceurect, for example, in a ense relatoil by braxtom Jlicks.
l'arry. of Philarlelphia, writing in the yerr lafio, states that the frequency of secombar hemorrhage ufter spontameots smaration of the plisenta, as enimpared with that after its forcible separation. is as note in five.
Most anthorities are acremb that the negan may lap sufely removed some manths ufter the dath of the fothes, when the vesana traversing the blampa have ut rnphied ame contracteal, the vennus sinuses laving lereme thrombined, and the whole organ very much diminished in sien : but ir was rwaerved for br. Martin to ipeve a means ly which the placemtangy be remowel at any feriod with hardly any greator risk of hmmorrhage than attends an ovarintomy or an extipation of the uterue.

The reasors which leel Dr. Martin to work at this suloject nay he given in his own words, quoted from a communicution rend before the International Detieal Congress hele] at London in 1883. Jfe says: "It is, however, milent to all that convalescence is considerably endangered by this jrocedure (avoidnace of the placental site) for evon if the sac, as such, were closed, and the diligent irrigation of the sac should jrevent stagmation of the secretions in the cavity, still it is clear that the reenvery is thus retarded greatly, and the patient liable to such dangers as acenmpany the processes, even with strictest mutisptie precautions." He aeknowledges that the ligature of separate bleding points on the placental site is not frasihle, but by ligature om masse "large bleeding surfaces can he tied quickly and safely, so that we ned not fear secondary danger from the hæmorrhage."
It might be objected that the placenta may he fixed to the intestines, or some part from which it is irremovable; but to this Mart in replies that it is more of theoretical than practical importance: not that he denies the pnssibility of its oceurrence, hut, not having met with a single ease of this mature in eighteen laparotomies for extra-uterine foctation, he comes to the conclusinn that, in discussing the question hroadly, ton much stress must not be laid on these rare and exceptional cases, in which, if nccessary; and if the placenta canmet he removed without danger of fataf hemorrhage, it may be left in sitz and allowed to disintegrate.

I had the privilege of being present at the operation on the folInwing case of Dr. Martin's, in which the successfitl remoral of the placenta, which I wish to emplasise, is well illustrated, as well as the method of trenting the fac by partial resection, a proredure generally emplayed hy Dr. Martin in these cases. For the notes of the case 1 nm indebted to Dr. Czcmpin, house surgeon at Dr. Martin's clinic.
The patient was a married woman, and sterile up to last March. Since that time she had complained of pain in the hypogastrium, especially on the left side. She had menstruated regularly for fourteen years; but in March, after menstruating at the commencement of the montl, there was again some loss a fortnight later, while throughout the whole of April she did not menstruate at all. In May there was slight hamorrhago on two occasions, but none hetween that time and her admission to the hospital in July:
The ragina was fairly capacious; the cervix behind the symphysis pubis; the body of the uterus was slinrt, and behind the interus a tumour, rather larger than a man's fist, was felt on the left side, and diagnosed as tubo-ovarian.
On July 7 th the operation for removal of the tumonr was undertaken. Chloroform was administered, and the abdomen ojened ly an incision four inches long in the middle line, when thet peritoneal eavity was found full of recent and old bood-clot-the tumour having evidmently hurst. The intestines were sprcad out on the wall of the abolomen, and envered with a damp cloth, after which the clots were rasily removed frnm the pelvie cavity with sponges. To the left side of and hehind the uterus wos scated a tumour corresponding to the one folt on examination; on attempting to loosen the latter from its comections a rent oceurred in the anterior wall, and through it a four-month-old fortus and some hinod-clots reaped. The feetus was still uttached hy the umbilical eord to the placenta, which remained in the cyst. Introducing the hand into the cyst it was possible to remave the whole placenta withont any severe hermorrhage. A harge portiont of the sac was next resected, and the remainilor stitched ogetherwith cont immons catgut suture, after introducing a clrainage-tule through the pouch of Jomglas into the vagina, so as to shut off the anc as much as pinssible from the ablominal cavity. The aljdnminal wall was then united by silk sutures. The operation lasted eighteen minutes. The patient recovernd withont a bat sympom, the tomperature newer rising ahove $3 x^{2} .2^{\circ} \mathrm{C}$. The tube wha removed om the thirtenth day after the operation, and on the sixternth day the patient left the hospital comvalescent.

In another case upmo whieh Dr. Martin nperated at the end of the sixth month of jregmaney, the placenta was seatem upon the anterine wall of the sae, which was formed by the back wall of the uteris and the left interas ligament. After the removal of the fortus homorrhage tonk place in spurts, quickly lilling the sac. As sonn as Dr. Martin recognised the nature of the casp he eut off the eommunieation with the utems leve three decp sntures, carriof by meatis of eurved needles through the broal ligaments, and emliracing the left side of the aterus. The phacenta was then removed anel found to be wery friahle, but entire; mo homorrhage fullowed its removal. The ear was treated hy resection, and the
operation was concluded in an hour and ia quarter. The patient made a perfect and speedy recovery.

The'method of dealing with the sac of an extra-uterine fostation employed by Dr. Martin is different from that of many operators. Instead of stitching the sac to the ahdomind incision, he remores as much of the walls' as possible, drains through thie pouch 'of Douglas into the vagina, and unites the edges together at the highest part of the sae, thus bcing eviabled to elose the abdominal wound entirely: By this means healing by first intention is possible, drainage is obtained through the most dependent portion of the sac, and recovery is much more speedy.

During the last six months I had an opportunity of examining a patient on whom Dr. Martin lad operated some months previously for extra-uterine pregnancy in the manner here described. The 'uterus was fairly molnle, and the only remains of the patient's abnormal burden was a thickened cicatricial band, about the size of the little finger, extending backwards from the cervix, on the left side of the uterus.

Three years ago Dr. Martin described his method in a paper read beforo the Copenhagen Congress, but it was the opinion of Werth and most of the authorities present that time was needed to test its efficiency.
Dr. Martin has now had nearly twenty cases in which he has put in practice his method of dealing with the placenta and the sac, and he considers that the results quite justify him in maintaining its superiority over the methods hitherto in rogie.

## ABSTRACT OF . AN ADDRESS <br> THE RELATIONS OF GYN ECOLOGY TO GENERAL THERAPEUTICS.

## Delivered before the British Gynacological Society. By ARTHUR W. EDIS, M.D., F.R.C.P.

President of the Society: Obstetric Physician to the Middlesex Hospital ; Physician to the Chelsea Hospital for Women.

After thanking the Fellows most cordially and sincerely for the honour they had conferred upon him, the President procecded to make a few suggestions as to the objects of the Society.
He drew attention to the importance of aroiding the error of cultivating this specialism to the exclusion of a more general consideration of the subject, asserting that a specialist, in the only true sense of the word, was one who was a good all round surgeon and physician, and something besides-one who pail special attention to the study of gynecology, and who consequently attained superior knowledge of it, and possessed greater skill in dealing with it.

Ile referred to the narrow riews of specialism held by some, whose opportunities of studying disease from a general staudpoint should guard them from that fallacy, citing instances of monorrhagia, which, withont sufficiently inquiring into the probable causes, and endeavouring to ascertain the conditions which led up to this result, the practitioner was too apt to treat empirically by some aceredited formula, such as sulphuric or gallic acid, ergot, or hazeline.
Stress was laid on the importance of ascertaining the condition of the heart, liver, kidners, and other organs, so that we should not overlook the existence of some mitral incapacity, hepatic congestion, or renal degeneration which possibly might account for the menorrhagia, and necessitate general in place of locat treatment. A few grains of calomel, some saline aperient, abstention from alcohol, and attention to simple hygienic details often proved of more service in checking any inordinate menstrual flow than the most elaborate prescription for uterine hæmorrhage.
So with dysmenorrlica. which was but a symptom of many and varions conditions, not only of the nterus and its so-called appendages, but also of the general health. In place of gravely recommending patients to submit to some surgical operation for the relief of pain, all that was necessary, in many instances, was to relieve the anmmia, duo often to imperfect nutrition, improper clothing, and neglect of ordinary hygienic precautions.

The tendency of gynecology for many years past had been to advance in a surgical direction, and unquestionably much had bcen gained by this. Cases which scarce a generation ago were regarded as hopeless, over which medicine had no power, were now rescned from their impending fate, and restored to health and usefnlness. The triumphs of abdominal surgery were still the wonder of the age. Ovariotomy alone had been the means of saving countless thonsands of lives. Remoral of the uterine appendages-whether in the case of bleeding myoma, or of chronic incurable diseases of the ovaries or tubes-had enabled the surgeon to convert useless, suffering, and miserable invalids into useful members of society, able to earn their own living, or to fulfil the dnties of their station, with comfort and frcedom from suffering. The treatment of extra-uterine gestation by abdominal section, bold in its conception and successful in its issue, appealed alike to the profession and the public.
Shortening of the round ligaments, raising the prolapsed oraries and attaching them to the parietes by a plastic operation, repairing the rnptured perineum, removing the hypertrophied cervix uteri, or restoring it to its normal condition, when extensively lacerated, by the operation of trachelorrhaphy-all these and numerous other operations of a like nature might well be quoted as eridence of what surgers had accomplisbed in the domain of gynæcology. Might we not hope that in time, when gyniecology was systematically taught in our medical schools as an integral part of medical education, we should be enabled to prevent the development or retard the progress of numerous conditions which now inevitably eventnate in surgical interference?

Our practice, in many instances, did not keep pace with our knowledge. As a fact, we knew that the process of involution of the uterus, subsequent to delirery, took at least sir weeks under farourable circumstances, and still longer in anæmic, underfed, or unhealthy patients, where the hygienic surroundings were unsatisfactory; and yet we kept still to the traditions of the past, and allowed our patients to get up after the ninth day, provided there was no hemorrhage or elevation of temperature to suggest a more prolonged recumbency.

Conld it be doubted that we had bere a most potent factor in the production of uterine disorders? The heary, subinvoluted uterns not only dragged upon the already weakened and distended ligaments and supports, giving rise to prolapsus uteri and other displacements, but the ovaries also, in place of remaining in a position of safety, became prolapsed, and gave rise to considerable discomfort.
Even the growth of uterine myoma, apart altogether from the more direct methods of treatment, might be lessened or retarded by attention to numerous details as to diet and hygienic management, such as abstention from alcohol, lessening the amount of nitrogenous food, preventing congestion of the pelvic organs by wearing appropriate clothing, and refraining from unnecessary fatigue or exertion at the ordinary monthly periods, regulating the bowels, and improving the tone of the general health by means of such remedies as quinine, arsenic, strycbnine, and other agents of this class.

The extreme importance of forming a correct diagnosis was then insisted upon. We should at all times endearour to ascertain the truth, the whole truth, and nothing but the truth. It was not sufficient to detect a retrofiexed uterns and treat this, When possibly some old-standing pyosalpinx or cirrhatic condition the ovary was in reality the chief cause of the patient's suffering. Instances were not infrequently met with where the ovaries and tubes had been removed, and rightly so, for some well-marked pelvic trouble, and yet the condition of the patient some months afterwards was not anything like as favourablo as we were led to predict-and why? Because some chronic uterine trouble, coexistent with the ovarian mischief, had been overlooked or not attended to, and now interfered with the perfect convalescence of the patient, thus robbing the gynxcologist of his full measure of credit, and, in some cases, unquestionably bringing the operation of removal of the appendages into needless diseredit.
The reflex symptons due to uterine derangements were then considered and their importance insisted upon, as deserring of more attention by the practitioner than generally met with. The synergic action between the stomach and the uterns, both as regards secretion, sensation, and motor action, were amongst tho most remarkable phenomena of reflex nerrous action. Natura gave ua a very papible illustration of this in the moming sick-
negs of pregnancy. In place of pouring into the-stomach-whoge obly faule was a too manifest sympthy withits suffering neighbour lower down- hismuth, hydroyane neid, ingluvin, ovalate of cerium, and, other vamated specifics, aftention should bo dirceted to remedying uny conditiou of the uterns likely to produce rowiting. The application of cocaine, curholic acid, or other appropriate agent to the cervix uteri, or the insertion of a morphane supposilory in tho vagina, would, niore often check the sickiness than any of the above remedies ulministered by the mouth.
Cuses of chronic metritis, where nausea or sickuess were prominent symptoms, were too often treated by remedies directed to stimulating the action of the liver or inproviug the digestion, iu phace of treating the disease of the uterus, which was really the futhe et origo mali. All the diet lists and leugthy prescriptions too often suggested, even though tried patiently for many consecutive months, and in some cases years, were as nothing compared with appropriate uterine treatment in affording relief. Mr. Menry l'owers remarks in his recent Bowman Lecture on the Relation of Ophthalmic Disease to Certain Nicrmal and Patbological Conditions of the Sexunl Organs were alluded to and endorsed.
The operative treatment of cancer, more especially of the ntems, was then considered. Athongh the results, thas far, were encouraging, we should never he able adequately to cope With this terrible malady until the practitioners scattered over the length aud breadth of the land Ind their faeulties quickened to apprecinte the very earliest manifestations of the disense, and even to. unlicipate its advent by a mare careful consideration of the predisposing catuses which, where a strong hereditary predispasition existed, Trere likely to eventuate in such a condition.
Sir James Paget had indicated the direction in which our minds should tend. He had recently stated that "all cancerous disenses were apt to form in parts congenitally defective, and still more as a result of injuries. Hore commonly still they appeared in parts that had lons been the seat of some irritation, as we called it, as in the scars of burns, or in syphilitic tongues or gums, or cheeks irritated by bad teeth, or in lips irritated by pipes. or tongues by hot tobaceo smoke." And to this list night he added, in mammore Where eczema of the nipple had existed, and in the cervix uteri from old standing laceration and irritation.
In his recent Iorton Lecture, Sir James Paget encouraged the hope that wo might yet find some medicine as efficient, against cancer as mercury or quinine were against syphilis and agne. Professor Clay, obome seven years ago, asserted that he had discovered the long and anxiqusly sought for remedy in the form of Chian turpentine, Ouly recently, in one of our leading medical journals, he had ruported three cases of cancer cured by this remedy. If this was, all his charity could afford, his poverty must begreat indeed. If it were really such a specific as he asserted, why had we not thousands of cases reported as cured, not an insignificant trio like this. Sarely the matter ought not to be allowed to remain in its present unsettled and unsatisfactory condition. The remedy had been fairly tried in the cancer wards of the Middresex Mospital, as had many and various vaunted specifics which had been hrought before the public during the preseat century, and still Dante's motto inseribed above the portal in the Inforno, "Lasciate ogni speranza voi ch'entrate"-"a\}l hopo abnadon ye who enter here"-might not innppropriately be placed orer the entrance to the cancer wards.

The subject of electrotherapy in sinscology, recently brought promisently forward by Dr. Apostoli, was one which was attractang considerable attention. Not only were we promised the dispersal or arrest of growth of fibroid tumours, and the arrest of hemorrhage by the iufluence of elertricity, but also the resolutiou of peri-uterine iuflammation and the relief of ovarian pain, so as to preclude the necessity of removal of the appendages. Amenorrhcea, dysmenorrhcea, aud menorrhagia whe amenable to its influence as wetl as numerous other conlitions too often intractable to other remedies.
The desirability of studying tho effects of remedies upon uterine and prlvic disorders was then insisted upon. Much might be done by careful clinical observation, recording minutely the symptoms, and how these were modified or reliesed, not by a combination of half-a-dozen different drugs, as was too often the case. but ly some specially gelectal one, given with the definite iden of testing its true value under certain well defined conditions. The im ortance of leaving the culinary department of tho organism free for its inteaded purposes, and not converting it into a drug
stare for the reception of nauseating compounds was urged. There were many nnd various methods of applying remedies directly to the locality affected, which should alwaya be resorted to when feasible; for example, rectal and vaginal suppositories or pessaries, injections and enematr, hypodermic injections, local applications, whether as plasters, fomentation, or poultices, or applied to a blistered surface, medicated baths and fumigations, or as local applications to the cervix ateri.
The injection of a drachm of glycerine into the rectum, 'as, recently adrocated, would often succeed in affording relief to the bowels cito, tute, et jucunde where pills and aperients proved, of little service.
11 many critical cases, where the life of the patient often lung upon tho powers of assimilating nourishment, much harm was doue by drugging the stomach, with opiates nnnecessarily and unreasonably. We first impaired the digestive capacity, of the stomach by drugs, and then attempted to convert the rectura into a stomach by injections or suppositories of peptonised materials.
The employment of antipyrin in gynecology as selieving pain, dysmenorrhoa, quieting the nervous system, procuring sleep, arresting hemorrhage, bringing down the temperature in febrile conditions, and in many other ways proving rery serviceable, was dwelt upon.
The so-called "dry treatment" in gynecology was then referred to and adrocated in place of glyeerino tampons. Powders such as bismuth, iodoform, horacie acid, borax, alum, tannin, oxide of zine, soda aud others, applied either by the aid of an insufflator or blower, or incorporated in' cotton-mool tampons, or placed in the 'ragina, and kept in by means of dry cotton-wool tampons, were often of great service.

Much had yet to be aecomplished in gynecology before we conld ait dotwh satisfied that we had learnt all that was necessary, and had attained to such skill in diagnosis and treatment that pe had nothing more to desire.

## A" CASE OF AOUTE TUBERCULOSIS. <br> By OWEN LANKESTER, M.R.C.S., in ti With Remares by Sit DYCE DuckWorth.

ON Norember 4 th, I was sent for to seo 1 IF . H., aged 25 , single. a cook, who was complaining of a sharp shooting pain at the tip of the left thumb, so serere that it kept her arrake at night. On inquiry, she had been out of sorts for several days, her appetite had failed, and she had felt listless.

Examination of the thumb rerealed nothing to account for the pain; her tongue was slightly furred, and the tempernture $102^{\circ} \mathrm{F}$; she was told to go to bed and have a' poultice applied to the thumb, to take an aperient at bedtime, and to use i fluid diet. Her history was good; her father and mother were both alive and'well ; seven hrothers and sisters were also living. There wins no history of phthisis or rheumatism in the family; her pretious medical history was also good. She had been in a cottage hospital two years before, with what seemed to be aggrarated dyspepsia.
On November 5th she expressed herself as better; tho aperient had neted, and the pain hatl left her thumb, having passed to tho ring finger of the same hand. She complained of breathlessness in coming upstairs, but after a careful examination no sign of any mischief in auy orgnn of the chest or abdomen could be detected. The temperature at night was $102^{\circ}$, and in the morning $100^{\circ}$. Sho was given quin. sulph. gr. ij thrice daly.

On November Th she again expressed herself better; there wns no pain in the fingers, but the calf of the left leg was so painfol she could not put her foot to the gronnd: there was no awelling. no redness to bes sech, and the calf of the left leg was preeisely the same in measurement as that of the right, hut it was very tender on pressure. lier general condition was much the same; the temperature was $100^{\circ}$ in the morning and $10^{\circ}$ at night; pnlse 96 , regular, full; the tongue was furred in the centre and red at the side; there was no enlargement of the spleen; no abdominal tenderness; the urine 1020 , acid, natural. Bellad, and glye. was applied to the leg, which was wrapped in wool and raised on a pillow.

I'le patient's coudition remained much the samo for the next few daye; the pain ia the calf continued, but as she did not get out of ixed it was not very troublesomo; the temperature remained raised; the pulse was strong and regular, but rapid; the tongue became gradually drier, and cracked. She was always cheerful,
declaring henself-better, and took her food, which consisted of milk and becf-tea, very well.

At this period typhoid fever seemed possible, but there was no splenic cnlargement, no spots, and the stools were solid and had no special characteristics.

On November lfth the patient complained of a sharp pain in the left forearm, in the bones, as she said, quite different from the pain in the calf, whieh was of a dull, aching character. 1 again examined the chest and abdomen carefully, but discovered nothing abnormal ; she had no cough, slept well, and took her food well; the temperature in the morning was $100^{\circ}$, and at night $102.3^{\circ}$; pulse vhrying from 98 to 102, strong; urine 1020 , faimt cloud of albumen. Treatment as before.

On November 18 th Dr. Oswald Browne saw her with me. At this time she complained only of pain in the muscles of the calf of the loft leg, where there was marked tenderness, with some increase of resistance on palpation, nothing more. There was no suspicion of tubercular disease. Respiration was perfectly natural, and there was no cough. Physical examination of the chest revealed true pericardial friction at the cardiac base, over an area of the size of a crown piece.' The temperature taken in the mouth was $103^{\circ}$

Though articular symptoms were absent, Dr. Browne considered that the pericarditis and pyrexia were manifestations of acnte rheumatism. and advised the application of a blister over the area affected, and treatment by full doses of salicylate of soda every four hours. This treatment was adopted.

On November 19th friction was still slightly audible. The temperature had fallen from $103^{\circ}$ the previous evening to $100.3^{\circ}$. On November 20th friction was no longer heard. The temperature in the morning was $99.6^{\circ}$ and at night $100^{\circ}$, the lowest record since the commencement of the illness. Pulse 89. She took nourishment well, and slept well.

For the next few days the improvement was maintained. The temperature never quite reached normal. It was $99.4^{\circ}$ in the morning and $100.2^{\circ}$ at night, varying a few points from time to time.

On November 23rd salicylate of soda was given thrice daily. On Nevember 25 th the temperature began to rise again, reaching $101.8^{\circ}$ at night, and for the first time 'her appetite failed;' she slept badly, and wandered slightly. There was no cough, and the physical signs in the lungs were natural. On November 27 th the temperature in the morning. was $101^{\circ}$ and at night $102.4^{\circ}$; pulse 104. A small patch of friction (pleural) was detected in the left axilla. There was no pain on breathing and no cough; the respiration was 22. On November 28th the temperature was still high, the pulse 106, and she secmed confused. The friction was spreading in front; pain was still present in calf. The retine were examined ophthalmoscopically with negative result. Salicylate of soda, which had been given thrice daily since the 23 rd, was discontinued, and quin. sulph. gr. iij was ordered thrice daily. On November 29th there was slight crepitation in the right axilla ; in the left axilla there was pleuro-pericardial friction; the beart's apex was in the nipple line, and there was no murmur; the spleen was not felt; the tongue was dry and cracked; respiration 23 . On December 2nd, it lecing impossible owing to domestic reasons to keep her where she was, she was removed to St. Bartholomew's Hospital, under the care of Sir Dyce Duckworth. Dr. Tylden, house physician, has kindly allowed me to use his notes.
The urine contained a clond of albumen. The spleen could be felt on deep inspiration: Slie was ordered quin. sulph.gr. iijevery sit hours, milk, beef-tea and brandy; the temperature in the morning was $102^{20}$, and at night $103^{\circ}$ : the pulse was 104 .

On December 5 th the spleen was still palpable; the temperature in the morning was $102.4^{\circ}$ and at night $103.2^{\circ}$; the pulmonary signs were rather less; sibilus was still present. Ou December 6th the temperature Tras still high; there was no remission ; she Was more dusky; there was sliarp crepitation over the right front as high as the apex; the spleen was still felt; crepitation over old area of friction; slight sulsultus; the temperature in the morning was $103^{\circ}$ and at night $103.4^{\circ}$. On December 7th she still took nourishment fairly; the crepitation in the lungs was increased; the pulse was 120 , the respiration 32 ; the temperature in the morning was $103^{\circ}$ and at night $103.4^{\circ}$.

On December 8th râles were heard over both backs, especially the right. and harsli breathing over the upper scapula. On December 9 th she was worse; the physical signs wero increased; the respiration was 36 , and the pulse was 120 ; she passed a normal motion; the temperature in the uorning was $103.2^{\circ}$ and at night
$104^{\circ}$. On December loth the temperature was $101 . \frac{\%}{}^{\circ}$ : eeveral (doubtful) rose spots were noted; breathing had been much wurse: is during the last twenty-four hours. She died at 1.20 p.m.

A post-mortem examination was made on December l2th by Dre, Ormerod. The visceral pleura and the whole of the rifht lnagg, were full of miliary tuberele. The right pleura contained at largish, thickened spot on the anterior surface, ulso some recuit shreds of lympli. The parietal pleura was deeply congested. Th. pleural surface and the interior of the lung ware full of miliary tubercle. Tuhercle was spread uniformly through the whole of both lungs; there was no caseation, no breaking down. The bronchial glands were not enlarged nor caseated. The pericardium' and heart were rormal, except slight beading of the mitral edge. There were some patches of tubercle on the serous surface of the intestine, and small deposits of tubercle in the ileum, one just ulccrating. There wis also tuhercle in the capsules of the liver, and one or troo spots in substance, and tubercle in the caltsule of the spleer. There was no enlargement of the mesentoric glands. In the kidneys were sereral small deposits of tubcitle, some beginning to look yellow: There was a'py in one ovary? the mucons surface of the uterus was red. (No incision was mant. in the left calf, owing to objections by the family.)

Remares by Sir Dice Duckworth (added by request of Mt. O. Lankester). -The case narrated above was one of extreme interest. The patient was admitted under my care with a history of rheumatic'symptoms, including pericarditis. There were ni articular pains, and no signs of pericarditis on admission. Tlie pain referred to in the calf was still present. No physlcal signs explained it; in particular, no renous thrombosis. The patient, Was clearly rery ill. My first impression, which remained for à few days, was that the case was one of enteric fever. Tlie general condition weut to support this riew, the state of the tongue and spleen, and several of the motions, too, being ochrey and powders, still further lent snpport to it. The pyrexia was not, however, characteristic of enteric fever. In discussing the case at the bedside, 1 stated that the diagnosis lay betwcen acute tubercelosis and enteric ferer. Ulcerative endocarditis was considered; but negatived by the condition of the heart. For some, timi, indeed, an exact diagnosis was hardly possible. The necurrenc? of patches of dry pleurisy on each side was significant of tuberculosis. . When, to this, signs of inrolvemeut of both lungs trith bronchitic symptoms, manifested by fine crackling râlee, which increased day by day, were added, the diagnosis became, almost certain. "With these signs, there came on extreme frequencs of" respiration, a very significant indication of acute pulmonary tuherculosis. The necropsy fully rerified the diagnois. The case is very noteworthy, because nothing in the family history, pointed to the malady, and no evidence was forthcoming of any original seat of tuberculosis in the body. The diaguosis between enteric fever and acute tuberculosis has alwass been in certaiu instances a matter of extreme difficulty. It was so for some time in this case. In the earlier period of the case a diagnosis was impossible. The patient appears to have plunged suddenly from previous good health into tubercular fever, and succumbed in about five weeks. The lreatment latterly was by quinine in full doses, and large quantities of strong nutriment mith stimulaus were well taken to the last.

## NAPIER, AND KURIPAPANCG (HAWKES BAI PROVINCE, NEW ZEALAND) AS HEALTH RESORTS FOR PULMONARY <br> INVALIDS <br> By J. II. LESLIE MLLEN, M.B., M.D.

About two years ago I mroto a lefter to the Brisish Mricicit Journal en the climate of the seaport of Napier, the capital of the Mawkes Bay l'roviuce. I had at that time been only four months resident in Napier, but had derived so much benetit from even that shert visit that I felt fully justified in recommendiny the climate. The air is bright and clear, from the abundance of sunshine and cloudless skies; and it is dry, as the result not only ot the comparatively small amonnt of rainfall, but from the fapt that the rain usially occurs in bursts, and is succeeded ly long periods of fine weather. The soil also is light and absorptive, and tonds to prevent accunulation of water on the surface.

The position of Napier is favourable. In latitude about $39^{\circ} \mathrm{S}$.
its a verace temperature is intermediate hetween the greater hoat of Auckland and the ender regien further south. Thero is a marsh in close proximity to the southern extremity of the town, which is decifeclly a disadvantage, 'specially in the heat and Irought of summer, though the seaward hills and northern parts of the island are beyoul the range of its influence. It is unwise to remain in Ninpier nll the year round. The autumn is simply jurfect, and the winter months are generally the. My principat whinct is to draw attention to a loculity which is already mach favoured as a health resort by the inhabitants of Napier during the summer months. The plateau of Kuripapangs is situater in the' Ruahins mountains, at an altitude of about 1,500 feet above the sas. It is fifty miles inland from N $\mathfrak{N}$ nication is maintained once or twice a week by coach. The plateau jroper, in itself of small extent, is bounced on three sides by precipitous mountains, and on the fourth by the river Ngarororo, which runs partly round the northern angle and dirides the platean from the more open and undulating ground, through which winds the road to Napier. The climate here during the summer is dry and invigorating, and, although the temperature may prohably be as light as it is at the coast, there is no relaxing or cx-1 lrausting effect. The surrounding hilts protect Kuripapanga from the hot winds of the north-west in summer, and from the cold winds of the south in winter. The arerage temperature is, therefore, ligher and more equable than that of the surrounding. country. This is a great advantage in winter; and, though the heat in summer is for the same reason greater, yet a ride or climb of a quarter of an hour will make a considerable difference, as a mol breeze is nearly always to be met with among the hillsides. During the winter the mountains around Kuripapanga are covered with snow, which falls in the valley also, but quickly melts there. There are occasionally heary storms of thunder and rain, and of caurse bleak and coll days during the winter; Dut the configuration of the country tends to promote dryness of the soil and of the air, ua the mountain sides rise abruptly, in some places sheer from the river Ngarororo, which winds among them, the result being that, when a heary full of rain occurs, the water rushes bodily down the gulleys and ravines, and is carried away at once by the river. The platean is clevated about 80 or 100 feet above the led of tho river. The soil of the valley is productive, and good country fare can be always notained.

Tho health-secker must have some resources in himself, and must make up his mind to forcgo in some measure the pleasures of socicty. There arc, however, many ways in which he may amusc himself. Ife can always procure a horse to ride. Should he care for sport, he may have a day's pig-shonting, or may piek up wild duck along the river banks. Then, should he be anything of an artist, he will not he likely to suffer from ennui amidst the magnificent and raried scencry. The geologist also, or mining ungineer, will tind plenty to occupy his leisure, as the mincral renources of the range are supposed to le great. Traces of gold have been fruquently found, while coal and iron are known to exiat in considerable quantities.

Leaving kuripapanga, the road into the interior ascends to an elevation of nbout 3,0 on fret abow sea-level. A stretch of the true New \%ealand bush or forest can be reached by a drive of about cight miles, and a little further on a view can be obtained of the great voleanoes Ruapehu and Tongario, rising snowcapped to the hoight of 8 , (00) feret.

A personal experimencenalles me to speak in the highest terms of the hurijapanga Intel. Niew arrivals are astonished to find a really first-elas hotel in the heart of those monutains. This hotel, howewer, is not a sanatorium; and, as 1 write without the knowledge of the propriater, 1 eannot affirm that he would be propared in reenive contirmed invalids.
Thu casers which should do bust at Kuripapanga are those in which the lung is merely threatemed, or whorn the disense has snade but littlo progress; and in such cases aresidn nee there all the year romal wonld be desirahb. Patients diffor much, how"wer, in thoir power of resisting cold, and those whon feel a winter in the mountains too trying muy return to Napier at that season. I residnnce at Napier and at Kirripapanga alternately will secure a fine climate all the year round.

Athy Workutorss.-The hospital accommolation having heen fouml insufficient, steps are being taken by the grardians to extome it, and the local Gorernment Bourd has given its sanction th the propmed audition.

# STRANGULATED CAEAL HERNIA IN A CHILD RADICAI CURE BY TWISTING THE NECK OF THE SAC. 

Br A. QUARRY Silcock, M.D., B.S.Lond., F.IR.C.S.ENG.

Surgeon to St. Mary's Ifospital, and Assistant. Surgeon to the loyal London Ophthulate Mospital, Moorfields.

Cifcal mbinia shonld be rare in chidden, if one may judge of the frequency of such an occurrence ly the sparseness of recorded cases in medicul literature. Ar. Treves, in an excellent summary of the subject, states that crecal heruia is practically limited to adults; he quotes a case by Sandifort (Icones IIernice Congenita, 1781 ), in a male infant, aged three months, and refers to others reported by Mr. Lockwood, Clopnet, and Wrisherg. $\mid$ Mr. Wright, however, gives five examples verified by operation, cases which occurred at the Children's Hospital, Manchoster, and avers that "cecal hernia is not very rare in mule children" (Journal of March 5 th, 1887, p. 506). It is noteworthy that in all these cases the hernia was of the congenital varicty, as in the present instance.
A male infant, aged fifteen monthe, was brought to the children's department of St. Mary's Hospital, having a large right scrotal hernia, on May 4th, 1857. The child had suffered from sickness during the day previously to admission, and had passed no motion since May 2nd. The rupture had been noticed since birth, but the mother stated that it had become much larger on May 3rd. The hernia was irreducible when the child was placed under the influence of chloroform, and therefore herniotomy was decided upon. The strangulated prortion of gut was found to consist of the cæcum with vermiform appendix, contained in a perfectly distinct sac, at the fundus of which was the testicle; the vermiform appendix lay somewhat posteriorly to the exposed portion of the crecum, and conld not be seen until the relations of the parts were disturbed in order that the protruding intestine might be thoroughly examined. The gut involved was moderately congested, and much difficulty was encountered in reducing it, even after the external ring had been notched with the knife, a difficulty which was no doubt incidental to the large size of the hernia; and, although carefully manijulated, the coats of the cacum were bruised, and its peritoneal covering-which completely surrounded it-was lacerated during reduction.

With a view to producing $n$ radical cure, the sac was dissected up from its attachmenta, clivided circumferentially above the testis, and its neck twisted by the fingers, a catgut ligature being tied tightly around the twisted pedicle just inside the external ring: the sac was then cut away immediately below the ligature.

The whole operation was carried out antiseptically, lout convalescence was retarded by an attack of orchitis and suppuration in that portion of the sac which lay around the testis-circumstances attributable to the lailure of the antiseptic precautions after the thirt or fourth day:

When seen on December istlo, the scrotum and testis were perfectly normal, and there was no cvilence of any tendency to hernia on the right side. On the left side a congenital scrotal hernia existed, but this was consilerably smaller than it was when the child was first scen. A duuble inguinal truss had been worn since the wound had healed.

The radieal cure obtaned in this case may becited as confirming the experience of Mr. 31. Ball, of Dublin, of a method of procedure adopted aud fully described by him in the Joumnar of December 10th, 1887. He there advocates the use of torsion forceps as a means of twisting the sac; but the sume result was easily attained in the present instance by the lingers alone. Whether or no the diminution in the size of the hernin of the lefl side can be ascribed to the "far-ruaching effect of torsion of the sae," as Mr. Ball maintains may be the case, is, of course, an uncertainty.

Vaccination Grant.-Mr. W. F. Sheard, I.R.C.P.E.L., public vaccimator, l'utney district, has received an award of £14 bs. for ofliciency in vaccination, this being his fourth award.
A Nrw medical ward has heen opened at the Rotherbam Public Hospital and lispensary, affording ineronsel aceommodation to the extent of fwenty beds.
"A JАВч" has given пиm humdred gnine?s to the British Home for Iopurables. - Mr. E. Armituge and the liev. K. Jacox bave cach given sire to St. Mary's Iloapital.

## OBSTETRIC MEMORANDA.

## ERGOT AND ACETIC ACID IN POST-PARTUM II EMORRIIAGE

It must have occurred to everyone with a few years' expericnce in practical midwifery to have encountered cases of inertia uteri after delivery. The labour may have been normally rapid and strong, and the placenta and membranes discharged entire after the usual interval, learing a firmly contracted uterus; but presently, notwithstanding the continued pressure of the hand, the uterus elongates and acquires a feather-bed feel, and, refusing again to contract, hemorrhage results; or the uterus may have been inert from the first, barely effecting delivery, or requiring instrumental interference; and all this notwithstanding the previous administration of large doses of ergot. In cases where the uterus does contract firmly at first, I take it to be but a continuation of the routine of labour, and the uterus, finding no opposition and nothing to expel, relaxes instead of passing into a state of tonic contraction. I should like to insist on the value of a pasty or of a bectic complexion as arwarning, and that an accelerated pulse, be it strong or weak, is an almost certain forerunner of hæmorrhage.

The liquid extract of ergot is very unreliable in these cases, and I have been grievously disappointed with preparations of ergot and ammonia in sereral instances. I have been equally pleased at the quick action of vinegar, given after ergot has failed, especially when followed by brandy or ether. Having experimentally given a wineglassful of vinegar several times, without ergot, I have found little benefit result. Argiing by analogy, I made the following mixture: R Liq. ergotr, acid. acetic. concent: aa 3 j; rether, sulph. (s.g. .735) 3 ir. This should be put into a three-ounce bottle, well corked, and shaken thoroughly. I administer of this mixture three teaspoonfuls in a wineglassful of water, and having used it now for a considerable time I am delighted with its efficacy in causing contraction and giving a refreshing sleep after a short interval, with little or no complaint of after-pains. I combine this with the good old-fashioned pincushion pad wrapped round with a napkin. I look upon the ordinary binder, with or without the two or three napkins usually offered by the nurse when a pad is asked for, as a delusion and a snare. With the lower edge well below the hips (where it ought to be to prevent slipping up), the direct pressure on the uterus is almost nil, and it serves merely to hinder the pressure of the hand in manipulating the uterus

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Johi A. Francis.

## THE USE OF ACIDIFIED CORROAIVE SUBLIMATE AS AN ANTISEPTIC:

The annotation under the above heading in the Journal of January 2lst opens up several important questions. The first is this. In what chemical form does corrosive sublimate enter the system? The primary effect of bringing bichloride of mercury into contact with 'albuminous substances is doubtless the formation of an insoluble albuminate. Thus, to borrow the words of the annotation, "the mercury becomes mordanted, as it were, on the surfaces with which it first comes in contact." The matter, however, does not rest here. This solid albuminate is soluble in excess of albumen. Now, as in erery part, the albumen must sooner or later gain the ascendency, the mordanted mercury is gradually redissolved and carried away by the circulation. Thus, the mere fact of fixing the mercury for the time being ultimately results in a large influx into the system.

Does, then, the sphere of its activity become greatly diminished? Before a definite answer can be given to this important question, it is necessary to determine whether albuminate of mercury in excess of allumen is itself an antiseptic, and also whether the antiseptic action of corrosive sublimate is exerted directly and solely, by ita congulating action on albuminous matters with which it comes into contact. In the latter case its sphere of action would necessarily be limited to the part to which it is directly applied. Until these points are settled no definite conclusion seems possible. Therefore, if to the sublimate solution sufficient acid be added to present precipitation of the mercury, I am still in doubt whether its antiseptic power is thereby increased. It may be that under these conditions the mercury would be readily taken up into the system in a large dose at the time of application (possibly giving rise to sudden mercurialism), but its action would not be con-
tinuous. On the other hand, the coagulating effect of the nonacidulated solution may exert a beneficial influence by sealing the surface against the incursion of noxious matters, and in th. meantime mercury is gradually absorbed into the system in the form of soluble albuminate.

Corroaive sublimate, in common with many other antiseptic agents, has heen hitherto employed to a great extent cmpirically: It is most desirable that such potent agents should be applied on scicntific principles, which alone willserve as finger-posts to warn against the many pitfalls which lie in the way of their employment. An era is now darrning when a rational understanding of their mode of action will prevail. The experiments of Laplace may be hailed as a step in the right direction, but much still remains to be accomplished.

In the discussion which took place at the Obstetrical Socicty of London in December, 1886, following Dr. Dakin's paper on Mercurialism in Lying-in Women Undergoing Sublimate Irrigation, I advocated acidulation of the solution on totally different grounts. It is well known that when London water (which is slightly alkaline) is employed to dilute a concentrated sublimate solution (eren when chloride of ammonium has been preriously added), a precipitate sooner or later appears. This precipitation, which must necessarily deteriorate the solution, may be entirely prevented by the addition of a small quantity of acid, suffeient to neutralise the alkalinity of the water. Dilute hydrochloric acid (B.P.) in the proportion of $\overline{5 i r}$ to $\bar{j} j$ of solid sublimate (which would give no more than mj in $\overline{3}$ iv of 1 in 1,000 solntion is quite sufficient to effect this purpose, and to maintain the strength of the standard solution. In this form it has been employed at the General Lying-in Hospital for the last tro years, the acid being added by the chemist to the concentrated glycerine solution. The amount of acid added is but one-tenth of that recommended by Laplace, and is insufficient to prevent the primary precipitation of albuminate of mercury

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## SURGICAL MEMORANDA.

CASE OF DISLOCATION OF THE THUME FORWARDS.
H. P., aged 9 years, was brought to me on January ${ }^{2} 7$ th last. He stated that he bad been thrown down by a boy in the school playground, falling on his right hand. On examination, I found a deep depression on the dorsal aspect of the thumb, at the meta-carpo-phalangeal joint, the first phalanx of the thumb being dislocated and displaced, so that the base of that bone reached nearly to the centre of the palm. Failing to reduce it rithout, I put him fully under chloroform, and then found the base of the first phalanx apparently held tightly by the two heads of the flexor brevis pollicis, exatty as the head of the metacarpal bone is held in the common backward dislocation. I pressed the phalanx still further into the palm of the hand, and tried extension: but the most powerful effort I was capable of failed to produce any result. I then placed the fingers of both my hands on the dorsal aspect of the joint, and held the muecles firmly forwards and towards the centre of the palm; then, applying both my thumbs to the base of the phalanx, I pressed it upwards and towards the radial side, when I was pleasingly surprised to find the bone slidk easily into its place. The thumb was tben flexed a few times to disengage any tissues that might have been in the way, and the hand put up in a stift case for a fer days.
The case may be of interest from its rare occurrence. Mr. Ilolmes, in his Treatise on Surgery, dispatches it in three lines. merely saying that four examples are related by Nelaton, one of which remained permanently irreducible.

Francts Thilor Simson, L.li.c.f., ete.

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## INFLATION OF THE EUSTACHIAN TLBES.

Some time ago, a medical man consulted me on accouni of deafness, with distressing rertigo and timnitus. I found it quite impossible to pass the catheter through his right nostril, on account of malformation of that side; it was, therefore, necessary to cathetcrise the right tube from the left nostril. I found it so easy to do this that, ever since, when it has been necessary to inflate both tubes-and cases hare been abundant-1 have adopted this mcasure.

Having intlated the one tube, the catheter is withlrawn about half-an-inch, so as todiscongers its point, a half turn is mindo with the pomt downwards, and lise oriflee of the other tubo is found al once. It is adrisable to uss two otoscopes, as it is dificult to change its insition when only one is used during the process.
clam for this method these adrantuges: 1. The pain and annoynace to the pratient of passing the catheter twice is avoided. 2. Javing observel the direction of the catheter in tho ono tubal urilice, the evact position of the other is much more quickly found thau when the instrument is withdrawn and passed again through the other nost ril. 3. The free movenent or otherwise of the point if then catheter, bebiud the posterior mares, is helpful in the diaguosis of the presence or absence of post-masal growt ha or abnormalities. I have no dombt that this method is practised by many aurists, but to some I hope it may be a useful hint.
Plymouth.
J. Elliot Squibe, F.r.C.S.

## THERAPEUTIC MEMORANDA.

## SNTPYRIN AND IDIOSSNCRASY.

On Fohruary 2nd 1 sarw a girl who for twelve days had taken three doses of antipyrin daliy to reduce high temperature in a typioal case'nf typhoid fever. Tho antipyrin invariably reduced the temperature, and showed an bad affects until the twelfth. day of it. usin when a mash appeared pa the thighs; and abdomen, and on the following day every part of her body (arm's, landa, legs, and feet) was covernd with mosticopious rash of characteristic urticaria, except the face, which remained quite clear of tho rash. There were 10 symptoma refernble to the air passages in my case. In the cases of Dr. Sturge of Nice, Dr. Barber of Brooklyn, and Dr, Whit, house of Santiago, the urticarin seems to have come on aftor the lir-t dose of ancipyrin, whereas in my case the patient lond taken it with impunity for twelve days. 1 discontinued the antipyrin, and the rash rapidly faded awny. 1 was extremely nuzaliol to nceonnt for the rasb until I read tbe paragraph in the Joubsal.

Kirkoswnlı, R.S.O., Cumberinnd.

## AN OBJECTIOY TO THE LSE OF SACCIAARIN.

I aunuls like to call the attention of the profession to the singular effest which saccharin has had on a patient of mine.

In a case of glycosurin 1 had prohibited the use of sugar, and substituted saccharin, with apparently excelient results; but after about twelve or fifteen doses had been used, my patient began to feel an much nansea that he was ohliged to leave off taking it: llis mouth got to have an " abominably sweet taste always in it," nnd, withont the adrlition of any" Rweetening material, everything hee tonched tasted of saccharin; indeed, so pronounced was this that his pilm, usually such a solace, had to be given up in diagust, 011 gecount of the smoke heving such it sweet tharour.

This intensity of swentnass nceurred on the fifth day after beginning the saccharin; and probably an explanation will be found in the fact that it passos mehanger throngh the system, and will, 1 nm afraid, produce a sweet anliva, muless it is used with-ocesdional intermisaions.

Jonn Medley, M.D.Durh.

* Yoster Ilouse, Midnlesbrough,


## CLINICAL MEMORANDA.

FASE: OF ALCOHOLIC PARALYSIS, WITIK FITTEHSLS' TGRMINATING IN FATAL LLEN IW:NUPLEGIA.
Hns. W., a widow, aged 4, complained first, in Murch, of shortness of breath, montioning incidentally she was nnable to move much in bed, owing to loss of power in her legs. There was a cavity in the left apex and moist rales. at both bases. Tholicart was weak, hut free from valvniar disease. The temperatura was alightly raised, tho pulae rapid, the hreathing shallow. She had been in bed some weeks, having first, been laid up with "rheumatic" pains about the lega, and with cough. The urino was Yondw? with lithates, though otherwise heallhy.

The lower cxtemities were paralysel, and there was considerable difficulty in raising one foot over the ather; there was tendernews pear the whole body on deep pressure, and sharp pains occurred frigueutly about the legs, fasting but a short, tirmo but hond finough to make her call out and to kecp her rawake.

No patellar, plantar, or ot ther usual reflexes could be obtained, nad there was no ankle cionus, but acute pain, was caused by slight attempits to get this phenomenon. The toes were rellexed and the feet hung helplessly. She could distinguish heat and cold fuirly well, but the prick of a pin gave an indistinet impression. The pulmar grasp) was feeble ; the co-ordination of museles of the upper extremity was fnirly gond. The ephlincters ácted sntisfactorily. The muscles were greatly e atrophied.
On April Lsth ahe was nttacked with left hemiplegia; which left her speechless, and with only the right upper limb unparaiysed. The left pupil was dilated to twice the diameter of tho right. There was no recovery from this attack, and the patient died nhoit twenty-four hours from the onset; 'no neeropsy was permitted. In all, the paralysis rain a course of aix or seven weeks. When 1 was first called in it was so slight as hartly to attract the patient's attention, but rapidly became worse, so that in nbout a month from the first symptoms the patient was practically helpless. S. 1I. Applefond, L.R.C.P.Lond., M.R.C.S.'
Finsbury Circus.

## REPORTS <br> ${ }_{0}$ <br> <br> HOSPITAL AND SURGICAL PRAOTICE IN THE <br> <br> HOSPITAL AND SURGICAL PRAOTICE IN THE hospitals and asyiulis of hospitals and asyiulis of <br> <br> GREAT BRITAIN, IRELAND, AND THE COLONIES.

 <br> <br> GREAT BRITAIN, IRELAND, AND THE COLONIES.}
## SAMARITAN FREE HOSPITAL

## ofsarotomy at the enn of the seventh month of

 pregnanct.(By George Granvilhe Bantock, M.D., FiR.C.S.Ed., Surgeón to the Samaritan Free ILospital.)
Mrs. C., aged 28, was admitted on December 11tb, 1889, under my care, and gave the following listory. She was married on December 26 th, 1885 , and was then apparently in perfect health. Soon afterwards she begau to feel some' fulness in the lower abdomen, and became sensible of some decided enlargement. She continued to increase very gradually, but at the end of summer the enlargement became more:rapid. About the third week in October the disteusion of the abdomen was so great that she could scarcely lie down, and immediate relief became necessary. Accordingly, Mr. Reynolds, of High W ycombe; tapped her of twenty pints of ovarian fluid, and in the course of two or three weeks sent her to me. I was unable to admit her before the nbove mentioned date. She had in the meantime increased considerably, and ${ }^{\circ}$ on admission measured $40 \frac{2}{2}$ inches at the umbilicus, und $12 \frac{1}{2}$ inches from the ensiform cartilage to the pubes. Her last menstruation occurred at the end of hlay, and up to that time she had been quite regular. The evidence of pregancy was completa and need not be detailed, while the size of the uterus, which occupied the left side of the abdomen, corresponded with the above date.

The question now lay between tapping ngain and ovariotomy, and the following arguments presented themselves to my mind. If tapped again there was no guarantee that she would escape some degeneration or inflamatory process in the cyst- But, provided no inflammatory or other mischief ensued, or premature labour did not supervene, the bistory of the case made it probnblo that before the natural term was reached, this procoeding would have to he repeated, and probably more than once. Assuming that she escaped those langers-an assumption scarcely warranted-and labour came on at full term, ahe was then linble to injury to the tumour in the throes of labour--how probublo will be seen by the account of this process-which would prove to be a formidable complication, mid if ahe even recovered from; this accident and ita consequences, it must be evident. that her prospects under ovariotomy would not be improved.
On the other hand, it was probable that a cyst of this kind could be removed throngh a small incision, and it was certain that if she recovered from the operation-a not unwarrantable assumption - the nhdomen had been already distended beyond what would be renched ly the enlargement of the uterus at full term, so that the cicatrix would not be, subljectnd to any great atrain, but would have time to get quite golich before labour supervened. Bul premature labour might be induced by the
operation, $n s$ had already happencl more thaur once in the Samaritan Free Hospital. Yet this was less likely to happen when the peritoneum was not irritated ly the carbolic acid, and especially by the spray, as under the Listerian method. Even in this event the stitcheed, being elosely placed, would thold the twound together and it would suffer no harm, while the labour occurring within the eighth month, would probably be rapid and easy. 1 For these reasons, then, I had no hesitation in deciding upon the radical treatment, as presenting the fewer dangera and the greater probability of success. Accordingly I operated on Décember "Oth.

An incision under three inches in length exposed the cyst. From its not having been distended to its capacity of six weeks ago the eyst was flaccid, and thie wall yielded to the thrust of the trocar, 80 that I was obliged to seize it with a rolsella, and, drawing it to the surface, open it with a knife. After the evacuation "of the thick mucine colloid contents of the large eyst, there remained a multilocular mass too large to pass through the incision. Accordingly, I broke up several minor loculi, one of the largest and most deep-seated of which contained a thick, dark fluid, showing that degeneration had already commenced. As the now collapsed cyst was being drawn out, a large patch of parietal adhesion on the right side, several square inches in extent, was separated, and then two tegs of omentum came into view: :These were ligatured and divided.

The uterus at once assumed a central position. The pedicle from the right 'side-ahout the thickness of two fingers, and about an inch and a half long-was first compressed by laige pressure fordeps, then' transfixed with a double thread' which was arranged and tied with my usual figure-of -8 knot, and finally secured by encircling it with the same thread; and divided. The peritoneum was now carefully kponged clean, and a large flat sponge tras placed hetween. the uterus nad the torn surface in the abdominal wall while the stitches were being put in, to the riumber'wf eight, placed close toget ber, about a quarter of an inch apart. This done, the sponge was removed, and, ase the oozing had apparently ceased, the wound was closed, and three superficial sutures twere aidded to eusure perfect coaptation of the edges of the skin. Two large cotton-wool pads were placéd over the simple gauze with which the wound was covered; a many-tniled bandage was applied, and the patient was placed in bed at the end of about twenty-five minutes:
Little remains to be said of the period of convalescence, which Was: without any special incident. No opiam was administered, as has been iny labit"for sepreral years : it here was no sickness: the stomach was. kept empty for about eighteen hours;' the highest temperature observed (taken hearly every two hours for two days) was $100^{\circ} \mathrm{F}$. on two occasions, and the highest pulse was 94 for 'about twelve hours. On Christmas day the three superficial'and fire' of the deep suturtes were removed, and the wound, which now mensured barely two inches and a half, was quite dry and without the slightest blnsh. in the skin. A.strip of plaster was put on to support the mound. The patient folt very well, enjoyed her Cluristmas dinner of turkey; etc., and only complained of the activity of the child, which kicked unmércifully. ${ }^{\text {I }}$ On' the 27 th the 'rémaining three suturés' were reinored.? On January 5 th she wais out of bed, and 'on the loth returned home in excellent health.
Mr. Reynolds, under date' March 13th,' wrote' as 'follows: *......Mrs. C........has safely got over her confinement, which took place on February 28th. She was several hours in labour; and was findlly delivered by forceps of a large female child. The abdomeñ was well supported during labour, and not the slightest inconvenience or discomfort was experienced in, consequence of the operation." Botli mother aind child are doing well, the former leaving her bed to-day for a short time, haring previously had her abdominal belt altered to her present size."

For the benefit of those 'who' are interested in the doctrine of chances, it' may be worth mentioning that my patient was lier husband's seecond wife, and that' her predecessor 'died after' ovaribtomy performed in oue of the London general hospitals.

Remaris by Dr. Griantities Baitock.-The record of casées of ovariotomy during pregnanicy is :now so long thint little interest attaches to auy single case, except there be peculiar circumstances connected with it. 'The foregoing caso apppears'to me to possess features worthy of special notice. Adverting hers the the period of pregnancy only, it may be remarked that the cases hitherto recorded were instances in which the operation was per(formed in' the"early mouth of prefhncy, while I am not a ware that it has ever been doue so late as in this case.

## LELCESTER INFIRMART.


(Under the care of Mr. C. J. Bon, Fin.C.S., InOnorary Surgeon.) R. M., a hoy aget 10 , nas anmitted, wityi a History of symptoms of stone in the bladder of threenorth s'duration: a Thold Whater was distended with 8 ounces of boracic fluid, and a small sponge introduced into the rectum. The bladder was then opened above the pubes in the usual way, and a uric acid stone weighing 5 drachms remored by forceps, after enlarging the wound in the bladder npwards on the stone to a sufficient extent. The bladder incision, measuring an inch and a quarter, was now held up by a blunt hook at its upper angle, and rery' carefully sutured 'with fine carbolised silk, the sutures being introduced by means of a long-handled needle, with the eyc at the point, having a double curve, a horizontal lateral one in the extremity and a rertical one in the shaft, allowing the point to dip down through the wound in the abdominal wali. Ten sutures'were used, especial care bein $\$$ taken that the incision was kept stretched to its full extent during their introduction. This is au important point, for, as the bladder soon contracts after the escape of the fluid, if the sutures, are introduced in the contracted 'state, dangerous 'gaps' are apt to' be left on subsequent distension. The bladder was then again Trashed out and distended with boracic fluid and found to be water-tight: the wound in the abdominal wall was closed and dressed antiptically, a drainagetube having been insérted.
No catheter was left in the bladder, nor was one passed at duy time after the operation. The patient passed the, first urine © ounces) with but little pain fipe hotirs after the operation, and 2 ounces forr hours later: On the day following, urine was passed at intervals of from two to three and four hours, in quantities of from $1 \frac{1}{2}$ to 3 ounces, nud the security of the bladder woinid was proved by the' fact that in the following night a small scale of calculus was passed, with some straining. This had been detached from the stone by the forceps' at the time of the operation, and was thought to have been reploved with it.
The further recovery was uninterrupted, the wound healing by primary union, and the temperature remaining normal throughout. The boy was upind about in thirteen dars.
REmarks. - The points of interest to which 1 would draw attention in this case are: First't that the wladder was allowed to empty itself from the first without the aid of any dathetér; and this, 1 fancy, will be found to be the best way of dealing with these cases, provided that the bladder wound lias been accurately and closely sutured, whije in the distended or stretched state -with frequent sutures of very fine material., For we had praviously noticed that it is at the time of passing the catheter on the, first or generally second occasions after the operation that the greatest risk occurs, the straining produced forcung the urine betweon the sutures; this accident, though very undesirable, does not Decessarily do away with primary union, as will be seen on referring to a case of primary union in the adult, reported by me etse where in Vebruary, 1887. Secondly, the sutures, especially the lowe st ones", are difficult to introduce, cspecially in 'the" staut adult, unless onc uses some such curred needle as the one fere described.
In conclusion, it appears to me that we are justified in tring to get primary closure of the bladder wound in most of these cases of suprapubic lithotomy, as the superiority of the operation of the pati conducted comes out very strongly in the after-recorery an unbruised, healthy bladder, should be a rare occurrence- io great additionil risk is rin, provided that a good-sized drainagefube has been inserted down to the bladder through the abdomnal incision.

- Enteric peter at Bordfatx.--Bordeanx has for some moiths past suffered rather exceptioninly from enteric ferer, cepecially during December, when as many as 750 patients are shid to have 'been' under treatment at one time. The epidenic a'ppears to have greatly abated during the last few weeks, but there is still a darig number of cases in the town: Bordenux is cimrsome respects in a better sanitary condition than mañy other of the large French thwns. but the persistent prevalence of enteric ferer shows that it is far from perfect.' The local ninthorities 'will do well to ascertain when the defect lies, and apply the needful remeily"even if the expenditure involved be heavy.


## REPORTS OF SOCIETIES

## PATHOLOGICAL SOCIETY OF LONDON. <br> Tuebday, Fenduary 7tir, 1888

W. Morrant Baker, F.R.C.S., Vice-l'resident, in the Chair.

Etiolony of Iesical Grouths.- A series of specimens intended to show that irritation of various liinds played a most inpportant part in the production of resical growths were demonstrated by Mr. Mluray Fenwick. Me pointed out that the very "arliest form of villous papilloma was to be found in a small patch of stunted papilloma known as subvilloid or cropped villi, and in most of these specimens there existed definite evidence of irritation. Thus, in a case of Dr. Beaven Rake's the patch was found at that part of the bladder which impinged against a straw coated with phosphates four inches and a half long. In Dr. Fewman's case the tumour was at the aper of the bladder, and seemed due to the irritation of a large oval stone. Mr. Fenwick then alluded to age and to the position of villous papillomata as corroborative evidence. In carcinoma he believed that the irritation of residual urine was a most important causative factor, and quuted cases in the museums of Stockholm, Glasgow, and London.- Mr. Marmadueke Sheild referred to a casc of carcinoma of the bladder which had followed at a considerable interval on epithelioma of the penis; amputation of the penis was followed by stricture; the new growth was attributed to the prolonged irritation of instrumentation and of putrid urine. The specimen had been shown to the Society two years ago.-Mr. Eve said that in the specimen lie showed of a urinary bladder from a case of bilharzia tbe thickening of the organ was purely inflammatory.

Osteitis and Periosteitis.-Mr. K. W. Parker showed specimens of bone disease in children which he described as chronic osteitis and chronic ostco-periosteitis. Case 1 was a child, aged about 9 years. After a very slight injury severe symptoms set in, and a large extra-periosteal abscess, involving the whole thigh, supervened. After many months treatment amputation at the hip-joint had to be resorted to. The femur, on examination, was found greatly thickened, and in its interior a small central necrosis was detected. The abscess cavity was situated between the muscles and the periosteum; the latter was firmly adherent to the bone, which Was greatly thickened and altered in character. Case II, a boy. about the same age. Following a fall, a chronic thickening of the femur took place; no definite cause for this could be discovered until after removal of the limb, when a small central necrosis was discovered. In this case, also, the bone was greatly altered in character; it appeared to consist entirely of cancellous lone; the periostcum appcared unaltered, and easily separated from the sliaft of the femur. Case inn, an example of acutenccrosis of the shaft of the femur. The periosteum was widely scparated from the bone, which appeared dead; there were no aigns of repair cither in the periosteum or in the bone itself. Mr. Parker contended that the specimens showed that repair in such cases depends wery largely on vitality in the bone itself, and that such part as the periosteum played in the repair depended on its being in contact with living bonc. The third case, he thought, seemed to indicate that in cases of acute necrosis the periosteum often perished with the bone, and that then repair was impossible. Texthooks, ho thought, attributed too much function to the periosteum and too little to the bonc itself, a circumstance all the more curious considering that hone was the foundation on which the body was built ul, and that the periostcum was only an accessory structure.-Mr. Mormast liaker coincided with Mr. Parker's ricw of the first two caecs, that tho discasc was primarily an
osteitis.

Dry Caries.-Four specimens of dry caries were shown by Mr. Eve, who referred to the occurrence of this condition in syphilis and tuberculosis. One specimen, from the muscum of the London Hospital, was an example of angular curvature taken from a man, aged 33, in which no abscess ever formed, and no pus was found after death. A second specimen, from the Muscum of the Royal College of Surgeons, was also an example of angular curvature from the dorso-lumbar region. There was caseous material and necrosis, but no evidence of suppuration. Two other specimens showed extensive destruction of bone withont auppuration. In one (presented to the Museum of the Royal College of Surgeons by Mr. Jonathan IIatchinson) there was complete destruction of the
tissue: there was uo evidence of tubercle: The caats ought not to be confounded with rarifying osteitis occurring in connection with simple inflammatory action, or with tuberculosis.-Mr. Manmanule Sheiln said that many of the cases of dry carice of the spine were associated with cascation, us in one of the epecimens shown. In such a case, where the cascous matter was enclosed in n distinct sac, he thought it most probable that there had been suppuration, and that the fluid part had been absorbed, leaving a cascous mass. I'araplegia was not infrequent where abscess was not present, or at least apparent, while where suppuration was present paraplegia seldom occurred.-Mr. Morrans Baker thought this was an interesting clinical obscrvation which his experience contirmed.-Mr. R. W. Parker had found from the examination of a large number of reported cases that abscess occurred less frequently the higher up the vertebral column was diseased, which might account for it.--1). Angel Money agreed with Mr. Mermar duke Sheild's statement.- Mr. Walsusm thought there was no doubt about its being correct.-Mr. Eve brieny replied.
Ricketty Deformity of Sterno-Clavicular Joint.- A ricketty child, presenting a deformity at the sternal eads of the clavicles, was shown by Mr. W. G. Sruxcer. The ende appeared to be displaced forriarda at the stcrno-clavicular joint; the at crnal end was bent forward and thickened. The deformity first began to develop at about six months of age. Ile attributed it to rickets.-Dr. Pennose suggested that in these cases there was a green-stick fracture; in one such bone which be had examined there had been a green-stick fracture, and callus had been thrown out... Me also mentioned a green-stick fracture of the humerus in a ricketty child with very soft bones.-Dr. Angel Money had examined one similar case where the deformity was produced about one inch from the sternal end. He believed that the mechanism of the deformity was a green-stick fracture in the first place, followed by the outgrowth of callus.-Mr. Brodir asked whether the action of the sterno-mastoid muscles had anything to do witly producing the deformity.-Mr. J. B. Sutron thought that the deformity was thus produced during whooping-cough, from which the patient had recently auffered.-Mr. Spencer said that the deformity was noticed before the whooping-cough. As to the theory of fracture, he pointed out that the deformity was symmetrical.

Case of Anomalous Sacral Appendage.-An infant under the care of Mr. Edmund Owen was shown to the Society. On the lower part of the back was a rounded swelling measuring $3 z^{3}$ by $3 \frac{3}{3}$ inches, and projecting about seven-eighths of an inch. The lower limit was just above the fold of the nates; the tumour, which was situated a little to the left of the middle line, presented in the exact contre an umbilication. IIalf way between the dimple and the lower border, and slightly to the left of the middle line was a soft appendage about 2 incbes long, and having 80 mewhat the appearance of a fat "little finger" ; the base of the appendage was constricted. On the left side of the base of the appendage tras a second small excrescence a quarter of an inch long. Both hands were badly developed, being smaller than natural, all other parts of the body appeared to be normal. The child was born at full term, and there was no history of deformity in the family. Mr. Owen euggested that the rounded awelling was the result of spina bifida, while the appendage, and perbaps the tumour also, was the result of an imperfect attempt to produce a double monster; the sacral region was by no means an infrequent site for the attachment of a fairly developed or rudimentary fœotus-Mr. Morrant Baker and Mr. J. B. Stitton both agreed that the case was an example of parasitic. foetus. Mr. Sutton obscrved that if during development the medullary fold remained cleft, two complete foetuses were formed from a single orum; this was probably the explanation of twins of the same sex in one amniotic sac, From this there was every degree of combination, from Siamese twing to such a case of very rudimentary fcetus as tlant shown by Mr. Owen.

Imperforate Urethra.-Mr. Silatrock showed a fœetus of about 4 months: the abdomen was greatly distended, aud when opened was found to contain a relatively immense cavity which almost filled it: opening into this large cavity the two ureters conld be seen. The kidneys were in a condition of cystic disease, . The intestine terminated in a well-formed rectum. The urethra was closed. Mr. Shattock discussed the mode of production of this and other similar deformities in a paper of somelength, and great ability, but involving very techuical cmbryological matterg.

Card Specimens.-Mr. Walter K. Sibify: Double Intuesnsception in a Baboon.-Mr. C. Manself, Morllin: Transyerfe Fracture of l'atella with Bony Unlon.-Mr. F. S. Eve; Lrinary

Bladder and Kidney, from a case of Biiharzia IIrmatohia.-Mr. D'Arcy Power: Angioma of the Cerebral Membrane.-Mr. Joun II. Morgan: Hemur with Newly Formed Bonc, from a case of Pyæmia in an Infant.

## OBSTETRICAL SUCIETY OF LONDON <br> Wednesnay, February 1st, 1838.

John Williams, M.D., Pres dent, in the Chair.
Spccimens.- Mr. Meredith showed two large Pedunculated Fibroid Tumours, in both of which axial rotation had occurred, and in one to an extent involving occlusion of the cervical canal and retention of menses.-Dr. Lewers exhibited the Cervix Uteri removed by Supra-raginal Amputation on account of Carcinoma, from a patient in whom abortion had been induced at the fourth month a fortnight previously.-Dr. Carter showed an Epitheliomatous Growth removed from the Cervix by Galvano-cantery:Dr. W. Duxcan exhibited Oyaries and a Piece of Jejunum, the latter showing perforation after ovariotomy.-Dr. W. S. Grifetth showed a specimen of Myxoma Fibrosum of the Chorion.
On the liffect of Ergot on the Involution of the Uterus.-A paper on this subject was read by Drs. G. E. Herman and C. O. Fowler. They pointed out that the recommendation of a mixture containing ergot during the lying-in period was based upon a general knowledge of the action of such drugs and of the process of involution. No observations had been made, so far as they were aware, as to the actual effect of this treatment upon the process of involution. They had sought to ascertain its effect by measuring the beight of the uterus above the pubes on successive days of the lying-in, in two sets of patients-one set (fifty-eight in number) treated with an ergot mixture for a fortnight after labour. the other set (sixty-eight in number) given a single dose of ergot after labour and no more. They found that in the cases treated by the continuous administration of ergot, the uterus diminished more rapidly in size than in those in which one dose only was given. They compared the two sets of cases as to the duration of the lochial discharge, but on this they did not find that the ergot treatment produced any appreciable effect.Dr. Boxalil contrasted two series of cases, each referting to 100 patients. Every alternate patient admitted to hospitul was given a mixture three times a day, containing ext. ergotæ amm. m.xv for a dose, during the first three days of lying-in. To avoid fallacy in the comparisons, the two series of obseryations were carried on simultaneously. The ergot mixture was given in the first series. In the second its routiue administration was omitted, but in the series were included thirty-one patients, for whom, on account of hæmorrhage, severe after-pains, etc., ergot was subsequently prescribed. The results were presented in a tabular form. By contrasting the two series of cases Dr. Boxall concluded: (1) That though the routine administration of ergot during the first three days of the puerperium exercised no appreciable effect on the date at which the lochia ceased (in this respect confirming the observations of the authors of the paper), the practice of giving ergot mixture during the three days following delivery tended to prevent the formation of clots, and to hasten their expulsion and to diminish the frequency, intensity, and duration of after-pains. (2) That if omittel at first, hat given after, the ergot mixture tended to promote the expulsion of clots and to relieve after-pains. Dr. Boxall considered that (a) the routine practice, which he had followed, of administering a douche at $110^{\circ}-115^{\circ} \mathrm{F}$, not only immediately after labour, but also twice a day during the puerperium until the lochia ceased (a powerful stimulant to the uterus); (b) the ergot which was given in every case immediately after labour, and (c) the ergot mixture which was prescribed subsequently in thirtyone of the cases included under the second series, all tenden to lessen the difference which he had shown to exist between the two, and that in consequence the benclicial effect of the ergot mixture was eren greater than that shown by the figures given in the tables.Dr. DAkix had mate observations as to the effect of systematic administration of ergot for some days during the puerperimm on cases in the General Lying-in Hospital while he was houseplyssician. They did not support the view which the nuthors took, but showed that the average day when the fundus had sumk to the brim was 9.12 when ergot was given once only, and 10.3 when ergot was given daily for three days. There were, however, other fallacies than thinse named by the ruthors, for in addition to the condition of bladder. reetum. thickness of abduminal wall, and weight of the uterus in the pelvis, there was the condition of the uterine axis, whether flexed or iuclined
antero-posteriorly or laterally. He had found in a number of consecutive cases taken at random that one-sixth of the uteri were in the axis of the body. These ought not to be compared with cases of auteflexion and version nsual to the uterus during the puerperium, as there might be a difference of three inches or more on this account alone. In one of Dr. Wakin's cases the fundus was found one day in the left hypochondriac region nine inches from the pubes, whereas in the next it was to the right of the middle line, and only measured five inches and a half. He agrecrd with Dr. Boxall that the lochia were a better criterion of the rate of involution, and in this his own figures did not agree with the anthors, for with one dose of ergot the average was 9.8 , with three days of ergot 11.6. With reference to the retention of clots and the occurrence of after-pains, he found that, out of 92 cases where ergot was given for tliree days, 51 ( 55.4 per cent.) had afterpains and 22 ( 23.9 per cent.) passed clots. Out of 103 cases where only one dose of ergot was given, 64 ( 62.136 per cent.) had afterpains and 141 ( 3.592 per cent.) passed clots, so that the ergot cases had fewer after-pains but passed more clots. The unergotised cases. like Dr. Boxall's, passed clots up to the tenth day, whereas the ergotised ones passed no clots after the sixth day. It seemed that the continuous use of ergot, by keeping up a tonic state of contraction, instead of allowing normal alternate contraction and relaxation. would tend to favour retention of clots, and to prevent the normal process of involution. This was, to a great extent, borne out by his figures.-Dr. SWayse wished to know if chloroform was used during delivery, and in how many of the cases? In order to ascertain accurately the effect of ergot given after delivery, in his opinion it was necessary to remove all disturbing influences, such as the administration of auresthetics during labour.-Dr. Herman, in reply, said that the cases observed by Dr. Dakin (which seemed to support an opposite conclusiou to that arrived at by Dr. Fowler and himself) were only given ergot for threc days, while their cases took it for a fortright, and he did not therefore regard the two sets of cases as strictly comparablc. The sources of error from the mode of measurement pointed out byDr. Dakin had been present to the minds of Dr. Fowler and himself, but there was no other mode which was not attended with sources of fallacy. Such errors as arose from anteversion and anteflexion of the uterus were equally distributed anong the two sets of cases, and so did not vitiate the comparison. Dr. Fowler and himself had paid particular attention to the occurrence of lateral displacement, and had found that it depended, in the majority of cases, on the position in which the patient had been lying. They had not referred to it in this paper, as it did not seem to have any important bearing on the subject of the paper. In reply to the question of Dr. Swayne, chloroform had been given in six of the cases, namely, three of each series.
The business of the annual meeting then commenced.
Financial Report.-The report of the anditors of the accounts of the Treasurer for the year ending December 31st. 1887. Was read, and showed a considerable increase of invested funds and balance at the bank.-lt was proposed by Dr. C. 11. Focti, secondel by Dr. Roarns, and carried, that the report be received, adopted. and published in the Transactions.

Election of Officers.- The list of ofticers for 1858 nominated ly the Couneil were declared to have been elected by ballot.

The Library.-A satisfactory report was read regarding the Society's library, together witli a list of donations of volumes and specimens received during the year.--Dr. IImman proposed. Dr. Gibbons seconded. and it was carried, that this be adopted.
Examinations for Miducives.- The report of the examinations in midwifery for the diploma of the Society showed that 96 eandidates had satisfied the examiners during the year. and that in this department raluable work was heing done.-Dr. Gatabin proposed, and Mr. Mereditir seconded, the resolution adorting this report.

President's Address,-The Presinent then delivered the annual address, at the conclnsion of which a rote of thanks was passer on the motion of Dr. Braxtos licks. seconded by Dr. Swayen.

Fotes of Thanks.-Dr. Porter proposed a warm vote of thanks to the retiring officers, which mas seconded ly Dr. Boxall, arml responded to hy Dr. Champareys and Mr. Albań Deran:
THE Medical Vers ( Ph hadelphia) states that the first recorder case in Ameriea of fatal odema of the larynx was that of General Washington. Ile was treated in aceordance with the antiphlogistic methods of his time. No local treatment, beyond the mhalation of the vapour of vinegar and water, was employed.

## StFDIC.II. SOCHFTY OF LOONOX. <br> Mosnar, lemmeary titu, lsR8.

 On Simpyemz. Dr. Cutaton disidel empyenu for practical purphans uto three catcorios, according to their position on the Guber, the hasal, and the innor aspects of the lung. Ile sais! varietios wore cansal ly athesions and by differences in the pus. by differnces in the size and shate of the chest wall. Disease of (uther organs might also exist cither as causing or comphlicating its treatnent. The liest kiul gave rise, as a rule, to lillle trouble. lut the second and third were different. De allutled to two eases of basal cmprema, where the abseess envities were with diffeulty got at. Jle dwelt nfen lle mecosity for any methodical exploration in such cases. In three cases out of eighty under his oare the pus-like dluid was in two cases foume to contain no pms-cells but cholesterine. and in ome ense minnte fat-globnles. The latter case and one of the former were cured by aspiration alonc. Ife ancutioned five cases of fatid empjean, fuar of which reatily recovered. The treatment of chouble empyema, and the dangers of aspliration and of too sudden removal of temsion even by jacision in cases associnted with heart -disease or great debility, were dealt with and illustrated by cases.

Thoracoplasty.-Mr. Iensec Gothn read a paper on thoracophasty, or listhaders operation, and related the histories of fonr cilses under his care. CiAse $1,-1$ girl, aged 9 under the caro of Dr. Gilbart Smith, at the Royal llospital for Diseases of the Chest, had in $\mathrm{Mnyy}^{2} \mathrm{I} 866$, suffered from left empyema for two years. The left chest was cunsiderably retractet, and there was a lrofuse diselarge of pus from a simus in the eighth intersiace iu the anterior axillary line. Mr. Gould made a yertical incision up front the sinus, and removed about an inch ant a half from each of the fourth, fifth, sixth, ant sesenth ribs. The girl left the hospital in Augnst, wuch iuproved iu her general liealth, and losing only a small quantity of sero-purulent flude from the old simms. Slie was readmitted in Janmary, 1887, as the discharge had become purulent and more ahmolant, and the cavity had not shown any further tendency to close. Dir. Gond repeated the former operation, and removed purts of the second, third, fourth, fifth, and sixtb rils, diviliug them at the antcrior and posterior limits of the empyema cavity. The child recovered. and was ricently shown at on mecting of the Society. The cavity in the chest is completely closed, and the girl's condition is very good. Casfe if was a boy, aged 9, also under Dr. Gilbart Smithis care at the Royal Ifospital for Diseases of the Chest. He was admitted in January, 1825, for fistulous empyemn, from which he hael suffered for two years. The left side was retractel; in it were two simises in the second and sisth spacus, which thischarged pus freels. The boy was ancunic thin, aml very delicate looking, his urine contained one-thirt its volume of albumed. and his fiver was considerably cularged. The sinuses were dilated, and the cority wats care fully drained and cleansed daily. Under this treatment he improved, lut after two montha matters came to a standstill, and on March 2sth Mr. Goulil explored the chest, fouml a considerahle cavity, and through a vartical incision removed considerable length of the second, third, fourth, fifth, and sixth ribs. The ribs were severed in front at their jnuction with their cartilages, and behind at the limit of the cavity. The very thick pleura within the ribs was also frely excised. The loy recovered well, and was shown to the Society. The left side of the chest is greatly flattened on all sides, and there is still a sinus which discharges a few drops chaly. Uis general condition is excellent. The urine is free from albumen, and the liver is not to be felt below tho ribs. C'sse 111 was a boy, aged le. who had measles followed by prommonia, and pleurisy six years lefore. Paracentesis wits pertormed twice. Further surgical aid was refused, and a year after the empyema lourst externally, and had contimend to discharge frecty ever since, a perion of five years. On admission the left chest was quite fixed, and presentenithree sinuses. The heart-beat was displaced outwards und upwards. On July 1 thh the sinuses were connected hy an incision, aml hall into a cavity through the second space, and the tissues were remowd from the second to the seventh ribs, which were then removed in toto, together with mach thick nell pleura. Hamorrhage was considerable but was c satrolled by irrigation; a counter-opnaing was made, and the opraning closed. The lad left the hospital on lugust 15 th with the wound almost healcd, and in very much improsed health. Caskiv was an adult, aged $2 \overline{5}$, who had pleurisy in 1S31, whieh was aspirated. After a varied hospital experience, she was admitted
with cunsinerable thateming of the right chest, aud with a fistulous ofening at the angle of the scaphala, and another in the seventh space holow the nipplt, which dixeharged abundance of futid pus. By means of an incision to n inches lomg in the axillary line the ribs from the secome to the ainth were excined, tifty-four inches in all. The phenra, which was pearly gn incla thick, was also frewly excised. She ilied suddenly the next morning. Tha heart was adherent throughonl, ami much disyladed and fitty. Mr. (inuld exphained the object of these operations mul their indications, but he deprecated resort to them morely to save time. lle insisted on the necessity for ..exploring the cavity before operating in orter to adhpt the, operation to each care. The success of the operation varied, but be maintained that this would be increased ti if was more extensively practised.
 Who was treated for eapyema nt tho Mostaninster llospital in 1SEt. Ife gave iv history of fistulous empyema on the luft side from Norember, 15s\%. Die wns a thin pale man, with a trace of allumen in his urimo A counter-opening was made by Mr. boyce lbarrow in the eleventh interspace behind, at the angle of the scapula, the tenth heing gouged to allow the passago of the drainagetube through the jueural cavity. The patient immediately improved, but it was fount impossible to lispense with the tube, so he invited a more rablical operation. Mr. Barrow consequently removed abont an inch of the cighth and ninth ribs, after which the cavity filled. np, and the patient made a porfect recovery. - Mr. J. Astley Bloxin showed a man, aged 27 , who had coughed up 30 ozs of pus on one occasion. The right site of the chest moved hadly, and was dull on percussion. There was also bulging. He mate an incision below the augle of the scapula, giving exit to a quantity of fotid pus, and inserted a drainage-tnbe. On June 20th it was found necessary to removo three inches of five ribs, after which the pat fent quiekly recovered, though the operation was rery severe. I piece of necrosed rib had subsequently. to be removed, and, recuvery was then completc.-Dr. Sxams Tuosipson observel that it was often difficult to know how many ribs to remove. lle agreed that it was best to remove a few ribs to begin with, and then remove more if mecessary--Dr. Whirs salid it was as gool to romore small portions.-Mr. R. W. Parker suggested that a free incision should be made, and the cavity scraped. Ile quoted a cnse of eponge-grafting which hat proved successful. In reply to Mr. Bloxam he explained that the sponge was introduced after the carity had, been scraped- - Ir. Bhosim expressed some incredulity on this point. as be bad never before heard of a surcessful attempt at sponge-grafting in such cases,-Dr. Symes Thonlpsos had seen sereral unsuccessful attempts when the cavity hal not been scraped.-Dr. Curcirton, in reply, said that he thonght the ele venth space too low; it thel not matter whero, the opening was so long as it was high enough.Mr. Gould, in reply, explained that he lid not intend the operation to be considerel as n routine operation, hut only as applicable to particular cases.-Dr. Hall, in reply, said he preferred to oppen in a dependent part with through trainage.-Dr. Cutratos adderl that the site hap preferred was tho ninth epace in the posterior axilary line--Mr. Buxam said that it bat only been by cutting away rib until enough had been removed that he had offected in cure.

## HUNTERIAN SOCIETY.

Weniesnaj: Jantary $20 \mathrm{TH}, 188 \mathrm{~g}$

## 1Hente Gimvis, M.D., Iresident, in the Ohair

The Theraperefical Indinations of Veurasthenia contrasted with thase of Mysteria,-Mr. De Brant liovela, said that as long as the pains and disahilities of the disorder termed hysteria were treated by coercive severity, by indifforence and inattention, on the groind that they were due to wilfulness, olastinacy and fancifulness, so long must that condition not only remain unreliesed, lat he aggravated and prolonged. Un the other hand, if irresolution aul incupability, that is, less of physical power and moral control represented the condition of the nervons system, whether it were termed "neurosis," " neurast henia," "nenrophthisis." nr any other name be given that philologists might deternive, the nature of the case undoubtedty demandex that means should be taken to improve the strength and raise the moral tone. Bearing in mind the division of this class of case into (1) simple, (2) irritative, and (3) depraved, it was obvioua that, before this could be done, all sources of irritation, both physical and anoral should he removed. The grent susceptibilits
of this condition to both man and irritation made this imperative. Nothing could be more amoying, or was actually the cause of more nischievous irritation to the patient, thin that her valid complaints should he received with incrednlity, and treated with indifference. The cases of M. Charcot, alluded to by Dr. Graily llewitt, in which pressure over tho ovaries produced convulsions, might very properly be termed "" hysterical." At the same time, it was clear that this effect poold not be produced if the nervous system were not in a very excitable condition. They clearly pointed out that a broad distinction shond be dramn between the state of the nervous system, and the source of "hysterical" irritation.' It was much to be regretted that these two things, so perfectly distinct, should huve heen so frequently confoumled. There was something very morbid about these cases, and he (the speaker) did not discover any therapeutic indications in the treatment adopted. It was also to be regretted that some practitioners still regarded the ralid complaints of patients deemed to be liysterical, as flctitious, and that others avowed that they still treated them with severity, because, within the last six months he had seen patients so treated, who declared that their lives had been marred thereby ; some were rendered indigmant, and others were lumiliated by the treatment they had undergone. The true therapeutic indications were to improve physical strength and raise moral tone. This was best done by restoring confidence and resolution, and promoting and cultivating self-reliance. Lady nurses might be trained to assist most carefully in this work, and it was especially desirable that the milky treatment so strongly advocated should partake of that of human kindness.-The PresiDENT, in thanking Mr. Hovell for his rery interesting and learned paper, said that he did not think that so great an anthority as Dr. Playfair could hare stated that patients cured of this affection never relapsed. In considering the etymology of the worl "hysteria," he believed that its use was liable to lead to mistakes, but adopting the term "neurasthenia," it must be remembered that the change wąs a moral as well as a physical one, yet it was a real and not an imaginary disease. He thought that love of sympathy was certainly a inotive in cases of malingering. $31 r$. Gimbert, from his experience in general practice, did not believe that Mr. Hovell's treatment was of any effect in a large number of cases. There was no real disease or paralysis except that of the patient's will. They might suffer pain for years, yet did not get tbin, but on the contrary fat. He asked what was the explanation of cases lasting for years, and then often suddenly getting well. There was the greatest difficulty in diagnosis when this condition was associated with or came on after organic disease or injury.-Dr. Graile Hewitr said the suhject was an exceedingly complicated one, the meaning of the terms used being very indefuite. There were strong reasons for using the term "hysteria." His attention was directed to cases of hysteria associated with attacks of convulsions and due to conditions of the nterus; these patients he found were almost always cured. $11 y$ steria comprehended cases in the male, such as Professor Charcot's cases of hystero-epilepsy, in which the character of the convulsions was the same in the nale as the female. An hypothesis might be brought forward to cover both of these classes. Might there not be a central exciting cause indistinguishable from the reflex form. He then referred to cases under Professor Charcot. The condition of the central nervous system was the most important consideration; the nerrous tissues were in a state of extreme malnutrition. and hence liahle to disturlance, and irritable to reflex stimuli. The Weir-Mitchell mode of treatment ly enforced food certainly rendered the disturbances less. On the other hand, the pains and disabilities of the patients were often very real, and due to conditions of the uterus. In this he agreed with Mr. Mlosell.-Dr. IIare Whire thought it dificult to sepmrate hysteria from neurasthenia; differences however conld bo distinguished, for instance, hysteria was eommon amongst persons of an emotional type, so was to be met with mostly in females, and was more common in France; acurasthenia, on the other haml, was more common in persons - Who worked hard, as in wew lork. Therefore he would not put aside the term "hysteria." Thedisease was certainly not roluntary, hence punishment and coercion were wrong methods of treatment. lle thought Mr. Moveli had overdrawn the picture. Coercion, properly so-called, was not adopted in homes; it was really an attempt to make the girls help themselves. The medical profesaion did not disbelieve in the reality of the disease. It was hypothetieal to suppose that cither of these was due to the symunathetic nervous system, as nothing was known of the working of this system.-Dr.R. J. Ryle discussed and contrasted the etymology
of the terms "neurastheniu," "ncurophthisis," and "neurotabes." -Mr. De Beflut llovelea in reply, said that his object was not to insist on the actual meaning of the terms, but to separate cases.of hysterical origin from those of neurasthenia.

## 11.ARVEIAN SOCJETY OF LONDOS. <br> THCRSDAI, FELRUARY 2ND, 1858.

Hildids SELGWICK, 11.R.C.S., President, in the Chair.
Intestinal Olstruction.-Dr. Down read a casc of fatal intestinal obstruction, due to a rare form of internal hernia. The patient was a woman, aged 56 ; no children. The symptoms of obstruction were fuirly acute. Manual exploration of the rectum gare no result. Abdominal. section was discussed, but not performed. After death the caeum was found near the middle of the abdomen, and, together with the ilium, was obstructed by a band, which proved to be the right Fallopian tube, which was greatly elongited and adlierent to the ilium and duodenum. Deatli was due to perforation of the cecum, followed by fucal extravasation. Dr. Down thought the post-mortem appearances showed that abdominal section might have been successful, although the Fallopian tube would have required division.- 3 . Lockwood remarked upon the position of the perforation, aud said it was in the usual place. He thought an exploratory operation would have afforded a chance of relief.- Dr. D'Aruv Power wished to know whether there was any history of previous attacks of peritonitis.-Dr. Handflehd-Junes spoke of the rarity of the condition, and wished to know whether the Fallopian tube was adherent to the cacum.-Dr. Dows, in reply, said there was no history of previous attacks of peritonitis, and that the Fallopian tube was adherent.

Treatment of Loose Cartilage in Knee-Joint.-Mr. Merbert ALLLNGHAM read a case of suture of the internal semilunar cartilage of the knee to the head of the tibia. The patient was a man, aged 35, who had been coustantly laid up by slipping of the internal fibro-cartilage of the knee. An incision two inches long was made, with its centre over the cartilage. The knee-joint was opened, and a strong catgut passed through the fibro-cartilage and the periosteum of the upper end of the tibia. The joint was washet out with carbolic lotion, and the synovial membrane united with deep catgut sutures; the wound was then closed without drainage. The patient, who was shown to the Society, made a goud recovery, and can now follow his employment.

## ROYAL ACADEMY OF MEDICIN゙E IN IRELAND.

 SLRGICil SECTIO:Friday, Jantary 20 TH, IS8E.

1. II. Corley, M.D., President, in the Chair.

The Treatment of Adranced Cunditions of Equino- Tarus.-Mr. Swan read a paper on the treatment of adranced conditions of equino-varus, which he maintained to be curable by proper treatment, carried out before the expiration of the first year of life, or before walking had commenced. After three or four years had elapsed a modified result might he obtained, but the treatment would bo prolonged and difficult. When the patient had reached the age of 10 the tarsal bones were thickened; the large adrentitious hursa was defise, and inchuded in its base the cuboid and the tarsal end of the fifth metataral bones. In such a case ablation of a portion of the tarsal boues was indicated. The portion remored should consist of the anterior three-fourt hs of the cuboid bone, all the external cnneiform except its posterior part, the proximal extremities of the third, fourth, and fifth metatarsal bones: and the apex of the wedge would consist of a portion of the middle cuneiform. The mobility of the foot would remain almost unimpaired; and, as the metatarsal hones had their epiphyses at the distal cond, it was probable the development of the foot would not be interfered with. He had performed this operation in thirtr-four cases since 1876.-Mr. Wr. Thonsley Stoker and Dr. Gess took part in the discussion, and Mr. Swas replied.

The Surgery of the Thyroid Cland.-Mr. For read a paper on the surgery of the thyroid gland. After tracing the history of operations for the ablation of the gland and extirpation of tumour. he compared the modern operation of Dr. P. IL. Watson with that recommended and practised by Desault at the 1100 tel Dicn in 1791 . lle condemned the many minor operations of setons, caustics, injections of irritants, and tappiag, nad gare the history of a suc-
cessinl remowal of a eysto-atenoma from the right loter of a young murriel woman's thyroil.-The prosinent said that Dr. 'l'. If. Hatson had ndvocated the operation for the complete removal of tho gland, whilo at the same time indicating that the surgeon must he prepared to see the patient die on the tahle-n fatulity which oceurred at lenst onee in that distinguished surgeon's practice; and he dwelt strongly on the necessity of leaving the capsule untorn, especially the capsule surrounding the rescels.-Mr. Story inquireal what the indications were fore perating on tmmour on the thyroid gland.-Mr. lifindal limasise did not think the siza of a tumour in the neck a gnide to operative procedure. Small tumours indicating a tendency to press backwarls and sometines down umber the top of the sternum caused great dyspnoza und endangered life.--3tr. W. Thorvley Stokfr had operated in several cases of coitre, hoth by removal and by division of the isthmus, and in his experience the operator must be prepared for terrihle hremorrhage. He condemned, with Mr. Franks, thes practice of passing a seton through the gland. The rationale of the operation of the division of the isthnns was that it limited the bool-supply of the gland. He found it gave relief for the time and set the trachea free. As regarded the opening of the capsule be had no decided opinion, being unable in his operations to find out where or what it was; for, when he cut down on the disensed structure, he came on the gland covered by enormons veins, some as hig as his thumb: and whether these were inside or outsido the eapsule he had not been able to determine.-Tho Prasidfint said that thirteen years ago he had a case of ache goitre, and, at the suggestion nf Dr. P'urser, he had given five or ten grains of puininc three times a day, and in a reek or ten days the growth stopped. Happening to be with Sir William Mac Cormac in St. Thomas's llospital, he saw a patient with a tumour on the front of the neck that grew rapidly, and he mentioned the quinine cure. Sir William Mac Cormac tried it, and in fourt een days the growth ceased and the patient recovered.3r. For, in reply, considered that the operation was justified when the tumour was growing quickly, when dyspnaa or dysphagia was markcd, or when any evidence of malignancy was present, and alan when the most improved intermal and external medication hat not given grod results. In the swampy districts of the Carolinas a malarial type of goitre was prevalent, which was amenahle to treatment by quinine: but the occurrence of such cases in this country must be very rare. Setons, tapping, and caustics wero not free from danger, and in many cases did not give favourable results. As for Sir Morell Mackenzie's method of injecting perchloride of iron, he mentioned it only as a treatment most unsuitable and to be avoided.

## Sectinn of Anatomy and Pifsiology. Frimay, Jantary 6tit, 1888.

II. St. Jons limoons, M.B., President, in the Chair.

Sotes of som Nervous and Arterial Anomalies.-Dr. Ambrose Bimmarimam read a japer on this subject, which was discussed by the limesident and Profissor Cusingainam.

An Effect produced by Direct Stimuktion of the IFerrt. - Dr. Persen made a communication on the results which follow direct stimulation by single induction shocks of the different parts of the heart of the frog. Attention was parsicularly called to the panse which is sometimes observed without the occurrence of any extra contraction.

First Dorsal Interosscous. Muscle supplied by the Median Xirle. -Dr. Brooks read a short paper on a remarkable case of variation in nerve-supply that he hat recently observed. The branch of the median to the first lumbrieal muscle was larger than usual, and, after suphlying that mascle, pirrecel it, and united to form a naccous ureh with a twig from that branch of the median which rivides to supply the contiguous sides of the index and misdle fincers. The fatter twighad no connectinn with the nerve to the seeond limhrical. The arch thus formed hy twigs from the median nerve lay under cover of the long flexor tendon of the index fingrer, and gave off in this situation two twigs to the meta-carpo-phatangul articulation of the index linger, and a strong twig to the first dorsal intarosstous muscle. The nerye was traed into the muscle, and was found to end chicfly in its distal part the proximal part of the muscle was supplied hy the nimmal branch from the dery patmar division of the uhar. The uinar twig communicated by two or three excessively time fllaments with che aboormal merlian twig in the substance of the musele. I microscopic examination showerl that there were not any
"nerves without ends" in the loop above described. The two factors of the loop entered about equally into the composition of the nerve to the interosseons musele. Ile believed this variation to be nimiue. It appeared as if there were in the limb several main lines diverging from the lrachial pexus, and meeting again at their terminations in the hand, and that at the points of divergence a shunt of fibres, as it rere, might take place, and almost uny nerve pass to its destination by an unusual route.

On the Distribution of the Cutaneous Jiverves on the Dorsum of the IIuman ILand.-Dr. Brooks also read a paper on this subject, in which le showed that the arens of distribution of the nerves often overlapped one annther. In five cases, which he had dissected for the purpose, he had found the radial and dorsal branch of the ulnar nerves orerlapping for a certain extent. In the case that he had examined with the greatest care, they overlapped in their distribution for the extcut of three fingers (index, middle, and ring), with a correspending area on the back of the hand. It e had also succeeded in tracing tilaments of the musculo-cutaneou and external cutaneous branch of the musculo-spiral overlapping the radial and ulnar; the mnscule-spiral in one case reaching the metacarpo-phalangeal articulation of the little finger. Hle found that the dorsal nerves extended in the casc of the thumb and little finger as far as the nails, in the index and ring fingers as far as the cecond interphalangeal joints, and in the middle finger only as far as the first interphalangeal articulation. He had found the palmar nerres taking part in the dorsal supply of all the fingers, not excepting the thumb; in several cases he had traced stromg branches of the median passing under the thumb nail, and ramifying in the bed of the nail. It was well known that the median and uinar nerves encroached on one another's domains; some remarkable and instructive cases of this had been recently describerl by Dr. Mepburn, but he had not met with any record of the nerves overlapping in the literature of the subject except that in ono of Henle's figures it was shown to a very slight degree, but not described in the text. Through the kindness of Mr. Wheeler, the author had had the opportunity of examining a patient in the City of Dublin Hospital who had nadergene the operation of section of the ulnar nerve. Sersation was completely loat in the little finger, and half the ring finger, and over a corresponding area of the back of the hand. Over the greater part of the dorsuma of the hand, as far as the base of the index finger, the sensation was very perceptibly dulled.-Dr. Cunnisgham said there was not the leust deubt that Dr. Brooks had made out a perfectly new point in regard to the intercrossing of nerres. All wero familiar with the great variation in the nerve-supply of the skin, bint they considered hitherto that when one nerve advanced into the territory of another, the nerve so invaded retreated. Now Dr. Brooks had shown how completely erroneous in this respect their impressions were-Dr. Brooks, replying, said the point he contendel for as new was the overlapping of the nerves; for it was alreally well known there was a struggle between the two nerves-sometimes the ulnar nerve going to the radial side, and the radial to the ulnar side.

SOLTIL INDJAN BRANCII.
Saterday, September 3rd, 1887.
Deputy Surgeon-General S. B. Koz, C.B., in the Chair.
Tithotomy.-A serics of cases of suprapubic and lateral lithotomy were related and specimens exhibited.-Assistant Surgeou STAMSTON Enbmitted two cases of Suprapubic Jithotomy : (1) a Jirahmin boy, aged 13, who had sufferal from symptoms of stone for probably nine years: after the stone had been removed (with lithotomy forceps), a large drainage-tuhe was inserted at the lower crid of the wound, and the upper part lorought together by thick silk sutures, including the whole thickness of the abdominal wall; the highest point touched by the temperatare curve was $103^{\circ} \mathrm{F}$. on the fourth day; the drainage-tube was removed on the (we)fth day, and the fistula was (tuite healed on the twenty-thirn day; (2) an emaciatcul nan, aged 2l, who had suffered from sympitoms of stone from the nge of 7 or 8 ; at the operation the lhadeler, which was much intlamed and thickened, containel fertid pus; two narrow thbes were inserted, and the upper part of the wound brought together with deep silver and superticial silk sutures; the phitient did not do well, the wound did not heal, roniting and insommia persisted, and he passed into a typhoid condition and died on the twelfth day. Mr. Staunton consideral that it was best to distend the rectum lefore filling the bladder.-Brigade-Surgeon Fox related two cakes in which he had romoved
a mulberry ealeulus by the lateral operation; in one cuse the stone weighed an ounce and a lialf: both eases came from the same village in the North Areot District, where calenlus was very rare. He also showed a stiek, $6 \frac{1}{2}$ inches long, thiekly conterl with phosphate, and having a piece of cotton at one end and a phosphatic the other; it liad been removed from the abdomen of a young woman, aged 22. A midwife, with the object of procuring abortion, had intended to pass the stick, armed with some irritant, into the womb, but had passed it iuto the bladrer instead, where it appears to hare remained rather more than two years; then a fistula formed at the navel, through whieh pus and urine, and subsequently fieces, eseaped. In order to extract the stick an incision four ineles long in the middle line of the ablomen was found to be necessary. She remained in hospital a little over three months, and shertly afterwards the fistula closed completely. She was agrain seen about sixteen years after the operation, when she was in goor health,-Brigade-Surgenn Sinthonpe showed a ealculus the size of a hen's egg, weighing four ounces, and consisting of a nucleus of oxalate of lime, coated with phosplates, which Iad been removed by the suprapubic operation from the bladder of an emaciated llindu, aged 40 , of intemperate habits. The patient made a remarkably good recovery, the wound healing in twenty-three days. It was found to be impracticable to suture the wound in the bladder owing to its length; a drainage-tube was accordingly used. This patient also came from North Arcot. Dr. Silthorpe also showed specimens from a case of urethral calculus, an account of which will be published subsequently.

Ovariotomy.-Surgeon J. SMYTH, M.D., read the notes of a case of large multiloeular orarian eystoma in which he had performed ovariotomy. The patient made a good recovery, though sle was for some time troubled by severe neuralgia of the anterior erural nerve.

Severe Injury to the Spinal Cord.-Brigade-Surgeon Sibthorpe related the ease of a young man who was admitted into the General Hospital six days after a severe blow in the interscapular region, which was immediately followed by extensive paralysis. When admitted he was paralysed in both upper and lower extremities, respiration was almost purely diaphragmatie, the accessory museles of respiration also moving the upper part of the chest somewhat; there was anresthesia below the nipple level, and in the upper extremities below the elbows. Ile gradually sank and died on the serenth day. A few hours before death the temperature began to rise rapidly, and finally reached $109^{\circ} \mathrm{l}^{3}$. in the mouth. At the necropsy the anterior part of the body of the fourth eervical vertebra was feund to be bruised, and the memhranes of the cord were at this level injected; the cord appeared normal externally, but on section a patch of red softening, the size of a large pea, was seen in the centre, jnst below the third pair of cervical nerves. The cord appeared to be otherwise healthy. The internal organs were congested, especially the posterior border of the right lung.

Cases of congenital sebaceous eyst and of impacted intraeapsular fracture of tlie femur, also reported by Dr. Sibthorpe, will be subsequently published.

## THE CLINICAI SOCIETY OF MANCHESTER. TUESDAT, JaNUARE 1'TH, 1888.

S. Wooncock, M.D., President, in the Chair.

Etiology of Pelvic Disease in Women.-Dr. Le l'age read a paper an the etiology of those pathological conditions in woman whieh had their origin in the pelvis. The prineipal points in whieh woman cliffered physiologically from other females were considered. In the lower animals, the rut was short, the anti-rut long-that is, sexual activity was of short duration; sexual repose was prolonged. In woman, there was no interval during which the sexual passion was in abeyance. The life of a woman naturally divided itself into three periods: 1 , the pre-menstrmal; 2 , the menstrual ; 3 , the post-nuenstrual; and many of the diseases of Fomen may be traced to the first period, the whole of which was occupied in the development of the organs of sex. The canses of pelvic disease, oprating in the period bounded by the maturation of the sexual ormans and the decadence of generative functional activity, were tlen reviewed.

IIydroneyhrosis. - Mr. Bismop showed the kidney of a patient sufferiag from hydrough hrosis, whieh he had rewoved a month before; also, a microscopieal section of the degenerated renal tissue, showing the atrophied Dlalpighian tufts and tubules. The
operation was post-peritoneal and extracapsular. Some collaper followed, but the patient made a good recorers.

Convelsions in Pregnancy.- Ir. W. Bais read notes of a ease of convulsions in a pregnant woman, aseociated with albuminuria. -In the diseussion whiel followed, the l'resithent, Drs. Railtor Bheiley, Boddy, and Mr. Frank Holmes tonk part.

## REVIEWS AND NOTICES.

The Volcanic Origin of Epidemics. By Johin Parkin, M.D., F.R.C.S., formerly Her Majesty's Inspeetor for Cholera in tho West Indies. Popular editiou. London: Sampson Low and Co. 1887.

Tuis volume is a sequel to the author's essay on the non-contagieusness of epidemies. It is the outward and visible sign of a desire to supply a hypethesis in place of the one which has been demolished-to his own satisfaction-in the earlier work. The various and changing theories whiel hare prevailed on the subject of the causation and nature of diseased conditions give a certain plausibility to the author's attack on the riews which now obtain of the operation of contagion and the communieability of epidemies. The auther first deals with the influence of the different factors which go to make up matter, and he shows that neither heat nor cold, dryness nor humidity, are per se possessed of a constant power in the spread or otherwise of most of the so-called contagious diseases. Maving disposed of electricity as a possible eausatire agent, the author arrives at the conelusion that the morbifie influence is contained in the atmosphere, an inference which he supports by numerous iustances of the effect of particular winds on the course of prevailing epidemics, and hy statistics which tend to prove that during certain cholera epidemics in England the persons who suffered most severely were those whose occupations were outdoor.

Having demonstrated to his own satisfaction the existence of the morbilic agent in the atmosphere, the author proceeds to inquire into the nature and origin of this agent. Not being able to aecount for it by any alteration in the chemieal affinities and properties of the air itself, nor by anything generated on the surface of the earth or on the bodies of men, he suggests a glanco into the interior of the globe. The willingness of the reader to follow the author in this Jules-Ferne-like excursion is promptly repressed by the information that, as we camot very well aet on his suggestion, Te must content ourselves with what information we can glean from the manifestations of intra-terrestrial ehanges as seen in voleanic action. Close observation of these phenomena has euabled the author to formulate the following laws: (1) That the effects of rolcanic action are felt and witnessed along particular lines of the earth's surface; (2) that these plenomena are regular in their progress, both ehronologieally and geographieally: (3) that they are characterised by a limited duration and a periodical return.
These peeuliarities, the author urges, are strictly noticeable in the evolution and progress of epidemie disurdere, both sorts of plenomena being governed by the same general laws. He argues, therefore, that the one set is an effect of the operation of the other set, and, as it would be hazardous to pretend that epidenics started voleanic activity, voleanie action is creditex with producing the epidemies. It would be unkind to discuss the logie of such a proposition from a scholastie point of view: it resembles the well-known transition from pigeon pie to fish pie
The author has eollected a large number of intelligent observations which, while useless and even pernicious as eridence, are nevertheless of value, if only to demonstrate that the exception proves the rule.

Bequests.-Mr. John Godfrey Morris, of Birkenhead, bequeathed $£ 500$ to the British llome for lneurables, $£ 3100$ to the Stratford-on-Avon Dispensary, and £300 to the keesham Ioving-in Hospital.-The Halifax Infirmary has received f419 10世. under the will of Mrs. Hargreaves.-Mr. Danes Johason Ellis, of West larleigh, bequeathed $£ 100$ to the West Kent General 11 ospital, and sluo to the Kent County Ophthalmic Mospital.-The Quet in's Hospital, Birminglam, has beconte entitled in $£ 100$ under the will of Mlr. Franeis Deakin, and $£ 100$ under that of Mr. John Stubls.Mr. Robert Caddell. of Marbourstown. Meath, bequeathed ${ }^{2} 50$ to the Jater Misericordise IIospital, Dublin.

## NOTES 0N BOOKS.

Contmpnranemzs Purtraiture-Linder the title of Men and Women of then Day: a Portrait Gallery of Contemporancous Portraiture, Messrs. Richard lientey und sons are issuing a series of photugraphs ly Mr. Memby bimramo, the well-known photographer of 2bi3, Oxford Street, whose medical photographs have long held a very high position, and whose partruit grouns of the International lledicul Congress wero a great success. The present issue consists of permanent photographs printed on thick millhoand (any of which can be framet) issued in monthly parts at two shillings and sixpence: each part contuins three large panel portraits, so that the annual volume will contain thirty-six panel port raits for thirty shillinga, pach piet ure being considerahly less than half an ordinary calinet in price. The portraits in this first part are of palitical and other public personages. The forthcoming numbers will contain portraits of Sir James Paget, Sir William Gull, Sir Morell Mnckenzie, Sir Joseqh Lister, and we lrelieve also, at an carly date, M. Pasteur and many foreign medical celebritica. Such a look forms a delightful record of our most eminent contemporarics as seen in the life, and the three photographs issued are triumphs of photographic portraiture and of permanent purinting.

Calf Iymph Culture und Tinceination. Byy O. Penfolid M.R.C.S.Eng.-This pumpllet alywars to he written for nonprofessional renders, Mr. Peufuld has prohalby not studied the manner in which calf wnecination is carried nut in England, or he would know that the eighth day is certainly net the lest time to take lymph, ns, hy that time, it has unilergone marked degeneration in its powsers of kerying: mnt, if transmitted from calf to calf, the resulting vesieles, in the course of a few generations, become useless. The addition of any preservative subistance to lymph is uunecessary, and strongly to be deprecated; for, if lymph be taken on the fourth or fifth day (ninety-six to one hundred and twenty lours after vaceination), on ivory points, and allowed to dry; or in capillary tuhes, and hermet ieally sealed, it muy be nsed with satisfactory results, the former method of storage heing preferuble for the vaccimation of children. The author prefers calves frem eight to twelve months of age; this is, in Hurope at any rate. too old, the best age being ahont four months, the skins heing much softer aud the animale more casily munaged. The case of vaccimation with human lymph which is quoted is decidedly not typical of the current raccination in this country: the lympla was probably taken from a degenerated source. Lastly, we aro surprised to find Mr. T'enfold upholding the anticpunted quarantine Eystem, which has an conspicumaly fuiled wheneser tried, except on the very smallest acale. Upon vaceination and ravaceination only can a community suffly rely for freedom from smallpox.

## REPORTS AND ANALYSES

## DESCLIPTIONS OF N゙EW INVENTIONE,

IN MEUICSSK, SURGERY, DIETETICS, ANI THE ALJED SCIENCLS.

## NEW CCLTLVATLNG TUBE.

Is the belief that any simple contrivance which is likely to diminish the risk of accidental contamination in the employment of liquid cultivations will he welcomed hy breteriologists, 1 am induced to send youn drawing and description of a form of apparatus which I haver recently mate use of. It may he lescribell as an ordinary test-tube witha blind hateral arm about two inches in lengeth. This arm joins the main tulhe almut two inches from its lower emb, and forms, with the proximal part of the tule, an angle of about $45^{\circ}$. The tulue is pluggend with entton-wool and sterilised. It is them filted for about an inch and $a$ half of its depch with the lignid medium, and sterilised in the usual manner. When the tule is to te incmulated it is slowly inverted, so as to nllow its liquid contents to tlow into the lateral arm. While the tube is thus invertel, the enton-wool plug is removed, and the sed materinl in introduced up to the hettom of the main tube, in procisely the anme manner as ono inoculates a tube of solid gela-
i ine or agar material. The ineculating nealle having been withdruwn, the blug is replaced, and the tube returned to what may bo called its erect position, tho liquid being thus lrought into contact with the seed material.


The only special precantions to be observed in using the tube are-(1) to use of the liquid medium a volume slighty smaller than the capacity of the lateral arm, and ( - ) to inrert the tube slowly, furning it in a vertical plane towards the lateral arm. By attending to these points one can aroid the risk of part of the contents being poured out of the tube. The tubes necessarily cost a little more than the orelinary test-iubes, but, if made of stout glass, they can be used again and again. There is no difficulty in cleaning the lateral arm by shaking with a small quantity of shot. Edinburgh.
J. McFadyean, M.B., C.MLEd.

## GAMble's miroutd method of warming and Vhatilatiag dwelling houses, offices, AND THE LIKE.

THis is a system of warming and ventilating rooms by menns of heated air which has heen patented by Mr. J. H. Gamble. It is in principle a modifiention of Galton's grate and the Manchester sehool grate, in which fresh air is warned ly circulating round the hack of a stove, and is then admitted into the room about on a level with the chimney hrenst. In Mr. Gnmble's method the external air is conducted to a conmprtment surrounding $a$ stove of special construetion or an orilinary kitchen range situated in the ingecment of a house, and then passes up a shaft to be distributed to the upper rooms. The products of combstion of the stove in the hasement are carried off by a metal flue which passes up through the warm air shaft, and hy this means the waste heat is made to contribute to the heating of the fresh air supply. It is claimed ly the inventor that roons thus euplied with warm air will not require apen firephaces, which serve nnder his method for the admission of warmed air, and are provided with valves for regulating the same. In Mr. Gamble's system mpans are also prosided for carrying away the vitinted air lyy exhaust shafts, hat about these thicre is nothing special. It is iffficult to see how tho syatem could bo applied to existing houses without great structiral alterations, but for hetr baildings in courso of construction,
especially for workhonses, hospitals, puhlic offices, ete., the system might very probably be effeetive and cheap in working.

## ST. JAMES'S RUM.

Ir is a well-known fäct attested by M. Girard, the official analyst in l'aris, and much deplored lyy lirench growers, that, owing to the rarages of the oidium a comparatively small part of what is sold as French brandy is the unadulterated produee of the grape. Enormous quantities of elreap rectified potato spirit are imported into France, and re-exported after manipulation as cognac. Such doctored and manipulated spirit. which constitutes a very large proportion of what is now heing innocently $y$ used in hospitals aud sick roomis as old cognac, is made up of this falsified and deleterions material. Under the circumstances it may he well to turn artention to the unadulteratel product of our own colonies, and it will not be surprising. if the pure, old-fashionel, and wellmatured rum of the British colonies shonid come into more general use where it is desired to prescrile a stimulant. Rum and milk used to he a favourite form of melicinal stimulant, and nutritive, and in the nary grog made with rum is we believe at: least as popular as cogmac, and has the advantage of being cheaper and purer. The "St. James's Rum," of which speeimens have been sent us ly Messri, G. W. Christie and Co., 25, Milton Street, Cripplegate, E.C.. has an established repntation for age and purity, and we are inelined to. think. that the eonsiderations to which we hare referred should frequently recommend it in place of the artificial comporuds whieh now so largely pass current as French brandy.

## aURIL TUBES.

Wr have receired fromi Messrs. Creswick, of Great l'ortland Street, W., $\Omega$ collection of their ear tubes for deafness. They are constructed of thin pasteboard, with ear pieces of tinned iron covered with india-rulber tubing. They are made in rarious sizes and shapes, and some of them by means of a telescopie arrangement can be drawn out and lengthened when necessary to sereral feet. They are liglit' and portable, can tie used for close or distant conversatiou, and are entirely free from the confusing roar of the ordinary metal tube. They were originally male from a pattern suppliei by Dr. C. J. B. Williams, who speaks of them in lis Memors in high praise. We can fully endorse his opinion: "The superiority of these pasteloard cones over those of metal lies in their convering the sound vibrations through their light material by eanduction as well as by reflection and in their being more free from the eeloes and ringing sounds developed by metals." These tulees possess the further reeommendation of cheapuess, varying in price from 4s. 6d. to 10s. 6d.

## EXTRACTUM COLLINSONI E CLLADESSIS LIQUIDUM (1OCK1N).

('ollinsonia Canadensis is a perenimial herb of the nat. ord. Labiata. growing in North America from Sonth Carolina westward. Although it is not oflicial in the British or United States Pharmacopceines, it has accinired some rephatation as being of value in affections of the genito-urimrry traet. Messrs. Hockin, Wilson, and Co., of Duke Street, Manehester Square, have prepared a liquid extract of sueh a strength that the dose is half to one fluid draehm, and recommend its employment in cystitis, gonorrlhea, leueorrhœa, and similar affections.

ROYAL COLLEGE OF SURGEONS.
An ordinary Couneil Meeting was hehl on February 9th. The minntes of the extraordinary meeting of Jannary 19th were read and confirmed.
The Museum Conmittee presented an ordinary report.
Mr. J. 11. Targett was appointed assistant in the I'athological Depiartinent in the Museum.
The Council authorised the arehiteet to proceed with the construetion of the new huildings on the Embankment.
The Council clected Mr. C. A. Ballance as Erasmus-Wilson Leeturer.
Mr. Sibley moved:-
"That, in riew of the increasing complieation of the accounts of the College, it is desiruble that a Finanee Committee be appointed to suprerinteud the accounts aud finance of the College, and to report thereon not less than twice in each year to the Conncil."
The motion was carried.

## BRITISII MEDICAL ASSOCLATION. SUBSCRIPTIONS FOR 1888.

Sunscriptions to the Association for 1888 became due on January 1sh Members of Brauches are requested to pay the same to their réspective Secretaries. Members of the Assnciation not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, Loudon. Postoffice orders, should be made payable at the West Central District OMfee, High Holborn.

## (1) \& British flcoicil! (3)umat.

SATURDAY, FEBRUARY 11 TH, 1888.
DR. NAPOTHER ON TILE DUBLIN SCHOOLS AND THEIR TEACHLNG.
While the General Medieal Couneil keeps a peremial and expensive watch over the portals of our profession, lest any shơld enter them who are unfit or remain within them who are unworthy, we are startled from time to time to discover, by chance as it were, how' somnolent is the guard it maintains, how careless it is of the interests entristed to it.
It comes to us, for: instance, as a shock, when an ex-President of the Royal College of Surgeons in Ireland assures us that, in the great 'teaching centre' of Dublin, the study of pathology is almost whully neglected; that of the sis or seven medical sehools of that city, only two possess pathological muscams ; that' in the ease of three of these institutions at least a proper course of pathology is an impossibility : that tho Pathological Society, now is section of the Roral Irish Academy of Medicine, throws open its doors in wain to the students of medieine, only 1 per cent. of whom arail themselves of the generous offer of the Society, although it was to this body that Graves looked so long ago as 1813 for the new birth of Irish pathology, when he levelled his satire against its absence from the curriculum of many an Irish surgeon. It seenis almost as though forty sears had passed in rain, and that it was to the student of 1888 , not to those of $183 \overline{5}$. that that distinguished physiciau drew his picture of the clinieal practitioner, taught solely at the bedside, numed with a knowledge of a formidable system of symptomatology, of nosology, and of therapeutics, but ignorant of morbid amatoms, the motlier of them all. He describes such a man attacking a case of dropsy, trying remedy after remedy, while the patient grows worso and worso under his treatment, and finally dies. "But," says Graves, "the frionds are uot dissatistied with the medical attendant, who excuses himself by asserting that he has suceessively resorted to overy remedy which has been recommended in dropsy; and, in truth, if you look over the list of medicines exhihited in rapid succession, you will probably find that his excuse is not unsupported ly facts. But, gentlemen. these cases in which everything has been tried are preeisely those in which nothing has been tried, in which medicine has followed medicine, and each synptom of diseaso has indiscriminately
been the ohject of attack, until leath approaches with aecelerated steps, and claritably closes a scene disastrous to humanity and disgracefn! to the eanse-! whs going to say of science, but who will venture to give so ennobling a name to this pseudopractical knowledge, this worse than actual ignorance ?"

And we have reason to fear that these just reproaches apply not only to the schools of Dublin, hut to several of the smaller institutions of a like naturo in other parts of the United Fingdom. What worth, then, can the Medical Council's visitation of examinations have when the original toaching, of which examinations are only a test, is totally and confessedly mouexistent?

Is it right that men should bo poured into our profession imorant of so important a part of its essentials? That they should be declared fit to hold appointments under the State; to give oriclence in casos of jurispruience, where life and death hang in the balance; or to treat the siok and suffering throughout this vast empire, where neeessarily in many instances the passession of legal qualifications is the only test of knowledge the people can apply?

It is woll that Dr. Mapother should hare exposed, with it rare courage and faithfulness, this weakness in the teaching of his colleagues; but it is not well that, with officials excessively paid, whose principal duty it is to see that such scandals do not occur, it should have depended on the patriotism of a privato individual to publish them to the world, and to devise means for their removal.

The Medical Conncil could, with one stroke of the pen, have removed the reproach. It had only to declare that no medical seliool should be recognised which did not possess an efficient and growing pathological museum, and did not provide a properly qualified pathological lecturer, and to decide that in future, to merit recognition, the teaching of morbid anatomy, both macrosenpic and microscopio, must bo far other than the sham it too often at present is.

We can only trust that the elective members of the Council will rouse that sommolent boily to a cluo recognition of its responsibilities and shortcomings in this and some other instances.

Another suggestion of Dr. Mapother's camnot le quite so casily socoptod. That the amalgamation of several of the Dublin schools and the refusal to reccive certificates of attendance on elinucal iustitutions containing fower than 150 beds would in some ways be heneficial, wo cannot doult; lut the alvantages are not all on the side of large schnols. No one who has observal the overcrowded condition of the clinigues in the Edinburgh Cuiversity, for instance, or has inquired into tho opportunities tho individual student has in that vigorous school for ohtaining a practieal isequantance with the smaller operations, such as cathoterism, ete., which ure so necessary in practice, can deny that something at least can be advanced on behalf of smailer and less crowded schools. It was Graves, again, who, said with much truth: "Jiverything like monopoly tends to retard the advancemont of science, and I see un renson why a

Inspital with 50 beds shonld be inferior to ono with 100 . It is not the quantity of disoase a teacher treats which renders his lessons instructive; his diligence and accuracy of observation are the best means of instructing his pipils." And porhajes one of the strongest arguments against Dr. Mapothers proposition is that it would elosu the Moath Hospital itself, roudered illustrious as it is by the teaching of Graves, and where Stokes roceived a great part of his clinical training.

Certain members of the Medical Council bare proposed to meot tho difficulty by making a closo and exhaustive induiry into our medical schools, and the opportunities and arpliances they possess for instructing their students. It ought to be recognised that the existence of any particular medical school is only a necessity in so far as it ministers to the welfare of humanity by thorough and successful teaching. Such inspection of schools would do much for the settlensent of controversies like the present, but would be very costly.
It has been proposed to extinguish every school, be it large or small, where the teaching is inefficient, paying especial attention to some smaller schools, whose sole excuse for existence soems to be that they may afiord a back-door for the admission of middle-aged druggists and unqualified assistants into our already overcrowded ranks. We hope and trust that the medical schools of Dublin, under this or like necossary pruming, mill soon take their proper place among those of Europe. Thero is, indeed, no reason why they should not. National questions ought not to affect them, for science is independent of Governments, and should flonrish in every political clinnate. From autocratic Russia, from aristocratic Germany and Austria, from constitutional Britain and Belgium, from republican America and France, have come the leaders of scientific thought, without distinetion and without preference.

Let not thon that Irish sehool which produced Graves and Stokes, Corrigan and Mac Cormao, Crampton and Mayne, be contented with anything lower than tho first position in our empire. If her children, wise in cheapening the means of learning, are equally sensible in exacting a high standard of attainments, her future is secure. For those children are exceptionally fitted to adorn our great profession; their warmth of heart, thoir brightnoss of wit, their vigour and vorsatility of intelloct, are qualities which, if properly direeted, will raise thoir manyhoaded mother, "dear old Dublin," to that place in the inedical republic which she now occupies in the loyal hearts of her faitlıful sons.

## THE GERM-THEORY A CENTURY 1 GO.

In a pamphlet of 87 pages, published in London in the year 1788 , there is a curious anticipation of the morlorn germ thoory of disense. Tho author does not give his name, but the panphlet is announced to havo been prodneed as an answer to certain questions, proposed by the lioyal Society of Paris, on the canse and most effectual method of proventing the progress of infections disorders. It is entitled A Treatise on Fevers, whercin their C'auses are exhibited in a new print if rieu' to prevent Contagion:
and Putrid. Sore Throat, Inflammatory F'luxes, Influenza, Consumptions, as well as the Low Nervous Fevers that terribly affect the Spirits, nay be cured with Ease. It is written in a popular way, and was issued at the price of a shilling, and declared to be "necessary for all fanilies." To fulfil this intention, it is written in a "plain and intelligible rather than ornamental style," for the writer lays no claim to oloquence, and thinks too great a show of learning out of place; "if the world does not chuse to make the apphication, he is content to lave done his duty in making the communication ;" but he "is sure that it is a koy to health, and, if adopted, fevers will then no longer he the terror of mankind." He is certain that contaminated air is the sole source of all "fevers, consumptions, fluxes, gouts, rleumatisms, whooping-cough, diseases of the stomacl, lungs, liver, head, and kidneys, of putrid sores, St. Anthony's fire, and nervous disorders generally." A tolerahly comprehensive list, which perhaps is meant to include surgical fevers, though these are not expressly mentioned; and so, by directing our attention to the removal of the cause, "epidemic disorder will be prevented, just as small-pox is prevented by inoculation."

At the commencement of the treatise, the author states that the remarks he offers were suggested principally in the years 1779-70, when all parts of England, and some foreign countries as well, were extremely affected by contagious disorders of all sorts; animals (especially horses) as well as men being struck down, often suddenly and fatally. Numbers of men were killed in a few days by putrid sore-throat; some were affected in the head, and became delirious; others in the stomach, and were seized with sickness and purging; others had gout, palsy, or rheumatic fever, or were attacked in the eyes, or laid down with erysipelas; many others suffered in the lungs and became consumptive ; and many more grew depraved in spirits, had low nervons fevers, and became hypochondriacal. Almost all the cases were contagious, and though usually each disease bred true, yet the maladies were sometimes interchangeable-for instance, an attack of erysipelas was caught from a patient suffering from a sore-throat. Such is the general result of the author's observations; and it will be readilyadmitted that he had a considerable practical acquaintance with the phenomona and spread of epidemics, and did not spoil his wide.experience by a too hasty judgment.

Then follows the speculative and explanatory part, consisting of an exceedingly ingenious argument, an example of that most useful and profound of logical methods, analogy, based on admitted facts, followed by a clear and coherent chain of reasoning, and is perlaps as convincing, and eren moro free from fallacies, than if he had attompted to prove his caso by microscopical demonstration. He states, in the first place, that the causo of these multiform disorders is generally allowed to be some inpisible noxious matter in the air; of its intimate nature there were various opinions, but perhaps very littlo curiosity felt: "Some consider it to be a sulphurous exhalation from the earth; hut this cannot be, for, if so, acrid and sulphurous fumes would merease it instead of checking or annihilating it. Another theory is that it is due to the products of putrefaction : but how can
dead and putrid matter ever get such activity as to work such astonishing results !" It must, therefore, he something endowed with a more powerful activity than anything belonging to the mineral kingdom or simply putrefying, and must, therefore, be something actually living. In this he shows considorable penetration; and there being no "cell theory" in his day, he does not stop to consider whether the poison may be embodied in vitiated cells or particles detached from the body, though retaining their specific activity, but concludes that it must be organisms laving an"independent existence. For this riem, surprising and novel enough at first, loses some of its singularity if we search for resemblances elsewhere. Now, just as it was wellknown that itch is due to the presence of acari, insects risible by aid of the microscope, so " close attention to these matters in numberless cases during many years has proved beyond a doubt that the gaol distemper, putrid fever, plague, and infections epidemics generally, proceed not from matter putrid in itself, but from invisible insects also, that, floating in the air at times, are lodged in the skin in immense quantities; feeding here in clusters, they produce pimples, pustules, etc.; for instance, the eruption of small-pox." He overlooks, or at any rate makes no mention of the possibility of their entering the body by the air passages, and working their way from the lungs and alimentary canal.
Moreover, "medicines which paison insects without injuring the constitution have always proved specific." He asks if this is the may that mercury will cure obstinate and foul sores, thus anticipating an explanation of the modus operandi of this specific remedy for syphilis, which has lately been put forward again : and that James's powder cuts short fevers: for these drugs are so acrid and corrosive that their action can be nothing else than a destructive tendency, and this is the very reverse of a healing nature. These insects which constitute contagion are communicated by the air, the raiment, or by contact. Not only animals, but vegetalles also, suffer much from the ravages of such anima'cules, the smallest being most mischievous, from their greater numbers and being least suspected. Marsh efiliuvia are due, not to putridity simply, but to the myriad forms of minute life to which the abundant decomposition gives life and nourishment. A corpse which has died of an infections disease is known to be able to convey the same disease to persons brought into its vicinity; but it is noteworthy that it is most infectious while quite rocent, and the specific infectiousmess ceases as soon as genuine putrefaction has fairly begun, thus proving the radical difference between the specific vinıs and ordinary putridity. By magnifying glasses it may be seen that many disorders to which corn is subject are due to animalcules "so small that by the solar mieroscope they equal in size a pig two or three months old, though they are as well-proportioned in their limbs as elephants, and have their internal organs as perfectly constructed as in animals of ordinary dimensions; aud they hare probally. the same senses, ideas, and passions, only their sphere of action is more limited." These are only instances of what had already been slonwn to exist : but he thought it not only reasonable, but
extramely likely, that still smaller nues exist, thongh of conrse more ensily cloding diseovery; and it is such as these that wo mewerable fow ont neute opecifice disences. Of consso, therefore, the author does unt attempt to particularise or define thoir channoters rather than to designate them ros "animalenles;" though it may loe remarked lyy the way that ho always spoaks of their orighating from eggs, nover hinting at their appearanco de now.
The existenco of bacteria as such, with special forms and attributes, does unt ronse his attention, thongh they had already heeni seen ind descriled ly Leenwenheok a hundred years before ( $\mathrm{GQSO}_{2}$ ). He was tolerully familiar with the habits of these minute parasites in many of these diseases which bight plants and attack aninals. Those commonly found in wheat flour arise in the soil, where the eaggs remain during tho winter ; being hatehed by the warmith of summer, the young insects eroep up the stalks of the growing plants, feed on the ears, and sometimes leave their ergs in the grain; these escape destruction by srinding, and may lo scen in plenty during the winter, the animalcules themselves being discoverable ouly in the summer. They afe not produced in all kiuds of land, or on the same land in every ṣaison. These facts being known, an easy method of preventing sunut and blights is easily suggestell and adopted; for instance, steeping the seed, before it is sown, in wood asloos boiled with arsenic, or quicklime sprend over the land will be equally efficacions; or else the insects after being hatehed, and while invading the corn, may be killed by burning vegetalles to windward of the fields. Soot placel in trenches round the trunks mill preserve frnit trees. The foot-halt of sheep is infectious to others in the same track; in this instance also the causo is nothing corrosive, for it is destroyed loy a corrosive agent, thus a single application of diluted, oil of vitriol to the affectod fect will care the complaint, on else laying quicklime on the track the sheep pass over. Similarly, strong tohacco water will cure the scab of cattle; and in the same way our epidemic fevers may be cured, as suggested aloove, by destroying the nuimalerdes by uineral or regetablo antidotes given internally, though attention raust always be psid, in selocting appropniate remedies, to the particular constitution of tho patient. As oxperienco shows, onoling measures are indieated in fevers, and, on the other ham, nnything which tends to incroase the hoat is prejulicial, and this is to be explained by the heat helping to hring some eggs to lifo, and thereby aggravating the disorder. He says, "I have an account in writing of many extraordinary complaints cured on the same principlo; ulcerated lungs curod thereby, and some enses of dropsy and gout so caused." Un-fortmately, in the truatiso now under examination he gives no details of tho remedios which provo so successful, or the methol of nsing them. He promises to give tho rest in another book, to draw the attention of modical men, but it is not apparont that this was ever written, the author's name being omitted.
The rot of shoep (a disease of the liver - flukes) is produced by insects inhalitimg marshy ground, and is to he got rid of ly remorring the flocks to hilly ground or ly spreading yuicklime on
the surface. The swainpy grounds on the borders of the hint broed large quantitios of these pestiferous creatures, but the periodical overflowing of the river washes them away, and thus cleanses the ground and purifies the air. fn the same way heary showers will wash away diseases in our country. The mischievous, matter of the plague is "eflluviated" from the earth; and thus he explains the fact that earthquakes are freqnently succeeded by the outbreak of a severe epidemic. The appearanee of the aunora borealis in the air is due to the warmth in the hawels of the earth, and indicates a disturbance and escape of it, and it is commonly attended by a prevalence of infections complaints. To clear iufection from a houso, wash tho interior well with vinegar or soap, and fumisate the air by burning sulphur or frankincense (which is as efficacious as the former, while it is better tolerated by our respiratory organs, and does not blacken furniture). Smokiug tobacco is an excellent preventive, and the author remarks that a tobaccoust's shop generally remains free.- Living near an tanner's.yard, according to commun helief, gires equal safety. He also recommends as precautions to cher bay leaves, wormwood, or tobaceo, and to smoke and drink brandy:
In summing up his theory, he says that, gonorally speaking, there are ouly two sources of the animalcules: subtorranean, which operates in all sorts of weathor, and is chiefly accompanied by clectric plocnomena; the other is the surface of the earth - swamps, filthy lakes, stagnant ponds, etc. Tho eggs left on the soil develop in the summer, and "the multitudes eftluviate into the air." Though recommenting draining the land, and fumigating or watering the air, it is rather strange that the author overlooks the value of heat in disinfecting clothes, etc.

The above account justities, we think, the belief that the author was sufficiently practical and experienced to command respect and confidence, as well as to interest us in his vicws; ho rightly cared moro for simplicity and usefulness than for refinoment and barren spoculation. Could he have lived to-day, he would no doubt have trodden mouch of the ground of Pasteur, and would have thrown himself into the still unsettled question of the exact relation of micro-organisms to disease.

## SMALL-POK AND VACCINATION A'T <br> SHEFFIELD.

Tre President of tho Local Governinent Board, when speaking at Sheftield on Monday last, naturally referied to the severe epidernic of small-pox which for some months past has prevsiled in the town, and has cansed considerable alarm in the northern and millaud coimtics. The opponents of raccimation have engerly ombrawed the opportunity of ondeavouring to create in tho public mind $n$ distrust of the efficacy of vaccination, and the bare fact that small-pox has invaled a well-raccinated town and gained a forthold there has heon held to he a sufficient condomnation of the system. Sheffeld, in fact, hus been beld up as an awful example It is woll, therefore, that the responsible minister has had an opportunity of publicly refuting theso sophisms, and of testify ${ }^{-}$
ing to the beneficial effects of vaccination as demonstrated by the Sheffield experiences themselves.

Bearing in mind that the protection afforded by vaccination in infancy is most effective during the early years of life, and that after the age of ten it deereases unless renewed by revaccination, Mr. Ritchic examines the statistics concerning the children under ten years of age. He finds that there are about 100,000 children under that age living in Sheffield; that 95,000 of those children are vaccinated; and that $.5,000$ are unvaccinated. Out of the 95,000 raccinated children there have been 189 attacks and 2 deaths ; out of the 5,000 unvaccinated children nuder ten there have been 172 attacks and 70 deaths. If for moment it is assumed that all children under ten were vaccinated, there would have been 200 attacks, and hardly more than 2 deaths. If all under ten had been unvaccinated, there would have been 3,277 attacks and 1,330 deaths, or exactly 600 times greater mortality.
Here is a reproduction of the metropolitan experience of 1881. In that year there were in Loudon some 916,000 children minder the age of 10 years, and of these 801,000 , were vaccinated and 55,000 were mnaccinated; whilst in that year, amongst the 861,000 vaccinated, there were only 125 dcaths, among the 55,000 unvaccinated there were 782 deaths, that is to say, upon equal numbers of the. two classes, the mortality from small-pox amongst the unvaccinated was about a hundredfold the mortality from small-pox amongst the vaccinated.
As regards persons above the age of ten, the Sheffeld experience also supports the efficacy of vaccination, though not so conclusively as does that of the younger persons, inasmuch as the protective value of primary vaccination diminishes year by year, and re-vaccination has not been the rule. The lesson, therefore, is once more taught by these cxperiences, that if protection against small-pox in the later years of life is to be secured, revaccination must not be delayed beyoud the age of ten or twolve years. We are glad that the Govermment are about to facilitate this early revaccination by redueing the minimum age at which the operation can be obtained at the public expense.

Apart from the question of decreasing protection, it is important that the, operation should be performed in each case before the netnal business of life is entered upon. If it is not so perfomed it is likely to be indefinitely postponed, if not altogether forgotten, until a scare of small-pox increases the apphicants for revaccination, strains to the utmost the resources of the public vaccinators, and increases the risk of the operation being inefficient.

We would venture to impress upon Boards of Guardians the importance of promoting revaccination systematically during non-epidemic periods mneh more than has been the practice litherto. Practically no efforts have boen made in tho past in this direction, exeept in the presence of small-pox, and consequently revaceination is by no means as gencral as the public welfare requires.

Dr. W. Tindal Robertson, M.l', attended at Osborne on Weduesday to receive the honour of knighthood.

Tur Budget Committec has recommended the Chamber of Deputics to vote a small sum of money to provide the professor of hygiene in l'aris with the means for opening a laboratory for practical instruction.

THe Committec of the Association of Fellors of the College of Surgeons met on Tuesday_to deliberate on the recent action of the Council of the College. The proceedings were adjourned till Monday next.

We are glad to learn that the drainage of Margate is to undergo furt her improvements, the Town Council having decided to procure? plans for a thorough systcm of drains, which it is suggested should be submitted to Sir Douglas Galton or some other eminent authority for approval.

The first number of the Revue Médico-Pharmaceutique was, published in Constantinople on January 31st; it is designed to make known in Europe the work done by the physicians and pharmacists of the East, and at the same time to give a fair reflex of the progress made in medicine and pharmacy throughout the world. The new journal is edited by M. Pierre Apéry.

Mr. James Anstue, B.A., Q.C., a Charity Commassioner, and formerly Examiner in Law to the University, has been nominated by an influential brody of graduates for election by Conrocation to be a member of the Senate of the Laiversity of London, in the roomof the late Sir George Burrows. Mr. Anstie has taken an active share in the recent reform morement in Conrocation.

The twentieth ammal banquet in connection with the Frencla Hospital in London will take place this (Saturday) evening at Willis's Rooms, 1Tis Excellency the French Lombassador in the chair. The Lord Mayor has also promised to attend. Special efforts are being made at present to provide funds for building the net hospital premises on land which has been purchased in Shuftesbury . Ayenue. Lpwards of £12,000 Lare already been subscribed.

## BRITISH NURSES' ASSOCIATION.

A meeming will be held at St. George's Hall, Langham l'lace, on February 13 th, at 4 p.M., Mr. Savory in the chair, with reference to the formation of the above Association, //It, is announced that H.R.H. Princess Christian will be present.

FRENCH SURGICAL CONGRESS.
The third session of the French Surgical Congress mill be held in Paris, from March 12 th to the 17 th, in the large amphitheatre of the Administration de l'Assistance I'ulhique, 3, Aremne Viatoria. Professor Verneuil will preside. The following questions are down for discussion: 1. The Treatment of Gunshat Wounds of Viscera. ㄹ. The Value of Radical Treatment of Hernia as regards Permanent Cure. 3. Trentment of Chronic Empyema. 4. Recurrence of Malignant Growths after Operation: its Causes and Preventlon. Surgeons wishing to take part in the Congress are regutested to communicate with the General Secretary, Dr. S. Pozzi, 10, Place Vendôme, Paris. The subscription is 20 francs.

## SNOWED UP FOR. TWENTY DAYS.

An extraordinary case of prolonged fasting is reported from Vienna. On December 2ind a peasaut woman from Obergrabern went to receive some moncy which was owing to her at a small village a few miles distant. The amount was not paid, and the woman had only four kreutzers' in her pocket, with which she bought two rolls of bread. On the wny home she was caught in a heary snowstorm, and took shelter in a small hut in a rinieyard. The storm continuing, she decirled to speud the night where she
was, and divested herself of some of her upper garments to wraj np her feet. The noxt morning when she awoko she could not rise, being partially paralysed by the cold. Iler cries for help were unheard, and it was only on Jnnuary llth that she was found by a wodenters wife, having been twenty days without fool.

THE WILL OF SIR GEORGE BURROWS; M.D. Sil: Geonge Bumnotrs, M.D.. hy his will dated April Gth, 1s82, with a codicil made Octolur $1 \cdot 1$ h. 18 get, bequeaths to the library of St. Bartholomew's Jospital such medical hooks and pamplilets © his father-in-law: John Abernethy, his father, and himself, as may not bo selected by his son-in-law, Mr. Arthur Willett. To his son, Fraest Pemington lurrows, he bequenths the silver inkstand bresented to the tustat or by Gonville and Caius Collego. He derises and bequenthe all his real eatate and the resilue of his personal estate in trust to make np the portions of his daughter, Mrs. Willett, and his younger son, Ernest Pennington Burrows; and the residue in trust for his elder son, now Sir Frederick Abernethy Burrows, and his male issue, with remainder to the said Ernest Pennington burrows, or other the suecessor in the baronetey. The value of the personal estate has been declared at $£ 104,62 \%$.

## MR. CHADWICK ON THE SANITARY NEEDS OF THE DAY.

Mr. Enwis Cuanwick, C.B., spealing at the anmual dinner of the Assnciation of l'ublic Sanitary Inspectors on Saturday last, obsorved that it was important that time should be given to the Boundary Commissioners to make their examinations full and complete, as much of the reform needed would only come from larger areas than the present small administrative ones being provided for fom-law and sanitary purposes. He also urged that the scattered and weakened functions now spread over several Ginvernment departments should be consolidated under a Minister of llealth. In conclusion he referred to the fact that the Lancashire manufacturers had an offer now made to them to work their engines by gas at tro-thirls the price of working them by the flame of coal. This plan was proposed by the speaker thirty years ago; and there mas no doubt that this might be done, and, when done, down would fall the big chimney which befouled all around with its smoke and lirt.

## VIEWING THE BODIES.

Mr. D. Wigmtans, enroner, held an inquest at Sheffield on February fith, on the body of a man who had committed suicide by cutting his throat whilst suffering from small-por. Ile proceeded to swear the foreman, and omitted the usual words "of voose body you shall have present riew." The rest of the jury were sworn. The Coroner then remarked that he had no law to warrant him allowing the jury to escape viewing the body, but in this case, when be looked at the consequences which might probably arise, he was not at all surprised at tha jury objecting to go into a romm reeking with small-pox, and in which was the body" of a man who had dievl from that disease. Ile thought that was a reasonable ercuse fur not going to see the body. It was his duty, he knetr, to inaist, but he interned to brave the consequenecs and see what was said. He would not, as a juryman, like to go and riew the Iody, not so much for himself as for his wife and family. If the jury said they did not like to go, he felt he wonld not be justified in making them do so. The inquest proceeded, and at the close the jury thanked the coroner for his consideration.

## VACCINATION PAYMENTS IN ITALY.

Nornitustanding a Guvernment decree enjoining local authorities in Italy to provile funds for the payment of the vaccination oniccrs, in no less than 4,192 communes-that is to say almost half the total number - no such funds are voteJ. In 2,24 other com-
munes the vote is a simple farce, while in 1,820 the sum alloted varies from threepence to fivepencr. In consequence vaccination, which is not compulsory, is not systematically performed in the rurul distriets. It is lighly probable that the vaccination laws will shortly be amended and enforced in a more satisfactory manner by the central authority.

## METROPOLITAN POLICE SURGEONS.

It a menting of the Metropolitan police Surgeons* Association, held on Thursday, at the Onliees of the British Medical Association, Mr. Timothy llolmes in the chair, a discussion took place with reference to some recent orders affecting divisional surgeons made by Sir Charles Warren. It was proposed to send a deputation to the IIome Seeretary; but a satisfactory statement having heen made by Mr. Mackellar, Chief Surgeon of the Metropolitan l'olice, further action was, on Mr. Holmes's suggestion, postponed.

## INJURY TO SIGHT BY SHUTTLES.

Mr. J. Winkley Langdos, the honorary ophthalmic and aural surgeon to the l'reston Infirmary, in his annual rejort notes the large number of extirpations rendered necessary by wounds from sbuttles in the weaving rooms of cotton mills. The contemplation of this fact, he says, leads one to wonder that some ingenious suirit has never devised menns to ayoid so dread a calamity, rendering subsequently, as it does, the sufferer almost useless in this walk of life.

## OPEN SPACES AND THE PUBLIC HEALTH.

ONE of the most gratifying signs of the increase in the park and open space accommodation of large centres of population is shown by Mr. Ellis Lever to be manifested in a correspondingly diminished death-rate, the metropolis being a striking illustration of this. London possesses nearly 10,000 acres of parks and breathing grounds, or about $2 \frac{3}{3}$ acres per 1,000 of the population, and the death-rate during the year ending October 1st last was 19.3 per 1,000. Leeds, with a population of 345,080 , has 523 acres of parks and recreation grounds, or $1 \frac{1}{2}$ ncre per 1,000 of the population, and the death-rate is 21.7. Nanchester (parliamentary borough) bas a population of 423,801 and a park area of 165 acres, including open spaces and recreation groundo, equivalent to $2-5$ ths of an acre per 1,000, while the death-rate is 28.2 .

## METROPOLITAN PROVIDENT DISPENSARIES.

A meleting was held at No. 1, Old Serjeant's Inn, on F'ebruary 3rd, to discuss the above scheme; Dr. Paramore in the chair. Drs. Carpenter, Ilentsch, Kisch, Snith, Sargent, Thomas, Waiawright, Maunsell, and Corbyn, were present. The ehairman stated the object of the meeting, and referred to the scheme as one more attempt to starve out the medical profession. The echeme was not a provident one, as patients were admitted when ill, and the scale of charges was so ridiculously low that under the scheme human beings were treated at one-twentieth the sum charged by similar institutions in the veterinary profession where the jatients were logs and horsis. During the diseussinn the chief arguments in opposition to the scheme were: 1 . That ns an advertising concern it is repugnant to the ethics of the profession. 2. That it is not needed, because those who are ton poor to pay are amply provided for by hospitals and parish relief. 33. That the intermediate class are amply provided for by the different elubs of general practitioners. 4. That its seale of remuneration is such as to degrade those practitionera who consider its fees as "generally aecepyable to the jrofussion." in the eyes of the public. The following motion was then jroposed by Dr. Numsell, and carriet umanimonsly: "That a committee be furmel, with power to add to their number, for the purpose of taking into consideration the scheme of the Metropolitan Provi-
dent Association, and that they be requested to report to a subscquent meeting of general practitioners the objections to be taken to sueh scheme, and the steps which it may be desirable to adopt for the improvement of the pasition of the profession. A committee was then formed, consisting of those present: Dr. Paramore being elected Chairman; Dr. Maunsell, Vice-Chairman; Dr. Thomas, Treasurer ; and Dr. Corlyn, Secretary. The Sccretary to the Committee would be obliged if all opposed to the scheme would forward him their names and addresses on a post card, addressed, T. 11. Corbyn, 18 , Abercorn Place, N.W.

## THE OPPOSITION OF CAMBRIDGE UNIVERSITY TO

 THE SCHEME OF THE LONDON COLLEGES.We published last week the petition drawn up by the Special Board for Medicine of the University of Cambridge, setting forth the grounds upon which the University opposes the grant to a Senate formed by a combination of the two Reyal Colleges in London of the power to grant degrees in medicine. At the debate which took place on Saturday last on the question of adopting the petition, the scheme of the two Colleges was defended by Professor IIumphry, while Sir George Paget, Dr. Donald MacAlister, Dr. OctaviusSturges, l'rofessor Alexander Macalister and others spoke in favour of the proposition to present the petition in opposition. Letters were read from the Universities of Edinburgh, Glasgow, Durham, Victoria, and London approving of the Cambridge petition. The general result of the debate was, our Cambridge correspondent states, decidedly in farour of the petition. The Council of the Senate accordingly has proposed to aftix the Common Seal of the University, and on Feliruary 16th a vote will be taken on the (u)estion. No notice of non placet has yet been issued.

THE NATIONAL PENSION FUND FOR NURSES.
Turs Society has now been incorporated, and its memorandum of assaciation has been registered, The memorandum of articles is sigued by Lord Rothschild, Mr. Menry Mucks Gibbs, Mr. E. A. Hambro, and Mr. Junius S. Morgan, the four merchants who have contributed each $£ 5,000$ towards the $£ 20,000$ which had to be deposited with the Caurt of Chanccry as a security for the proper working of the fund. It is further sigued by MIr. F. C. Carr Gomm, Chairman of the London IIospital; Mr. Percival A. Nairne, Deputy Chairman of the Scamen's Hospital ; Dr. Bristowe, F.R.S., Senior I'hysician of St. Thomas's IIospital; Mr. Thomas Bryant, Seuior Surgeon of Guy's lfospital; and Mr. Henry C. Burdett, the founder of the fund. The Council includes Mr. John Watney, of the Mercers' Company ; Mr. Brudenell Carter, Ophthalmic Surgeon to St. George's Hospital; Dr. J. C. Steele, Medieal Superintendent of Guy's llospital: Mr. Alfred de Rothschild, Mr. Clifford Wigram, Mr. W. 11. Lurns, Mr. Charles Rawlings, and others.

## GOOD MEALS FOR SCHOOL TEACHERS.

1t is proverbial that to keep an Englishman in good temper he must be well fed, and the teachers in some primary schools appear to find it hard to work in the afternoon when unable. to get any mid-day meal. The new schools must be built where they are wanted, and where space can be obtained at reasonablecost. This has led to schoals existing in paor and densely populated neighbourhoads, without necessarily having any adjacent coffee-house or restaurant giving facility to the teachers for obtaining a goarl mid-day meal. Whenever there are cooking centres in commection with board schools, no difficulties are experienced by the teachers and pupil teachers in buying well-cooked food for their clinners at a reasonalle cast, but there is no systematic arrangement by which provision of this kind is made. In very poor neighbourhoods there is, but little choice for the teachers: they nust either live near the schools, so as to get something to ent at their lodgings in the midulle of the day, or dine off
sandwiches, buns, etc., as some yonng teachers do, Teachers preferring to live at a distance would not get home till six in the evening, or later. There is a "teacher's common room" at each school, but it is not passible for teachers to cook food there, and in summer there is no fire. In every schonl a woman is placed as caretaker; it might reasonably be arranged as a part of her duts that she should cook a plain mid-day meal for the teachers, say a joint and vegetables with pudding, the teachers themselves paying the cost. To become a teacher in a Board school is to undertake important and onerous duties, and it is very important that the health and strength of teachers and pupil teachers should nat suffer from want of properly prepared food. When food is wanted in schools, the means of providing it are at hand, and we trust that School Boards will see that the necessary arrangements are made in cases where local cireumstances show that they are needed, especially as no question of expense would be involred thereby.

## BURIAL REFORM.

A mbeting was recently held at Margate under the auspices of the Burial Reform Association, to which Dr. Rowe addressed some very timely remarks upon the desirability of an alteration in the present system of burial. Dr. Rowe once more pointed out that the decomposition of the body after death is, when viewed from the chemical standpoint, always a combustion, and he admitted the logical consequence-namely, that the mast perfect, rapid, and elegant form of combustion was cremation. The "earth-toearth" system advocated by Mr. Seymour IIaden, where the body is placed in a coftin of stout millboard, which rapidly decars, and permits the products of animal decomposition to pass directly into the surrounding earth, is undoubtedly a distinct advance upon the system still prevalent of burying in leaden or stout wooden coftins of many casings, which have the effect of retarding disintegration, and lead consequently to a storing up of huge aggregations of humau remains in every stage of decay. Such a system is net consonant with reason, and the Bishop of Londen has declared it ta be "inconsistent with the principles of the Christian faith;" it cannot therefore be defended upon any other ground than an unreasoning acquiescence in a comparatively modern and most unhygienic custom. The Burial Reform Asso ciation, of which the Rev. F. Lawrence, Westaw Vicarage, Tork, is the Honorary Secretary, adrocates early interment, and the use of perishable cofins to permit rapid disintegration after burial in the earth. As to the first, there can be no room for difference of opinion; and as to the second, those who are unwilling to carry the matter to its logical conclusion may fairly be asked to resort to this system, to which the term "Eremacansis" has beeu applied. A conference will be held by the Society in the Pormau Rooms, Baker Street, on February 23rd, at 3.15 P.M., in which Sir Edward Sieveking, Dr. B. W. Richardson, F.R.S., the Hon. Dudley Fortescue, and Dr. Danford Thomas will take part. Medical oflicers of health and other persons interested in burial, funcrul, and mourning reform are invited to be present.

## THE DIET OF NURSING MOTHERS.

Tus influence of the diet upon the fuction of lactation is a subject of such importance for the rising generation as to warrant frequeat investigations by scientific authorities. It seems to be one of the cvils inherent in a high degree (so-called) of civilisation that women, in a large proportion, especially amang the upper and milde classes, should suppress and ignore the physiologieal function of the secretion of milk, and abandon the privilege of mursing their children in the natural way. But this being the ease, it is desirable that the best substitnte be provided. The feeding-bottle is but a poor substitute for the mother's breast. and of late there is a tendency to give too diluted a milk. I wet-nurse
is the beat substitute for the mother herself, and a knowleglge of the intlumee of the foud ujun the compasition of wilk ohight to be widely circhated, at least in its chief features. Dr. Kaleski, Dreent in the Rniversity of Dorpht, is the latest worker (berl. Khin. Hochensekr. Nus, $t, 5,1$ sis) in this sulyject. Ho has mume careful amalyses of the proximate constitnemts of milk, both in the lower unimals and in wounn, muler varions combitions of diet, and his chief conclusions are: 1. Milk which contains an modae proportion of fat may have a very injuions effect upon the child. 2. A highly nitrogenoms diet causes a great incrense of fut in milk; the same kind of liet lowers the proportion of milk-sugar, but has very little iufluence oror the oflor constituents. Neohol exerts the same inlluence ns a nitrogenons diet. 3. A proper composition of the nilk rany le attainal, speaking pewerally, by the use of a proper dietary: A. The luwer animals are sulbect to the same laws the human lesingn in the alover respects. i. A harge proportion of milk is derivem, directly or indirectly (that is, by changes in the
 ennclusions are direct? mprosed to the views of the laity on the suhject. The wet-nurse, as a rule, is a highly privileged heing, who must be allowed an unlimited quantity of butcher's meat and a good supply of stom. The nmount of exercike nsually taken is a gentle saunter at her non sweet will; active exertion is out of the question. l'robably the diet has been previously rery plain, and too often the sudden change inthrances the composition of the milk to the det riment of the child. Diarrhoe, of a more or leas fatty chameter, is of ten the consequence, and Dr. Zateski instances a caso in point. Chemical amolysis of a specimen of the mill of a wet-nurse rovealed over 6 pur cent, of fat, ume inquiry was made ns to the condition of tho chidd. It appeared that the child was ailigg ever since the services of the wat-nurse bad been called into requisition. The latter was a ponr girl, whose diet and whole course of life was changed when she became a wet-nurse, and that this injurimuly affected the lacteal secretion was proved by the fuct that her own child had been far from well since then. An immediate return to the prexins molle of life was ordered for the nurse, with tice best results.

ANOTHER ANTIVIVISECTIONIST MARE'S NEST. If we may julge hy the straits to which the agitators are put for mnterials, and the admissim that there prevails "ton great nutimism in remard to what gnes on in England in the matter of vivisection," it wonld seem that the public mind has become aware of the absurdity of the distorterd ant often unfounded statements put forward as ground fur impncing sitill farther restrictions beyoud thane whirlh hare more than uthained the desired ent. At the last meeting of the Pathological Society in 1827 some very mommon kinda of fracture were discussed, and Sir James Paget referred to anna axp rinunts mate thy him yeara agn which had impressed him with an infer of the enormons firce which must be suddenly applimt in ordar to fracture o twon in an adml, and suggrsted that it would he hasfal to make fresh exprimmons in this direction. I correnjombint of a contemporary reprohbeces our report of sir James laget's remarks (Jornasio, Decombur ath, p. 132t), nud adels:-" hemark from nue is thempleses. The fact that Sir Ifomes l'aget expressus this wish, and that \$r. Stepthen laget is secretary of a sociaty which lobld vivisectinn to bu an allowable and latiable methol of remarch, is suflciently ominous without any furtler worls of mine." Thls runimes us of a stury atont Bishop Burkeley and his tur watar, a remarkallu fuin which wos believeld bis him to possess the most wonderful curative propertics. A committere of the Roynl Suciety, if wermember rightly, was appointed to investigate the remedy and enllict cases. At one or its mootings it received a latter from a gentleman, who eaid that he had fallemand broken his logg, but that, by the use of enitable handages and tar water it wossir rapidly and snundly cured that he
was nble to walk about on it the next hay. Thet committeo was ovorjoyed, and began to noise abrome this marvelhons cure, until, ah its next meeting it received another leterer from the sume gentleman, who sad that he had omitted to montina, iar his presions communication that the leg was a wooden one Bishup berkelfy fell into a trap which was dad for him, but the antivivisectors dig pitfalls into which to tumble. The experiment stggested ly Sir Jamus Jaget would be performed on a dewl borly; as was evithent to may medical reader of our report from the context, and our reports are addressed in medical readers only. . Tu adope the phraseolngy of our olponents, "lemark from us is neetless."

## PARASITIC FETUS.

In the discussion which followed the exhibition of Mr. Owen's specimen of an anomalons sacrol appendage, at the Pathological Society on Tuesday, Mr. Baker and Mr. Bland Sutton expressed their opinion that the appendage ought to be considered as a parasitic fetus, Mr. Sutton also referret to an example of this monstrosity which is nt present being exhihited in lonton. The subject, "Lalon," is al lad from Oudh, agerd 17, about five feet two inches in height, and of a rery dark complexion. His expression is pleasing and intelligent, and his disposition very cheerful. There is mo family history of any monstrosity. The mass, which appears to lie of, at the most, very limiterl sensibility, is attached chiefly to the epigastrio region. It consists of the structures forming the shoulder-girdle, including the integuntents, which bear a pair of nipples; and of a scond part, including the buttocks and lower extremities. The pubes is hairy, the penis well-formed and its glans uncovered, urine occasionally passing from it. The anuz appears to be inperforate. The arms are, iery long, like those of an American spider-monkey (Ateles); the buttocks form a projection rather bulkier than a cocon-nut; the Left foot hangs down nearly as low as the knee. Both extremities present numerous deformities, which cannot lee satisfactorily described in this paragraph. Next to the fnct that there is a large parasitic forus dependent from the epigastrium, the most singular feature of the case is the complete separation of the shouldergirdle from the lower parts of the parasite. The two parts appear to be separately united to the boy's trunk by freely monable joints; they are inrested by a common integument, and diviled from each otherly a deep groove. We understand that Mr. Sutton nod Mr. Shattock examined "Ialoo" on Wednesiday, for the purpose of furtishing the lathological Society with a full report of the case.

THE HISTORY OF THE GERM THEORY.
Promassor bodar Cmonsinank gave an interesting lecture at the larkes Musemm of Hygiene on Pebmary ?nd. After some preliminary observations he referred to the writing of Kircher, and to the discovery of mieru-arganims hy leeinwenhock, whose resaraches were engerly counht up by some physicians. Nicolas Andry and his school regartent these minuto organisms as worme, and attributed small-pos and other disaases to their action. Lancivi believed thut the deleterious effects of imarshes were due to such minte creatures, and the rapide extonsion of the theory to account for all sorts of diseases brought it into ridicule. The micro-organisms themselves, however, continued to the studied, untahly by (ilachen, llill, and Miller: amd suhsequently the disrussion which arose with reference to spontaneous generation invested the investigation with profomd interest. After giving an account of the scientific controversy which raged on this subject for so mnny years, l'rofessor Crookshank mentioned the discovery by Cigmari de. In Tour and Sclowam of the dependence of alenholic fermentation on the yeast plant, and pointed out that, nwing to relations which were believed on theoretical grounds to exist between the process of fermentation and that of certain dis-
eases, again brought. the germ theory of disease iuto prominence. The discovery ly Bassi of a fungus in the silkworm disease encouraged the theory, which was adopteal and ably defended by Henle. Pasteur took up the study of the yeast plañt, and in 1850 Davaine diseorered the bacillns of splenic fever. Then followed Pasteur's researches on the diseases of 'wine, and the silkworm disease. Davaino, again, studied the anthrax bacilhus in 1863; but it was Koch who first published its whole life history, and, by his sulsequent olservations, placed the existence in some diseases of contagiuan rivoum beyond a doubt. Thè ncw fied thus opened ap was soon erowded ly investigators, and the results were liable to be recoired either with ineredulity or with too enithusiastic belief. The lecturer concluled by pointing out that we as yet had no adequate proof of the existence of contagium virum in hydrophobia, small-pox, vaccinia, typloid fever, searlet fever, and measles. The lecture was illustraterl by numerous diagrams, by copies of the works of writers meutioned, and by mierophotographs of bacteria, projected by an oxyhydrogen light.

NEW CLINICAL INSTITUTION IN ROME.
The Riforma Medica of January 20 states that the foundation stone of the Policlinico U'mberto I was laid on January 19th by the King of 1taly. The Queea and the Prince of Naples were also present, together with tho Ministers of State and a large number of Deputies, Professors, and public functionaries. In address was delirered hy Professor Guido Baceelli, President of the Roman Academy of Medicine, to which the King made a suitable reply, in the course of which he sail.that, gratifying as the present oceasion was, it trould be a happier day for him when the building was completed and he could risit the sick in it. The site is outside the Porta Pia, and the plans have been prepared by Cav. Giulio Podesti. The buildings will cover an iarea of 160,000 mètres, and will be constructed iu accordance with the noost adrancel hygienic principles. The new institution is intended not only for the treatment of disease, but as a school of thedieine, on which great hopes are founded for the restoration of Italy to the leading position which she furmerly held in science. The arrangements for clinical study and pathological research are designed ou a seale of the utmost completeness. The foundation of the Policlinico Unberto I is the work of Professor Baccelli, anul is only a small part of a comprellensive scheme for the reform of university tenching throughout Italy which he brought forward some years ago When Minister of Public Instruction. IIs enlightened efforts failed owing to causes which tre in this comintry have no difieulty in understanding. it was the old story of hesitation and delay on the part of the powers that be, and excessive tenderness for rested interests and traditional abuses, complicated with the usual pérsonal nud enrporate jealousics.

INOCULATION FOR SMALL-POX IN ALGERIA.
Dr. Irmevarleber has recently. witten a pamphlet on tariolous inoculation as practised by the natives of Algeria. Sometimes the inoculation is made by a linenr incision between the thumb and forefinger, and this may cunse an indolent local uleer, lymphangitis, or phlegmonons erysipelas. The practice is one of many embployed to procure abortion. The most serious result of inoculation is the frequent artificial production of very severe epidemies, which it undoubtedly effects. Dr. l'rengrueber witnessed an epidemic in 1878. In the midst of a population of 13,763 inhabitants, he noted 710 enses of severe and contluent small-piox, with 94 deaths. The origin of the epidemic was satiefactorily traced. A soap merehant of the tribe of Amon-Alls was fomm, on his return from the eity of Algiers, to be suffering from confluent small-pox. The entire tribe, including the children, rushed to his' abode and inoculated themselves. The epidemic soon developed, nad spread to the Krachnas, Boulerlallahs, Mosbahias, and:Senlhadjis, apparently in
the same manner as calused its outbreak amongst the Amin-Alls. It only ceased when there was noborly left to inoculate Dr. Prengrueber observes that these Kabylian tribes form an endemic focus of small-pox which spreads tothe Furopeans and Arabe: Inoculation shonld be suppressed and vaccination enforced by latr, supported, on account of the olstinacy cof the Kabyles, ly Lebel guns and rifled camnon. Ile advocnterl the establishment of stables for calves all orer Kabylia; this, would avoil raccination from vaceinnted infants, to whieh the native mothers sirongly ohject. The ekeikh might readily be made an ally, which woull encourage vaccination from the calf. British'sportamen often select Algeria for hunting large game; they should not overiook the previluce of small-pox up country.

## INTERNATIONAL CONGRESS OF HYGIENE AND DEMOGRAPHY.

AT the meeting of the lnternational Congress of Hygienc and Demography in Tienna last autumn," a permanent committee was appointed to perpetuate the organisation of the, Congress, and to initiate the necessary steps for holding the next Congress in London in 1891. A preliminary meeting of persons nominated by societies interested in hygiene, was held this week, at which the Englishimembers of the'permanent committee-Sir Douglas Galton 1'rofessor W. II. Corfield, and Mr. Shirley, Murphy-were requeśten to take steps to bring the subject before the unirersities, medical corporations, and engineering, architectural, and statistical societies of the Cnited Kinglom.

PICRONITRATE OF AMMONIA IN MALARIAL FEVER. 1n the Bulgarian Meditzinsko ${ }_{c}^{\circ}$ Spisanië, Nos. 31 and 33, 1887, Dr. A. Golorina, Tady physician to the Varna Town Ilospital, writes that, at the suggestion of Professor Fr. Goll, of Zuirich, she tried pieronitrate of ammonia, in 3-centigramme pills, four times a day, in seren cases of malarial ${ }^{\text {TF }}$ fever ${ }^{\text {Pof }}$ quotidian type. In five the paroxysm ceased to recur (iñ one case from the second day of the picronitrate treatment, in three cases from the third dar, and in one from the sixth). Three of the successfal cases were of recent origin, and two fairly old. The quinine treatment had been proviously tried in threc of them (including' the inveterate ones) withont result. In a sixth patient, however-a lad with quotidian fever of two and a half months standing-a seven days course of the picronitrate utterly failed to arrest the paroxy:ms. the latter subsequently disappearing in two days under quinine ( 50 centigrammes twice daily). The picronitrate apparently gare negative, results also in Dr, Golovina"s sevently case No unpleusan $\dagger$ secondary effects were ever olserved.

THE ILLNESS OF THE CROWN PRINCE:
In: learn hy special telegram from San Remo that the Crown Prince's symptoms had lecome so urgent that tracheotomy had to be done on Thursday morning. We are pleased to say that the operation was performed with eomplete success. It is natural chonglt that some alarm should be felt ty the public that this procedure shonlal have become neeessary. Our readers, horever; will 10 doubt remember that we. have more than once hintel that such a contingency was not unlikely to arise, and last week we intimated, as plainly as was possible under the circumstances, that the time was not far off when the operation would he imperatively required. It is quite inaecurate to speak of the l'rinces present con lition as a "rolapse"; the local symptoms have simply become rather suddenly intensified without any sulstantial change in their character. The possibility of such an ereut has been clearly foreseen all along, and it has heen obvious for some months past to those
acquainted with the facts of the case that trachentomy, eonner or later, was inevitable. We are in a position to state that all these points were fully explained, a considerable time ago, to the illustrious patient himself, and to his relatives both in Germany and in this country. It may be well to emphasise the fact that the necessity for surgical interference which has arisen does not in the: least degree contradict tho more favourable reports as to IIis Imperial " Highmess's condition and prospects which we have lately been able to give. It is still highly probable that the disease is not cancerons, but obstruction of the larynx, however "innocent" in itself, is a complication that can only le dealt with effectively ly the surgeon's knife. It should be distinctly uuderstood that the operation, when done as in the present instance merely as a security against possible necideuts in the future is net only very slightly dangerous in itself, but is oue of the most successful in surgery. There is no reason why a man suffering from" a lisease which obstructs the upper orifice of the windpipe, but does not spread to neighbouring parts, should not, if tracheotomy is performed in time, live ont his full aatural lease of life. If at any subsequent period the passage becomes clear again, the tube can be removed; if not, it may continue to be worn with comparatively little inconvenience or discomfort. With a properly constructed instrument the patient is not only frec from all risk of suffocation, but is able to speak with perfect ease and distinetness, and can discharge the duties of life, and take part in most of its pleasures, without tronble to limself or distress to others.

## SCOTLAND.

## ROYAL INFIRMARY, ABERDEEN.

At arecial meeting of the Aherdeen Royal lnfirmary Corporation receatly held, regulations were alopted for the joint management of the infirmary and the asylum.

LIGHTING A LUNATIC ASYLUM BY ELECTRICITY. At a meeting of the Fife and Kinross Lunacy Board, the question of lighting the asylum by electricity was brought up, and it was agreed to apply for estimates from some of the leading eleetric lighting companies. A committee was formed for the purpose.

## EDINBURGH ROYAL INFIRMARY SAMARITAN SOCIETY.

Tur Samaritan Society in cennection with the Edinburgh Royal Infirmary continues to comuch real good work. At the ninth annual meeting, presided over by Sir Alexander Christison, the Secretary stated that they had every reason to be grateful for the work done during the past year, and for the generous support they had received from the public. The tinances of the Society were good. During the year, 895 weekly allowances had been paid to the families of 110 patients, giving an average of eight payments to each family. A number of gentlemen spoke of the great work alono by this Society as a supplement to that of the infirmary.

EDINBURGH ASSOCIATION FOR INCURABLES. Turs committee of the Folinburgle Association for Incurables report that, had the accommedation at their disposal heen much larger than it is, it could have lieen fully utilised during the bat year, during which time they lave admitted 21 malos and 23 females, which, adder to $i 3$ males and :30 females who woro in the hone on Deermler 31st, 18sf, gave a total of rhates and ing females who had received the beneft of the institution. During 185: 32 inmates died, while 15 left of their own accord or were dischargerl, leaving 31 male and 32 femule
pitients resident on necember 31st, 1857. The wards were fully occupied during the past year, and the committec had dealt with li2s applications, of which 4 were declared unsuitable, 37 were withdrawn or held as withdrawn, 13 died before racnneies oceurred, 44 were admittel, and now 30 were standing over for consideration and opportunity: We regret to observe a very considerable falling off during 1887, both of subseriptions and of legacies, the former having fallen off hy $£ 197$ and the latter by 5593 ; donations, however, showel an incrense of $£ 68$. The necting of subseribers, presided over hy Lord Trayner, at which these details wero made known, was addressed by a number of leading members of the community, who spoke strougly in favour of renewed efforts being made to increase the usefulness of the institution.

## GLASGOW UNIVERSITY EXTENSION SCHEME.

AFTEr considerable delay the Senate of Glasgow University has constituted a Board for the extension of university teaching ly local lectures and elasses similar to the Boards already established in Oxford and Cambridge. The Loard consists of the Senate and of a large number of the mosit eminent citizens of Glasgow, such as the llon. the Lord Provost, Sir John Cuthbertson (of the School Board), Mr. Cochran Patrick, Dr. A. B. MeGrigor, aud Dr. W. G. Blackie. Professor McKendrick is one of the honorary secretaries. A scheme has been prepared, of which the most important points are as follows. Courses of lectures will be arranged for in thasgow and the surrounding districts. The Board will determine the subjects and appeint the lecturers. Each course will consist of twelve lectures, delivered once each weels during a period of three months. An examination will be conducted at the termination of each course by an examiner appointed by the board, and to those who pass certificates will be granted in the name of the University. The local arrangements will be undertaken by special local committees, who will par the fees required by the Boarl and other expenses. At a large meeting of tho Board held in Qlasgow on February lst the propesed constitution was adopterl, and a committee was appointed to take steps for carrying the scheme into immediate effect.

GLASGOW MEDICO-CHIRURGICAL SOCIETY.
At the last meeting of this Society on February 3rd, Dr. II. C. Cameron made remarks on a case of extra-uterine pregnancy, om which he had successfully operated. Full term was considerably past, and the death of the child before the weman came iuto lospital had made the diagnosis unusunlly difficult. After remoring the child, which was a well-grown futus at full term, Dr. Cameron stitched the eyst to the abdominal wall, loav int the placenta in its position. Thorongh cleansing of the eyst performed twice daily. After somo days fragments of the place began to come nway, and finally the remaining uass, considera shrank, presented at the wound, and was easily removed. covery was throughout unintorrupted, the cyst gradually becomi contracted to a very small size. The fostus and placenta we shown to the Society:

## ROYAL HOSPITAL FOR SICK CHILDREN.

Tumas were treated by the staff of tho Loyul llospital for sic Children, lilinburgh, during the month of Jamary, je9 patient of whom 52 were in the wards at the beginning of the montl while 51 were autmitted during it, 20 were cliselarged as cured it recovered, and 8 were relieved; the average number daily rusiden in tho wards was 43 . In the dispensary department 421 out pationts were trated, and 5 children were vaccinuted. The majority of the new cases were from Vidinburgh and Laith, only 13 being from the country.

THE NATIONAL REGISTRATION OF PLUMBERS, A public mecting of those interested in the expediency of registering plumbers and providing for their special training, in view of the important bearing which the plumbers' eruft has upon public health, was held at Alerdeen on Felruary Gth. The meeting was called by Mr. R. L. Coles, clerk to the Worshipful Company of Plumbers of London, and there was a large attendance of plumbers from the city and representing Aberdeen, Banff, and Kincardine. Lord l'rovost Henderson occupied the chair. Professor - Mattlew Hay, who addressed the meeting at considerable length, expressed the opinion that the decrease in mortality in Aberdeen and other cities had been more largely due to improvement in plumbing and in architecture than to any improvement in medical treatment. He concluded by moving that the following gentlemen should be clected as representing the public, and adding to those representing the masters and operatives: William Henderson, Lord Provest of Alerdeen; Dr. Maitland Moir, chairman of the Public Health Committee; Dr. Matthew Hay, ex-Provost; James Matthews, architect; William Smith, city architect; George Rose, convencr of the Incorporate Trades'; Dr. Alexander Ogilvie, head master Gordon's College; John Miller, Sandilands; William Boulton, burgh surveyor; Kenneth Cameron, sanitary inspector; :with Mr. A. M. Byres as secretary. This was unaninously agreed to.

## IRELAND.

## DEATH OF DR. D. D. TATE.

Dr. ${ }_{4}^{r \prime}$ D. ${ }^{2}$ D. Tatre, lately resident medical officer, North Dublin Union, died on Tuesday. He had recently retired on pension, awing to severe illness, from which he never thoroughly recovered.

## DR. CROKER KING.

We regret to learn that Dr. Croker King does not make the satisfactory progress which was hoped for, and that it is unlikely that he will be able to resume his duties as medical member of the Local Government Board.
the cavendish lecture.
Sir W. Stores, Professor of Surgery, Royal College of Surgeons, Treland, has heen invited by the West London Medico-Chirurgical Society to deliver the Cavendish Lecture.
the royal university in ireland.
Tue Senate of the Royal University has determined that in future the degrces of B.Ch. and B.A.O. shall be conferred in addition to the M.B. upon all candidates who pass the examination for qualification as required ly the new Act of Parliament. Candidates will not be required to pay any extra fee. The highcr degrees of M.D., M.Ch., and M.A.O. may be taken in three years subsequent to the primary degrees. The privilege now given to old students of the Queen's University of proceeding to the degree of M.D. on the course recognised in that university will be withdrawn at the close of the year 1891.

## religious mania.

A VEry singular ocenrrence has recently taken place at Gortley, a, village not far distant from the famous Gap of Dunloe. On Saturday, Felruary 4th. six members of one family, in a fit of madness, murdered au idiotic boy aged 13, and threw his body -into the yard adjoining the honse. The perpetrators of the deed are now inmates of Killarucy Lunatic. Asylum, hut the mother of the lad has confessed to hare had some hallucination that so long as he lived the family would be subject to evil influences. On this account she acknowledged having killed her son with a batchet.

## DR. MAGNER.

Dr. Magner, of Cork, having been sentenced to two months' imprisonment for having taken part in a National League meeting contrary to law, the Local Gorerament board issued a sealed order dismissing him from his position as dispensary medical officer. It the annual meeting of the Cork Medical Association a resolution in reference to the matter, but the terms of which have not been made public, was passed unanimously, and ordered to be sent to the Local Government Board.

## BRITISH MEDICAL TEMPERANCE ASSOCIATION: NORTH OF IRELAND BRANCH.

Trie annual meeting of this Branch was held in the rooms of the 1rish Temperauce League, Delfast, ou January 2 Qth. The Présidont (Brigade-Surgeon $11^{\circ}$ Farland) occupied the chair. Brigade-Surgeon MrFarland was re-elected President, and Dr. Wm. G. Mackenzie Honorary Secretary and Treasurer for the ensuing year. DrThompson, J.P., Anahilt; Dr. J Dysart M'Caw, Portglenone; Dr. Dickson, J.P., Ballynahinch; Dr. Taggart, Antrim; Dr. Elliott, Derry ; Dr. H. Mr. Johnston, Stranorlar, Doncgal, were elected VicePresidents. After a discussion as to the best means of securing the interest and co-operation of those members of the profession who do not now sympathise with the principles of personal abstinence, in which Drs. Barnett (late FI.M. Indian Army), Arnold, Osborne, Scott, Sinclair, and the President took part, it was resolved that the Secretary be instructed to send a circular to all the members urging upon them to lring the claims of the association before the medical brethren in their rarious districts.
the late dr. david j. hamilton, of cookstown. At a meeting of the Cookstown board of Guardians, held last week, the following resolution was adopted:-" That this board desire to express their sense of the loss they have sustained in the death of Dr. Hamilton, who had been for forty-six years medical officer of the workhouse, and their deep;sympathy with his daughter and other relatives." The board have appointed Dr. C. Graves as locum tenens in Dr. Hamilton's place, and will elect his successor on February 11th.

THE ROYAL BARRACKS, DUBLIN.
We publish elsewhere some particulars, which will be found very interesting. The report of the commissioners appointed by Government to inquire into the outbreak of typhoid fever has not yet been made public; but we believe we have been able to collect and present as full a history of the case as is so far available. It is quite plain that there is a ferer nest in the Royal Barracks. We think the starting-point has been clearly traced to the ventilating shaft of a sewer at the cavairy mess, and we do not doubt that fresly centres have been established through the impure latrines and the adulterated milk, The ventilating shaft has been removed, and already all improvenents that can le rapidly made are heing carried out. The pulling down of buildings as recommended will get rid of the narrow lane ways, and the erection of a proposed new cavalry barracks nearer to the Plounix Park will remove another source of mischicf. We are sure that the report will prove a valuable one, and it is to le heped that, with the changes which must be carried out, the plague spot will disappear.
Danger of Entering a Train in Motion.-Mr. Mortimore Smith, L.R.C.P.. of Southport, met with a very serious accidention Tuesday night, whilst attempting to cuter the train at Formby. when in motion. Having stepped between the foothoard and the platform, he was dragged for some distance, and sustained a compound fracture of the thigh in the lower third, complicated by cxtensive crushing of the kuee-joint. He was immediately removed to the Southport Infirmary, where the thigh was amputated by Dr. Arthur Jones. The patient sauk and died on Thursday morning. Dr. Smith had only been in practice at Southport for about two years.

THE N゙EUROLOGICAL SOCIETY OF LONDON.
Turs general aumual meeting of this Society took place at tho Holborn kestaurant on the evening of February 2nd. The follow office-bearers, nominated by the Couneil, were unanimously elected -President: Sir J. Crichton Browne, M.I., F.R.S. Vice-I'residents: J. Ilutchinson, F.li.C.S., F.R.S.: Themas Buzzard, M.D., F.R.C.P. Cormcil: H. Charlten Bastian, M.D., F.R.S.; A. Ilughes Bennett, H.D., F.R.C.1'.; D. Ferrier, 31.1)., l..R.S.; J. Hughlings Jackson, M.D., F.R.S.; G. J. Romanes, R.R.S.; G. 1I, Savage, M.D., F.R.C.1.: E. A. Schafer, F.R.S.; James Sully, M.A: D. Hack Tuke, M.D., F.R.C.P.; Samuel Wilks, M.D., F.R.S. Ireasturer: J. S. Bristowe, M.D., F.R.S. IIonorary Secretaries: James Anderson, M.D., F.R.C.l'.; A. de Watterille, M.D., M.A., B.Sc,

After the business mecting the merabers of the Society dined tagether: Sir James Crichion Browne, l'resident, in the chair. About forty members and a number of guests were present, and amongst the latter was the l'resident of the Royal Society, MLr. Joseph Themson (the African explorer), and l'rofessor Mivart.

After the loyal toasts, the Crianmas, in proposing the toast of the evening, "The Neurelogical Society", said that division of labour, it seemed to him, was ever characteristic of adrancing
civilisation, and that localisation of function might be observed not less in the comaunity than in the individuat. The manufacture of cotton had its centro in Lancashire, that of woollens in Iorkshire, that of gloves in Worcestershire; and in every great hive of industry in thiese days, like Birmingham, they found that varions operations were carried on in different establishments and ly different artisans, which in more primitive times would hare been conducted in one warkshop and by one pair of hands. In science, he ventured to think, as in industry, as that prominent)represcntative of science whoj had hononred them with his presence there to-night-the President of the Royal Society-would testify, the same kind of division of labour was perpetually going on. It was no longer possible for any one man to emulate Solomon, and talk wisely of beasts and of fowl and of creeping things and of fishes, and to be as encyclopaedic as Aristotle, and every student of science who would be a profitable student must now be content to toil diligently, after a comprehensive general training. of course, in some alletment of one of the fields into which the great domain of science had been broken up. The growth of the tree of kaowledge implied the multiplication of branches, and the law would seem to be that in proportion as any branch of science became less abstract and more practical, so the division of labour must be pushed further and further in order that those who followed it might be endowed with due skill and insight. Biology had been broken up into botany, zeelogy. anatomy, physielogy, and so forth; and medical scieuce, which was a branch of applied bielogs, had been specialised to an extent which was almost a reproach, for they had been told that there was no organ in the human body except the urabilicus, which had not a group of physicians exclusively devoted to the treatment of its diseases. Mell, perhaps specialism had been carried a little too far, and they might in some instances have sacrificed breadth to iusight, but specialism in medicine was to some extent inevitahle, and, in certain directions, it was not only inevitable, but desirable, as in the case of the diseases of an organ, or a system of diseases which were peculiarly complex and varied, that required to he investigated by special methods and special instrumeats meding special dextcrity in their use, and that required to be reviewed from time to time in counection with the derelopment of certain rapidly progressive branches of pure science. And on these grourids he ventured to olaim that the diaeases of the nerveus system, which were certainly very complex. very obscure, nnd very varied, which required to he investigated by special methods and special instruments, and which had constantly light thrown upon them by physiology on the one hand and paychology on the other, constitated a natural and real speciality in merlicine which well. might demand the nadivided attention of a group of physicians as well as the collateral assistance of other physicians, who, though not making nervous diseases their special study, were particularly interested in them. If nervous diseases constituted, as he claimed, a natural and a real speciality iti merlicine, they were entitled, hat thought, to a Society of their own, in which those that atudied them might meet and compare netes-a aort of theught exchange
to which the workers might bring their products to bo saropled by those who understood them, to have the actual value attached to them by debate or the haggling of the market, as it might be called. It had thus come about that a few peychelegists, who lad buen accustomed to study mind in comection with its anatomical substrata, a few ardent plysielogists whe had made a special and particular study of the functions of the nervous system, and a large number of physicians who were cngaged in grappling with the disorders and diseases of that system, had found it conrenient t'e band themselves together for mutual encouragement and suppart into the Neurological Society, the sucond anniversary of the birth of which thoy were met to celebrate that evening. llaring survived the perils of infancy the Neurological Society had now attained to the enjoyment of solid food and its first dinner, and seeing that the rudimentary brain was a supraoesophageal ganglion, it seemed to him but right and expedicnt that the Neurolegienl Society shonld not altegether oyerlook the great function of deglutition, and hence their dinner. A number of those who were there that evening had been at the making of the Neurelogical Society, and it was net necessary to rehearse its órigin or progress, hut he might mérely say that, thanks in a great degree to their indefaticable secretaries-Dr. de Watteville, who was fondly thinking of them on'a peak of the Engadine, and.Dr. IIughes Bennett, whe was blandly smiling upon them at that beard-thanks to their exertions, the Society was, ilready in a flourishing, cendition.' Its roll of members was leng' and lengthening; its meetings had been well attended, and had given rise to discussions of the most thorough, searching, and practical. description; and not only had it reached, as he (Sir Crichton lirewne) had pointed out, to the enjoyment of solid food, but obtained the command of an organ of articalate speech, for the journal Brain had passed into their trindsen journal which, he ventured to say, lad already obtained some scientific standing, not only in this country, but on the Continent and in America He ventured to augur well for the future of the Neurelogical Society which they inaugurated, and he feunded his farourable prognestications upen the knowledge of the stuff of which the members were made, and of the spirit which animated them, of the significance to the community of much of the work in which they were engaged, and of the high and abounding interest of some of the subjects which oecupied their attention. As to the stuff of which the members were made, he was quite sure there was no medical seciety which included a larger number of members devoted to scientific work for scientific work's sake. Mappily they, had amengst them a large number of practical physicians, whose skill and experience were at the service of the public whenever those silver cords, the nerves, were, loosed, and whenever that golden bowl, the brain, was broken, and who ohtained substantial rewards, But the neurological werk of these practical physicians, like Hughlings Jacksen, Buzzard, Ferrier, and Bastian, if looked inte, would be found to be of the most thorough and laborious and patient character, with no facile element of display in it; and besides these practical phyeicians, they, had some students of pure science: a number of gentlcmen who were 'deroting' themselves to neurelogical inquiry, anmated only by intellectual zeal. The members of the Neurological Socirty, ds a body, scemed to him to be made of the true scientific material, which was likely to give strength and durability to its erganisation. ( With regard to the spirit which animated the members, he might say that it was one of sanguine expectation. Remarkable discoveries on the structure of the brain and nerrous system had been made of recent years, striking advances had been' achieved in their knowledge of nervous disensés, and those discoveries and those adrances had stirred up a epirit of euterprise and of curiosity. which, if ho might compare small things with great, he would compare to that spirit which moved this country after the disof great Elizabeth with seunds that echeed still." Neurelogists had two hemispheres to explere, and the promise of rich treasures of discorcry to those scientific adventurers who would embark on the royage of research. lle thought he might say that; stirred by of the discoveries and advances that had been made, the members tion and reurological Socicty wero now moved by fervid expectapations were sometimes fallacious and disappointing, and perhaps some of them would recollect what Oliver Wendell' Iolmes had told them of his fervid anticipation when he was, as he theught, abont to read the riddle of the universe. Having observed that when unconsciousness is consciously approached, as during the
inhalation of an anosthetic-when the mind is on the confines of two worlds-there arise sublime and voluminous, but fugacious thoughts, and having satisfied himself that in these thoughts, if they could only be caught and transcribed, there lay enshriued the secret of the universe, he determined that by a supreme effort of the will he would catch and transcribe them; so, placing himself in his armehair, with pen, ink, and paper at hand, he inhaled the vapour of chloroform. Is drowsiness stole over lim and just as unconscionsness was impending, those sublime and marvellous thoughts arose, and . by a vigorons effort he seized his pen and wrote, he knew not what, for before he had finished he fell back unconscious. When le awoke, with trembling anxiety he turned to the sleet of paper, on whicl he could read, in scrawling characters but quite legible, the secret of the universe written in the words: "A strong smell of turpentine pervades the whole." Now that anecdote, he thought, taught that mere fervid anticipations were not to be built upon, but neurologists had momentous discoveries already made to found on. Touching upon the significance to the general community of the work in Which the Neurologidal Society is engaged, he would remind them that the present Was a nerrous age. The nerrous temperament was in the ascendant. The burden of the world's work, which used formerly to be borne by muscle, had been transferred to nerve in devising, guiding, and superintending machinery. Education, which lad been so diffuse, had a nervous tendency, and their greatest neurological philosopher, Dr. Ross (of Manchester:) had told them that those mental disturbances which were so prolific a source of disease must ineritably excrcise a more and more predominant influence in their production as civilisation went on. Then they must remember that the nervous element in our population was constantly being increased by the preservation of sickly lives which they owed to modern sanitary science. Those epidemics which used to devastate the country carried off a number of those of the least nerrous resistance, and now tlat these sepidemics had been restricted in their rarages, a large number of persons of weakly nervols organisation and unstable equilibriun, who rould formerly have been cut off, were allowed to grow up and to suffer from every rariety of nersous disease. "Take," he said, "infantile convulsions as an example. Within a period of twenty years the mortality fell from 26,000 to 22,000 , and that notwithstanding an enormous increase in the population. Now, it was quite certain that under infantile contulsions there used to be classed a - large number of maladies which were now recognised of a different nature. But, allowing for this, it was incontestable that. a large number of infants, awing to improred methods of feeding and nursing, who would formerly have died of convilsions, were now reared to swell the nerrous element in our population." The tide of nervous diseases thus rolled on, and that it did so might, he thought, be inferred from the fact that in the very same period in which the mortality from infantile convulsions diminished so notably the mortality from other nerrous diseases, rose from thirty to forty-nine per thousand per annmm. Nerrous disease being the disease of the future, the Neurological Society might, he thought, render important services iu safeguarding the public health. It had an important mission, and affecting the general community in connection with mental and nervous hygiene. To bestow just one word on the lofty and absorbing interest of some of the questions which must be deliberated on from time to time by the Neurological Soeiety, he would point out that those questions lay on the margin of that great unbridged gulf which separates the psychical from the plysical, that unbridged gulf whieh was as alluring to the speculative philosopher as the lam], was to the moth. Not, perhaps, until the veil of Life's temple was rent in twain would they rightly comprehend the incarnation of mind in matter, but it was a law of our being to press as closely as may be upou that great mystery and to read with eager interest such fragments as were decipherable of the cryptic records of the brain.

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## THE HAYA POISON: ' ITS LOCAL ANASTHETIC PROPERTIES.

Din. L. Lewin, of Berlin, who has already enriched our knowledge of the kava-kava and sassy bark, has, the British and Colonzal Druggist reports, just coucluded an interesting research upon a new arrow poison, called haya poison, that Messrs. Thomas Christy and Co. sent to him, and which they had received from Africa.

The statement of our contemporary runs as follaws; Dr. Lewin, in his report states that he received from Messrs. Christy a box, containing some shapeless fragments of an average length of one centimetre. A superficial examination of the poison showed it to consist of pieces of two different shapes. The first to be examined were amorphous; dark brown, but lighter in the fracture, where the colour was more of a brommish green; easily broken up and sbowing a smooth section when cut; when squeezed it becamo flat, and could only be reduced to a fine powder with difficulty. In this powder, as well as in the fracture of the pieces, numerous glistening particles were observed. The other pieces were almost black, somewhat of the colour of the aloe, and presented when splintered the translucency of the latter; the pieces had mostly a deeided shape, being convex externally, and having on the inner surface a sharp-edged furrow, suggesting almost that it was occasioned by a narrow angular instrument having been pressed on the surface.

Dr. Lewin is of opinion that the mass had been attached to the barb of an arrow, and this, he says, is all the more probable, as in some of the furrows he noticed a good deal of iron-mould. The pieces which could not be cut up were brittle, fractured, and isplintered, like the aloe, and were easily reduced to powder, Which, unlike that of the pieces first described, was not sticky. In the powder similar glistening particles to those observed in tho first were seen. Upon carefully examining these particles, which were freed from the powder of both the amorphous and the shaped pieces by an aqueous solution, Dr. Lewin found them to.consist of gold spangles.

Both powders were odourless and tasteless, readily absorbed moisture from the atmosphere, the amorphous powder doing so to a much higher percentage. Both were soluble in water, especially boiling water, the solution of the amorphous powder rarying from a straw to a brown colour, and that of the second powder being of a blackish colour, reminding him of a solution of apomorphine; both solutions, in a minor conceutration, showed a distinct opalescence. Upon filtering the solutions there remained a residue containing flint and mica, and having a shimmer like mother of pearl.

Twice did Dr. Lewin separate from the residue some seed husk, which, however, could not be defined even by an expert. The epidermis of a bark was also ohtained whicl, by careful and close examination with specimens in Dr. Lewin's collection, led him to suppose that they consisted of pieces of sassy bark, the ordeal poison of the Africans (erythrophweum judiciale). This supposition was confirmed by Mr. Hemings, of the Botanical Museum of the University of Berlin, and by Dr. K. Schumann, who kindly compared it with specimeus of sassy in their possession.

From the amorphous poison about 60 per cent. of the solid substance was extracted by water. The reactions of the aqueous solution were alkaloidal, and remained unaltered when heated in Fehling's solution. The solution of even the smallest particles, when boiled with mineral salts, became yellow, and when treated similarly with Fehling's solution, a bulky mass of oxide of copper was separated, A glucoside was also found. Phosphoric acid, picric acid, and tannic acid yielded from a strongly acidulated aqueous solution of the poison a flaky precipitate. The precipitate from phosphoric acid, when treated with baryta, yielded a minute quantity of golden-brown substance, having a decided effect upon animals' eyes, and which gave certain reactions with a sulphuric acid.

By repeatedly testing the poisou with alcohol, a pale yellowish, actire principle was obtained, which, in the case of the darkbrown pieces of the poison, was colourless. By ndding water to this alcoholic solution, it became opalescent, and after a short time a colourless flaky, and amorphous substance was precipitated, which does not affect the eye when aplpied to it. " With a view of ascertaining the quantity of soluble matter in alcohol, two grammes of the amorphous, poison were well soaked in a little cold alcolol, and then in a little hot alcolnol; and, after exhausting the alcolsol, 0.35 gramme of a yellowish residue were obtained.

This residue was repeatedly washed, and finally a micro-crystalline muss was viehed, whose crystals melted when heated, and reerystallised on conling; these erystals were dissolved by ether and alcohol, producel no effect upon animals, and were separated from the alcoholic residuo by treating it with a little water, and then tiltering.

After listilling off the water, there remained a sulstance which, by hassaigne's zrocess, showed glucoside reactions, which, though not very markex, wero eapable of being ascertained; this substance had an energetic local and general action on animals.

Dr. Levin calls particular attention to the fact that the residue, its solution, and one of the whole poison, placed on a porcelain palette with coneentrated sulphuric acid, afterwards cautionsly and perseveringly manipulated until dry and then heated, gavo when warmed a elear pink colour. After the additiou of a diluto neal to the aquons solution of the alcolnlic residue, microseopical crystals, mostly rhomboil, were isolated.

After a careful treatment of the poison ly alcohol there still remained a suhstance solnble in water, which seemed to possess a toxic effect unlike that of the aleoholic extract. Treatment with ether yielded no active principlo; after passing off the ether, the residue was micro-crystalline, and showed fine needle-shaped erystals. Want of more materials prevented a more umple chemical examination of the poison.
llaving often heard of an arrow poison which produced insensibility, Dr. Lewin made experiments to aseertain whether the hava poison produced anresthesin of the comen, and ho was not a litile smrprised to find this effect to be obtained with all the nuimals apon which he tried it. Anrathesia took place later than 'by cocaine, but lasted for eight or ten hours, gradually diminishing in its strength during that period. The spplication produced a passing irritation on the eye.

The action of $\frac{1}{}$ to concentrated aqueous solution, injected with l'ravaz's syringe, on the frog's heart was to diminish the pulsations from 30 to 8 per minute, with paralysis of the extremities. These effects were also noticed in warm-blooded animals. The after-effects were most remarkable, especially in Ismall doge, in which the respimtions, after about twenty or thirty minutes, became arhythmical, Tery rapin, with pauses of short duration, becoming, hiter on, protracted with dyspnoa and lsnguor; the head drooping, while the position of the body remained normal ; there was free Enlivation. Then the head began to tremble, the animal lay on its side, and the extremities hecame paralysed dyspnoca set in, and with it peculiar convulsions, during which the head was drawn elose up to the hody, the eyes were convulsively closed, and an undulating spasm passed over the whole length of the miseles of the body; and which appeared also to affect the intestines; the almost paralysed limhs were not subject to these convulaions. Decrasing sensitireness of the surface of the body followicd, and denth ensucd without convulsive effort. The couvulaions were noticed to be more severe when using the poison extracted by alcohol and diluting it with water.
The aqueous or alcolnolic solutions, injected subcutaneously into a pigeon, produced constant vomiting and frequent evacuations, protracted breathing, as noticed in the previons case; dyspnea then sppeared, and death took place, with convulsions of short duration. Alministered to pigeons ly the bat large doses only produced constant momiting and diarrhoen, while small dogs and pigeons, when even so emall a quantity as 0.3 gramme was injected subcutaneously, dised from the effects. ligeons remained healthy when eren as much as 0.2 D gramme was given through the benk.

Dr. Lewin concluded from his experiments that tho laya poison may arfely he classifind with the African poisons nlready known, or perhaps is iclentical with tham. The effects of the haya poison reminded him very much of thase he had noticed with thr poison of the Somali, the so-called Ouabaio, and the effecta of the latter resembled the intoxication profluced by the erythrephlowim. Besides these coincilenta his suspicions were more or liss confirmed liy the fragments of pidermis which he had found in the poian, and which so strongly reminded him of the erythrophloum bark, which 13 years previously he worked upon. It was not, however, known that the erythrophloum eontained a principle having a local ameathrtic action, neither was the sulphuric acid reartion which ho discovered in the haya poisen known.
$1 l$ is auppositions were found to be correct, for a 2 per eent. coneentrated solntion of hydrochlorate of arythrouhloine oltained from Merek, immediately producerl, with contraction of the pupils, ineensibility of the eyc, lasting from 10 to 24 hours; but
tho irritating principle the erythrophlœine contains is preaent in too great a quantity for it to be neutralised in the concentrated solution ; and this wan proved by it producing in cats irritation in the cornea, much sulivation, running at the nose, and violent sncezing.

It is worthy of notice that solutions of 0.25 per cent., or evon 0.10 per cent. of erythrophloine produced, without apparent irritation, in ents, dogs, guinea-pigs, etc., anesthesin of the comea after ubout 15 to 20 minutes, as was the caso with the haya prison, the pup il remaining unchanged for many hours.

A solution of the haya poison was injected subcutanenusly into a guinea-pig, and produced an insensibility of the part treated so great that he was able to cut down as far as the muscles without any discomfort to this most sensitive animal. I'rogs in which tetanus was produced by injecting erythrophloine into the leg showed no reaction of that limb when pricked, and the tetanus could not be renoved.

Dr. Lewin said he was able to obtain, with the salts of erythrophloine, that wonderful reaction with sulphuric acid which he is surprised has so long been overlooked. In conclusion, Dr. Lewin says, he has slown that erythrophleine is contained in the haya poison, if only in minute quantities, and that the action of the poison is partly due to its presence. Is soon as he was able to obtain more materials he intended to go further into these matters, and he expresses his satisfaction at the discovery he was able to make of a new auresthetic.

## THE OUTBREAK OF TYPHOID FEVER AT THE ROYAL BARRACKS, DUBLIN.

This Royal Barrscks, Dublin, has gained an unenvisble notoriety on the score of its insanitary condition. It has figured in the House of Commons from time to time when some new case of typhoid has occurred, but for some years the authorities heve been unable to discover or cope with the cause. Sufficient has now been revealed to show that there are probably several causes in operation.
So long ago as May, 1887, Sir Charles Cameron, medical officer of health for Dublin, and Dr. T. W. Grimshart, the RegistrarGeneral for Ireland, were appointed to report upon the state of the building and to endeayour to determine the circumstances connected with the prevalence of enteric fever among the troops stationed in tho barracks. No one conld have been selected better suited for such an investigation. The work was of a most lahorious character, and the Blue Book, which will come before Parliament, will show how thorough has been the inquiry:'
The geological structure of the site upon which the barracks stand possesses some peculiarities which aro of considerabla importance. The Dublin district generally stands on the "boulder clay " of the "glacial drift," which is one impervious stratum. There is, however, in the centre of the eity of Dublin, extending along the valley of the liffey, a gravel bed formed by an old raised sea beach. This gravel lics on the "boulder clay" before men-tioned-the latter clay heing an impervious stratum-the gravel a very pervious one. As the ground rises on each side of the Liffey, the gravel is found at the bottom and the clay on the higher sides of tho valley. The result is that the drainage on the higher levels of tho valley tends to run off the clay and accumulate in the gravel led at the lower level. It necessarily follows that the gravel receives not only the sewage and drainage proper to its awn arca, but also that of the clay nbove. It so happens that the
Royal Barracks and thercfore all draina situated on the clay and on the gravel, drains for that part situgted on the clay tends to fow down to wards the sonth and sccumulates in the gravel. In terracin to ground to accommorlate the buildings of the barracks, walls had to be censtructed; the dampness of these walls shaws that a considerable amount of water is always passing from the higher to the lower ground, and this must ultimately find its way into the gravel hed below. Thus, while the aspect of the barracks is grood, its site, from a geological point of rierw, is defective, and therefore the drainage arrangements require special attention to make the site a henlehy one.

The period over which the statistics of typhoid fever in these barracks may he eonsidered extends from 1879 to the latter part of 1887. During that time 59 eases aceurrecl, with a mortslity of about 20 per cont. But in 1879, while there were 218 cases in

Dablin with 3 in the barracks, in the first three quarters of 1887: with 90 cases recorded for Dublin, 27 oecurred in the barracks. The record of cases in the several military contres is impertant. Dublin district, which extends right aeross Ireland to the west coast, shows 2.5 per 1,000 ; Dublin garrison, 3.5 ; Belfast, 0.7 ; Cork, 1.8 ; Woolwich and IIome, 2.5. Deaths from all causes were, in the garrisons of the United kingdom, 6.55; Dublin distriet, 6.82 ; Dublin garrison, 6.63: Ilome and Woolwieh, 6.7. The deathrate in typhoid ferer was, in Dublin garrison, 20.6; in the United Kingdom, 23.1.

That the geologieal strueture on which the barracks stand has some influence is shown by the comparative death-rate. In the five years from 1882-7 the death-rate was 1 in 365 on the gravel bed, as compared with I in 531 in the rest of the city.

The Plan and Strictide of the Butldings.
The distribution of the buildings of the Royal Barracks over the site is somewhat peculiar, and by no means conducive to the health of the inmates. The eastern group of buildings consists of Palatine Square, closed in on all sides, entered ly archways, one of which is situated in the centre of each side of the square. To the sonth of this square is Brunswick Square, which has buildings on three sides only, the fourth side being open to the south. On the north side, and to the rear of Palatine Square, is a terrace rising to the level of the first floor of the buildings. At the eastern end of this terrace stand a number of buildings, which still further intercept the air and light from the windows of the north side of Palatine Square. At the other extremity of the terrace the beundary wall of the barracks is so close to the huildings as to produce the same injurious effeet. In faet, all the north structures of the square on the lawer storeys have their light and air interfered with. On the eastern side of this eastern group of luildings runs a roadway, with seme low huildings on the public side. On the western side there is a totally different state of things. About half of the western side of Palatine Square, and the whole of the western side of Brunswiek Square, have their western windows looking inte a narrow lane, the opposite side of which is formed of a row of buildings. The lane is but twenty feet wide; the buildings on the Palatine side are four storeys high, and on the other side three storeys. The lane itself contains cook-houses, ablution rooms, washhouses, ete. Thus, the spaee betreen the eastern group of buildings, comprising Palatine and Brunswiek Squares, and the middle group, is confined by a narrow lane closed at one end, and partly occupied by small buiildings seattered irregularly through it-a state of things found in old and overcrowded towns, but not now to be expected in a barrack. An arrangement more calculated to lower the health of the occupants and to spread disease could scarcely be contrived. Similar unhealthy conditions prevail along the western as along the eastern side of this lane. The state of affairs on the western side of Royal Square is almest as bad as on the eastern. The occupants of the buildings cannot ever be expected to be healthy until the insanitary conditions are mitigated. The western group of huildings comprises Cavalry Square, the Horse Square, certain Luildings to the north of the IIorse Square, consisting of stalles, with cavalry soldiers' quarters and recreation reoms over them. To the west of the group of buildings runs another lane, but in this case there are no light buildings; but, on the other hand, there are latrines, cook-houses,
stables, and other olstructions. On the eastern side of the western stables, and other obstructions. On the eastern side of the western group there is a long narrow lane separating this group from the central group of buildings, with all its unhealthy conditions. The air in these lanes was found to be deeidedly bad, and abounding
with micro-organisms. with micro-organisms.

## Probable Causes:

The cases appear to have tinte appeared in the Cavalry Square occupied by about fifty persoms. Here are the cavalry mess and the cavalry officers' quarters. There were four cases among the oflicers, one of an oflicer's servant, and some amongst the sergeants and troopers on the opposite side of the square. A serrant's water-eloset near the mess room was found to be in a sery bad condition. Running up outside the wall of the mess room was a ventilating shaft from the ruain sewer, not from the eloset. When this was testel, it was found that the smeke, as soon as it beeame cool, began to fill, and then passed into the mess room wiudows. In sumoner this reom becane het at night, and the windows wero
nlways open, so that the gases from the sewer betow wore nlways open, so that the gases from the sewer below were constantly passing into the clamber occupied hy the oficers. A further examination showed that this sewer comes direet froni the hospital at Artour Hill. where infections cases nre treated.

The Palatine Square is occupied by infantry, and is separated from the Cavalry by another square (thie Royal), also for infantry. In the Palatine Square two officers were attacked, but they had been in the cavalry mess. The men in this square were soon attacked also, and some cases followed in the Royal Square. It was* found that the latrine is common to the infautry of both these squares; but sometimes cavalry men use it also, although that is against orders. Here the poison was probably deposited by the troopers, and in due time spread to the infantry: It was found impossible to flush this latrine effectually. With an enormous force of water only the sides were washed, and there still remained a quantity of decomposing filth. Thus when enteric fever poison got there, it remained there, and was propagated from man to man. The latrine became in turn a regular nursery for typhoid
fever. fever.
It is a point of much interest to note that typhoid ferer prevails to a greater extent in the army at home than in the troops abroad, and it may be that it is propagated in the way here indieated by the change of regiments from station to station, where the system of drainage is on the same plan. A further interesting point is that in Dublin the death-rate from typhoid is much higher than among the civilian population, the proportion being 11 in civilian males to 22.6 in soldiers.

## Mile.

On a particular day, all the milk supplied to the several barracks in Dublin was seized at the request of Sir C. Cameron and Dr. Grimshaw, and it was found that while in several cases the anpply was bad, in the Royal Barracks 12 supplies showed 11 to be adulterated with from 13 to 56 per cent. of water. In the tetal amount of 29 supplies, only 5 were noted as good. Now, this was in the summer, when the cattle were iu the fiflds. The milk was adulterated no doubt from the small streams in the neiglibourhood, which were probably impure with cattle droppings. At all eveuts it was from this period that the cases begau to increase.

## Structure of Beilidings.

All the buildings are old, many of them very old. The age of the buildings is in itself a source of great dificulty in providing healthy conditions for the inmates. There is a considerable amount of old timber in the floors and elsewhere, which is somewhat detrimental to health.

## Sewers and Dratns.

The questions connected with old drains are necessarily very difficult of iurestigation in such a building as the Koyal Barracks. In the many cases in whieh we have examined the connection between the main servers we only met with the remains of a very few old drains, none of which contained any recent serrage matter, and must have been completely disused many years ago. In connection with the sulject of old drains, it should be mentioned that in some places these drains still exist, and are in use. Such drains are probably harmless when they only carry complete surface drainage, but under all these circumstances they may become sources of danger, and thierefore pipes should be substituted. There are no plans of the old drains in existence. We are distinetly of opinion that there are no grounls for believing that the health of the inhalitants of the barracks can be affected by neglected old drains. lmportant drainage works have recently been carried out by the Royal Engineers, and others are in progress, and cannot fail to have a beneficial influence upon the health of the troops quartered in the Royal Barracks. The latrines are of an unsatisfactory pattern, as are also the arrangements.

## Recomendations.

A thorough subsoil drainage of the whole site of barraeks, and an extension of the dry-earth system; removal of all irregularities and rendering surface of grovind impervious-covering polluted ground with some such material as hygienic cement: removal of considerable portions of the present buildings; complete destruction of the narrow lanes. Buildings to be removed-the wholo of the eustern side of Royal Square ; the whole of the eastern side of, the Horse Square, of the Cavalry Square, the eastern end of the block of buildings separating Cavalry Square from the Morsc: Square, the riding school north of Royal Square, the cook-houses near the riding school, and several small buildings; removal of beundary wall along Arbour Hill: remoral of the magazines on the terrace to the north; the terrace to be sloped down ; terrace to that eastern side of barracks in front of officers' stables to bel'sloped'
down: removal of all the small buildings at present in the lanes and yards: ground floor of north side of l'alatine Square to be disused for liabitation; remeval of all very old timber; ventilation of harrack rooms by "Tobin's tubes." Urainage from hospital Io be so armagerl that eorerage containiog discharges from patients with infections diseaees shoukl net bo admitted to myy of the general sewers of the barrack, and should be disinfected hefore admisslon into any sewer. A few other recommendations are made.

Coucluding opinion:- That if the foregoing recommendations are adopted the health of the treops in the Royal Barracks will be much improved, and the predisposing causes of enteric ferer in the harracks mitigated as far as possible.

## ASSOCIATION INTELLIGENCE,

## NOTICE OF QUARTERLY MEETINGS FOR 1808

Moctings of the Council will be held on April 18th, July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, March 2sih, June 27th, September 26th, and December with, isss.

## ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, tre shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he eeeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

Ture Report upon the Coninection of Disease: with llabits of Intemperance, which mas presented to the Section of Medicine in the Annnal Meeting of 1887, and a further portion of the Report upon Old Age have been completed, and will shertly be published in the Journal.

Reports npon the two remaining inquiries, nomely, that into Dipiftrerpia, and that into the Gbograpitcal Distmibution of certain Digeases, are in preparation, and will be pablished as soon as ready.

The follewing inquiry only of the first series remains open, namely, that on The Etrology of 1'itimsis.

A freah Inquiry into the Origin and Mode of Propagation of Epinemics of Dipitherits has just been issned.

Memoranda upon these subjeots, and forms for recording observations, may he had on application to the Secretary of the Collective Investigation Committee, 493, Strand, W.C.

## BRANCII MEETINGS TO DE HELD.

Metropolitan Courties Brangh: Fast Lomdon and Soutr Ngek Dis Thicr.--The next meeting will be lichl at the Town Hall, Wallhamstow, on Thuraday, Fehruary 18 h , at 8.45 P. M. (aharp). The clanir will be taken by A. IDarham, Finq. Presklont of the Braneh. A paper on Perniclous Anarmis, and tho Itamsea Liable to bo Contonuded with [t, will be reall by Iar. Iristowe, F'R.S. Visitors wilt be welcomed.-J. W. If U'T, 101, Queen's Roal, Dalston, Ilonorary Secretary.

Miftroporitax Cousttes Braser: Soutt London District.-A moeting will be held in the Quecn's IInuse, Greenwich Mospltal Scheol, on Tucadny, February lth 188, at 8 r.M. The chair will be taken ty Dr. Hrederiek Taylor
 maretIng. 2. Introductory Adilress by Dr. Frederick Taylor, as the first Viccmreting. 2. Intmanciory Adress. Sobr. Frederick Taylor, as the arst ice Smaman's 1Iospital) wfll read n faper on the Radical Cure nf II ernla. 4. Cases ol Interest from tbe Spaman's Inapital will be showa by Dr. Curnow. Genthemen desirons of realing papers, exhthitiog apecimens, etc, at futuro meetIngs, are requested to communlcate with the lionorary Secrefary. All medical practitloners will bo welcomed. There will he a meeting of the Commilter at the aamo plare at 7.30 P.M.-R. Percy Smity, Honomry Secretary, Bethlem Hoyal IIospital, S.E.

Y (RKSTIRE Brancti. - A monting of the mmmbers of this Branch will be beld at the Clayton IIospltal, Wakefeld, on Wedneaday, February 22nd, at 3 P.M. Memin ra inteading to read papers are requeated to commualcatc at ouce with ABTEUR JAcksom, Secretary, Shefield.

Abermenn, Baxff, and Kincarmine Brancti- I menting of tbis Branch will be held at 198, Union Street, Abopideen, on Wedresilay, Feluruary 15th; at 8 P.M., the Jresident, Dr. Snilth, of Kinnairly, in the eliaif. Business: I. Minutes, nomination of news memprors, etc. '2. Ballot for the admissian of Dr. J. Marshall Lamth, Bornmo. 3. Mot ton of Dr, Wight to memarialise tho Town Commeil of Aberdeen that the mppoftimetit of mediealifificer of bealth at present vacant be filled up by a qualified medieal practitiouer, who shall be excluded from privale practice, and whose whale the shall be dovoled to the
duties of the alliee, in terms of tho memorandum of the duties of the medical officer of healsh of tha city of Aberiteen, of date Mareh 15th, 1888 . 4. Casn of Jyloric Obstruction, whth grent Hypertrophy, of the Storaach, by Dr, Blaikio Sinith. 5. Exhibifion of Specimene: (1) lam's-horn Toe-nail, by Dr, Garden: (2) Specimen of Compoumd 11slocation of Aakle-joint, by Dr. Garien. 6. Dommonicatha by Dr. Barctay, Banif.--Hobert Joif Gariver and J. Mackfazif: Bonth, Honcrary Secretaries.

Staffornshire Braxci.-The second general meeting of the present session will be held at the Railway Ilotel. Stafford, on Thursday, February 23rd. Mr. W. D. Spanton, the President, will Like the chair at 3.30 P.N.-.V'NCENT J\&cksos, General Secretary.

Gioucestershire Branoin. - Thn next ordinary mecting will he held on Tuesday, February 21st, 1888 , at 7.30 P.3., at the Infirmary, Gloucestcis; uader the presidency of Ur. Currie. Ageada: 1. A petition will be laid on the table for signature by members in support of the Architects and Engimeers Bill, a Bill to be presented in Parlinment next session by Colonel Duncan, R.A., C.B.. Bil to be presented in Parlinment next
M.P. 2. A discussion will.be opened by Dr. Ourrie. On the Present Poslifun of 1 Lomoenatily in Jelation to Regular Medicine. 3. Cases of interest in the In-firmary.-G. AnTeUR CARDEW, Ionorary Secretary.

Border Cousturs Bravce.-A necting of this Branch will be held at the County Hotel, Carlisle, on Friday, February 21 th, at 6 P.M. Dr. Byrom Bramwell, of Falinburgh, will read a paper and introduce a discussion on the Process of Compensation and Its Bearing on Prognosis and Treatmens.' The Secretary will be glad 10 receive notices of papers for reading, and patienta nr morbid specimens for exhibition. Supper in the hotel at 9 P.M.-H, A. LiEDIARD. Honorary Secretary, 41, Lowther Strect. Carlisle:

## METROPÓLITAN COUNTIES BRANCH ; NORTL LONDON DESTRICT.

A MeETING of this district was held on. Thursday evening, Fehruary Znd, 1888, at the Training Ilespital, Tottenham, Dr. E. Hooper Max in the chair. Sereral interesting cases from the wards were exhibited.

New Instruments,-Messts. Krohné and Sesemann show'ed many new instruments, the most important being a modification of Themas's splint for spinal disease, and the electric light applied to the laryngoscope.

MIassage--Dr. Stretch Dowse then read a paper on Massage, demonstrating its practice on a male patient lying on a bed by an assistant "masseuse." The paper and illustrations gave great satisfaction to the many gentlemen present (thirty in number), and was ritnessed also by all the sisters of the hospital.

Fotes of Thanks,- Votes of thanks were duly recorded to the I'resident, Dr. Dowse, and the other gentlemen.

## SPECIAL CORRESPONDENCE

VIENNA.<br>[FROM OUR OWN CORRESPONDENT.]<br>Magneto-therapy.-Calomel Injections in Syphilis.-Influence of Erysipelas on Syphilis.<br>Professor Bendidikt, in a lecture which he recently delivered at the Vienna l'oliclioik, made some interesting remarks as to the ralue of magneto-therapy. The opportnmity was offered ly a girl, aged 18 , whe had suffered for sevcral months from very frequent convulsions, which, owing in their being complicated with langhing and weeping, showed that the case was one of hysteria. The expression of the patient's face was very timid, and her complexion continually changerl, presenting at one time an excessive pallor, and at nthere a glowing relness. The dorsal vertebre, the left intercestal spaces, both nraries, but particularly the left one, were very tender on pressure, and pressure on the ovary during internal cxamination bronght on a fit of weeping. Professor Benedikt pointed nut 1 hat such irritable forms of hysteria were particularly enitathp for magneto-therapy, whereas monst of the other methods, such as elnctricity, hydrotherapy, ete., might aggravate the disease, and the suppression of such attacks by means of narcotics frequently rendered the malady incurable. He applied tho metallic maguet neer the sensitive dorsal vertebre without having the patient undressed, as the magnet could act at a distance, and the dress presented no obstacle to its action

After somei applications the patient became quasi-paralysed; she could only with great difficulty and very slowly execute the movements, which she was ordered to perform. It thus became evident how the magnet influenced the nervons system; it increased the resistance of conduction in the motor nerves; and this resistance could easily become absolnte. During the general relaxation of the muscles, the respiration became sighing, and consciousness gradually disappeared. This became evident, not only from the complete want of reaction to external impressions, but. also in part from the absence of recollection when the magnet was removed, and the patient aronsed from the hypnotic state by slight irritations. This was the usual form of hypnosis which was observed ofter the application of the magnet. The direct therapentic effect in the case under consideration was that the sensibility of the vertebral column disappeared after the application of the magnet, while that of the intercostal nerves became dimimished. The ovarian. hyperæsthesia, howerer, in contrast with many other similar cases, did not show any decrease. On the following day the patient stated that her attacks had become less frequent and less severe. As the ovarian sensibility could not be remored by the application of the magnet to the rertebral column, the patient was directed to lie down on the abdomen, and the magnet, wrapped in a cloth, was first applied with one of its poles to the left ovary, and then t.a the right one. A few of these applications were sufficient to cure the patient. The chief indication for the application of the metallio: magnet was a condition of increased irritability and active symptoms of irritation. With regard to the question, how, in a caso like this-which was due to disappainted lore -the treatment conld remore the consequences of a psychical alteration, Professor Benedikt gave the following explanation: the irritability of the nervons system becomes increased by the psychical irritation, and though the primary effect loses much of its intensity later on, a slight irritation is nerertheless sufficient to produce pathological phenomena. When, however, the irritability is diminished by an adequate course of treatment, the pathological condition is liable to disappear, Then the cause of the affection has lost somewhat of its primary intensity. This is, of course, true of all therapeutic effects on nemrapathic conditions, including the psychical ones, and, for this reason, we cannot expect to influence such patients before the primary irritation has diminished in intensity: Professor Benedikt went on to say that he had no doubt that we could also, injure the patients with the magnet; he himself had, however, only once lad the opportunity of observing permanent had effects from this treatment. We had to take into consideration the peculiarities of each casc. When the magnetic treatment did not produce a farourable effect at' thẹ very ontset, he discontinued treatment, and in the same way he taok care not to. prolong the experiment, when he saw that the patient's readiness to fall into the hypnotic state considerably increased. Prafessor Benedikt remarked, at the conclusion of his lecture, that since he had employed the treatment with the metallic magnet, he found hardly any further indication for hypnoto-therapentical attempts. There was no donbt that the hypnotisations and suggestions angmented, in a rapid and progressive manner, the paradoxical behaviour of the nervous system, and particularly. the psychical function. More hysteria was thus produced than had been present before, and strange to say the mind ("psyche") of the experimenters was so easily brought into a condition of exalted confusion, that they allowed themselves to be more influenced in the way suggested by the patients than the latter were by them.

At a recent meeting of the Imperial Royal Society of Physicians of. Vienna, गrofessor Neumann discussed the ralue of the calomel treatment in syphilis. This method had been recommended in 18 f 4 by Scarenzio, who statcd that calomel was to be preferred in the treatment of syphilis before any other preparation, owing to the fact that it, was first converted into sublimate and slowly absorbed, ancl that toxic symptoms were thus avoided. In modern times calomel had repeatedly been tried in Germany and Austria and several obsorvers, among whom might be named Professor Neisser, professerl to have obtaincd admirable results with it. They said that a few injections were often sufficient to make the secondary symptoms of syphilis disappoar. Professor Neumhnn had for some timo past experimented with calomel, using a solution prepared according to the following formula:-R. calomelanos, sodii chloratis, a, 5.0 (five grammes). Aq. distill. $50.0, \mathrm{M}$. Sig. for injections. A Pravaz-syringeful, containing 0.10 (ten centigrammes) of calomel to be injected at once. With this
solution he had treated thirts-sis patients suffering from macular, papular, pustular, and tubercular syphilides. The injections. were made in the region of the buttocks, and not, as was formerly the case, into the affected parts, the "materia peccans," according to the expression of Lewin: The results which Professor Neumann liad ohtained were not, however, so farourable as those clamed by other authors. According to his observations more injections were required in order. to produce the effect, and in one case he had eren to make eighteen injcctions. To appreciate the value of an anti-syphilitic method of treatment, its action as a preventive had to be taken into account. Latterly the experiments which had already been recommended by IIutchinson, namely, to delay the outbreak of the syphilis, in spite of the presence of the primary affection, by means of inunction, had been taken up by sereral authors, and Irofessor Neumann, who had also tried this" plan, found the appearance of the cruption could indeed be thus delajed, in one case even for 160 days, but that no adrantage was obtained by it ; the course of the disease only became irregular, and moreover a greater number of inunctions were required than in other cases in order to cure the disease. As to injections of calomel, he observed that their effect was in this respect still less intense; and according to his own experience the calomel treatment was indeed a new, and in some cases valuable, method, but in general its effect was inferior to that of innnction.
Professor Neumann also communicated to the same Society some important facts relative to the influence of erysipelas on the course of syphilis. It had recently been stated that erysipelas had not only a farourable influence on the course of the disease, but that it also cured the mhole process. Dr. Schuster, at the Congress of German Naturalists, at Berlin, opposed this riew, maintaining that the influence of erysipelas in these cases was anly local. Professar Neumann had an opportunity of observing two cases. One of these was that of a woman with tubercular syphilide, who had three attacks of erysipelas while she mas under Professor Neumann's observation. After the first of these the knobs became quite flattened, and after the third the exanthem completely disappeared. A patient affected with recent induration in the "sulcus coronarins" was attacked with erysipelas, which lasted for fourteen days. The indnration was not influenced by it in any way; bnt the outbreak of the exanthem was delayed, supervening only, eleven weeks from the date of infection. These facts proved that erysipelas, whilst having a certain influence on the course of the syphilis, did not prodnce any alteration in the syphilitic process itself; it did not even make the attack milder. Erysipelas was not the sole instance of this kind; it was known, from inoculating experiments, that inoculations with the syphilitic rirus in persons who were at the same time affected with acute infectious diseases were not attended with snccess, and it was also known that syphilitic exanthems disappeared in persons suffering from such diseases though only for a time. In cases' of small-por, the maculous syphilides, indeed, disappeared, but the ulcerous forms became more sercre, and covered with purulent exudation.

## SAN REMO.

[FROM OUR OWN CORRESPONDENT.]
THe Crown Prince's general health has not been so satisfactory during the past week; he has suffered a good deal from headache, his nights haring been somewhat disturbed. This is probably due to the confinement to the house, which was necessary owing to the weather, and the catarrhal attack which he had, and it is hoped that it is due to no other causc. The reather is now rery fine and mild, and IIis Imperial Ilighness is out daily, driving and walking. The last few days there has been some slight dyspncea, Thich has cansed a good deal of anxicty to those Who havo observed it. There has been no question of his learing San Remo for any other place, and he continnes perfectly satisfied with his surroundings here. Sir Morell Mackenzie left on Friday to see a patient at Barceloua, and returns here on Thesday: every minute of his time is accupicd Whilst here, patients of all nationalities rrith throat affections heing anxious to secure his opinion. The sacial erent of the meek has been an art exhibition. Which is lield annually at San Remo, and enables artists, amateur and otherwise (of whom a great number congregate on this coast) to exhibit their works, the same being sold cither for their own benefit or that of some charitable object. On this occasion the Crown Princess, at the request of Dr. Freeman, gracionsly con-
sented to ho Palronoss of the exhibition, with the understanding that any pronts arising should be devoted to the Homo for Invalid Ladics, which, owing to the bad senson of last year, is much in want of funds. To aid this object, Her Imperial lighness contributed a water-colour sketch, the subject being, the head and bust of a Sim Remeso girl. The Crown lriucess's talent as nn artist is well known, and great interest lans leen excited abont this sketch. In offer of ${ }^{2} 50$ was made for it immediately the exhilution opened, and it is expected it will realise considerably over this sum, P'rince Henry, Count Scekendorff, and many others also contributed sketches, nid a goodly amount will be realised for the institution. The Crown Princess, with the Princesses and suite, arrived at the exlibition at the hour of opening, and were received by the Syndic and Dr. Freoman. She took a great interest in the collection, and expressed herself mucla pleased with it. The ball in nid of the Ophthalmic Institute, given last week, was a great success, the Royal party watching it for the greater part of the evening from a balcony:

## PARIS.

[FROM oCr own conrespondent.]
Carbolic Acid in the Treatment of Carbuncle.-"Chemical Trac-cine."-Ancesthesia and Respiration.-Antipyrin in Epilepsy.Pelletierine as a I'ermifuge.-Adulteration of Wine.-Meeting of the Conseil dHygiene.-Laicisation of the Paris Hospitals. - Case of Trance.-The Pasteur Institute.

At the Académie de Médecine, M. Yernenil lately described the excellent results he had obtuined with earbolic acid spray in cases of boils and carbuncle. He employs a 2 per cent. solution of carbolic acid. The spray producer is placed at a distance of twentyfive to thirty centimetres from the skin. In the case of small or medium-sized tuwours, Collin's small spray-producer may be used, but a large one is more eflicient in the case of tumours of considerable size. The tumour is surroundel with a roll of linen, in order to protect the adjoining region from the irritating action of the acid. The spray is applied three or forr times a day for twenty or thirty minutes at a time. In the intervals the carbuncle is covered with a carbolic acid compress. This method is infallible in arresting the development of small or moderate-sized tumours. Ta the case of large tumours, it often renders surgical interference unnecessury. In every instance it soothes the pain which accompanies the development of boils and carbuncles.
MM. Rour and Chmberland are engaged on a series of researches to determine whether immunity front certain diseases may not he outnined by introdncing soluble substances into the organism, without introducing the actual virus of the disease. The first attempt in this direction was made by Mr. Pasteur in the case of chicken-cholora. The microbe, placed in chicken-broth, developed during a certain time, but then ceased to do so. The medium, however. retnined sufficient organic substances to nourish other kinds of ruiero-organisms. The development of the microbe ceascd, either because it had exhansted certain substances indispensable to its existence, or becanse it had produced substances which arrested its development. 31. Pasteur concluded that broth in which the cholera mierobe had existed, injected into a fowl, would preserve the bird from contracting the disense. The notion that immunity from a disense may be obtrined by inoculations with substanees in which the virus has existed, without the introduction of the virus itself, although mot actually demonstrated in this inytance, was fawourably regarded by many liologists. This artificial attenuation of the wirus in tho case of septicemia of rallbits has heen the object of MM. Roux and Chamberland's researches. \$1.3. Pasteur, Joubert, and Chamberland have called attention to a micro-organism the germ of which is found in the earth, and in the intestines of shecp, cattle, and horses. This active organism was termed the "septic vibrio," hecause it produces a special kind of septicermia in gumea-pics, rablits, and slecep, rupidly followed ly denth. Mst. Kocls unl Giffky described this microbe as the bncillus of malignant udrma. Guinea-pigs inoculated with this microbe presented the following symptoms: the hair stands urect: the animals scream if they are touched, and are attacked with convulsive jerks from time to time. Death occurs within twelve hourd. The necropsy reveala sanguinolent oedema in the subareolar tissur" of the axillze and groins; the muscles al the spmts where the injections have been mada are red; the intestines are red; the lirer is discoloured. The septic vibri) swarm- in the odemntone aren, the musclo
juice, and the peritoneal serosity ; it "emits gases which make the connect ive tissuc in the axillto and groins yield a crackling sound when they are pressed. The microbe develops in veal broth to which an alkaline sulstance has heen added, in serum, and in nutrient gelatine, but the cullivation'must be protected from the air. In these medinns it protures germs which, when subjected to a temperature of $80^{\circ} \mathrm{C}$. $\left(176^{\circ} \mathrm{F}\right.$.), die in ten minutes, and in less thinn five minutes at a temperature of $95^{\circ}$ to $100^{\circ} \mathrm{C}$. (203 $3^{\circ}$ to $212^{\circ}$ F.). By placing the serosity from the eedema or the blood from the heart of a guinea-pig which has died from'septicemia in yeal broth, as ahove describcd, a cultivatlon liberating equal quantities of hydrogen and earbonic acid gas is obtained in twenty-four hours. At tho end of three or four days the gases are no longer erolved; the microbes, though very small, cease to develop; tho zurdinm retains a certain quantity of nutritive substance. The liquid of the cultivation is no longer capable of nourishing the microbe; if, after being passed through n poreelain filter, some fresh septic vibrios are placed in this higuid, it still remains sterile. If a portion of this liquid is added to some fresh hroth, it has the effect of checking the development of the vibrio. This fact proves that the vibrio produces substances in the modium in which it derclops, which act as an antiseptic and arrest its further development. MM. Roux and Chamberland inoculated some guinea-pigs with sterile cultivation liquid, and by this means the animals were preserved from septiceremia. The following experiment was made, amongst others: injections with cultivations of septic vibrio, rendered sterile by exposure to a temperature of $105^{\circ} \mathrm{C} .\left(221^{\circ} \mathrm{F}\right)$, were made in the peritoneum of some guinea-pigs. The doses were gradunlly increased; 10, 20, 40, 60 cubic centimètres were successively employed. Two other guinea-pigs mere inoculated twice in two days mithi 40 cubic centimètres of the same cultivation. Forty-eight hours after the last injection, all the guinea-pigs were subcutaneously inoculated under the skin with diluted septic blood. This last operation was repented on three fresh guinea-pigs, and on the the guinca-pigs which had been twice pure broth. The guinea-pigs which with 40 cubic centimètres of解 Those inoculated with pure broth died Those inoculated with thic sterilc cultirationdid ighteen hours. order: Those to which 20 cubic centimètres were administere died in 19 hours: 30 cubic centimetres killed the animins istered hours: and 60 cubic centimètres kitled them in 144 hours. The guinea-pig which was inoculated with 40 cubic centimètres was ill, but ultimatoly recovered, and was completely protected against septicremia. A small cschar was formed at the spot where the inoculation was made; this disappeared in a few days. The two guinea-pigs which were twice inoculated with 40 cubic centimetres of the cultivation appeared to feel no ill effects; the virus evidently did not develop in this case. These experiments show that every degree of immunity from scptic emin may be obtained without introducing the actual virus into the organism, and demonstrate the influence exercised by the different cultivation media. The serosity removed from the celiematons tissues of a guineapig which has succumbed to scpticemia is a more active medinm than broth in which the septic vibrin hats developed. MM. Roux and Chamberland conclude that, in a given medium, the microbe may protuce certain vaccinal substances which it cannot produce in parcel, and that the conditions under which a cultivation is preparce have an important influence on the sulbstances which are will he found by whicl "chemical ynccine" for will be oltained. The present method of preventive innculation has so far proved inefficient, because the microbe whicly causes a recurrent affiction develops indefinitely in the lody of an animal: it is unable to produce ptomaines (which check its development) Wions thin materials it finds in the organism. In different condilated in the organism, would prevent the development of microbes of its own kind, or reader the organism impervions to their action. It is prohable that these substances would be found in cultivations in which the development of the microlte has ceased rapidly. 31M. Chantrmesse and Widal lately succeetled in remidering some mice refractory to the action of thre typhoid lneillus, by inoculnting a few culic centimotres of a cultivation in which trphoid
bacilli land been destrog active sulhstance of these cultivations can be isolated and preparell active sulstance of these cultivations can be isolated and preparerl
an sullicient quantities, it will serve to inculate human loning
attacked by typhoid fever. M. Metchnikoff has shown how the cells of the living organism resist the microbes which are introduced into the body. The intlucuce of the phagrocytes in conferring immunity from discase is considerable. This influence is only ineffectual when the microbe finds a peculiarly favourable medium for development in the tissues of the body. When these tissues do not offer such favourable conditions (as is the case when inoculations of attenuated virus have been made) the microbe falls a prey to the phagocytes. During the attacks of intermitlent affections, such as recurrent fever, the body acts as a farourable cultivation medium for small spirilla which are found in the blood. During the intervals between the attacks, these spirilla are not observed; they are imprisoned in the cells of the spleen. The substances produced by the parasite during the attacks check their development, and they become a prey to the phagocytes. When the blood has eliminated or destroyed these antiseptic substances, the spirilla reappear. This process would explain the intermittent nature of the disease. MM. Roux and Chamberland believe that the action of the phagocytes is regulated by the chemical changes which occur in the body, and which confer immunity from disease.

At a recent meeting of the Académie des Sciences, M. de Saint Martin communicated the results of his observations on the inHuence of anasthetic slecp on the activity of respiratory combustion. 31. de Saint Martin stated that these results were directly opposed to those obtained by Paul Bert, who, in his Lectures on Respiration, published in 1870, ruaintained that during sleep produced by chloroform, the quantity of oxygen in the blood is increased. M. de Saint Martin, by his recent experiments, showed that during anasthesia the proportion of orygen in the blood diminishes, while the proportion of carbonic acid increases. M. de Saint Martin is evidently not aware that Paul Bert arrived at a similar conclusion in his later researches in 1885, and that he then aflirmed that the oxygen in the arterial blood diminishes progressively while the carbonic acid increases during sleep produced by chloroform. M. de Saint Martin also deseribed the different variations which occur in the quantity of carbonic acid expelled from the lungs during anæsthesia. Paul Bert likewise gave a description of these variations in I885, in which he showed that the quantity of carbonic acid produced diminishes progressively during aursthesia, while the quantity of oxygen absorbed decreases in the same manner. He proved that the proportion of $\mathrm{CO}_{\mathrm{O}}$ gradually diminishes.
M. Geo. Lemoine, Professor aqrégé at the Faculty of Medicine at Lille has studied the effects of antipyrin in epilepss: Ife concludes that antipyrin diminishes the number of epileptic attacks, and even causes them to disappear under the following circum-stances:-(1) When the attacks oceur at the menstrual period, and are apparently provoked by menstruation; (2) when the patients are sulject to neuralgia and migraine. In every other instance $\mathbf{M}$. Geo. Lemoine believes that antipyrin produces merely transient effects.
M. L. Labbe recommends the following as an excellent trniafuge: For adults, 40 or 50 centigrammes of sulphate of pelletierine aro dissolved in ordinary syrup; for children \& years of age and upwards, this quantity is reduced to 25 or 30 centigrammes. This remedy should not be administered to children below the age of 8 . It is well to add 50 centigrammes of powdered tannin to the mixture above prescribed. The evening before taking this remedy the patient should take only a little milk. An enema should be given at bedtime, and early next morning the ruixture is administered. The patient should remain in the horizontal position, in order to avoid vertigo. A quarter of an hour after taking the mixture he should take 30 grammes of German brandy; or an infusion containing 10 to 15 grains of senna. Castor-oil ( 30 grammes) and sulphate of soda hare proved equally efficacious. The tapeworm is usually expelled in three or four hours.
A French publican was lately charged with selling wines composed of the dregs of different white and red wines, filtered throngh felt. The liquid was analysed at the Municipal Laboratory ; it contained per cent. of aleohol, 23 grammes of dry extract, and over I grains of rethcing sugar. The defendant was acquitted.
At a recent meeting of the Conseil dllygiene du Departement de Ia Seine M. Lancereaux reported a fatal case of leprosy which necurred at the Ilopital St. Louis in November.-11. Riche presented a report on the system employed by all the fishmongers at the Ilalles of preserving fish whieli they have not sueceeded in selling in ice chests lined with zine or lead. M. Riche considers
that this plan should be prohibited, on account of the toxic properties which may be communicuted by the lead to stale fish.-- 11 . Leon Collin presented a report on the epidemic of typhoid fever which has recently appeared at the Dupleix barracks and in the neighhouring streets. \$. Collin believes that in the second case the epidemic was indcyendent of its appearance in the barracks, and merely resulted lrom the unhealthy condition of this particular quarter of Paris. He accounts for its appearance in the barracks by the arrival of a regiment of recruits from the provinees, who, by their youth and the fact that they were not acclimatised to l'aris, were specially lialle to contract typhoid fever, from which Paris is never free. M. Collin suggested that the regiment which suffered from the epidemic should be sent away from the harracks. This measure was adopted, and the regiment was sent to Saint Germain. Only two cases of typhoid fever were recorded in fifteen days in this regiment after leaving Paris.

The laicisation of the l'aris hospitals will shortly be completeThe religious staff at the Charite was dismissed a short time ago. The laicisation of the Hôtel Dieu and the Hôpital St. Louis will follow in the course of the year. The laicisation of the hospitals was begun in 1878 , with the IIopital Laënnec. Since that time the Administration of the Assistance Publique has organised a training school for nurses at the 110 pital de la Pitié. The nurses are taken from there to replace the religious nurses, whenever a fresh hospital is laicised. The post of superintendent of a Tard is only confided to those who have obtained a certificate at the examinations, proving them competent to undertake such an office. The contract made between the Administration of the Assistance Publique and the religious orders which have hitherto supplied the hospital nurses gave the option to either side to annul the engagement if it appeared advisable.
A curious ease of trance is reported from Bordeaux. A woman, aged 57, who had been ailing for many years, fell asleep after an attack of the affection from which she was suffering. Several days passed, and the patient still remaincd asleep. She was perfectly still, and her breathing was regular. According to a wish previously expressed by her, she was conveyed to a fillage at some distance from Bordeaux. Shortly after her remoral from that city she expired without any apparent suffering, and without waking from her state of torpor.
The Institut Pasteur is being constructed in the Rue Dutot, at Vaugirard, on a piece of ground measuring 11,030 mètres, purchased by the Conseil Municipal for the purpose. The whole cost. of the building will amount to over $1,500,000$ francs.

## SHEFFIELD.

[FROM OUR OWN CORRESPONDENT.]
The Hater Supply of Sheffield.-Hospital Sunday.-Revac-
Tue Water Committee of the Sheflield Corporation has lost no time in trying the effect of placing limestone in the conduits and elsewhere to mitigate the action of the water on the lead piping. The amount of water stored is small, and does not amount to one-half of the total capacity of the reservoirs. The drought of last year told serinusly on the storage supply. The autumn rains, usually those of October and Norember, are relied upon, under ordinary circumstances, to fill the storage reservours and provide for the coming year. The rainfall during those months last year was, however, abnormally low: the water in the rescrvoirs continued to descend, and it was not until the early part of December that any substantial increase was made in the quautity in stock. No restriction has beeu placed on the water supply since 1870 .
Hospital Sunday collections were taken at the different churches and chapels on lanuary 2ath. It is anticiputed that the amount collected this year will be a little below the sum obtained last year.
Arrangements have been made for the public vaccinators to roraccinate every evening and to attend two days weekly for primary vaccinations. Large numbers are being revaccinated. Dr. Barry, Loeal Goverument Board Inspector, who has visited the town, has been successful in giving an impetus to the revaccination movement. He may be congratulated on the roay in which he has sacceeded in getting the different authorities to work together in taking steps to enceurage revaccination.

## CORRESPONDENCE

## To Combarimbexts.

OrR correpmelents are remimbd that grolivity ty a great bar to publleathon and, with the constant grossure upen every depmertment of the Jounsai, brovily of alyfe abol conclaeness of statement grently furititate evory insertion We nre compelted to return and holit wer a great bumber of communicaton chlefty by rensun of their uanecussary lengith.

## CIIRRHOSIS OH THE: LTVELK.

Smb-The case of cirrhusis of the liver in which the portal blood ran directly into the systumic cireulation, reat at the anman meeting of the Associntion, and deseribed in the Jormsint of February Jth by 1)r. Drummont, is full of interest. In this case the conservative formation of compensatory vessels to relieve the portal system led to the patient's demth by bile-poisoning. I had for many yems heern lerfectly sure of the fuct that the portal blood did take tbe course more recently demonstrated by Sappey, judging from the great enlargenent of the superficial reans of the ablomen scen during life, nul the extreme rascularity of the liguments and tissues around the liver us obscrved after death. Sappey provel that the umbilical rein, or nther veins near it, enlarge suflicinntly to carry off the purtal blood into the epignstric vessels and general circulation. It is rare that the new rein is so large as that in Dr. Drummonul's case, nthough Dr. Goodhart pat np in Guy's Muscum a specimen, where, possibly, the vessel was as large. This now ehmnel of rolief explains why, in many eases of cirrhosis, clropsy loes not occur, or, if lluid has formed, why it sometimes disappears; and nlso why, after its removal by merlicine or by tapling, it may not recur. This subject was not, 1 think, referred lo in tbe díscussion on Dr. Gooding's paper at the Brighton meoting. This gentleman brought torward several cases where ascites had not returned after the removal of the flaid. I have met witls a large number of such instances, and never been able satisfuctorily to explain the cause of the ocenrence. It would appear that, after cirrhosis has advanced a certain stage, some little cxtra disturbance in the secreting organs will letermine a dropsy; but, after these have righted themselves and an equilibriun restored, that the dropsy will depart, although the cirrhosis remains. A better explanation is now fortlocoming in the production of collateral or compensatory circulation. Jeeting constantly witl thesc cases of temporary recorery, it is interesting to note the value pul upon the trestment by the medical man in charge of each patient. One repats to me the case where jaborambi hus cured a uan who had been previously tajped ten times: mhother
vaunts the value of eopaba, which has got rid of the thad, of which there is no return. I wrll-known slojkecener in a suburls of Lomfon mever ceases to praise his meighbome the homoopath, who cured hin of thedropsy after many vother recular practitioners had failemp. But lately, I have hud a pitient die of dropsy which did mol return unti] ihree yoars after jaracentesis; audl had a hospital pationt whon wrat on the same numben of vears. Veither of these jationts, I tam sorry to suy prolited by their narrow escape for they hoth contimued to drink, though in luss ammints than before i ean, therefore, searcely encourage the hope which Dr. Cooding clings to, that a total abstineme may he tho menns of
 that no conchasions can be arrisud at from the observation of ome or two cases, secing that the symploms may for a times subsinje in thase who contimue to livo joitrmpurato lives, or at least ilo not desist from the use of alcohol "ither in the form of wine or spirits. -1 am, etc.,

SAMEEL, WiLlis.
Grosvenor Sitret, loelruary 4th, 1.882.

## 

Sir,-Alhonglone ean but aduime Mr. Ilunler's conrage in under-
 would sedm right that one with expericnee in such cases should offer some criticism nu the anethorl of trentment aldyterl. In the treatment of hyrlroceln it is always laid down that it is tirst urlvisable es give lle pationt tho rare chmmen that tho llain may not recolloct after tapping, arul I think wheh it rule apples with incriased foren in cases of byironcjhrusis, eqpucinlly us thore are well authuntiented casers in whble the duml has not re-collacted nfter simple aspiration. Supposing the cyout to have reflled, it might be then alvisable, after uscurtaining the secreting power of the
other kidnes, to explora the tumour through the loin, and then
drain or perform nephractomy according to the eonditions found ; but to commence with handouluch's incision through the peritoncum apyears to me to be rather heroic treatment, and of a kind which exposes the patient to mumecessury risk, esjucially, as in the case in frint, when the preritonemm is ndberent to the enpanle of the kidncy. The ense, huwever, reald as though it might havo heen successinl lad free drainage throngh the loin been secmred in the lirst instance. Still, ewen lad the ease been conducted to a suecessful issuc, I should have mainbaned that the means employed were unneenssarily sevore.-I nm, ete.,
R. (h.WMENG LCCAN, L.S., V.R.S.S.,

Senior Aswistant Surgeon to Guy's. Ilospital.

## INTJACAPSULAR NNHETION IN TUE WNTRACTION OF CSTARACT.

Sir, - Mr. Swanzy is aggrieved because I (uoted statistics of the Nitional Eye and Ear litimnary for $1875-66$, and he suggests that the results of operations bave been better of late years through certain improvements, and therefore that I shonlr] havo chnsen only "results of to-day" to comprare with my own.

1 now invite Mr. Swanzy to give (1) details of the extraction of cataract, ripe and unripe, in the National Eye and Ear lnlimary, since he had at his service thoso improvements to which ho refers? (2) Jike details of other public institutions. When he has supplied these he will have made his first contribution to reasomable criticism, Of assertions aul questions suggestive of erroncous inference he has not been sparing ; but of material facta he has been parsimonious if not miserly: The "cleansing fire" of fair and reasonable criticism is what $I$ desire.
The improvements Mr. Swanzy indientes are (1) antisepticism, (2) modification in the sectinn, ( $\dot{3}$ ) $\mathrm{H}^{1}$ orster's maturation operation. It is not proved that antisonticism, as carried out by sprays, lotions, lressings, has accomplisland inything for cataraot operations in any hospital in a good sanitary condition, and in which cleanliness has been strictly enforced.

Let us note what has happened in abdominal surgery 2. Intiseptic spray and antiscptic solntions are completely discarded by some of the most successful operators. 2. Recent modifications of the section. I stippose Mr. Swanzy refers to the 3-mm. Inp of M. de Wecker. I see, however, from tho reports of the Moorfields and other large hospitals for last year that fracfe's method was almost exclusively practisel. Sufar from this methoul heing obsolete, it is probably more largely practised than any other; and from long before 1855 till the present time, it has for slatistical purposes helrl its own. 3. Furiters artilicinl maturation. This is very little praetised, aml if Mr. Swanzy have any cousiderable experience of it, it would be well to let us know it.
J have not. desired to limit the shatistical inguiry. The letter which appeared in the Jounsal of September Bral last Jenlt with all the reports 1 then had: and when Mr. Swin\%y's first letter whs publishad, I entenvourerl to ascertain purticulars of the operations for entaract in the United lingedom, I wrote to all the chief hospitals, 1 examinet the suecial medical annl surgical reports of London hospitals, amI 1 only found in addition to what I have already summarised, the reports of Mr . Nettleship for the years $1882,1883,18,4$, and I 685 . In the fout years Mr. Nettleshij) ojperated un 160 senile cataracts; thero were $2 l$ ( 14 per ecent.) escupes al vitreous, 36 cases ( 22 per eent,) in which corbex was not completely removed, -0 cases (I2 jur cent.) severe iritis, 32 cases (19) jur cent.) mikl iritis, 40 eases ( 24 per cent.) of secomlary operation, and 17 cases (I0, per cent.) ulosoluto loss, 1 must gualify the above statistics by stating that When Mr. Nottleship useal D. de Wecker's section, he had fewer escape of vitreous, and that some of the losses in 1585 Were luc to an untownrd and exceptional inlluence independent of the mere wparation. Jo these details of tho operative work of a reliablo and puinstaling surgeon suppurt the statemint that by the ordinary method of friction cort ex can the ensily removed, and that iritis, etc. are very rare nownlays?

The only statistics which are of value for andysis and comjerixon are those which give detnils rogarding (1) the dagree of maturation of the cutaract, (z) aceidents and incilents furing uperation. (3) the course of all unfavournble cases.

IIy methoul, numely, the removal of the cortex by the force and indhiente of a lluid, is amplowod his M. Hanas and J. de Wecker. Ir. Swanzy gave quotatinus from M M. I'anas and de VFecker, nod these I will supplement. H. I'anns salys:-
"Procéder le phus romplètement possible a la toilette du champ pupillaire, couches corticules du crystallin, sang, pigment noir,
bulles d'air, tout doit sortir quelle que soit la peine qu'on sedonne pour atteindre le but."
There may be no germs within the eye to be killed, bit the antiseptic liquid which is to he forced "jusque dans les profondeurs de l'ail" will often enough fiud these "conches corticales," etc., and M. Ianas is very exucting as to the completeness of their removal. H. de liecker proves that 31. l'anas's solution is uscless as a germicide, and he writes:-

Je suis donc absolument partisan des lavages de la chambre antérieure, mais je pense qu'ou doit leur laisser cette désignation et ne pas y substituer le mot de désinfection." This is surely plain enongh.

Mr. Swanzy should have given a more elear account of the essence of 11. de Wecker's practice. There are two preliminary points. 1. In "la pratique usielle," that is, in ordinary operations for ripe cataract, he says: "Le nettoyage on lavage de la chambre antóricure n'est pas ce qui nous jireoccupe le plus." The pupil being clear and black, he injects a few drops of solution of eserine to contract the pupil, but mark well what he says ahout this simple iujcetion primarily used for its myaticeffect: "S aper-çait-on que, pendant l'injection, la pupille s'obscurcit parl apparition de masses corticales rendues opaques par le liquide injecté, on prolonge quelque peu l'injection et l' on reprend la toilette, en répétant cette manœuvre jusquà ce quiune dernière injection laisse une pupille absolument noire et libre d'opacités, même à l'inspection à la lumière ólectrique. A cet effet on peut promener, pendant linjection, la canule er argent dans le sac capsulaire et même sous le bord pupillaire opposé it la section."

Learing aside the evidence afforded of the use of force, we have a striking testimony to the remarkable fact that the cautious introduction of a few drops of eserine solution may, by causing the'appearance of unsuspected cortex, reveal the fact that the operation had been imperfectly performed.
2. In unripe cataracts $\$ 1$. de Wecker is of opinion that the mere washing is.the prime consideration. Ile, writes: Ici l' on peut faire un véritable lavage des masses corticales opacitiées ou non opaques, mais rendues opaques an moment de l'injection. Daus cecas encore je prefère l' injection à deux on trois reprises et reprendre après chaque injection les nettoyages de la toilette, plutôt que de faire un larage par injection violente." But nobody make's violent iujections so far as 1 know. My injections are gentle and more effectual than pressure. I think I have quoted enough to show that both MIM. Pauas and de Wecker use the injection for the same purpose as I do mysclf. M. de Wecker may not go quite so far as I do, but we cannot expect perfect uniformity in riews and practice.
The antiseptic treatment of M. Panas and the myotic treatment of M. de Wecker are simple additions which are to be judged from a totally different staudpoint from that of intraocular injection to remove cortcx. If only an intraocular antisepticism is desirent, or if only a myotic influence is songht, then it is necessary only to inject a drop or two of the antiseptic or myotic liquid, as the case may be, and not to practise the prolonged and repeated washinge, us MSI. l'anas and de Wecker have done.-I am, ete,
Belfast.
Sir, -On January 22ud, 1884, after extracting the nuclens of a senile cataract, I washed the remaining cortex out of the anterion chamber. 1 used a new Tale's syringe as a siphon, with distilled Hater, previously boiled, at a temperature of $97^{\circ} \mathrm{F}$., the temperature of the anterior chamber. I was very careful that the conjunctiva. the instruments, the wnter, the air, and everything which came in contact with the eye was as frec as posiable from germs. The result was encouraging, with $+12 \mathrm{D} . \mathrm{V} .=\mathrm{r}_{\mathrm{g}}$. The eye had been blind fort y-seven gears; therefore 1 ventured on a new proceeding unt cxpecting such success. Since then have frequently hal recourse to this method of removing lens cortex, and generally with fa vourable, sometimes with brilfiant, results.

In one of my early cases, before cocaine came into use, the patient was very restless, and there was some escape of vitreous immediately on the introduction of the water. The eye dic] fairly well, $\mathrm{V} .=\frac{{ }^{5}}{5}$.

In another early case the operation was followed by severe pain, which kept the 1 ntient awake most of the following night 1 expected the eye would be lost, hat the pain gradually subsided, and I was surprised to find the pupil clear. The subsequent progress was good, $V=\frac{6}{8}$. All my other cases have done

Well. I have therefore never had occasion to regret having injected water into the eye; on the other hand, several times when I have left apparently only a little cortex, I have afterwards regretted that I had not washed it out.

My practice is to wash out only when a considrahle quantity of lens matter remains which cannot be removed by simpler means without much risk. In such cases it is pleasing to see how readily and gently the water removes the opacity, and the pupil is left beautifuly black.

In some cases of traumatic cataract, at the proper time, the anterior chamber may be irrigated, the softenel lens matter removed, and the eye saved, when no other method would have been successful.

In cases of umipe cataract I believe with Dr. Mcheown that intra-ocular injection will give "results such as lave never been otherwise obtained;" but I am sure that "a preliminary iridectomy, combined with Füster's artificial maturation," and after a few weeks extraction under antigermic precautions and washing out of cortex, will give still better results.

For three years 1 used the siphon as mentioned; during the last year I have used Dr. Mckeown's syringe, but 1 do not like it because (1) it cannot be used with that delicacy which is desirable when the nozzle is within the eye; ( $\underset{(2)}{ }$ ) the force is uncertain; (3) the aclion is not sufficiently continuous for some cases.

To my mind the main objection to its more ready adoption is the length of time which is required to have everything exact, and free from germ contamination. The success of cataract extractions depends rery mucb upon the absolute purity of everything which comes in contact with the eye.

I am at a loss to understand the hostile-shall I say unscien-. tific-attitude which has been taken by many eminent specialists with regard to this simple procedure. I suppose it is to be expected that some will commend it anduly, and that others will condemn it unjustly, but whatever may be said I am conrinced from experience that it will make its way and will hold its place as a useful addition to our resonrces in the extraction of cataract.

In conclusiou, allow me to state that I think the profession is under great obligations to Dr. Mckeown for his distinguished services to ophthalmology, and that, in my opinion, they have not yet been sufficiently acknowledged.-I am, etc., J. II. Bell.

## Bradford, Jauuary 30th.

Sir,-It affords me gratification to see that you have deemed the above subject of snfficient importance to devote an editorial note and also a leading article to its discussion.

In the note referred to, yon allude to my paper published in January, 1887, and contend that "the experience givell is as meagre as that of the hostile eritics." If you will do me the kindness to refer again to my paper, you will see that the desire that actuated me in reading it before the Ophthalmic Section at Drighton was simply to invite other ophthalmic surgeons to make experiments of McKeown's process; and 1 also took the opportunity to recommend that the water should bo introduced by means of an irrigating apparatus rather than by a syringe; the length of time during which 1 had employed it was obviously ton short to afford opportunity for a large mumer of cases to be operated on.
Lest my exprerience should again be analogous to that of the "hostile critice" some little time may have to elapse before I fulfil your anticipations, to furnish my "further experiences;" it may, however, happen that, by the time the Glasgow meeting is held, 1 shall be prepared with a table so strong, numerically, that even your apparently prejudiced contributor will not veuture to stigmatise it as meagre.

Meantime I need only add that I coutinue ta adopt the practice with increasing appreciation of its value, as 1 see more of the beneficial effects it is capable of conferring on those patients in whose cases it is necessary to employ it.- 1 am, etc.
73, Rodney Street, Liverpool. Charies G. Lfit,
*** Our application of the epithpt "meagre" in Mr. Jee's statistics in the foot-note to Dr. Mekeown's letter on p. 150 mas intended solely as an answer to the insination that we had suppressed importunt evidence. We fuite admit that $11 r$. leee's paper was as full as was possible or desirable at the time it mas read, and shall be very glad to hicar his further experience.

FOLRW OYARIOTOMIES.
Sthe- My old friend and teacher Mr. T. W. Num lans called my attention to an error in the nddress you published in the Journal of Jamary enth, where it is stated that the first' ovariotomy nt Middesex lospitnl was performed by Mr. Mitchell Henry: The operation had twied previously been perforned thre by Mr. Xunn, the first leing on Juty आoh, 1860; und in referring to it in a proper read hefore the Middlesix Hospital Medical Society Mr. Nimn expresses his helief that in one of these cases also death took place from hemorrhage from the omentum. This only serves to show that such an occurrence may have lieen more frequent than my statement would infer in the hands of the lest operators of that day. -1 am, etc..,
W. D. Sinston.

Hanley, January 31st, 1888.

## APIOINTMFNT TO HAYWARDS IEATH ASYLUM.

Sur,-It is perlons of little service to complain of things which cannot be altered, yet, though the past may be irrevocable, the future is in some way in our hands, so 1 write. The valuable appointment as Superintentent of the Sussex County Asylum became vacant by the risignation of Dr. J. W. D. Williams. The advertisensent appeared in due course, and the requirements were at once seen to be higher thau is in any way usual in a connty naylum. This urade the candidates question whether these were not specially arranged to suit some one man. Candidates who were eligible sent in their applications, and though the reguirements had greatly rcluced the number of good and suitable men, yet some rery representative men who had gone through the apprenticeship of county asylums contended, but the result was that a geutleman with absolutely no practical training by residence in asylums was selected. Because a man liappens to be a friend of the representatives of the Court of Chancery it seems shameful that his deficiencies should be overlooked, and men who have wronght for the good of the speciality should be passed over. I should hare thought that it would have been in better taste if the representatives of the law refrained from giving testimonials and using influence in such cases. No one has a word to say against the successful candidate as a man, but he is simply unknown iu lunacy.

I trust this miscarringe of justice may not disgust rising men and prevent them from continaing to work for this honourable but badly-used specinlity.- ! am, cte.,

## NaVAL aND MILITARY MEDICAL SERVICES.

TILE ARMY MEDICAL SCHOOL AT NETLEY.
Tue distribution of prizes to the successful students in the Indian Medical Scrvice, at the close of the fifty-fifth session of the Army Medical School, took place at noon on Firiday, February 3rd, in the lecture hall of the Royal Victoria Mospital nt Netley: Mr. George Pollock, Consulting Surgeon to St. George's Mospital, London, and examiner in surgery for Her Majesty's Army, Nayy, and East India Medical Services, presented the prizes.

The following is the list of surgeons on probation in IIer Majesty's Indian Medicnl Survice, who were successful at both the London and Netley examinations. The brize's are awrarded for marks gained in the: specinl subjects tanght at the Army Nedical School. The fimal positions of these gentlemen are determined by the marks gainel in London added to those gained at Netley, and the combined numbers are accordingly shown in the list which follows:

1. A. FE. Robrerta
2. 1, M, Mavisaon
3. F. 1. Maynard...
4. J.C. Lamont
5. A. 11. Nott
6. J. IIolt
7. A. Coleman
*. W. W. Whlte
8. 1). T. Latae
1., K. C. Macwatt
9. W. II. F. Woodwright
10. T. 11. Grifith .


| 13. J. I. T. Jones ... <br> 14. W. A. Hischaman |
| :---: |
| 15. J. K. Close |
| 16. J. M. Мitenama |
| 17. W. Ki. Jwaningm |
| 18. 11. M. Ilpahazom |
| 19. W. II. M. Inglam |
| 20. J'. J. Dewes |
| 21. J. (). Inito |
| 22. I'. C. II. Stricklamd |
| 23. T. W. Stewart. | 8,110

5.030
4.995
4.915
4.900
4,885
4.860
4.8 .45
4.805
4.790
4.575
wrinented bo Suremon- Mernorial Gold Nexal and the l'rize in Clinical Medicine : Gained the Ifertert I'rize of 820 , the IInutefione Medal and prize of :4 guiness, wish the Parkes Memorial Irruze Meisl.
Giained the Mnntetione Sicconl I'rize.
© Gained the Prize lu Iathology presented by Sir Thomas Crawford, K.C.B.

At the close of the distribution, Mr. lolinek delivered an address, taking for his test the imperation nectssity for coutimous researels and labour in the nedical profession, and the almost unlimited opportunities for nsefn! medical and sanitary work offered in the vast territories of India, where the surgeons on promation were destincd to yass a great portion of their future professional careers. The only surgeons on probation who had passed chrough the courses of instruction during the session were candidates for connmissions in the Indian Medical survice. At the close of Mr. I'ollock's address, Sir Joseph Fayrer, ajeaking from his Indian experience, made some encouraging remarks to the young surgeons, saying that in spite of certain changes he regarded the Indian as still, without exception, the finest medical service in the world; and Sir Thomas Crawford, in conveying thanks to M1r. Pollock for his attendance at Netley, as well as for his admirable address, mentioned the gratification he had derived from the very favourable reports which had renehed him not only as to the conduct and diligence of the surgeons on probation, but also regarding the manner in which the class of surgeons who had been at Netley during the session had taken advantage of the opportunities of study presented to them.

## THE PARLES MEMORIAL PRIZE.

It may be useful to remind our naval and military readers that the triennial P'arkes Memorin! Prize of $£ 100$ in money and a gold medal, value fifteen guincas, is to be awarded at the close of the present year. The competition for the prize is open to all medical officers of the Army, Nary, and lndian Services of executive rank. The subject, as previously announced, is the "Etiology and Prevention of Yellow Fever, to be illustrated, as far as practicahle, from the personal experience of the writer " and the essays, each bearing a motto and nccompanied by a sealed envelope with the same motto and containing the name of the competitor, are to be sent to the Secretary of the Parkes Memorial Fund, Royal. Victoria IIospital, Netley, on or before December 31st, 1888.

## TIE NAVY.

The following appoint ments have been maio at the Admiralty :-R. 1I. Nicholson, Sorgeoa, to the Plymooth Division, Royal Marines; G. F. Wales, Surgeon, to the Cambridge: G. D. T. Roper, Surgeon, to the stork: F.. J. Bukss, Surgeon, to the Jackal; E. II. SAUNDEEs, Staff-Surgcon, to the Jorpoise.

THE MEDICAL STAFF.
Suraens-Gemeral Jamfa Moust, V.C., C.B., half-pay, las been appointed Ilouorary Sorgeon to the Queen, vice Deputy Juspectorifeneral 1\%. Iradiond, deceased. Sorgeon-Gencral Mooat's career io the arroy has been long and distiagoished. Fintering as Assistant-Sorgeon in 1838 , he passed through the intermediate ranks tilf. in 1864, he became Surgem-Clencrah, and retired on halspaign of $1854-55$ with the bth Dragoons, and on the Medical Staff, and was in janedical charge of the Gencral Fiefl Ilospital of the 3rd Divisiot thronghout inedical charge of the Gencral Field Sospital of and sulsequently as Principal Medical Oflicer of Balaklava until the final evacuation of the Crimea, Jume 12h1. 1856. having heen present at the hathles of Balaklava, Inkerman, and Teheruay, a ad the night reconnaissance and athack on lussian ontposts February 190 . 1855 (C.IB., Victoria Cross, medal with three clasps, Finight of the Legion of Ilonour, and Turkish medal) ; he was awarded the Victoria Cross "for having volontarily proceeded to the assistance of lieut enant-Colonel Moris, Inth Lancers. whowaslying dangerousty wounded in an exposed sit unt ion aft er he ret reat of the Light Cavalry at the battle of Balaklava on October 26th, 1851, and having dressed that officer's wounds in the fresence of the enems. Thas, by stapping a serious hamorrhage, he assisted in saving that officer's life." Served during the Jew Zealand war of $1860-61$ throughout the operatious under General l'rat thwice mentioned in despatehes "for valuable services rembered at all times and in all positions"). Present in the hield as Principal Mellical Officer throughout tho operatious in Waikatoo, Taranaki, and Fanrangid dist ricts in 1803 -ho noder Sir 11. Cameron, and repeatedly mentioned in despatelies (medal). Recrived the thanks of the New Zealand Government for "sperial and valoable services rendered to the Colony." Ile is in recelpt of a rewirl for distingulahes service.
Surgeon-Najor I. LAVERS, of the 3rd Mattalion 1 rish Furiliers (late the Armagh Militia), has resigned hits commisslort, which was dated Mry 22 ml . 1873: he is permitted to retain his rauk and uniform.
Surgeon-Major W. I' Brimbes, herving in the Iominy command, is tramgferred from the medical charge of the station llospital. Decsa, to the nedical charge of thes Station IIospital. Purandhar.
charge of the Hentousken serving fin the Hombay commant, is placed on general daty. I'residoncy dlst riet.
daty. Jresidoncy distriet. Sorgcon-Najor J. JPEsozat, serving in the Bombay comnand, is trangferred from the medioal charge, Station IIospital, J arandhar, to gencral duts. Poona division.
Surgeonl 1k. H. IAil. M.D.. servigg in 1 ho Bombay command. Is granted leave to Eoplami, on private rffalra, whth the necessary suhsidiary leave.
Surgeon- MajorJ. F. V. Foser, M.N., has beed Lrouglit on the sirength of the British forces in the Borobay command.

THP 1 NDIAN MEDICAL SELRYICE.
Baigane-Surabor G. C. Ciresmare. Bencal Establishment, offichating examiner of medical and fund accounts, Dengal, is confirmed in that, appontment, vice Brigade-Surgeon C. S. Sutheriand, 11.D., who has vacated the itpointruent.

The services of Surgeon-Major G. Bomrorn, M.D., Bengal Establishment, officiating Professor of Physiology, Calcutta Medical College, now on leave, are teruporarily placed at the clisposil of the Government of India in the Home Department.
Department. Pemberton, Madras Establishment, Civil Surgeon, Guntoor, and now Actiog Civil Surgeon, Chittoor, is appointed to act as Civil Surgeon at now Aetiog during the absence of Surgeon D. Eleum on other duty.
Berhampore, during the absence Marge Fstablishment, is appointed to act as Surgeon-Major G. F. Brrax, Madras Mstablishment, is appointed to ares is Secretary and Statistical Oftict to the Surgeon-General M. E. Johnston.
Mairas, during the absence on leave of Surgeen-hajor W. E. Johnston.
Surgeon W. G. M Fror, Madras Establishment, floing duty in the Fastern dist riet, is directed to do duty at Bellary

Surgeon-Major S. O'B. Banks, Lombay Establishment, is appointed to act as Professor of Surgery and Clinical Surgeon in the Grant Medical College, during the absence of Surgeon-Major W. Gray, M.B.
Surgeon-Najor J. Licas. Bombay Eatablishment, haring returned from leave, is placed on general duty in the Presideney district.
 the Bhopal Battalion, is allowed furlongh to Enrope for eighteen montha, on private affairs.

The undermentioned gentlemen, all of the Bengal Establishment, hare leave af absence on private affairs for the periohs suecified:-Brigade-Surgeon E. O. Tandy, sth Native Caralry, for 315 days; Surgeon-Major C. Cameros, for one Fear: Surgeod-Major G. I!. Daphtary, M.D. for two years; Surgeon-Major H.
 for one year and 212 days; Surgeon-Major W. M. Courtney, esth Native la fantry, for one year ; Surgeon-Major F. A. SmyTH, 2nd Battalion, 3rd Goorkhas, for onc year ; Surgeon A. Dưcar, M.D., I4th Native Infantry, for one year.

## THE VOLUNTEERS.

Ma. R. B. Wbigetson, M.D., is appolnted Acting-Surgeon to the lst Voluntcer (Norfolk) Brigade Eastern Division Royal Artillery (late the Ist Norfolk Altillery).
Acting-Surgeons J. F. Mrrison, M.B., and H. Martis, M.B., of the Ist Dumbartion lkifles, have resigned their appointments; that of the former was dated March 10th, 1883; that of the latter March 25th, 1885.
Surgeon P. Yousg. of the 3rd Volunteer Battalion Roval Highlanders (formerly tbe 3rd Forfar), has also resigned his commission, which bore date June $23 \mathrm{rd}, 1882$.

We thank a "Surgeon," Medical Staff, for his communication on the dnties and pay of army medical officers, the substance of which we hope to be able to place before our readers on an early date

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## "ANOTLIER MEAN FRIEND."

F. H. D. writes : F. II. D. and C. B. H. S. are surgeons in the same town, who bave always been upon the most friendly terms until about six months ago. Five years ago F. If. D. hall a very good offer made to him of practice in another town, which he then dechned. Witbin the last fers months this offer bas been repeatel, and F. II. D. had nearly made $11 p$ his minid to accept it, because of the had state of trade, sbutting up of ironworks, etc., in his own district. F. H. D. offered his practice to S. In the meantime, C. B. H, s: hal beard that F. II. D, had an idea of leaving, and wrote to S. informing him that "all F. H. D.'s patients had been his (F. H. D.'s) father's, who, ont of respect for his father, stuck to F. H. D. but that if the practice changed hands, the patients would ge to him " (C. B. H. S.). This seems to be a delikerate attempt to spoil any sale bet ween F. H. D. and S. F. H. D.'s father has been dead eighteen years, and F. H. D. has been in practice twelve years, and very many of his patients have been C. B. H. S.s, and have called in F. M. D. for reasons of their own. C. B. H. S. next writes to the secretaries of F. H. D.'s cluls before he bas resigned or intimated in any way to the members that he is leaving, informing them that F. II. D. is leaving for practice in anotber town, and risking to be apminted surgeon in F. IF. D).'s place.
*** Regrettable as is such an incident, the question intolred has especial relationgto the general moral obltgation of man to do nuto ot hers as he would be done by, rather than to medical ethics proper; and, therefore, however morally indefensible "C. B. H. S.'s" alleged conduct may be held to be, we are not in a position to express other than regretful surprise that our correspondent should have experienced such unfriendly treat ment from an assumed friend of so many years' standing. Possjbly, however. Jour remarks on the case may lead to reflection, and at the same time pronwote a bealfhy reaction in the mind of the practitioner alluded to.

## CERTIFICATION OF STILLBORN CHILDREN

1.H.C.I. FTC. writes: A woman takes to a medical man the body of a clitd, ind asks him to certify that it was stilhorn. Can he legally do so witheut having seen the mother, and without making a post-mortern examination of the hody?
** By the Registration of Births and Deaths Aet, 1811 (35 and 39 Vic. c. 83, 18), it is enacted tbat the body of a stillborn child shall not be buried nnlons at the time of burial there is produced (a) "a written certificate that such child was not born alive, sigued by a regintered medical practitioner who was in attendance at the birth, or has examined the body of such chill:" or (b) a declaration that no registered medical practitioner was presont at the lurth, or that his certifieate cannot ;be oldainea, and that the child was not lora alive. This declaration is to be made not by a mediral practitioner, but by a person who would by law bave to give information concerning the birth. By Section 40 it is made an offence, punishable in certaiu cases with penal scrvitude, "wilfully to make any false certificate or declaration" under the Act. Our correspondent will therefore seo th:at to sive a certificate under
the circumstances stated would be clearly contrary to "law; and might entail very serions consequences.
M.D. Yeovil.-Inasmuch as we bave, after a careful and unbinssed but wearisome consideration of the lengthy correspondence ratating to the dispute in questlou, twice expressed onr deliberate opinion on the points snbmitted for our judication ; and believiog, moreover, that no practical good, peraonal or otherwise. can accrue from ite further discnssion, we camot, in justice to otber correspondents, and the ever increasing demand on our limited space, accede to "JI.D.'s" request for a further exposition of our views apon the later statement. We are constrained, therefore, to close the discnsslon in sofar as relates to the Jourval.

## AGREEMENTS WITH ASSISTANTS.

Mr. Percifal Turver (Adelphi) writes: With regard to the discussion going on as regards "the nsual bond," permit me to remark that this term as was applied does in fact mean an agreement somewhat similar to that indicated by rour correspondent "A. W. B.," and not what used to be understcod as a boni, a formidable looking docnment, namiag a heary penaltr, but practically a nuch less serviceable document than the "usual agreement" now in vogue. which is equally applicable and binding on qualified or mnqualified assistants, and effects the principal object with less chances of dispute and difficulty than ant boud can do, and which, as rou remark. if properly drant and inpressed with a sixpenny stamp, will hold good in any court.

CANVASSING FOR PATIENTS.
Correspondert has forwarded the following advertisement, cut from a Leeds paper:
${ }^{\text {© Lafae Bonus.-Wanted, inflgential Persons to obtain Clubs, Friendly }}$ Societies, etc., for medical attendance by a Doctor: also to Canvass.
*** A "doctor" wbo seeks to acqnire practice by such exceptional and professionally reprehensible means as those indicated in the above advertisement must, we apprehend, have mistaken his true vocation. Such practitinners are untrue to themselves and alike insensible to the honour and dignity of the profession, and of their relative duty to it. In reality they are a law nnto themselves, and pursue their own course, regardless of the rules (leges scripla et non seripte), by which the profession of medicine has been ethically geverned from time immemorial.

## CHARGING FOR MEDICINE.

A Subscriber, asks whether a general practitioner bolding the M.R.C.S.Eog and L.R.C.P.Edin. has a right to cbarge for menticines supplied to bis patients.
*** Although Section 6 of the Medical Act, 188b, is not so clear as Section 31 of the Medical Act. 1858; it is, we think, quite clear that "A Subscriber's" qualifications entitle him to charge for medicines supplied to his patients in addition to his fees, and that his charges are made out in the proper way.

## SIGNATURE OF LUNICI CERTIFICITES BY PARTNERS.

M.D. (Scotland) writes: A. and B. are in partaership. A.grants a certificate of insanity in the case of $C$. Does the faet of a partnership existing between $A$. and B. disqualify B. from fiving the secnnd certificate requisite for C.'s admission to an asylum? I alwars understoad it did ; butt I can find nothing in the Lunacy. Act under Section "Disqualifications," which confirms my belief.
${ }^{*}{ }_{k}{ }^{*}$ In Fngland and Wales medical men in partnership cannot sign the certificates of insanity under which a patient shall he sent to an asylum, for the same patient on the same occasion. 16 and 17 Vict., eap. 96, Sec. 4.

## QUACKS AND PRACTITIONERS

M.D. writes : I should like the opinion of the medical profession on the following case, as it appears to me to be very contrary to etiquette, and extraordinary.

A is asked to call to see B. B. states that she is taking medicine ("cancercura"), amongst others, from a quack In London, and that he will not, or does not care to, send more medicine unless she is nuter the supervision of a mediral man in the place whon she wished to correspond with the quack, and still to treat her with the quack remedies. A. refuses to attend under sinch conditions, considering them unprofessienal. B. then calls in C., an M.D. prac tising in the place; he attends, takes up the case, corresponds with the professor or quack, and gives or allows the patient B. the quack remenlies, and therefore is really acting as the quack's assistant, and, if anything goes wrong, of course would lie convenient to siga a death certificate, and, therefore, avoid an inquest. If qualified medical men are allowed to do these things, ope cannot wonder that quacks get on; and surely such men cannut br net in consnltation or treated as brother practitioners.
** The comse described is so unnsual as to be alnost incredible, and certainly contrary to all professional rule. It seems possible, however, that there may be some errors in the facts of the case as sfated. We only hope $t$ hat this may lee so.

FEES TO WITNFSSES.
F. W, D. McC. D. ask what fees he is entitled to in the following cace: He has recelieif o subpena to appear as witness in an action lrought hy a patient whom le attellited against a milway company, lle in diat rict surgeon to the company, and has received a :ulymina from the plaintiff
** According to the anthorised scale, the allownnce to professional men for attondance as witnesses in a common law action is fl 1 ls . per diem, if resident in the town in which the action is tried; and f2 2. . to 83.3 s . per diem. inchisive of all except travelling expenses, if resident at a distance from tho place of trial. If the action is in the munty court the scale is lower.

LAABILJTY FOR SCHOOL FRNFS IS CASFS OF INFECTIOUS HSIS.LSK.

 thelr conimumbating an infertons diverve in others?

- "luless there ls an express cunmet an tlie point. line ordinsry contmet for schooling is for a term's notice or a term"smy": tho naster could, thorefore. claim raynaent for the term, although the elitil last. fart of the term themugta tilness. In nne case, In 1477. Mr. Jistice Demman hedal that, whete fhe master seat a boy home on meaunt of illnoss, aud ho was ton mineth to return the next term, payment could not be enforced; but the circumatances thero were exceptlonal. As a sule, the llluess of the child is no reason for depriving the ectmolmaster $n$ ( his fees.


## ACIIONS TO RESTIAIN K゙IS.INCCES

R. C. aska wiare lue man obtain afull report of the rase of Wallascy Local Ifones e. Grace"y, nader the l'ublic Health ded. reportedip thedovasision November 2ith. p. 1120.

- The case, bswing berutried at Nisi l’rius, does not appear in any of the regular mparts. The only way to getat the facts would le to apply to the solleltor of one of the parties, who could say whether a shorthand note was taken. Aclions to resirain maisances should not be undertaken without good legal advice.


## MEDIC.IL MBN AS TR.ADERS

Nemo writes : J have noticel hy the reports of eases at County Conrts, ete. in foire paper that a melical man who supplies medicines and charges for them to hls patlents is a "iraler." May I ask in what position a man is who arranpew willa chemlst to supply ihem hy making up his prescriptions and charging the patient and giving the doctor a commission on amount pail, or if the tlextor, making asp his lwok from the chemist, charges for medicines hlmself? Inth of thece things are done lig men who would be very indignant. at being termed " tratens." Arothey not so really?

* Under the circumsinnees stated, the medical man would certainly be Interested in trale, and might fairly be termed a trader, just like any other partner in a trading lusiness.


## PUBLIC HEALTH

AND

## POOR-LAW MEDICAL SERVICES.

## TIIE REGISTRAR-GENERAL'S QUARTERLY RETURN.

Tue Registrar-General has just issued his quarterly return relating to the hirths an! deaths registered in Enghand and Wales during the fourth or autumen quarter of last year, and to the marriages in the three months ending September last. The marriagerate, although it showed a slight recovery from the exceptionally low rate in the third quarter of lewf, was eonaiderahly below the mean rate in the corresponding quarters of the ten years 1877-56. The birth-rate and the death-rate were also helow their respective arernges. The meat temprature of the air during the quarter was considerably below thenverage, but the weather was, on the whole, favourable to the public health.

The births registered in lengland and Wales during the three months ending Docember last wore 217.744 , equal to an aumual rate of 30.6 per $1.0 \times \mathrm{H}$ of the population, estimated ly the RegistrarGeneral to lo alont twenty-cight and a quartor millinns of persons. This birth-rate showed is further dreline from the rates recorded in the eorresponding quarters of recent years ; it was as much as 2.4 per $1 . \mathrm{mon}$ helow the mean rate in the fourth quarters of the ten years 1877-86, and was actually lower than that recorded in the last quarter of any year since 1819, whm the registration of hirths was admittedly lefeetive. The hirth-rate in the quarter umber motice in the several comnties rangen from 26.1 in Shropshirn and 29.2 in Sussex, to 33.2 in Northumberland, 35.4 in Monmouthahire, and 3i, 6 in Fissex. In the twenty-right large towns for which the lingistrar-General publishes weekly returns, the hirtherate last quarter averaged 36 per 1,000 , ranging from $5-5$ in Brighton and 20.2 in limalford, to 34.0 in P'ortsmontli. 40.2 in Snweastle-11pn-Tyne, and 40.5 in Curdiff. The lirths registered in lingland and Wales durime the quarter under notice exceedell the duat hs hy 8.3 .35 T ; this renresents the nat ural increase of the pmpulation during that period. From the linard of Trade returns it appears that $\overline{7} 1, \frac{\sigma}{6} 3 \mathrm{n}$ nigrants sailed from tho various pints at the United Kingrlom at which emigration offerrsare stationed: of these, 34,030 were English, G.661 Scoteh, and $9,0 \times 6$ lrish. The proprrion of British emigrants to a millino of the raspective pppulations of the three divigions of the Unitefl Kingdom were 1,276 from E'ngland, 1,G76 from Scothand, and 1,913 from Ir lancl.

During the last quarter of 1887 the deaths of 133,792 persons
were registered in Eingland and Wules, egual to an anmal rate of 18.8 per 1,000 of the estimated population. This death-rate, although it slighty excended the very low rates recorded in the last quarter toth of 1885 and 1886, was 1.0 per 1.000 bedow the mean rate in the fourth quarters of the ten yreceding years, 18.7-86. Among the wrhan population of the country, cstiosuted at about eighteen millions of persons, the rate of mortality during the quarter under notice was equal to 19.8 per 1, Mon; in the remaning or chifly rural population of little more than ten millions the rate dith not exceed 16.0 per 1,000 . These urhan und rural rates were both helor their respective arerages for the six preceding corrosponding quarters. The rate of mortality among infants under one year of age, and of persons aged between one and sixty years, was below the average; whiln the death-rate of persons aged upwards of sixty years exceeded the average of the ten precediug corresponding quarters.
The $133,79_{2}^{2}$ deathe registered in England and Wales churing the three months ending December last included 3,104 which were referred to measles, 2,021 to searlet fever. $\because, 464$ to whooping-congh, 1,914 to diarrheea, 1,835 to "fever" (including typhus. typhoid, and simple fever), 1,563 to diphtheria, and 30 is to stall-pox ; in all, 14.159 deaths resulted from these principal zymotic diseases, equal to an annual rate of 1.99 per 1,000 , the average annual rate in the ten preceding corresponding quarters baring heen 2.44 per 1,000. The mortality from measles, diphtheria, and small-pox showed a slight excess; while that from eacla of the other zymotic diseases was below the average. The deaths referred to smallpox, which had been 30, 47, and 70 in the first three quarters of last year, increased to 358 cluring the quarter under notice, of which no fewer than 230 occurred in Sheffield, 50 in other parts of Yorkshire, 35 in or around Bristol, and only 43 in the remainder of England and Wales. In London only 3 fatal cases of small-pox were recorled during the quarter.
The rate of infant mortality, or the proportion of deaths under one rear of age to registered births, was last quarter 136 per i,000, and was slightly helow the suerage proportion in the ten preceling corresponding quarters. While the rate of infant mortality in london during the last thre months of 1887 did not excend 145 per 1,000, it averaged 162 in the twenty-seven provineial towns, among which it fanged from 111 in Brighton and 123 in Norwich, to 198 in Oldham, 217 in Lolton, and 233 in Blackburn.

SANITARY REGASTRATION OF BULLDINGS.
A conference conconed ly the Sanitary Assuramee Asseciation was held on Saturilay. February 4th, at the sneiety of Arts, Adelphi, for the purpose of considering the proposed Sanitary liegictmation of Buildings bill. Sir Josiph tayrer, whon presided, said he knew ly sad experince what an immense amount of dismase and impaired health was entailed on the popmations of great cities by insanitary dwelliog houses, nu! they also knew that those evils heing preventable, it was their duty to do all they could to prevent them. It was their wish that all public lnildings and dwelling lonses should be registerel hy law, the registration to be optional in the case of private dwellings and compulsory in that of pmilic buildinge, such a coursa to be taken after they had lieen examined and certified as being in a satlsfactory sanitary condition, and this was what the Sanitary Registration of lhildings Bill proposed to do in the interests of the puhlic.

Mr. Mark M. Iurlge read a paper explaining the provisions of the bill, aml moved a resolution approving thim. It was further resolved that all dwelling houses rrected after January, 1800, should come under the compulsory clanse of the Binh.

TILE PRFSIDENT OF TIFE TOC,U GOFFRNMENT BOARD, AND THE VMUUE OF VACCLNATIOS AT SHEFliElal.
Ar. C. 't. Rircmm, the Preaident of the focal Goremment loard, in atdressing a politieal menting at Sheffield, on Jannary 30th, tonk the opportunity of, in the first place, making public the lessons as to the value of vaccimation to lo learnt from the epidemic of small-nox at present aflieting that torm. "Overwhelming evidenee," he said. "had tren given during the course of the ppidemic of the earmous value and protection of vaccimation. It was estimated from elear evidence that the number of unvaceimated children under 10 years of ages in Sheftield is about 5,000 and the number of raceinated atmint 95,001 . Out of the 95,000 chill?ren who have heen raccinated, there have heen 189 attacks and two deaths. Out of the 5,000 unvaceinated children, there
have bern 172 attacks and 70 deaths. This is the position of affairs. If we mere to assume for a moment that all the children of Sheifield under 10 were vaccinated. Son'would have had 200 attacks, and two and a fioction deaths. But if all the children of Sheffeld, under 10, had heen unvaccinated, you would hare had 3,277 attacks, and 1,330 deaths, nr just exactly 600 times greater mortality. Now, gentlemen, it is almost an established fact that, after the age of 10, raccination loses a great deal of its effect, so that the moral of this visitation is, as far as I can see, that all those above 10 shonld get revaccinated, and by that means there is little doubt that in a limited space of time Sheffield will be free of the diseasc. It gires almost entire and absohate protection to those who are revaceinated, and as an illustration 1 may tell you that during the whole time, that the JIampstead Small-pox Iospital Tas ppen, only one person out of the numerous employes engaged at that hospital took small-pox, and he was the under gardener, who by some mistake had escaped revaccination, and I am informed by the medical inspector of the Local Government board who las heen down here, that out of more than 290 men and boys employed in the Sheffield Post Office, not a single case of attack has occurred. Well now. gentlemen. I think after such evidence it is impossible for eren the most rabid antivaceinationist to gainsay tho beneficial results following from revaccination."

## RECORDS OF VACCINATION JN THF IOSPITALS OF TEE METROI'OLITAN ASYLUMS BOARD.

On the suggestion of the Loeal Government Board the Metropolitan Asylums board have recently adopted a new form of "bed card" for the small-pox patients in their hospitals. in whiel fuller information thau has litherto been given will be required to he recorded. The general claracter of the disease and the position of the eruption are to be stated amongst other particulars; but the most important alteration is that whiel relates to vaecination. llitherto the effieieney or otherwise of the previous raccination of the paticnt, as shown in the character of the cicatrices, has not as a rule heen recorted, and patients have simply been classified under the general lieadings of "vaccinated." "unvaccinated," "doubtful." In future the " bed card" is to show ; (1) the statement of the patient or his friends as to primary vaccinatiou, ( 2 ) the number of raccination cicatrices, (3) their collective area, ( $t$ ) the fraction of cicatricial area that can be described as foreaterl ; (5) the number of cicatrices noted as (a) depressed, (b) not depressed. (c) puckered, (d) glazed, (e) not defined in margin. It is also to state the date in case of revaccination, and the character of the cieatrices. Where a child is presented for admission by a person who cau give no account of the primary vaceination, means are to be talien to obtain the needed evidence from the nearest relative. In calculating the collective area of the cicatrices it is suggested that the diametpr of each shonld be measurfd and the area calenlated in hundredth parts of a superficial inch. Eventually these " bed cards" mily" be bound together, and form a convenient "case book." Careful recorl of the vaccination of officers and of visitors is also to be kept.

Obvionsly it is important, in view of the existenee of much inmperfect vaecination anmonset uc. that efficient and inefficient mecination should he separated wherever possible. In 1876, the late Mr. Marson, surgeon of the London Small-pox Hospital, preparerl a table, summarising his observations during twenty-five years in nearly f.0mo eases of post-vaceinal small-pox, and showing the different degreas in which persons vaccinated in different ways had been safe acrainst doath hy 'small-pox. He showerl that amongst those stated to hase been racemated, lut having no cieatrix, $2 l^{3}$ per cent. died; of those laving one cicalrix, $\frac{1}{2}$ per cont.; of those having two cicatriees, 4t per cont.; of those having three ciratrices, 17 per cent. ; and of those having four or more cicatricts. only juer cont. died; whilst 3$)^{\frac{1}{2}}$ per cent. of the unvaccinatel perisherl. The new arramement in the netropolitan hospitals will involve some addicional trouble aml expense; but; from a scientifie point of viow, the ntvantages of being ahle betore long to issue an anthorised and revised version of Mr. Marson's valuable statistics outweighs other consiterations.

## MARCARINE AND BUTTER.

The effect of the Margarime Aet has hitherto not heen to diminish the supply of imitation butter, the demand for which seens to be largely on the increase. It has been pointed out that, rigorous as ar, the provisions of the Aet, the keepers of refreshment and bonrling louses, coffec-shops, and the like, are still allowed to
foist on their patrons an article as butter which costs less than tallow, and which las little or none of the ingredients of the genuine commodity, and that in this respect we might well follow the example of the American margarine inspectore, who have begun to summon the keepers of refreshment and boarding houses for palming the counterfeit articles off on their custamers for genuino butter.

## COMPULSORI CLOSING OF A SCHOOL.

In the Queen's Bench Division, the case of Roberts ${ }^{2}$. Falmouth Urban Sanitary Authority came before Justiees Mathew and Smith, on appeal under the Summary Jurisdiction Let, 18.9. The action was brought by the hearl master of the Falmouth British Schools for Boys to recorer compensation for loss of cmoluments suffered by the appellant from the compulsory, closing of the scliools for about three weeks during an epidemic of measles. The schools were closed by the managers after receiving a warning from the respondent authority that they would communicate with the Local Government Board on the subject. The Falmouth magistrates held the view that the schools were closed by the managers by reason of the obligations imposed on them, and the Judges, endorsing that view, clismissed the appeal with costs.

Health of English Towas.-During the weck ending Saturday, February 4 th, 5,739 births and 3,945 deaths were registered in the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons. The annual rate of mortality per 1,000 persons living in these townz, which had steadily declined in the four preceding weeks from 23.8 to 2.3 .5 , further fell during the week under notice to 27.9. The rates in the several towns ranged from 13.4 in Bradford, 17.9 in Bolton, 18.1 in Irull, and 18.2 in Birkenhead to 25.9 in Blackburn, 27.3 in Manchester, 31.8 in Preston, and 32.2 in Plymouth. The mean deathrate in the twenty-seven provincial towns was 20.9 per 1,000 , and as much as 2.2 below the rate recorded in London, which was 23.1 per 1,000. The 3,9t5 deaths registered during the week under notice in the twouty-eight tomns included 506 which were referred to the principal zymotic diseases, against 451 and 478 in the $t$ wo preceding weeks; of these, $2+3$ resullted from whoopingcough, 75 from scarlet fever, 52 from "fever" (principally enterie), 12 from diphtheria, 35 from measles, 35 from diarrhoa, and 19 from small-pox. These 506 deatlis were equal to an annual rate of 2.5 per 1,000; in London the zymotic donth-rate was as bigh as 3.7. while it avcraged only 2.0 in the twenty-seven provincial towns, amoug which it ranged from 0.3 and 0.5 in Newcastle-upon-Tynt and Cardiff to 3.9 in Blackhurn. 4.5 in Sheflield, and 4.9 in Derby. Whooping-cough caused the highest proportional fatality in Brightou, Salford, Bristol, Londou, and Leicester; measles in Birmingham and Derby; scarlet fever in Manchester, Oldham. Huddersfield. and Blackburn; and "fever" in Fottingham and Derby. The 42 deaths from diphtheria in the twenty-eight towns included 29 in London, 3 in Birmingham, and 3 in Alanchester. Of the 19 fatal eases of small-pox recorded during tle week under notice. 17 occurred in Sheffield, 1 in Leeds, and 1 in Bristol. The Metropolitan Asylums Iospitals contaimed 7 small-pox patients on Saturday, Felruary 4 th, of which 2 were admitted during the Teek. These hospitals also contained 1,558 scarlet ferer patients on the same date, against numbers steadily declining from -603 to 7.641 in the nine preeeding weeks; there were 95 admissions during the week. The death-rate from discases of the respiratory organs in I London was equal to 6.3 per 1,000 , and was considerably below the average.

## WANTED: A MODEL SMALIrPOX HOSTITAL.

Dr. Brown.-There is no small-pox hospital which gives security against infee tion aerially conreyed. Of fever hogpitals, none are without some faults, but lessons could he learut from the Lirerpol (Graftou street) Hospital, Aston Manor Hospital, Bromiey Hospital, Guildford U'rban Hospital, and qhat which is now beiog erected for Learningtonand Warwick is especially deserring of notice.
F. F. P.- We consider that tho expresion "a perpotual or perennial endemic of trphoid fever" means that the disease is peculine to a localitr, and dependent upon some eases special to it, and that this disease is nlways existent.

[^31]
## MEDICAL NEWS

Royal Combege of Sleramess of Finolayd．－The following gentlemen，having passed the necessary lixaminations，Tere，at a mevting of the Council on January 10th，uduitted Members of the College，namely：－
＊L．W．Andrews，1．1R．C．I＇L．，St，Bartholonmw＇s Iospltal：A．B．Avarne．
 Inry Sircet，Lemla；J．Mamivlie，L．S．A．．43，Hudwell Hoarl，Brockley．S．J．；
 41，Great Russell Street．Bionnisbury ：WH．II．Bromhead，L．J．C．J．L．， ＂West Jetgh．＂Lamghboromgls，Lelieestershire：＂W．G．S．Brown，
 Carter．L．R．C．P．J．．8，Thistle Grove Lane．Santh Kensington； $1 \%$ ． Cautley，L．H．C．P．L．Branaler，Jeerls：＂C．\＄I．Clark，Y．R．C．I＇．L．Dorklag， Surrey：G．S．C＇larke，L．IK．O．P．I．．，kil（irosvenur RA．．S．W．IH．F．Cleveland， L．J．L．S．L．，26，Kllirook Grovo，Blacklıeatı：II．S．Collier，L．R．O．P．L．． Informary，Leleester；W．M．Cotton，L．Jh．C．E．Ia．，BT．Marquis Roai， Canoten Square．N．W．：C．A．S．B．Cux．L．R．C．²．L．，Foriwick Ilouse，
 Upper IIollnway：W．11．Cumbell，L．S．A．，I，The Avenue，Kew ：F．X． 1ha Costa，L．lR．C．I．L．．7．Delvine Road，Fulham：＂F．P．Daniell， 1．13．C．I．L．．S，College Street，Isliogton；＊B．W．Darroll，L．R．C．P．L．，Clun， Shropshire：W．II．H．C．Davey，1．12．C．P．L．．Norwood IIonse，Elder Hoad，West Norwnol：A．O．Drvies，Th．R．C．P．Fid．Campton Honse，Bnr mouth．North Wales；H．F．Devis．L．lh．C．P．L．，85，Olarence Road，New Cut，Jristol：C．J．Devns，L．S．．．．2），Palace Iload，Upper Norwood，S．H．： C．A．Jncket，J．R．C．P．L．，Great Inrmouth：T．A．Durrant，L．R．C．Y．J．． ${ }^{a}$ Avondale，Urescent．Hoar，Kingston Tiv：C．I．Eaceles，L．LR．C． 1.0 Wrigg，Alphem，L．1h．C．P．I．．3，Mecklenburgh Street，W．C．i A．M．Ewing， M．D．Toronto， 30 ，Avenue Joad．Toronto；G．A．Ferraby，L．R．C．P．L．， 381, Sunmer Lane，Birmingham：J，\％．Forster．L．R．C．P．L．Blue IIouse Farm，Mrlden，Surrey；T．W．Francls，L．R．C．P．L．，145，Isledon Road， Finsbury J＇ark，Ji．J．Gook，I．S．A．，Aston Court，Teabury，Worcester hire：W．ApS．J．Graham，L．R．C．I＇L．，Weslock House，Burton I：oad， Kllburn：W．T．Grenlell，L．H．C．J．L．，20．St．Stephen＇s Square．Bays： water：F．W．Guiselin，L．B．C．P．L．I3，Messina Arenue，West llanp－ atead：W．E．IIarly，L．R．C．E．L．．WClliagton，Salop；N．C．Haring， S．S．A．3it，Upper Brook Street，Mancluester；F．M．IIenrnden，L．S．A．， bown House，Sutton，Surrer：＂（\％Heaton，L．R．C．P．L．，Church Hill， Tandsworth，Birminghan ；H．H．Heffernan，L．R．C．I．］．，Alma，Victorla Soml，North Sonthsea ：＂C．T．Hollaud．L．F．C．P．L．，Stanhope Jouse，Mor刀 som，No K．Molt，I．R．C．P．L．Tuttand，T＇erry Vale，Forest noton Road，N．id．K．Ioit，．．．R．C．P．L．，Tuttand，Perry bate，Forest
 L．12．C．P．Lu．OV，Ciastle Strect，Famman；C．S．Johnsion，L．S．A．，9，Easy Row，Blrmingham；J．Jones，L．R．C．P．L．．Northcote．Lermnrd Road，Peage： K．J．Kershaw．L．R．C．P．L．，Pitton House，Sheptom Mallet，Somerset 1I．Larog．L．K．C．J．L．，52．Hillemey Street．S．W．．R．J．I．angley I．R．O．P．I．．．Iark Cottage．Tilelurst，Kenting：P．Lishon，L．M．nnd S． Bomhay，21．Wolura Place；T．Lismman，L．R．C．P．L．，30，Millman Street， Bedtasd llow：C．Fi Lister，L．K．Q．C．＇＇．I．，Shtbden ITall，JIalitax．Yorks Bert Liras，L．IR．C．P．I．，II，I，econtield Rom！．Timlburv．N．：J．Maberly I．R．U．J．L．，19．Devonshire Builılings，Math；J．B．Midlroy，J．R．C．Y．L．， Derwent Villa，Lglinson IRoad．Shooter＇s Ilill，S．E．：J．Jingauran T．K．Q．C．P．I．，Crcehan，Chuan．Trelasd：＂C．T．B，Nalscy，I．．R．C．P．I． Chsrlbury，Oxon．；＂II．B．Marriott，I，R．C．P．L．，Malton，Ipswich：＊A．D Miller，L．H．C，P．Io．338，Dudley Ioml，Birminglanm；＂IR．D．Mothersole， 1．K．C．J．L．，The Infirmary，Fisst Dintwiel Grove，S．K．；${ }^{\text {W }}$ G．T．Mould T．R．C．P．L．，4．Tavjotock Crescent．Wratbourne 1＇ark；F．M．Ogilvic， T．R．C．P．I．．．12．Park Lade，W．；W．T．Orel．L．R．C．B．L．．，Carioss，Bourne month：J．W．J＇eaker，M．B．Tomnto．Brampton，Ontario，Canada：J．N
 40，Queen＇s IRoal，Hayswater：＂F．B．Rundull，L．1R．C．J．L．，Basset，South ampton：J．Rees，I＿．13．C．1？L．，Peryffoss，TRhwallewes，R．S．O．，S．Wales J．I．Kees，L．R．U．J．I．．．H．Si．Weter＇月 Street，Mile Find，F．；J．K．Reeves L．ih．C．J．I．e Kuathtieli，The Avenue．Berkenham，Kent：A．C．TRoberts L．13．C．P．L．，B．wllesmen．Nastbourno：A．H．Kolinson，L．S．A．，How Moor， near Bradiord；T，1Rohinson，L．Ih．C．P．J．．，Station Sirect，Burton－os Trent：J．O．IRossal！，I．1K．C．P．L．．，3n，Wherdeen Plare．Maian Vale：＂O．R
 Ialcester；J．G．Y．Sapp．L．IR．C．I．L．，I’almerston lioad．Sonthsen：＊ Scott．L．IR．C．［＇．J．．．Sorth Firml ITouse，Norllı Kiral Rome．West Kensjagton 1I．J．II．Scott，I．R．C．P．T．．，2，Itasthento Street，Mecklenburgh Square 1I．Shlpton，T，R．C．1．L．© Buxton，Derbrshiro：C．W．Smeeton， L．IL．C．${ }^{\text {M．L．．} 15, ~ R e g i n a l d ~ T e r r a c e . ~ L e e d s: ~ T . ~ M . ~ S m l t h, ~ A . M . ~ n n d ~ O . ~} 8$ Jruoswick Walk，Cambringe：F．H．B．South，L．S．A．，Downtinn Market －C．P．Sjink，L．13．O．B．L．，1．Csvendah Termme．Tands：K．If．Starling



 I．H．C．I．L．Fernick．I＇enryn，Cornwall；A．F．Tyrrell．L．I．C．I．I．，16， Colloett，Komi，Int ney：F．J．Waulinan，J．K．C．J．I＿，Wiston Lodge．New IIrapton，Middlesex：J．II．Wiaker，I．．R．C．I＇L．22，Nbert Street．
 WYesthorly．L．13．O．1＇L．，Seven Springs，Oxford：＂U．J．Weekes，T．R．U．P．I．．，
 7．Warrlor Square，St．Leonari＇s－ou－Sea：IJ．IZ．Winter．L．IS．C．J．J．． 6, fillote Plaen，Blackhmath：＂II．W．Wiqu．I．．R．C．D．L．L．15．I．vindnck Place， Filinburgh；J．P．Wnonthratt．J．．R．C．I．L．，10，Market Place，Marclesfield；
 L．R．C．l．Halo，The lanurela，ilalumencu．
－Canuldates unaler the regulations of tha Fixamiaing Boerd in Eaglant．

University of London．－Preliminary Scieatinc（M．B．）Fxami－ nation．January，1888．Pass list．Entire Examination．
First Division，－J，II．Grifiths，Vinlvoraity Colloge，Merystwith，and Sl ． Bartholomew＇s 1Iospltal；W．N．Sodea，St．Bartholomew＇s Hospital；1＇ W．Wiesley，Uulversito Ciollege．
arcond Diviswon，－Fanny Armitage，Yorkshlre College；J．IJall，H．A．，prirate study and Universily Correspondenco Ol．；W．J．Jolinson．Guy＇s IIuspital ： 1．Junes．Lipsom and Lniverslty Cullegts；C．II．Mott，Unlverslty College and University Correspondence Cl．
Two Subjects of the Jixamination．
V．J．Batteson（C．，n．），Univeraity College and privato study；C．Butchor （U．，P．）${ }^{\text {G }}$ Guy＇s Ilospital：J3，Collyer（C．，P．）？．St．Rartholomew＇a Hoso pital；L．S．Huce（C．，jz）．University College and Schooi；H．W．Jacob （C．，P．），Trinity College，Dublio；IL．M．Moore（P．H．），prirate stady ：II． S．Revell（O．，P．），Universlty College and School ；L．Rogers（O．，P．），St ALary＇s ILospital ；W．Tumer（O．，P．），KIng＇s College and School；J．E．B． Hella（C．，n．），St．Mary＂s Ilospital and private tuition
One Subject of the Examination．
G．J．Arnold（c．），St．Thomas＇a Mospltal；L．W．Bathurst（p．）\＆St．Bartholo－ mesw＇s Tiospital and private tuition；Allce New．Budgett（c．）i，Univer sity Colleqe；F＂．J．Carter（P．）St．Bartholomew＇s Mospital ：T．Car
 Crawshaw（P．），Archbishop Ifolcate＇s Sclıool，York，and private tuition lege；IT．W．Lane（ $\mathrm{C}_{\mathrm{s}}$ ），Universlty College；H．H．Pace（P．）I，University Collégo and London IIospital；C．S．Pantin（p．），Blackheath Proprictary Solool and Universlty Collego；A．W．Peake（B．）University Colleme Bristol：A．F．Piercy（P．）${ }^{\text {P }}$ ，Qeenswond School，Birkbeck Institute，and prifate study；F．R．Rowland（n．）I．University College；W．Stokes（P．）． Trinity Hali．Cambridge，and Fing＇s College：II．S．Taylor（c．），Uni－ tersity College ：J．P．Tildesley（P．）I，Mason College，Birmiagham；K． 13. J．Fickens（C．），Westminster School aad St．Thomas＇s IIospital．
－The subjects taken up by tleese Candidates are indicated by Inillals affer he mame－c．＝Chemistry； $\mathrm{p} .=$ Physics ； $\mathrm{B} .=$ Piology
These Candidates have now completed the Examination．

## MEDICAL VACANCCIES．

The following Vacancies are announced
ATJLONE UNTON．－Medical Officer，Moate Dispensary；Salars，el40 per annum and fees．Applicatlons to Mr．Luke Egan，Honorary Secretary． Flection on February 21st．
B．ULLYSUANNON UNION，－Medical Officer，Finlough Dispensary．Salary， £120 per annum and fees．Applications to Mr．M．Clancy；Houorary Secre－ tary．Stracomer．Flection on Februbry 13 tis．
BIRMINGHAM CIILDREN＇S ITOSPITAL．－Assistant Hesident Mediral Officer．Salary，£ 40 per annum，with board，ctc．Applications by February 21st to the Secretary．
MIHMINGILAM GENERAL HOSPITAL．－Assistant ILouse－Surgeon．Applica－ tions by February 25th to the Honse Governor．
BRISTOL ROYAL INFIRMAII．－Dental Surgeon．Applications Uy February 18th to the Secretary．
CANCER HOSPITAL，Brompton．－Patholngist．Monorarium of ca0 for twelve－ moaths．Applications by Febmary 21 st to the secretary．
EARLSWOOD ASYIUM FUlB IDIUTS，ledhill．－Mediml Superintendent Silary，£500 per annum，with apartments，etc．Application by February 21 st to the Board of Management， 36 ，King William Sitrot，E．C．
E．LST SUFFOLK IIOSPITAL，Ipswich．－Assistant IIonse－Surgeon．Applics． tions by February 21st to the Secretary．
FOREST IILL PROVIDENT DISPENSARY－Medieal Officer．Applications by February 15 th to F．J．Marriott，Esq．，2，Perry Vilias，Perry Vale，Forest liill，S．F．
LIVERPOOL NONTHERN IIOSPITAL．－Assistant Iouse－Surgeon．Salsiy £0 per nnnam，with board and residence．Applications by F゙ebrunry ž2゙い to the Chalrman of the Committee．
MENSTON ASYLUM，near Leeds．－Medical Superintendent．Salary，\＆\｛00 per annum，with bonrd and residence．Applications by Fehruary 15 h to W．L Willians，Isq．，West Jidiag solicitor，Wakebeld．
IETROPOLIT．N HOSBITAL，Kiagsland 18oad．J．－Ophthalmic Sirgeon Applications by February 2uth to the Secretary．
VATIONALORTHOPEDIOIOSPITAL－Surgleal Registrar and Anosthetist Ionoraritum，£20．Applications by February 2lst to the Secretary．Grent Portland Street，iV
NENAG11 USION．－Medical Officer，Silvermines Dispensary，Snlary，Llon per amnam and lees．Application to Mr．Joseph liyan，Monorary Secrelary Election on February Ifth．
OLDCASTLE UNHON．－Minlical Officer．Oldcastle Dispensnry District，Saiary， £135 per anoum and the usual fees．Applieations to VWllham Ilarman J．H．Honorary Secretary，Crossdrum．Llection on Pebruary 13th．
OU（IHTHKAKI）UNION．－Medical Ofticer，Oughterard Dispenmary．Snlary， \＆112 jer mantmand lees．Ipplications to Mr．Rolert Mons，Honorazy Soc retary，Jeumnaklll Jodge．Filection on March Fth．
16OKBUKOIT JISTHICT ASYI．UM，Melrose．－Asslstant Nediml Oficos Salary，\＆gn per annum，with board auri reslilence．Appliestions to lor Johnstone．
TOYAL IIOSIITAL FOH 1）ISLiASES OF TIH CHEST，City Roar．－Assistant Physician．Application by February Ilili to the secretary
ROYAL SUHREI COIJNTY 11 OSPITAL，Gulldlord．－IIonse－Surgeon，Salary， £so per ajmum，with bonrd，ote Spulications by February 1 sth to the Assisiant Secrelary
STAEFOHDSIIIRE ORFVIRR．MI，INFIRMITRY，－Aq4istant IIonse－Surgeos Applleations by Februnry listh to the Jfouse－Surgeons．



## YOKK COUNTY MOSPITAL.-Sentor 1Louse-Surgeon. Salary, £l00 per annum, with board, ete. Applications by March ist to the Secretary.

 IORK DISPENSARY,-Three Resident Medical Officers. Satary, £130 per annum, with furnished apartments. ete. Applications by February 291 l to S. W. Notth, Esq., 81, Wicklegate, Jork.
## MEDICAL APPONTMENTS

Blomfield, A. G., MLD Aberd., A.K.C.Lond., Physician to the Exeter Dispensary; elected Physieian to the Devon and Exeter Hospital.
Carter, Rowland Wimburn, M.D., M.R.C.S., L.S.A., appointed Surgeon Weymouth lloyal Ilospital and Dispensary, vice F. C. G. Grifin, M.A., M.B., MI.1.C.s., resigned.

Clark. C., M. N., appointed Superintendent of the Rosewell Asylum, Midlothlan, vice R. W. Cameron, M.D., resigned.
Many.r, Edward, M.D., appolnted Visiting Physician to the British Mospital, Buenos Ayres.
HATki=s, L.A., M.B., C.M., appolnted Assistant, Resident Medical Officer to the Royal, National Hospital for Consumption, Ventnor.
Hintee, F'. R. Borthon, M.B., C.M.Edin., M.R.C.S.Lond., appointed Judior Ifouse-Surgeou to the Macclestield General Inffrmary, vife J. M. Gell, M.B., C.M., M.I.C.S., resigned.

Lewis, C. M., M.R.C.S., L.R.C.P., appointed House-Surgeon to the Western Branch of the Brighton, Hove, and Preston Dispeasary, vice L. Philltps, M.R.C.S., L.R.C.P., resigned.

Livixgston, J. Lockhart, M.D.. M.S., M.A.O. IRoy. Univ. Irel., appointed IIouseSurgeon to the Bristol Hospital for Sick Chiddren and Women, vice II. F. Simple, M.R.C.S., L.B.C.1', resigned.
Mavimax. James, M.D.Brax., M.R.C.S., L.R.C.P.Lond., appointed Lecturer on Histology to Natiomal Dental Collece, vicé Thomas Gaddes, L.D.S. Eng, and Erlin., resigued.
Mills-Roberts, R. 11., M.R.C.S., L_R.C.P., appointed Assistant House-Surgeon to the Birminglian General Hospital, vice J. Errington Ker, M.M.C.S., resigned.
Peakf., W. Pemberton, Esq., M.R.C.S., L.M.C.P.Load., appointed Assistant Medical Officer to the St. Marylebone Infirmary, vice Faymond Courteen, M.B., resigned.

Sprolv.e, IR. 11.. M.D., M.Ch., L.M., appointed Medleal Officer to the Killyleagh Dispensary of the Downpatrick Union, vice R. G. Shiel, M.D., resigned.
Witsox, W. J., M.B., M.R.C.S., appointed House-Surgeon to the Northern Branch of the Brighton, Iove and Preston Dispensary, vice E. S. Hasell, M.J.C.S., L.S.A., iesigned.

Woodhall Spa, Lincolashire.-Among recent considerable additions and improvements made for the accommodation and convenience of visitors to the Woodhall Spa, there has, we learn, just been completed, from the designs of Major Davis, F.S.A., of Bath, who, two years ago, made a tour of the chief European Spas at the request of the Corporation of Bath, a splendid series of baths and pump-room fitted up with every modern appliance and conrenience, inelnding shower, vapour, douche, inlialation, and loeal baths. In the pump-room accommodation is provided for a first-class orehestral band. Plans of a new hospital have been prepared, and in addition to the valuable site given by the present proprietors, subscriptions to the extent of $£ 1,000$ have been raised towards this object. Several new villas have been erected, and others are in course of building. The hotel to which a new wing has been added has bera entirely remodelled and furushed to mect all the requirements of patients and guests, and the gardens, which lave been newly laid out, are surrounded by a eharming park of seventy acres. Mossrs. Robey and Co., of Lincoln, are, we learn, putting down new machinery for the elevation of the Water, whiel, when completed, will deliver about 20,000 gallons a day; aml new tanks have also been constructed to hold some 60,000 gallons of water. It is anticipated that this spa, which was largely attended by rheumatic and other patients during the past year, will, in consequence of the greater convenienees provided, be more generally resorted to.

Tun Inter-Hospital (Rugby) Footbayl Cup Ties.-The following are the results of the first round:-The matches are played on the Riclimond Athletic Association Ground. St. Mary's a bye, Westminster serateled; Middlesex a bye, King's scratchéd. St. Creorge's beat Charing Cross on January 23rd, a somewhat easy victory, $\ddot{2}$ goals, 2 tries, and 5 minors ( 75 points) to 1 try and 1 minor ( 11 points). St. Thomas' heat Guy's on January 27th. Contrary to expectation, Guy's was defeated, the Lambeth forwards so penning their rivals as to prevent their three-quarters getting off. After a most stubbormly contested game the score was l goal to 2 minors ( 27 points) to one try ( 10 points). London 2. St. Bartholomew's resulted in $\Omega$ draw, hoth sides scoring two points. Londou, though malnle to score, lad slightly the best of the game. University a bye. The draw for the second round is as follows:Monday, February 13th, University $v$. St. Thomas's; Tuesday, February 14th. St. Bartholomew's $v$. St. George's; Thursday, February 16th, London 2. St. Mary's, Middlesex a bye.

THE IIExTHORPE ACCIDENT.-At the meeting of directors of the Manchester, Shefficld, and Lincolnshire Railway Company, held at Manchester on the 25th January, Sir Edward Watkin, Bart., in the chair, the following resolutions were passerl:- "That the best thanks of the Board be given to the governors and committee of the Doncaster Infirmary for the raluable aid they had rendered to the parties injured in the Hexthope accident, and for the care and attention bestowed upon them during the time they were in-patients in the infirmary. Further, that a sum of 250 ginineas be handed to the funds of the hospital towards meeting the additional expenses incurred in consequence of the accident." "That a sum of fifty" guineas be voted to Mr. lenny, the house surgeon of the Doncaster Infirmary, in recognition of the additinnal labour imposed upon him in connection with the aecident at IIexthorpe, with the best thanks of the Board."

SMALL-pOX AT NotTINGMAM. - At a meeting of the Nottingham Town Council on Monday, a report was submitted to the Health Committee of the Corporation recommending the erection of a permanent small-pox hospital at Bagthorpe at a cost of $£ 26,000$. The matter was deferred for two months. It has, we believe, already been under consideration for four years. There are still eighteen patients in the temporary hospital. Another death from small-pox is reported. Nearly three weeks ago a man was removed from a house to the temporary hospital. All the inmates of the house consented to be raccinated, except a young womnn, who resolutely refused to adopt this precaution. She alone caught the disease, was conveyed to the hospital, but never rallied, and died on February 6th.

LURGAN UNION-A special mecting of the Lurgan Guardians was convened recently in order to consider the liability of the Board to pay the salary of a substitute fer one of the dispensary officers of the union. It appears that on September 15 th last, the Lurgan Dispensary Committee allowed Dr. Agnew, medical officer of No. 1 District, three weeks' leare of absence on the occasion of his marriage, and the Committee appointed Dr. Magennis, J.1., as locum tenens at a salary of £2 2s. per week. The Board of Gnardians, while confirming the grant of leare of absence to Dr.Agnew, declined to pay his substitute, on the ground that, all things cousidered, Dr. Agnew was liable. A resolution reaftirming their decision refusing to pay the amount was unanimously agreed to.

Pasteurisan In Poland.-Dr. Monin furnishes the following statistics concerning the number of preventive inoculations for rabies practised in Warsaw by Dr. Bujwid, and the results obtained. From the beginning of 1887 to July lst, 220 persons were inoculated; in 85 per cent. of the cases the bites were inflicted by animals proved to be suffering from rabies. In 15 per cent. of the cases this fact was not certified; thirty-five persons who were bitten were not inoculated, owing to the insignificant nature of the bites. Two of the patients inoculated died; the mortality whs therefore 1.06 per cent. This proportion is much the same $s$ s that shown by the results of similar experiments at the Institut Pastelur.

Cremation In France. - It a meeting of the French Cremation Society held in Paris on Jamary $29 t h$, the President announced that he had received from the Ministry the assurnnce that an edict rendering cremation legal would very soon be promulgated. A requisition to the seneral commanding the army in Tonquin that French soldiers dying there might be burnt and their ashes sent to France for burial had beeti answered by tho usual official formula, "It is not tho custom."

Tuf: Leeds Trained N゙urses' lnstitution seems to be doing a good and useful work. The staff consists of eighty engaged in prirate nursing; seven engaged in district nursing; and sixteen probationers in training at the hospitals, giving a total of one hundred and three. The number of cases attended during the year was eight hundred and seven: and no hundred and seventeen cases had to be declined, owing to inability to supply a nurse at the time she was needed. The Ilonorary Secretary is Mrs. Edward Walker.

Adulferation of l'eplemr.-A number of liverpool grocers lave recently been comicted for selling adulterated pepper. The fines and costs, however, we are informed, are in each ease paid hy the grinders, who are the real offenders, and whose names are, by this means, not disclosed. If the same attention were given to the detection of fraud among manufacturers as is now given to its detection among the retail dealers, such instances of erasion o the law wonld be less frequent.

THy: Committee of Management of the City Gf. London Hospital, in bresenting the, 13 ith aniunl roporl, exprosed their gratification in the satisfuctory character of the yenr's workimge both as regards the sanitary condition of the hosjital and its financial posibion. During the year, 3ifi women have been delivered is tho bosyital, as agninst as 3 in 1886 : $3 j 5$ clibliren were born, mamely; 17 boys and JSI cirls: 7 children wereslillborn, and one wamail has died. the leath of the nother. (from extraneous causes) being the ouly one since May, $1 \leqslant G_{9}$, ont of 506 deliveries, the mortality being under 2 1er 1,000 .

Enliblimgle Drital Mospitalu-The necessity for the erection of a specially resigaed and enlarged hospital on a suitable site for the reception of the staff and patients of tho present Edinhurgh Dental llospital becomes moro npparent overy year. During 1887 there was an inereaso of 785 patients registered as compared with 1856. Tho strff of the hospital derotes a considerable amount of time to the stopping and preservation, as well as lie extraetion, of teeth.

Mll. Tiromas Mosis, surmeon, of I'reston, has died at the venerable age of 90 years. The decensed gentlemnn was for many years a nember of the Town Conncil, was made alderman in 1845, and sorren. the oflice of mayov during the year 185l-5.. Up to abont a year ago Mr. Monk continued in active practice.
a Tramr's Paranise.-Orders have heen isshed by the Chief Constable of Derbyshire for the revaccination of the members of the police force as a precaution against the suall-por epidenic prevajling in the adjoining county. No vagrants or merely suspicious characters are to be apprehended until this order lias been carried out.

Inalee Usros.-The mardians recently passed a resolution increasing the falary of Dr. Hayes from $£ 100$ to $£ 120$ per annum. As. Inowevr. Dr. Ilases had only lately been appointed a medieal officer of the mion, the Local Government Board have refused, to sanction the luoposed increase.

Gtasgon Sayaritan Hosprtat.-This is one of the youngest of the, medica? charities of Glasgow being established for the treatment of diseases of women. During the past year the tatal number of patients was $\approx 23$, and the number of operetions $93^{2}$ No deatlis occutred.
Aćcondisg to Mr. Leroy-Eeaulien, the medienl profession in France pay to the Trensury an ammual sum of $12,384.930$ francs for their "patentes." a tax leried on the exercise of every (rade, profescion, and occupation in that country.
Glasgori Dextar Hosprtal-The annual report of this hospital shows an increase of 1,416 cases treated. 1,he total being 8,212, which included 62 special operations performed under anæsthetíce.
A sevr medical journal, called Electrothérapie, has recently appeared iu France under the editorship of Dr. Leon Danion, who has given much attention to electricity as applied to medicine.

F'ros Dr. Diplock's amnual report it is seen that considerably aver onc-fourth of the inquasts held in West Middlesex last yoar were upon children under the age of 12 months.
A "First ajd" class of the St. John Imhulance Lasociation has been formed by the Duchess of Albany at Esher, Ifer Royal Ilighness herself attending the lectures.

## OBITUARY

 Dr. MESMET, whose lfath oceurred at Ahtershot towarde the end of last- year, way a man of varied acomplislunents, uad ligigly:


 Lnadon in teji3.i Mo was University Stedallist inn Medicinb, and tnok llonours in Surg.ry, Midwifery, and Maturia Medica. IHe was late llonorary Consultiug Physician to the Muriners' Home, Fiexpmant: Plysician to the London Jospital, Norwoad it and Resident Phyician to the St. Jarylubne Intiruary. Ue, was alon a member of the IIarveian Bociety. Jle was the nithon nf many riorks pn a variety of subjacts. In $186 t$ he published Man anl Apc!. Ile wap alsa the author of a Practical, Treatise on, A papleavie
 185.); Cholera, its Patholog! Contagiousness, and Ereatment illo
was also the author of a satire entitled. Llyde Park, and a contributor to the medieal jourmals and Morning Star.

## MCHAEL LE:AHY, M.D.En.

Dr. Leany, the oldest practitioner in Bridgend, died on January $20 t h$, aged 76 , from a cold contracted when out attending his patients. Dr. Leahy studied nt Dublin and Yaris, as, well as at the University of Edinburgh, whore he was a distinguiched student in the class of the late Sir James Simpson, and afterwards his claes assistant. Je nbtained the qualification of L.R.C.S. Edin. in 1839, and that of M.D.Edin, in the following year. He was a good French seholar, and well rersed in Trench medical literature. Ile acted as chief surgeon to the workmen in the Tondu ironworks for upwards of forty years, and he and his valued friend, Dr. Prichard, tho attended him during his illness, have heen tho two leading prant itioners at Bridgend for nearly half a century. llis unseltish devotion to duty. his invariablo kindiness and charitable dealing, and honourable and straightforward action under all circumstances, won for hin deserredly the respect of all and the affection of a wide circle to whom he was more intimately known.

## MEETINGS OF SOCIETIES DURING THE NENT WEEK. <br> MONDAY.

Harat. College of Straeoss of Engtand, 1 P.m.-Frofessor John Bland Sedical Sutton : Lecture on Evolution in Pathology. 1. Coalescence. ety of Lospoti-Dr. Donald Hood : The Treatment of Rheumat ic Feyer, with especlal reference ta the Cse of the Salicyiates. -Dr. Kent Spender: Some hitherto Undescribed Syniptoms In the Early Itistory of Osteo-Arthritis.

## WEDNESD.AY.

Royal Collegr, of Surgeons of Englain, a p.s.--Professor John Bland Sutton: Lecture ou Evolinton in Pathology: 11. Cualescenco (continued),
Foyal Meteorniorical Societt, a pim-Hon. Halph Abercromhy, F.R.M.S.s Flectrical and Metcorolopical Observations an the Peak of ToneElectrical and Metcorolohical Observations Raintall of South rffe. Y. B. Tripp, Nits Ekholm': Some Xfethods of Cloud Areasurements.

## THELESDAY.

1Larteras: Söciett--Dr. Stephen Mackenzip: Some Cases of Hysteria. Dr. Lees: Case of Mrsteria. Mr. Stleock and Dr. Marnire: Death, with Symptoms of Hysteria.
Parlees Musecar or Hygrexe, 5 p. M.-Dr: J. F. Payne: Plagues, Auclont and Modern.
 Sutton: Lecture on, Erolution in Pathology, 111. Ausiomical Peculiarities and Their Jedliying Effects upon Discrine.
 N. $12.0 . S .:$ Port Sdnlary Arminist rat lon on the Trme : asemen Years Retrospect. Campool
tration in the Cnbed Stutes.

## BIRTHS, MATRTAGES, AND DEATHS

The charge for insertinn annourcrments of Firths, Marriages. and Deaths is 3k. Gd which shauld be forwirded in stamps with the ampouticeprout.

 E. ILurry Fenwiek, of a daughter.


 Carollne. Furlifmot doughteí of the late gir John Mose Cormack, M. D Midin.


Oestox-1\}




Weny-Wil gnx, Fiolin riary Istint 8t. Peters, Bouthamptoll, by the Re, A. A.
 Tut: C. I\% Steward, Vene of lle parts, Arthur Breedon fade, II.B. of Southmpton. to Ánice, efilest danghter of tho late Col. Witson, B. . .E., o the Polygon, Sout hampton.

## DEATH.

 Mi.D., T.R.C.P.I Comstiting Physician to the Hastlags, St. Leone rd's, and Last Sussc= Hospilal, aged ditearerys:

# THE HUNTERIAN ORATION LIFE-WORK OF JOHN HUNTER, AND HIS INFLUENCE, ON SURGERY. 

Delivered before the Hunterian Society on February sth, 1888.
BY R. CLEMENT LUCAS, B.S., F.R.C.S.',
Presklent of the Societs.
The hiographies of great men form conspicuous landmarks in the listories of nations fike the mountains to our plains and the capes and promontories to our ocean shores. Without them the records of time would he as uninteresting in theirmonotony ass the tedious columns of a banker's ledger, where every figure muist fall with wearrying regulurity into one of the three spaces devoted to ponnds, slillings, and pence. There would bie reiterated repetition withont relief, and a dnll menotone would the the only sourd heard in a cliorus of universal 'platitules. But, happily. highl above the hum of the multitude, back from infinite space which time orersliadors, come the voices of the great, ever calling to'ns to follow in their footsteps, and to search ont the labyrinths of - Wature by the aid of thie lamp of truth. First among surgeons of immortail renown will ever remain the name of him in whose' honour we have met together to-niglt, and after whiom this Societs takes its name, the illustrious John Hunter. By his beacon light the reputations of all future generations of surgeons will be tested; and whereas it may be safely predicted that the flickering ligbt of many will disappear like the light of the stars before the rising sun, yet it may still be hoped that the world may create and this nation produce surreons whase genius will in after. rears shine with as steady a light as that of the planets in the uni versal ether. Let us turn to the history of this great man's life, to see if we can discover in it the secret of his power, or learn how to train ourselves, in howerer distant a way, in the direction of this ideal. Was it by birthright, by the aid of parental wealth, that hie gained nstart over his fellows in the race of life? Anythiug but this. Was it by earls mental culture, by the careful and exact training of culti yated minds in his early childhood, that he learnt the lesson of his life? No, fur from this. The yonngest son of a scotch laird, his home was in the wilds of rugged Scotland, and his enrly education only that of a rillage school. Till early manhood his mind lay fallow, like his father's acres under the leaden sky of winter. True, his parents were persisns of keen intelligence, if not of the highest culture, and under their roof his mind would be steadied in virtue and guarled from vice, But the'records of his boylhood show no promise of pre-eminenee. The fime was idly spent and nneventful. We camnot even discorer that 'he displayed any 'inquisitive interest in the structure of the hirds or reptilies thiat in boyish mischief he may have captured. There is no indieation of the future biologist in the boy, and not hing whatever to indicate the great scientific mind that lay in hinn as yet undeveloped. But, mark you, he comes of that sturdy yenman stock that in the previous century lad produced a Newton, and bis two ellder brothers had alrendy shown signs of hich intellectual power. These two, niggrating to London, were becouining distinglished in the medical profession. The eldest dies yruung, but :ithe seconil son, William, is destined to the the magiet that attracts the voungest towards intellectual pursuits, and through him . Folln Ilunter derived that inspiration which ronsed his hithlerto clrysalid mind to the mighty exertions of after years. Little can we learn from such a boylwod. It is deroid of those little incidents upon which hingraphers delight to lay so much stress as indicating the hent of the developing mind. There is nothing correaponding to the hoylhood of the great general whin loved more than other hors to play with cannon, or to that of the great engineer who delighted in mechanical contrivances. All we have to contemplate is a wille uncultirated field, lut the adjoining acres indicate that the soil is fertile if sown with the appropriate sved. The first venture is unsuceessful. At the age of 17 , John Hunter is sent to nssist a failing brother-in-law, who is a catinet malker in Clasgow. As well might his friends have attempted to grow a sncculent water-lily on the Surrey sand hills as to force such a calling upon the unwilling youtll. The result is failure, and he returns again to home and idleness. Thus the first twenty years of his sliort life of sixty-five are, as we now judge, lost-or, at least, uuriroductive. Whet lier years that in their own time prove
unproductive are, when added to the human cycle, to be regarded as lost is an intersting problem. If so, then hours spent in healthy exercise-inasmuch as they seldom lead to immediate intellectual results-may be regarded as lost also. And sleeph even, that "foster-nurse of Nature," may he blamed for her apparently unproductive hours. But if those twenty years of mental rcpose led to the storing up of energies which in ifter years produced such magnificent results, then must they not be regarded as lost, but as potential. It is possible even that this storing up of energies by lack of opportunity had been present in the fumily of llunters prior to the generation in which Johnt was borm. It is certain that the strain of blood derived from Ifunter's parents Was capable of supporting the highest intrulectual attainments, as eridenced not only in Ifunter and his hrothers, but afterwards in the family of Baillies, one of whon married his sister.

John llunter was the youngest and tenth clild, but only five of the family lived to adult age. It may be interesting to those in search of the origin of genius to note that there was a great difference between the ages of Ilunter's parents, and that the father was yerging on his seventieth year when John was born. He lost his father when 10 years of age; to this circunstance and to his mother's indulgence is attributed the neglect of his early education. This defect followed him throughout life. Hin grammar is often incorrect, his sentences clumsy and obsenre, and his expressions coarse. or at least inelegant. But a vigorous intellect and irrepressible will struggle throngh all the dithculties resulting from his defective tuition, and in this we recognise the impulsive force of true genins. To how many would such an education have proved an impassable harrier to higher intellectual attainments! Ignorant of any language but that of his hirth, and but little skilled in using even this, we find him twenty years of age lefore his mind commences to unfold. Then comes the turning-point of his whole life, that

> Tide in the affirs of men,
> Which, taken at the flood, leads on to fort une
> Omitted, all the royage of their life
> Is boumd in shallows and in niseries.

This turning-point is a letter which he addressed to his distinguished brother William, "requesting to he alloworl to join him in London, and offering his services as an assistant in the dissecting-room.". The reply was favourable, and contained a kind invitation to visit London. Now, mark you, this is apparently the first time that Ifunter attempts to direct his own jat h in life, It is his own initiative. Before, he shows no liking for the parental acres. He is said to he attached to country sports but negligent of farming. His fond living parent, having neglected his education, thinks that be may earn an easy living by falling inte the business of a dissipated brother-in-law. From this he returns in discust and failure.
The tendeney of parents generally is to place their sons as soon as possible into positions of ease, regardless of their inclinations: but there is this consolation, that men of cremius commonly breati through all restraint, and erontually determine for themselfes their paths in life. It was so with the llunters. Why parentos too often fail to direct aright their children's futures it is not difficult to understand; for youth strives for distinction, age for affluence. Having arrived at a time in life wheu they begin to feel the burden of work and the luxury of rest, they desire to defend their sons from the toils and dangers by which alone distinction can be securet. Happily for the world, the two Hunters broke loose from parental gnidance, and found in the medical profession that scope for intellectual activity to which their minds were best adapted.

Let us rest for awhile from the contemplation of John Inunter's life to study the character of that clder luother, William, who hencefortll is dest ined to exert so powerful an intluence on his career. William is ten vears his senior, and was sent to Glasgow l'niversity at the age of $1+$ to read for the elerical profession. Ifter five years of study his tastes lead him in another direction, so that at the age of 1 w we find him at llamilton, with a young doetor named Cullen. Three years with C'ullen intensify his love for the medical profession, and he proceeds first to Bdinhurgh, then to London, to study, with the olject of becoming culleu's partner. It the age of at he is in London, residing with Dr. Donglas, a celebrated nuatomist of that day, whose honse he enters in the donble function of anatomical assistant and preceptor to his children. Here mider tields are opened for his talents, and once nore we find him asserting his own judgment. His father doubts the wisdom of this step, and writes strongly urging him to adhere
to his arigimal intentinn of returning to llamilton to be Dr. Gutlen's purtner, "where"," he writes, "yon may he very comfortably" settled and make money: and if you miss this opportunity now you eammet be sure of it at another time." This parental advice, tinetured as it is with Gavlic prudence, is not followed by Wibliam Hunter, who, continuing to pursue his sturles in Lombon, rapinly rises to be the most distinguisled nuatomist aml most brifliant lecturer of his time. Later in life he directed his attention specially to midwifury, and phblishod, nine years before his death, his great work on the gravil uterus. If collected a large nusenm, the materials of which cost him El(W), ouk, and this collection, together with $x^{2}$, mo for its mantenance, he hequenthem to the Enirersity of filasgow. Alams thus describes him: "His person, though small, was graceful: lis cast of features regular and interesting: his voice musical; his manners attentive atel thatterings. In short, Dr. Hunter was a polite scholar, an accomplished gentloman, a complete anatomist, und probably the nost perfect demonstrator as well as lecturer the world had crer seen."

One sentence from uletter to his old friend Culten, who rose Io be Professor of Medicine in the University of Edinhurgh, will show at once the nanner and charaeter of this trulp distinguished physicinn. "Since 1 began to think for myself," le writes,
Nature, wherr 1 am lest disposed to mark her, beams so strongly upon me, that 1 anu lost in wonder, and count it sacrilege to measure her meanest fentures by mr largest conceptions." In that one sentence we note the humility of scientific thought, associnted with lireadth of view and beanty of expression, which were characteristics of Willimm Ifunter. Fad the whole worln beyn searched over to find an appropriate teacher for a young developing genius, it would have been difficult to discover a more nhle rand aceomptished guide and instructor. For not only was Willian Ilunter reengnised as a scientific physician and anatomist of the grentest eminence, but he possessed in the lighest degree the power of communiceting knowledge. John llunter rode from Scotland on horsoback in 164 s to join his brother in London. What a new worla for the uncouth Scotch lad! licture the indifferently educated, awkward, ungainly youth, now suddenly imported into the enntre of intellectual activity. IIow keeniy must le hase felt the distance between his limited knowledge antl that of the circle in which his elder brother was already distinguished. It first it would seem he displayed littlo love fur refimment, and became a leader among his brothers more noisy pupils. The higher civilisation acted slowly upon him, and came too late to remove all the angularitics of thought and expression which had becomo deeply ronted in his northern home; but he bringy a robust constitntion and a determined will to carry him through his future studies, and in his brother's dissecting room he finds that new interest which supplies the requisite stimulus to excite his dormant energies into netivity. His brother starts him in the usual way by giving him an mper extremity to disRect, and the pupil accuits himself so well that the master prediets for him a distinguished future in anntomy.

Thus is llunter's mind inoculated ly his brother towards the sturly of life through death, and henceforth the feverish thirst for knowledge , thas excited, grows more and more intense with increased acruirrment. bitt for this one sphore of knowledge only is his mind adapted, and that the widest sphere of all: every crenture or thing that may bee nccomet to have life will, in future yars, when brought within his ken, command his earnest nttentinu and stuly: As yot he treals but the lowest steps in the stuty of life, hut his interest is awakened, and he is, thus chcourageil in labour on without sense of weariness.
The fyllowing summer, again through his brother's influence, he is combled io study surgery at the Chelsen Ilospital umder Chearlden, the famous lithotomist, num he returns to assist his brotlur whon the antumn sersion of anatomy commences. Aftor Cheselden's retirement he studics unter l'ercival Pott, and thus fise years are spent lotween amatony and surgery. Then, in 1753), a now departure is wate, and we lind John llinter entererl a.s a ferntleman commontr at St. Mary's llall, oxford. This change is attributed to the desire of his lirother William to see him beter trained in clasice Iore, lont the experiment is a failure. Innter's mind is one strong in its own lines, but showing little adaptahility to the teaching of nthers, and at the age of $2 \mathrm{D}_{2}$, after five jears sixent in imatomy and surgery, be cannot be persuaded as he says "to stuff latin and fireck int the university", so ha returns agnin to Imndon to meter as a pupil nt St. George's llospital, whore, in 1756 , he is appointed louse surgeon. In the same year he joins his brother as a purture and joint lecturer in his
anatomical echool, and this must therefore be regarded as tho termination of his student's carer. Hlo is now 23 ymars of age, well trained in surgery", and an ahle and laborions anatomist ; but as a lecturer we time hin, when brought into contrast with his brother, a comparative failure. This is due in no why to a lack of knowlerlge, but to the difliculty he experienced in expressing his thoughts in words ready for immedinte service. I'erhaps it may be regarded in some degren as fortunate that ho was not possessed of natural clogumee, innsmuch as a popular teacher is alpt to be diverted by his popularity from those close studies and laborious investigations with which lhunter's name is henceforth to be associated.
Thus he labours on with scalpel and forceps in the dissectingroom, and now begins to widen his views by original rescarches in coujunction with his brothrr Willinm, or independently of him. He works at the descent of the testis, and employs himself in a series of observations on the anatomy and uses of the lymplatics. But this close and continuous anatomical work begins to tell on his bealth, ant in the spring of 1759 he is seized with inflammation of the lungs. The effects are slow in clearing, and as his elder brother James died of consumption, he is strongly ndvised to leave London, and seek change in a warmer climate. With this object he applies for an appointment in the army, and is soon ou his way na staff-surgeon with the expedition sent in 1761 to lay lay siege to Lelleisle. The army has proved destructive of many an early reputation, and there might have been a danger to llunter of a renewal of those dissipations to which he appeared to have some inclination when he first came to London. But the love of science has taken too strong a hold upon him to allow him to break awny from her influence. Althongh engaged in practical surgical duties and the study of ganshot wounds, we find hin employing his leisure hours in observations on the hearing of fishes and the ligestion of hibermating nnimals during the torpid state. The following year he is sent with an expedition to sup port the lortigueso against the Spaniards, and peaco being proclaimed in the spring of 17 (is he returns once more to Loulon.

John Huater's sccond entry into the metropolis at the age of $3 i$ may be contrasted with that he made fifteen years before under his brother's gaidance. Thell he was ignorant, uncultured, and without prospect in life. Now, thanks largely to that brother's influcnce rad training, he is recognised as an accomplished anatomist and able surgeon. He still displays some roughness of manner, some ungoverned impulses of temper, and perhaps a little tendency to quarrel with other workers in the same fiehl, but he is thoroughly imbued with a love of scientific inquiry, nud lans shown an industry, perseverance, and originality of thought which in future years will raiso him to the highest pinnacle of surgienl fame.
The position be held as demonstrator in his brother's dissecting room has been worthily filled by a Mr. Ifewson in his absence, and the independence of thonght whioh was one of John llunter's characteristies may have rendered a reunion with his brother inalvisable even if again possible. Ile is still poor, but possessed of resources whioh may command wealth, and ho lias his half-pay from the army to contribute to his support. Ilo starts in practice in folden Square, but, the public are slow to discover his talents, and tbus he is left with plenty of time in which to pursue his hiological studies. In order to increase bis income he gives a course of lectures on anatomy and surgery, but these are not largely attended. Thus his two chief defects, roughness of manner nom lack of thency in speech, debar him at tho commencement both from public and professional favour.
About this time he purchased a piece of ground at Earl's Conrt, then two miles from London, and hilt there a small house, which has converted into a kiud of menagerie for the study of animals aul for the carrying out of experiments. There bulls and leopards, eagles, dags, pigs, poultry, hees-indeed, almost every living creaturo he could collect around him-were subjected to his critical examination and study. This house came under the auctioneer's hammer on Mebruary $16 t h, 1$ R8i, only two years ngo, and it may lee inturesting to herir a last leseripion of it. which 1 take from the Butssif Mencar, Jornsa, of bebruary :Oth: " Hohind a lurge hrown brick honst stond a tine lawn. nt the right extremity of which was a grasey mound, in form like a. small hrict kilh. This monuel Tras surmonntex ly a low machicolated brickwork turret, for which various explanatinns have heen advanced. Indead, this tower haw been made the basis of Ilunterian legends: lut it was most probably erected before Itunter's time, and meant for ormament, after iduas due to influences derived from Versailles nurl llollant. There dema were excavated in the mound, the
central den being fairly capacious; but, according to modern ideas, they were ill-adapted for the reception of live carnivora. Tho story of the escape of two leoparls from the den is probably well known. Close to the dens grew some fine trees, including a fine mulberry, in the bark of which the late Mr. Frank Buckland believed that he could trace old incisions, made by ITunter, for the introduction of a thermometer in his experiments on the physiology of the circulation of the sap. At the left hand corner of the grounds, beyond the lawn, was a small workshop, with a loft, cridently as old or older than Hunter. but what use he made of it remains unknown. Turning back to the house, a long, fow, subterrancan passage led from the grounds under the building to the yard in the front part of the premises. It was hardly six feet in height, and midway it led to two small chambers well bricked, the one was used for the famous madder-refuse experiments on swine, the opposite chamber contained two copper furnaces. It was in the larger copper, concealed in this little apartment, that the skeleton of the Trish giant. Byrne O'Brian, and many other specimens, were prepared. Doubtful as may be the original meaning of the passage under the house, it cannot be donbted that Hunter
found it very useful for the introduction of 'subjects' and the prosecution of work away from the dangers of popular prejudices and inquisitiveness."
But to return to Hunters life. Although as yet he has found little favour with the public, in the scientific world his eminent ahilities now command respect, and it is to the credit of the Royal Soclety that he was elected a Fellow in 1767, at a time when be was poor and little known apart from anatomical work. The following year, again through his hrother's influence, he is elected surgeon to St. George's Hospital. One last henefit he obtains from that elder brother, when Dr. liunter gives up to him his house in Jermyn Street, after moving his museum and school to a more
spacions house in freat Windmill Street. This change was made in 17\%0. Thus we find John IIunter, at the age of 42 , acquiring that success in life which he so well deserved, living in a large house in a situation favourable for practice, surgeon to a hospital, and a Fellow of the Royal Society. His income is further increased by taking resident pupils (of whom the afterwards celebrated Edward Jenner is the first), and in 1771 he marries Miss Home, to whom he had been engaged for some rears.
From the time he left the army till this year, when he published a treatise on the teeth. there has survived no paper from lis pen; but he doubtless was. by his laborious dissections, laying the foundations of many of his future researches into the study of life.
When 40 vears of age he began to suffer frum gout; and at the age of is he had his first attack of angina pectoris, during which his pulse could not be felt at the wrist, and his respiration was, according to his own account, only carried on by voluntary effort. This was the first indication of ossified coronary arteries, to which he succumbed twenty years later during a fit of excitement.
John II lunter's first paper before the Royal Society was communicated five years after election, on the suggestion of the President, Sir John Pringle. It was on Post-mortem Digestion of the Stomach, a subject that brought him into court some nine years later as an expert in the trial of Captain Donellan for the murder of Sir Theorlosius Broughten. To the legal mind, which requires a positive afirmation or denial of every question, Hunter's evidence appearerl worse than useless. He could not be induced to give any opinion that his knowledge of facts would not warrant, and this caution (which is characteristic of a plilosophical mind) hrought down upon him some serere and sareastic remarks from Mr. Justice Buller, who presided at tho trial. It would be impossible for me to notice the many different contributions to biology. physiology, and pathology from llunter's pen; but this may lee said of all, that they invariably indicate a mind trained to exact observation, ever on the search for truth; and, where possible, observation is always supplemented by experiment. Over what a wide field he travelled will be sufficiently indicated ly naming a few of them: Observations on Animals and Tegetables with rerspect to the Porrer of Producing Heat: An Account of Certain Receptacles for Air in Birds; Proposals for the Recorery of Peopte apparently dromenell: Olservations tending to shme the Wolf. Jrekal. and hog are all of the same Species: Some Ohserrations on Lnose Cartilages found in Joints: Observations on the Structure and Exomomy of Whates: Observations on Bees: Obserrations on Fossil Bores. These and many other scientific papers were written whilst he was a surgeon and lecturer at a hospital and occupied more or less with private practice.

As a lecturer he appears never to have been a great success, not simply on account of his difficulty in finding words to express his riers, but because he dared never make any statement beyond what his facts would warrant, and consequently never spoke with dogmatic emphasis. The difficulty appears to have been felt as much by the teacher as by the students, for one biographer states that "the task was so formidable to him that he was obliged to take thirty drops of laudanum before he entered the theatre at the beginning of each course," and, as a result, 1 imagine the lecturer and class must lave gone to sleep together.
His friend and pupil, Ed ward Jenner, had now settled at Berkeley in Gloucestershire, and Hunter enters into a correspondence with him, which is full of the ideas which are occupying his mind. Ife thus stimulates his friend to exert himself in original inquiry, and asks his assistance in obtaining specimens for himself. Tho following is a typical sentence from one of these letters: "I want you to pursue the experiments on the heat of the hedgehog this winter, and if you could send me a colony of them I should be ferret canght the other."
Hunter's fame as a surgeon is now rapidly on the increase. In 1776 he is appointed Surgeon Extraordinary to the King, and his pathological labours begin to excite a mixture of admiration and enry. He commenced to erect his museum in Leicester Square in IV83, as the house he lived in would no longer hold his numerous specimens, and the new premises were completed in 1785 , the year performance of his operation for aneurysm.
In the spring of this year he is seized with a very severe illness, accompanied by cerebral symptoms and a number of curious secondary sensations, from which he imperfectly recorered. After this date any exercise or mental emotion was apt to bring on acute spasmodic agony, but his work was by no means fimished, and he laboured on.
In 1786 he was appointed Deputy Surgeon-General to the Armr. and he soon after published his work on the Lues Venerea. This work shows much philosophical reasoning, but he falls into two serious errors: one that two diseases cannot exist in the body at the same time, and the other (well known as the result of sacrificing his own bodily health to experimental inoculation) that gonorrhoea, chancre, and soft sore were all the result of one poison. In spite of these errors, his description of the hard, or, as it is still called, the Hunterian clancre, is as true now as then, and with its signs well developed secondary symptoms invariably follow. I will quote from this work to show how wide was Hunter's reasoning: " Nature," he says, " has not been able to apply any one part to two uses with advantage, as might be illustrated in many in-
stances in different animals, sath for different animals. The animals whose legs are contrived both for smimming and walking are not good at either, as seals,
otters, ducks, and geese. The animals, also, tended both for geese. The animals, also, whose legs are ineither, as the bat. The same observations are applicable to for for the flying fish neither swims nor flies well, and whenever parts intended for such double functions are diseased, both are performed imperfectly. This is immediately applicable to the urethra, for it is intended as a canal or passage, bot h for the urine and the semen. The urine requires the simplest of all canals, and of no greater length than the distance from the bladder to the external surface. as we find the urethra in women, birds, the amphibia, and fish; but the passage for the semen in the quadruped requires to be a complicated canal, and of a leugtly capable of conveying the semen to the female, provided with many additional and necessary parts. as the corpus spongiosum urethra, musculi acceleratores, Cowper's
glands, prostatic are to serve the purpose of gencration, and as the disenses of the canal are principally seated in them, we at once see how much the urinary organs must suffer from a connection with parts so numerous and so liable to disease: and what adds to the evil is that the actions of the urinary organs are constant and absolutely necessary for the well-being of the machine, whereas tbe eracuation of the semen takes place only during a certain portion of life, is then only occasional, and never essentially necessary to the existence of the individual."
In another place we find him, with philosophical fairness, framing an apology for the exaggerated praise with which Daran introduced the use of the lougie: "Such extravagant recommendations of particular remedies," he says." are not at all times without their use. Inoculation would still have been practised with caution, had it not been for the enthusiasm of the Suttons. Pre-
paratinos of tead would not have been an universally npplied, if thes had not hern reenmmented hy (inutard in the most extravafant terms; unt would the heminck have enme into such general fise, if its true merits only hatl been hatel forth. Improvements are nften ower-ratelt; but they enme to their true value at last. Sutton bas told the that the entd regimen in extreme is inllnitely hofter than the old method: but fromgeneral practice we have learned that maderation is hest, whieh is all we yet koow. When hitraa publiched his niverrations on the longie, every surgeon set in work to liseover the compmeition, and eath enneeived that he had found it out, from the lonigies he hall made producing the effect discribed by Daran. It never necureal to them that any extraneons boly of the same shape and consistence would in the same thing."
In spite of the ermrs to whieh I have alluled. this work did much good service, for it was an honest endenvour to free an uninviting lianch of surgery from the monstrous quackery with wheh it was then assoeintell, und from whieh, even in mur day, it eatunot be ensiditred to be absolutely disentangled. The same year that hi" pulvislied this work, he reemverl the Copley Medal of the Royal Society, ant he opened his musum in Leecester Square. In 17.9, he is appointed surgenn-fimeral and Inspector of the Irmy, and he has a rather sepere illnsse, accompanied with cereliral symptoms. The attacks of angina now beeome frequent; vet, in the year hefore he died, wee find lim printing his great work on the hond and inflammations: and he is at work framing a catalogur for his muscum. So well dill he know his dangers, that he neen frequently to say "his life was in the hands of any *coundrel who chose to phe him in a passion." The sudden death he had so truly predicted actually took place in St. George's llospital, in 1793, when heretirect from a meeting at which he had benn olpmand in dis, in an atljoining ronm.

Such was the life of 1 lunter, a life of intinite labour. Yet, what surprises $h^{2}$ most is the immense amount necomplished in so Fimitell a spance of time. For the first trenty years camnot be cuantel as part of his mental life. This was a perion of mental quineunce. Then followed ten years of arduous preparation. resulting in illness, and the rest of his clays he works on with lueroie fortitule, under conditions of health that would have determined any other man to hare relinquished all ideas of fame and fortune, and to have retired to a life of rest and obscurity. Duriug the last twenty years of his life he was subject to attacks of agonising angina, and no one knets better than he what dangers to life thiner symptoma foreshadowed. Yet, with a perfect knowledge that nny sudden emotion might result in immediate di isolution, hel labours on to the very end. Truly this was a courageous life anding. like the soldier's on tho battle-tield, in leroic death. Ile might well have said, with Cesar:

> Cowardo hie many rlmee he fore their deat hs:
> The all hat wors that I et have onrd
> Of nil the wome ers that lyet have haral
> Soming that thath, , nereesenry enct,
> Will come when it wift conte.

Let us entea your now to traer some of the distinguishing faculties of this master mind. In many qualities John Hunter resembled his elder brother, whilst in nost he surpassed him. In "hoth there was the same insatiahn" Inve of eollecting: which was nit coufined to nljucts of 1 renfecsional or avem bionologieal in$t$.rest, hut estendind io coins. pietures, armour, or indted nnything out of the common. In hoth therr was the aame industry, persicyernoen and love of original research. In both we trace the same self-will and integrity. enmbined with a joalous determinatiun co detend any weronchment upon suppmeted or aetual righte. This jealons eare biver the fruits of their hatours ands "tentually in an amerangement betwern the two brothars. which is onty healed when the edder is on the point of deatlo. Much as it was to ber regrettinl, it probatly arose from the natural antagonism of the amp thalition in each, rather than from any actua) rivalry. Lastly, wh find that the study nf life and of denth, with a view of bytitn their fellows, was the nne overrulin's passion in thes mind nf enche
It may bue whinerrasting speculation how murh of Intin Junter's cmint was transmitted to him by his parcuta, and how much wns dur to the inthernce of his eldere hrother. I think we must recognise hoth these factura as conerihuting to his shecess. The chase restmblance we have traced in many of the mental attrinuter of the two hrothers indieates their origin from a common stnck, as clently, perhaps, as any resemblance in their fentures. It was the older hrother, William, who friat diacrivered for himaelf
that the study of life was the direction in which his mind felt the grentest plensure, and he bad alvanced far along the road of science before Johu attempts to follow him. But when onec John is brought under lis intluence, ho suddenly develops a thirst for knowledge whieh is in extraordinary contrast to his former indifferchee. It can only be compared with the inoculation of virgin tissue with somo virulent poison, or, what we now begin to regarel as a similar process, the fermentation of some minuto fungus in its appropriatu nidus, 1 lis love for scientifie research grows into a raging lust, which governs his whole future, and eanses him to sacrifice both wealth and health in its pursuit.
All here will pasily lring to mind a parallel between two brothers now living and the two Ilunters. I need not mention names, to reminut you of an elder brother, distinguished in medicine, who has been more than equalled ly a younger brother who hins devoted his life to the science and art of surgery:
John lifunter married nbout the middle period of life, and had four children, two of whom grew to udult age, but neither of these left issue. Although Gulton has attempted to trace hereditary genius, his olservations would tend to show that it is more likely to make its reappearance in sille-heirs than in the inmediate offspring of great men. 1 have often thonght it, a pity we cannot slip geninses as they do rare plants and shrubs. The children of highly intellectual parents are too often the outcome of mental and physical exhaustion, and the race becomes, weak, erratic, or extiuct. Doultess great cities, which are the hotheds of intellect as well as of vice, are largely responihlle for this degeneration. As Emerson puts it: "The city would have died out, rotted and exploded, long ago, but that it was reinforcell from the fields. It is only country which came to town the day before yesterlay that is eity and court to-day." The proper children of great intelleets are the intellects of thieir pupils rather than those of their flesh-begotten offspring. Traced in this way Ilunter left many eliildren, and his race has spread far ancl wide. It must never be forgotun that Edwaril Jenner was his most intimate friend and pupil, and the Hunterian mode of thought developed in Jenner led to the immortal discorery of vaccination. What inestimable benefits have accrued from this discovery ty a child of Ilunter may be gauged by the foolish opposition that immunity from small-pox has enablect agitators to develop ngainst the Vaecination Aet. I would the antivacinators would lake to heart Punchis parody on llamlet:

> To varcinate or nut? - That. is the question;
> Whether tis betcer for a man to suffer
> The painful punys and lasting marks of small-pox,
> 解 tare arms before the surgeon's lancet. twd he her
> To feel the tiny print, and say we ent
> The chance of miny a thousaid awful sears
> That tlesh is hrir to, tis a consummation
> Devout ty to be wished. All? soft youl now-
> The vaccinator! Sir, upon your rounds,
> Je my poor arms remembered.

But not Ilemuer only, but Ilome, Cline, Astley Cooper, Abernetlyy, Travers, and Blizard were Hunter's intellectual descendants by direct contact, and they have handed on his teachings to thoso known in our own day.

What was there in llunter's mind that made such great men his apostles, and led all sulsequent generations of surgeons in regard him as a guiding star in surgery? If we inquire what improvement, that might be regarilel as an invention, he added to tho art of surgery? the answir comes at once: the Hunterian operation for anelirysm. Aearly every great surgeon derises oue newe operation, to which his name is apt to hecome attached; but if his reputation depermeed on this alone, how little would be his worth.
Hunter was the first to perform the operation for the cure of anenrysm by ligaturing the artery, on the proximal side, at a distance from the sac. Astley Cooper's mame is associated with in bold attempt to ligature the nortu, but his reputation rests mainly on his philosophical work On Fractures and Dislacations. Listers name is associnterl with a not very successful method of excieing the wrist-joint, but his fane will be handed down by his scientific investigations for the protection of wonds from extornal influence, which resulted in tho "antiseptie system." Even I, who do not deserve to be mentioned in the same hemis, hare with such men, have performent one operation of which a small mind might he pront. 1 allude th a ease of total suppression of urine lasting five days, which 1 relieved when the patient was in extremis by eutting down on the one remaining kidney, and removing a stone which was plugging its nutlet. This patient, two years and a half
after the operation, remains in perfect health. But such dy yances in operative eurgery, thoigh of importance to the world as tending to preserve life, will never alone serve to support-a great reputation. Hunter was far more than a mere operation-inventor; though this, when it can be shown to have heen deduced from pravious observations, is not a thing altogether to be defpised. He was far greater than this.: Ho was above all the greatest surgical philosopher that every lired. He was constantly searching for nows facts, and adding to his museum preparations rhielh acted as $a$ kind of index to those facts; and from these facts, when accumulateri in sufficient numbers, he deduced general lawes. Thus he Whrked a revolution in surgical pathology, and he raised the science of surgery, from the doubtful position that it occupied lefore his time to a level with the sister seieuce of medicine. Over what a desert the river of his thonghts lias since flowed! How many diseases and deformities, then thought to be incurable, hare since been brought within the range of surgical relief! The old lumber room filled. with incurable diseases and misunderstood pathology, that was left to the care of medicine, has since been ransackedi over and fonnd to contain much that surgery conid relieye or cure. Within our own time the kidney has become a surgical organ, the gall-hladler has had to yield up its obnoxious stones to the captivating influence of, the surgeon's knife, the stomach and intestines, the lung and even the brain itself, have in tura been bronght within the range of surgery:
To aid us in our labours, two great disceveries have been made since Iunter's time "the introduetion of chloroform, which makos operations painiess, and the use of antiseptice, which renders them safe. But in spite of all the great adrances made, since lis time, Hunter's name and Hunter's fame shine through thera all. So far from detracting from the merits of his labours, they simply, add lustre to lis achievements. But wive must not be deterred by the contemplation of his greatness from exerting sucla talents, as we may possess in the humble sphere, that we may accup5.1 Though it is allowerl to few kike Hunter to tonch, immortality on this side 0 eternity. yet let us, take courage in the thought that there is nothing in Nature. however minute or obscure, that has not some power over its immediate surroundings. With this thought, let me close my address in the words of a philosopher h have already quoted: "MI things, are engaged in writing their history. The planet, the pebble, gocs, attended by its shatiew. The rolling rock Leaves its scratches on the mountain, the river its ohannel in the soil, the animal its bomes in the stratum, the fernand leaf, their modest epitaph in the coal. The falling drop makes its soulpure in the sany or stone. Notia foot steps into the snow, or along the ground, but prints, in claracters moree or, iess lasting a map of his march. Every act of the man inscribes itself in the memory of its fellows, and in his nwn mamers and face. The air. is full of sounds, the sky of tokens, the ground is all menoranda and signatures, and every quject covered oyer, with ,hints which -apeak io the intefligent.

## CLINICAL LECTURES

 ax $n$ noy
## DISEASES OF THE NERVOUS SYSTEA,


Plysician'to the West minster Hospital: and to the yosplitil the tailepsy ni
lécture IX.-Sexsory Apilista.
Tuie mhuifold forms of aphasia have been variously classified by diferent nuthorifics. The comparative claim of the diverse divisions' fo the sinbject it is at present unutecessary to discuss, if milr he consenient in this lecture to redgard the disorder simply from a duil nspect namely, from the influence the sensory or in etbrerenients of the neerrous system have iit its productiou. Intemectual ling ciace taken in it flond sense, is the medium Ahrótht "Whicly individuals"intercontmuicate "This, may be uffected in a rariety of ways, but is chietly carried on by, means
 of these, a double attribute mist enist': first, we have to apprecilate and unclerstand the hidications given liy oir neighbours: and, secondly, we have in turn to convey our thoughts and purposes to the . As a kiowledge of the former is deried through our senses, the collective phenomena iurolved in its produftion
may be called the ingoing; impressive. centripetal, orf in-simpler terms, the sensory function of intellectual language. on the pther hand, the latter, which, as a rule, is accompanied by the performance of a muscuilor act, may be named the outcoing, expressive, centrifugat, or the motor function of spechi: Each of these sensory and motor functions is represented by a correspmonding special nervous mechanism; which may hecome diseased and give rise to a characteristic disorder of speech, and which masy for convenience, he: termed respeetively sensory or motor aphasia That form of aphasia which resulte from interrupted functional aetivity of the motor uervous elements ineludes disorder, not only of speech, but of writing and gesture; in short, of all those means by which an individual attempts to convey his wishes or thoughts to another. Each of these modes of expression is presidrd over by a complex system consisting of muscles; rerves, and centres in the cord, medulla, and cortex, which may he independently deranged, or lost, and, ily conseguence, aphonia, agraphia, or amimia, is iaducel. , These varieties on so-called aplasia are of tolerably frequent occurrence : they are, as a rale, capable of eady recogrition, and so many instances have beer recorided in medical literature that their existence has been amply established.
-The condition of what has been termel sensory aphasia is much more complex, and uncomplicated examples are of, much less frequent occurrence, It is through the senses, and especially, through thinse of bearing and sight, that the faeulty of intellectuat larguage is accuired, and by: which it is orgenised in the individual. The association of the senses with the acquisition of aperchis effected by certain nervous elements, including the organs of 'sénse, rarious conducting media. and ceptres in the medulla and cortex cerrebri. By sensory aphasia; therefore, is understood the. cesults of interruption or disease of any of these centripetal, paths or centres which induce an imperfect appreciation of language or its symbols, and, which, as ac consequence, may indireetly lead to disorder of the faculty of expression; In addition to the sensory organs themselves and the cemplex nervons arrangements which conneat them with, the surface of the, brain, there, must be other 7 and more extensive serebral stiyctures engaged in the acquisition or formation of spefch. "These stuply what has deen termed thie upperceptive faculties, or the mental, attributes involved in the zrocess of human intercourse or commonication, the exact nature and locality of which is not accurately datermined. Therefore, on the sensory side aphasia may arise either from disease of the centres associated with the senses themselres, and especially those of hearing and sight; or with a derangement of -the nerve elements. whinterer, and wherexpr, they, may be, which preside over the socalled apperceptive faculty $y$; This results in what has been:termed respectively word deafnees, word blindness, and womel forgetfulness, or terbal amnesia, each being due to disardep of the special nerrous puechnism which originates and regulates the corretsponding function Uncomplicated examples of these forms of sensory yphasia are rare; accordingly, I now demonstrate an ilInstrative cike of each.

1. Case of Thord Blindness,- - I. In, aget 52 , shipwright. This patient complains of, blindnese to the righit side of both eyes, and although on the left he can see fairly rell, of inability to real or umperstand written or printed worids, He, states that his family history was nnimportant, that he, nover had suffered fron s.sphinis. and that he had always befn a temperate-man. For, sube yearo hefore he cente under o 5 servatiou lie lagd complainel of indesinite pains in his fower extresuities accompanifd witl, general malaise. neither of which, hopworer, had incapacitated bim from works IV, ith these exceptions: hejwas in, all respects a healthy man till some twenty months befofe cxamination, when one day he suctdenfy fell down duconscipus, and remained so for ahout an hoar. Ite did not know. whether or not he was ponrulsed. isoon. aftem this attack he, reguined his fermer conditiou ainl returned towork. but lie, fancied that hiss right side waṣ vealier than before, and that his eyesight was, not so good as formeriy. Ile, however, continnel at his ordinary ócupntion till fire monthe before saming under obseryation . when, he guadually became inco pacitated from gididiness, anid slowly inereasing inability to rend.
On examination lie is, found to be a rolust, and healt hy-looking mani. The organs and furctions are normal, except, tiose about to he, tnentiouedif There is nowilhere any signt of paralysis or tremor. but there is a suspicion that the power of the right, side is slightly impaired : but if this is so it is scarcely noticeible. Both knee-jerks are somewhat exaggerated, especially on the right side. and here also there is imperfect ankle clonus. Sensihility is everywhere normal. The ressels throughout are somewhat hand and
ortuous. Vision is stated to bo defective. The pupils are 'equal and normal; there is well marked arcus senilis; the moremente of the eyehalla are natural. Investigation ehows the presence of well markerl hemiopia in bath eyes on the left side, and especially in the right cye, thus inducing right homonymous hemianopsia. (Circumstances unfortunately prevented a complete perimetricexamination.) The dises of both eyes are somewhat grey and illdefined, but the fundi are otherwise normal. The patient is very intelligent, and gives an nccurate account of himself and his illness. Ho says that he thinks his memory is not so retentive as formerly, but of this there is no definite proof, as ho seems to remember all the circumstances of his life, and to intelligently describe them. The articulation is distinct and natural, and there is no trace of thickness or hesitation in speaking. The patient expresses himself in language unusually apt for his station in life, his choice of words is that of $\Omega$ man of education, and his words are delivered with case and facility. IIo is somerhat deaf on beth sides, but this is due to a chronic catarrhal condition of the ears. When spoken to loudly he understande everything that is said, and responds by appropriate answers in a perfectly rational manner. The patient cannot read a single word of written or printed matter. This is not from inability to see, as he names all individual letters correctly, the vision on the left side of both eyes being fairly good. Although lie names every letter without mistake, he is unable to tell or understand a single rord, no matter how short, unless he spells it out aloud like a child learning its first lesson. For example, when shown the word "cat," he cannot read it, and does not understand what it means. When, however, be spells it out c a $t$ aloud, he at once says "cat," and recornises the meaning of the word. The same occure with all words of two, three, or even four letters. With longer words, when they are spelt ont, he is doubtful and uncertain, and frequently makes mistakes in naming them. With very long werds, such as "Constantinople" and "hippopotamns," although all the letters are read in turn, the patient gets confused, and either miacalls them, or altogether asserts his inability to name them. It may also be mentioned that he cannot even read his own name. This difficulty in reading applies equally to writing and print. The patient, although he cannot read a single word, can write a letter like any educated man, and his landwriting ia excellent. He can spontaneonsly indito and write anything he desires with as much ease and facility as formerly. I asked him for example to write out for me an account of his case. IIe did so in a very intelligent manner, giving a fair history and description of his complaint, and did nut make a single mistake. On showing him his own letter he is unahle to read a single word of it, and can only make out the shorter words by spelling them over as he does with print. When asked to copy writing or print he does 80 with perfect accuracy, but viry slewly, letter by letter. Printed letters he transcribes into witten characters. IIe does not understand what he is copying unless he spells the word out loud. His writing to dictation is without fault. He can read figures correctly, and his powers of arithmetic are seemingly intact.
Remanks.-This casc is an example of pure word blindness, as, with the exception of the homonymous hemianopsia, the man may be said to have little clse the matter with him. On the left side of both eyes vision is practically normal, so that the inability to read is not due to an ordinary defect in sight. The patient recognises and names individual letters with facility but cannot underatand or pronomnce even the shorteat words except by epelling them olt aloud. While totally unable to comprehend written or printer language the remarkable fact remains that he can put his thoughts into writing without any difficulty, but immediately after he is unable to read a word of his own composition. In short, his intelligence is normal; he can express his ideas in ppeech and writing, and he retains the power of understanding spoken language and of recognising individual written characters, but he has lost the faculty of appreciating the meaning of composite symbols, and the visible signs of words fail to revive in consciousness ideas previously connected with them. As regards reading, he is in the position of a child who can speak and who can understand all that is said to him, who, while he knows his letters, has not yet learnt to recognise the smallest words, until he lahoriously spells them out aloud on as to appeat to his sense of hearing. Ile is also like an ordinary inslividual in regard to a piece of music, who, while he may he alle to sone or recognise thr namo of each printed note. is unable, like a practical musician, to feel and appreciate the harmony at which he looks. Tho resemblance to the child and musician
is not, of course, in all respects complete; beenuse thls pditienit cah exprese himself in writing, which neithet of these could do. This case constitutes an interesting example of dissolution of tho faculty of reading by disease, in which the most early acquired, and, therefore, the most highly organised, functions remain, while tho later and less stably organiscd have been destroyed. Aa Dr. Ross aptly puta it, "In partial diseases of the nerve cextres the latest erolved structure is the nost liable ta injury, The ilitrods to disease conform, beth as regards structure and function, to tho law of diesolution, the mode of invasion being from the complex to the simple, from the special to the general." This man recognises and names letters, the most higbly organised symbola, while he does not know words, a faculty of later development, and, therefore, of lower organisation. While unable to comprehend the meaning of words by sight, he can, by spelling them ont aloud, name and understand them, showing that he drrives at this result through his auditory and inot through his visual faculties, probably translating the latter into the forimer. In matiy cates of word blindness, the power of recognising even letters is lost. Betmeen this extreme and the case under observation are various degrees, still further illustrating the law of dissolution. I have a man at present under observation, who, in addition to other ailmenta, is completely word blind, with the exception that be can read only his own name and the letters which compose it. When a heap of letters are placed on the table he can piek out all the g's, e's, o's, etc., composing George Smith, and leaves the a's, b's, e's, and other letters of the alphabet untouched. In short, his name and the letters of which it consists are those which have become most automatic and most highly organised, and these are retained in his memory, all the others having becn forgotten. The original patient under observatlon can express his ideas in speech and writing, and can write from dictation. When, lowever, he copies he does so letter by letter, without understanding what ho writes. If, however, he spells out a short word alond, he can thett write it down with a full comprehension of its meaning. This further shows that he translates visual into auditory impressions ; otherwise he only mechanically copies such letters, without baring any idea of the meaning of the words which they compose. No better example could be given of the remarkable phenomena of an individual who, while able spontaneously to indite and execute a well-written epistle, a few minutes afterwards is unable to read or understand a single word of his own performance. In this ease there is an absence of paralysis and all other objective symptoms except the homonymous hemianopsia. It is probable that the condition is due to interference in the function of the angular gyrus and its neighbeurhood on the left side, or to that portion of the cortex in which reside the elements concerned in the acquisition of written characters. This bas been partially interrupted, and hence, according to the principles of dissolution, while the knowledge of individual symbols in the form of letters is retained, the memory of their combination into words is lest. All the other faculties of intellectual language remain intact, which seems to show that the lesion is limited to this special centre. If the disorder was the result of a more diffuse partinl discase, by the same law we should expect that writing. which is acquired later than reading, would have been affected the first.
2. Case of Word Deafness.-Sarah G., aged 55, cemplains of inability to comprehend spoken language and to make herself understood by speech. Iler friends state that until seven meeka ago ahe had enjoyed cxcellent health, never having had a day's illness in her life, and that her family history was unimportant. One day about this time ahe slipped off the step of a tramway car in motion, and fell somewhat heavily on tbe ground. She was raised up, felt stunned and confused, but gave her name and address, and wae carried home in a cab. An hour afterwards she could not understand what was said to her, although perfectly conscious of what was going on around, and her speech also was noticed to be unintelligible; otherwise she did not appear to be any the worso for the accident. Next day she got up, physically apparently quite well ; but the inability to understand spoken language and to make others comprehend what she wanted by speech continued, and has remained so ever aince.

On examination the patient is found to be in every respect a hralthy person, with the exception about to be deseribed. All tho organs and functions of the body are normal, and there is nowhere any trace of paralysis. The superficial and deep reflexes aro normal, so also is cutaneous sensibility. The special senses are as in health, and hearing espocinlly is acute for all ordinary sounds. The patient cannot understand a single word of spoken language.

IIer friends aasert that they cannot get her to comprehend anything they say, but that she is very intelligent in anything which does not require language, and quick at giving and understanding sigus. Since her accident, she has performed all her household duties as before, with the exception of being unable to comprehend what is said to her, and to make herself underatood. If she wishes an article, she mskes signs which are sufficient to indicate her wants. For example, if she requires an egg she produces an egg cup, and peinta interregatively to its inside, and so on with everything else, and she is eapecially ingenious in making her desires known by pantomimic demenstrations. Her friends say that they cannot discever that she understands any single word apoken in her presenee, not even her own name. On examination, I cannot satisfy myself that she comprehends any word. When told to do the simplest set, if not aecompanied by any clue in the way of signs, the patient does nothing, looks puzzled, evidently understands that she is heing asked to do something, snd although anxious to oblige, fails to comply. The slightest hint in the shape of a sign is quickly interpreted. So great is her anxiety to succeed that she often does wrong things, simply because she fancies they are required. For example : asked to put out her tongue, ahe does nothing and leoks puzzled; question repeated, the observer looking at the patient's mouth, the tengue is at once protruded. Asked to shut her eyes, the observer as before locking at the patient's mouth. the tongue is promptly put out, and so on with all other actions, proving that the patient does not comprehend words if they are not accompanied by gesture or some visual indication, which latter she is very quick to trenslate. If several objects are placed on the table, and the patient given to understand that she is to give me what I call for, she never, exeept oceasionally by chance, hands the right one, if my back is turned to the articles. If 1 look at them, she often selects the right one, being, like the socalled thought reader, ready to interpret my glance tewards the right object. In shert, various tests all combine to show that the patient is incapable of understanding the meaning of any werd spolsen in her presence. The powers of reading and writing cannot be ascertained, as, unfortunately, this woman is uneducated, and has never been able to do either. The patient has no affection ef her vocal or articulatory organs. She talks with the greatest distinctuess and volubility, all the words themselves being properly pronounced and enuneiated withont the slightest hesitation or error. None of these, however, are à propos, but constitute an unintelligible jargon of meaningless stringz of words, all rightly pronounced, but, talren together, signifying nothing. She is always ready with this voluble and purposeless torrent of conversation, and is constantly making attempts apparently to explain her wants, or to reply to questions which she does not understand. The following is an attempt to deseribe what takes place. Doctor: "How are you to-day, Mrs, G. ?" Patient (with the greatest readiness, rapidity, and distinctness of articulation): "Yes, why ahould I not do, for really, you know, it could he." Decter: "Are you a hundred years old?" Patient (with the utmost gravity): "Well but then I will so, for why it is. No. Yes." And this goes on ad infinitum. She alse bursts out into leng spontaneous floods of the same incongruous speech, in which she is evidently trying to explain semething, and which often end by the woman bursting into tears. Although she does not know that the words she uses are wrong, she evidently appreciates the fact that she is incapable of making others understand her explanations, and is distressed in consequence. Not only is spontaneous speech loat, but the patient is unable to repeat a single werd correctly when prompted to Io so. As far as can be judged from the general demeanour, the patient scems to be intelligent, and she continues to perform all hier household duties as well as formerly. Her friends say that. with the exception of not understanding spoken language, and insbility to express herself in words, the woman is precisely in the same condition as betore her illness, and my own observations coineide with this opinion.
Remaris.-This woman, altheugh retaining natural hearing for all ordinary purposes, seems to be a case of pure word deafness, the accompanying paraphasia, or inability to express herself intelligently, being the result, not of any impairment of the motor functions of speech, but the secondary consequence of incapacity to associate the sounds of werds with their proper execution The motor mechanism of speech is intact, as evidenced by articulation being in every respect normal, and beeause a large vocabulary of words is pronounced in a natursl manner. These utterances, however, are not properly applied, and, therefore, constituta mere jargon. The patient evidently knows exactly what she
wishes to asy, and in response to this deaire articulates a copious flow of words, but she is incapable of applying them properly, and is ignerant of the fact that they are misapplied. Notwithstanding, as far as can be determined, the intellect is not affected, for although she cannet express her desires, and does not know whether her uttered words are right or wrong, she thoroughly appreciates the fact thst she does not succeed in making herself understood, and shows corresponding signs of annoyance. A auitable idea is apparent to her mind, but, when apoken, it is replaced by unfitting words unknown to the apeaker; the connection of thoughts with word images is so disordered, that, instead of appropriate terms, those of a totally different meaning are used. There is ample evidence to show that not a single word is understood by the patient, who, however, is very quick to appreciate and express herself by gesture. In pure motor aphsaia the sensory side may remain intact, 80 that a person who cannot speak is able to comprehend what is ssid to him. On the other hand, when sensory aphasia exists, the motor side is, as a rule, secondarily involved, although in itself unimpaired, and paraphasia results. as in the present case. An individual who cannot understand spoken language must, as a consequence, be unable to speak it, because he is incspable of mentally recognising whether or not his efferts to do so are correct; hence the volley of words in response to a desire to speak, all of which are in themsel ves perfectly articulated, and conatituting an extensive vecalulary, but in no way expressing the meaning they are intended to convey, the patient all the time being ignorant of her failure to succeed. Hence the inability to express thoughts in intelligible spoken language, and even to repeat words when required to do so. It is a disputed point whether in such a case as the present intelligence can remain intact. Abstract theught, it is maintained, is the outcome of language; snd as this hss usually been acquired through the as well as external if the organs of these are destreyed, internal thought interfered with. The congenital deaf mute posseulty of faculties of thinking intaet, because he has cultivated idses his powers of reasoning through other sensory channels. Wita an ordinary person, however, when the anditory centres are suddenly deatroyed, there have been nosuch opportunities for developing these accesscry paths; hence the belief that abstract thought must in eonsequence be disordered. A decision on this peint is one of great difficulty, eapecially in uneducsted persons, as in the case of Sarah G. It can only be aaid that no evidence could be produced to show that the mental powers, so far as they existed, were in any derstaud and be understood ahe exception of her inability to unwell as before ber illness. As a person who is werd deaf is so as times able to underatand printed or written language, th s someto be no reason why the reasoning faculties should net beem cised witheut the aid of internal auditory impressiens, exertranslated into some other sensory channels. It is also possible that the power of abstract thought having once been acquired may he retsined, even without the use of werds. In this case there is no paralysis or other objective complications, and, therefore, the lesion is probably a local one, involving those centres presiding over the faculties for the appreciating of the auditory perception of speech. These are believed to reside in the superior temporal convolution on the left side.
3. Case of Word Forgetfulness.-William 11., aged 70, a distinguished divine and author. This gentleman belongs to a gonty family, and has himself had oecasional slight attacks of that disorder. With this exception he has been in every respect healthy all his life. He has led a very active life, both physically and intellectually, and has been well known as a man of exceptional mental capacity. For some years past he has been suppesed hy his friends to hare gradually hecome very "alsent-minded" and mangetful," and latterly this has reached a high degree, in the and his intellectusl faculties are said to be in health remains good, On examination the gentleman (fer he is not a patient) is in remarkably good health and vigour for his years. All his organs and functions are normal. His vessels are somewhet rigid and tortuous, hut not to any great extent. Mr. MI. is a highly-educated ant in:ellectual man, and takes the grestest interest in his own case; and thus, altheugh his powers of verbally descriluing his condition are limited, the main facts esn be esaily elicited by means of cross-examination. Ilis chief, and indeed only, complaint is that he has forgotten the use of most words, "nd mpecially of nouns, places, persons, etc. From him it is elicite l'that
ho consiters his intelleetual facnitics watbe as geod as ever they rrere, and his reasoning powers to be intact. He can recall every object 'in his nuind, but has simply furgotion the name of it. and of voluntarily, repreducing it cither in spenking or writing. Ffforts, therefore, it spontanenus consersation or expressing his thoughts on paper are seríously impaired. Ilearing and sight aro as goal as in 10 nst nen of his age, and he unterstands spoken language and printed or written matter as well as ever he did. Althongh spontancons, writing is impuired, that to dictation is natural, and he cophits with. perfect ense; and his articafation and handwriting are perfectly normad. EOn ittompting ,td read ulom his efforts are very inuperfect, and words are mispronounced: The meaning of theitext is maderstood, ant: he knows when mistakes ure made, His thlliculy consists in, haviug forgotteis his own language to n ereat extent, and he is exactly in the condition of a man who, having formorly: been a proficient in a foreign language, lias lost, the art of speaking or writing it. although retaining the power of cunderstanding it when reminded of it cither by courersation or literature. In this'way he cannot solmatarity repent or write hardly nny: noun and mony other words. Ite generally camnot tall his own name and age: not that the has forgotien them, hat that he canuot recollect their verbal representatives, Ito has. forgoten, as a rule, the names of his wife and children, and therefure, it need scarcely be said, of everything belonging to him. Many verbs nud other parts of speech are also not remembered, and it may, therefore, ensily be supposed that his powers of expressing his thoughts are very imperfect. This failure to express himself is always most marked when he makes the greatest efforts to remember nnything, or when he is especially anxious to make himself nnderstood, At other timus, when. listening to general conversution'which he maderstands perfectly, he frequently joins in quite a propos, using appropriate language, in short sentences, as it were automaticnlly, for, if asked to repeat what he has just said, he is unable to do so. For exnmple, at dinner, the conversation being on polities, of which he'is a kean follower, and to which he had been paying intelligent attention, he suddenly exclaimel, "We will never have peace till theso wrotehed Radicals are kicked out." Wheu pointedly akked what be had just said, he was totally unable to repeat it, atthough he perfectly recollected the natwe of his remark, as evidenced by the fact that, when it was repeated to him, he nocknowledged it to have heen corret. In short, conversation with him is a slow, laborious, and ronndabout effort to try and express himself, in which nenrly every substantive and many adjectives and other parts of specell arelleft out. Not only are words not forthcoming at will, but, when produced involuntarily, they are often distorted, very much after.the fashion of Mrs. Malaprop: of which mistakes, however, as soon as they are made, he is perfectly conscious. Ile might say, for example, "constitutiom" for "constituency," "illiterate "for "literary". end "phosphoregcent" for "philosopher," and so on. Voluntary attempts to express his idens ure, therefore, so imperfect, eithor in speaking or writing, that the effort only makes Mr. If. annoyed and depreseed, as ho ir perfectly conscious of his fuilure. For the most part lie rimains silent, and passes lis time either in listening to the conversation of others, which he perfectly understands, or in reading books, of which he is an inurdinate lover.

Iemanks. -This example of sensory aphasia is untike the two others, inasmuch ad the individual comprehends bath spoken.and written lagguage, and has forgoten meither idens nor things, but only faile to remember their names and the words which represenied them. Its is, in short, incapablo of spontancously reviving and reproducing liy means uf speech the thoughts which exist in his mind, but he reengnises these when they ure reproduced to him through his car or eye. It is not an instance of mere loss of memory, becnuse thore is no ovidence that either events or things are forgotten. All that is wanting is the spontaneous power of putting them into words. Although this exists to such a degree as tus render volmontary ronversation almost inguossible, connected sentances and appropriate observations are often made involuntaritr in conversation or unler emotion, which sume remarks incmediately afterwards camot be raproduced nt the wish of the patient. If these are bupplied hy another person he can at once repent them. Here the centres associated with the auditory and vianal verla) mechanisms are apparently intact. There is a disnrder of some higher structures in the cerebrnl organism, tho failure of which prevents a spontaneous revival of names or worls, although the ideas thoy ruprosent remain. Here again it may be questioned whethce an iodividual who ennnot voluntarily
recall the names of things even in internal speech, can retain his full intellectunl sigour and bis power of abstract thought. In this case there is no positive evidence, that either of these is in any way offected, and the pationt himself, while perfectly conscions of his preuliar failing, maintains that his reasoning faculties are nampaired, althongh the power of expressing them is so imperfoct." As hes been already stated, it would appear that ideas once acquired may, remain independent of words, although, doubtless, withont them, or some other form of sensory impression, they never would bave been oblained. If not produced spuatancously, they cun-be rovivified both by spoken and written signs from - withouti. The patient canuot think aloud, but silent thought remains.r If. any impairment of intellect or memory for things exists fwhich is alwrys difficult to letermine, in ;such cnees, it certainly is in no proportion to the loss of memory for words. Whether verbalamnesia can be localised is a matter of speculation, and we have as yet no positive information on the subject. The percentive eentre is probably a union of all the sensory centres. Perceptive conceptions and abstract thinking have all probably differentidevels of development, and degrees of directness, one or more of which may be specially affected. It might of course be maintained that the loss of memory for certain words is only the symptor of an incipient general mental failure. A study of these cases, however, suggests that the faculty of memory, for words las some more or less spécial position in the cerebral hemisphere, and there is no necessary relation between its loss and that of iutelligence.

## WHAT IS A STONE IN TIE BLADDER?

> BX SIR TIENRY THOMPSON, F.R.C.S., M.B.LOND.,

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At a lecture which I gave at University College ITospital in No--rember last on the subject of vesicul calculus, embracing a sketch of the physical and chemical characters, frequency of appearance in regard of age, etc., I observed that it was becoming desirable to consider the question, "What is a stone in the bladder?" When there was only one method of removing it, and that by the knife, there was rarely airy doubt in offering a reply; but with our present facility for removing small formations, the term is sometimes doosely employed. By way of endea vouring to define it in a sense which may commend itself tothe judgment of surgeons generally, I suggested that we might still retain a practice followed by our predecessors, which may bo.thus expressed. Any calculus which can be by "any means removed entire'through the urethra, including one impacted therein and removed thence by the knife, cannot be ndmitted to rank as a vesical stone, nor cau such an operation be regarded as ane for stone in the bladder. And I added that-for those which are crushed, only formations of a certain weight can be fairly deseribed by the word "stone,"
It was indeed for the express purpose of distinguishing the various small formations from "stone "that the terms "gravel" -and "concretion" have breen long employed.

I little thought. however, that so apt an illustration of my remarks would inppear us that presented by a paper entitled "A Hundred Cases of Stone in the Bladder," by Strgeon-Major I'. J. Fruger, published in the Jotraxas. of December 2th. 1 have purposely waited, some weeks in the hope that someone else might raise this question, and I now write with much reluctance as a matter of duty, lest, a precedent should be established which I think it is very undesirable to follow.

Among the hundred eases of stone thus reported, I obscrie no fewer than a dozen cases, the largest of which does not exceed 12 axains, and this not merely in children, for ten of them are adults. But what is more remarkable still is that a tiny concretion weighing only 2 grains is twice reported us "a stone" in the adult bladder, as are also two of 3 grains each, besides others of 4 nud 5 gruins respectively. Indeed, the total weight of the "Atoups in the bledder" for which in eight adult cases ".the uperation of lithotrity" lias been performed nmounts to no more than 37 groins, an average of nbout 4 grains each, the total weight of the eight being only that of quite a small stone. Such tiny pro-
ducts are easily removed for the most part by washing out the bladder, from which indeed they usually escape spontaneously. I nuppend outlines of the exact size of sucl concretions, scores of which now in my possession have been so removed, and which it has never occurred to me to regard or to rejort as cases of stone in the bladder. I may add that exact outlives present to the eye an idea of magnitude exceeding that conveyed by the body itself, as anyone may observe by placing one within the outlines given.


$$
\begin{aligned}
& \text { 1. A concretion weighing } \frac{2}{2} \text { grains. } \\
& 2 . \\
& 3 . \\
& \text { 4. } \\
& \text { 4. } \\
&
\end{aligned}
$$

Thus in my cabinet of calculi, now numbering abont 950 cases removed by operation, with the history of each appended, there is not one weighing less than 20 grains, and I have never accepted or reported an example beneath that weight as a "stone." I have crusled many from that weight downwards to 5 or 6 grains, and had I so regarded them could report at least 1,100 cases instead of 950 . I still renture to think that most of my brethren will agree with me that 20 grains is the very lowest weight, in the adult, the removal of which should be esteemed an operation for stone in the bladder. And in chronic prostatic retention cases, where the phosphatic concretions so frequently and so rapidly form, I have nerer recorded anything as a stone which has not reached at least half a drachm.
There is another aspect of the matter, too, which camot be lost sight of. I think that it is very undesirable, from more than one point of riew, to convey an impression to any patient from whom a bit of gravel weighing 2 or 4 grains has been removed that he las undergone an operation for stone in the bladder, and that the custom might give support to objectionable practice.
1 beg to sulmit these remarks to the consideration of iny professional hrethren, in the belicf that it is desirable to have some general understanding as to the meaning of the term in quiestion. and to adopt, if passible, a uniform method in the employment of it in future.

$$
\begin{gathered}
\text { CASE OF RAYNAUD'S DISEASE, OR } \\
\text { SYMMETRICAL GANGRENE. }
\end{gathered}
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Bx J. W. F. SMITH-SHAND, M.D.,
Professor of Practice of Medicine. Aberdeen University; Senior Physician to
the Royal Infirmary.
Grathomes, -1 must premise that the case 1 am going to bring under your noticc to-night is that of a girl of excitable nervous temperament, of lut moderate intelligence, and of questiomble habits. Great difliculty has been experienced in getting an accurate account of the previous history, more especially with reference to the occurence of "chilblains" ant other points, for what she affirmed to-day she would contradict to-morrow. My examination of her always seemed to make her very nervous, particularly in the presence of students; and thus I asked Mr. Shirras, the housephysician, to unlertake the narative of the case, as I supposed she would be more at her case with him. Consequently it is mainly to him that we are indebted for the following history.
J. A., aged 20, a servant, was admitted into the Royal Infirmary on May 2tth, I887, complaining of pain in the lyyogastric and lumbar regions, with frequency of micturition, which symptoms. she stated, had been present for the last four days. Her appearance was striking, as the face was much flushed, the lips swollen, with the mucous surfaces of a puplish colour, and a general erythematous redness all orer the body. The skin was moist, and the patient said her horly felt hot. IIer face was heary and dull in expression.

Three hours after admission her temperature was $104^{\circ}$, respirations 40 , pulse 125 per minute. On physical examination, lieart
sounds normal, pulmonary percussion normal. On anscultation, breath sounds lursh. No cough or expectoration. Liver normal spleen slightly enlarged; tongue dry and coated with white fur; great thirst; appetite bad; bowels confined. There was marked tenderness on pressure over the lumbar regions. Crine scanty, specific gravity 1030. acid reaction, dark yellow in colour, with sediment composed of lithates and pus; upper portion showed trace of albumen.

On the 25 th the temperature was $104.4^{\circ}$, but, under the use of antipyrin, fell to $101.6^{\circ}$ in the evening. As she said she was unable to pass urine, the ward sister used the catheter and drew off 42 ounces.
Twentr-four hours after admission she complained of great pain in the ears, and shortly afterwards symmetrical black patches appeared on the lobes, and after some time became filled with dark serum. Soon after this other black patches appeared summetrically on each cheek and on the point of the nose. Still later, on the following day ( 26 th), other symmetrical spots were seen on the face and neck, on the arms, hands, and legs above each knee. To patches appeared on the trunk, fingers, or feet. The largest patches were on the arms. The one on the right measured seven inches in length and three and a half in breadth: the patch on the left arm measnring five and a half in length and three in breadth. Before these patches appeared the patient complained of a serere burning sensation in the parts, which was greatly intensified on pressure. They appeared suddenly, and were of a very black colour; the margins were distinctly marked, there being no shading of colomr. The surface of the patches was corered with moisture. After the patches appeared the general erythematous condition diminished rery considerably.
For eight days the patches remained as described, but after that a reddish border appeared around them, aud by the tenth day they began to shrink in length and breadth, and by the thirteenth day sloughing sores had formed on the arms, and were dressed rith carbolic oil and enveloped in cotton wadding. The ulceration was quite superficial. The patches on the ears, cheeks, and neck slirank and disappeared, leaving a small thick crust, which gradnally got smaller and dropped off, leaving on the left ear a certain amount of atroply of the tissue. On the ninth day after admission the lumbar pain and frequency of micturition began to abate, the pus and albuminuria diminished, and by the eleventh day these symptoms had completely disappeared. Since then her only complaint has been of thirst, and pain when the arms were being dressed. The temperature ranged high for over three weeks, the maximum being marked on May 28 th, when it was $104.6^{\circ}$. During the second week of her ilmess she had diarrhea for several days, having five stools on June 3rd. The treatment consisted in giving ten-grain doses of antipurin for the first three days every six hours, and afterwards a mixture containing arsenic and strychnine every six hours.
Previous History.-Patient, ap to the age of 16 years, enjoyed good health, but since she first menstruated (when 17 years old) she has always suffered more or less from dysmenorrinea and irregular menstruation; she menstruated last on May Th. She told Mr. Shirras that she often complained of chilblains in the winter time, and suffered more or less from cold hands and feet. She denied this to me, but said that four years ago, when she was in the llouse of Nazareth, she, along with many others, had little red lumps abont the size of pins' lieads on her fingers, and that the mails cracked and came off, and at present the nail of the forefunger of the left hand is fissured. This winter she told me she suffered from cold bands and feet, and her hands were blue and swollen, but " not like chilblains."
On Apri] 28 th of this year she was admitted into the Infirmary nnder me, but during my absence from home, complaining of severe pain in the lumbar and iliac regions, and retention of urine,
Mr. Williams Ir. Williamson, then house-physician, considered this last
symptom as lysterical, and refused to draw off her urin a a short time siverical, and refused. At this time arine. and in the size of a five shilling picce. Developed on her left han about was very painful, containing at first clear serum, but becoming purulent. It was punctured, and in three dars had guite healed ; she was dismissed on May 7 th "cured."
Cnder the date of July th I have to report that the patient says she is quite well, that the ulcerated surface on the left arm has been perfectly healed for the last three days, and; that on the right arm there are now two ulcerated spots, one abont the size of a sirpence, and the other being half an inch in length and half an inch in breadth.


MGIT SIDF


Remarks.-This is the first case of Raynaud's disease which I have observed, so-called after Raynnud, who made it the subject of a thesis in laris in-1862, and who then brought together twenty-eight examples of this morlid condition. It has, as a result of this and of an article written by him in the Dictionnaire de Medecine et de Chirurgie, of late years been brought more prominently before the profession. But for many years previous to this isolated instances of this disease hare been recorled in the medical journals.

From the special character of the symptoms it has also received the names of symmetrical gangrene and local asphyxia, and the opinion now held of its nature is that it is a neurosis due to vasomotor disturbance. At my first visit this was the view I took of the case before us, but I was at firstinclined to believe that it had been brought about by some toxic influence-that the patient had been taking some drug such as bellatonaa, which had produced the great dilatation of the cutaneous capillaries, but she stated that she had been getting no medicine before admission, and when the gangrenous patches made their appearance, the nature of the disease then became apparent.

Notices of this affection are singularly rare in systematic works of medicine. Quain's Dictionary of Medicine gives three lines' to it. It is not mentioned in Ziemssen's Cycloperdia of Medicine, beyond a short reference to gangrene from ergotism, a condition which it somewhat resembles, hut in this case the nature of the patient's food did not allow of such an explanation of the symptoms. A good description of the disease is given by Dr. Allen Starr, in Pepper's System of Practical Medicine, an American work of great value. My case, however, differs in certain important respects from the picture there dratrn.

It is there stated that while the disease commences suddenly in all cases, the local symptoms as a rule are more marked than the constitutional, and that these local symptoms begin with pains usually limited to the tips of the fingers and toes. Theser:pains are commonly followed, and ravely preceded, liy a'condition of (1) ischæmia, (2) cyanosis, or (3), erythema I

1. Ischmmia. This first stage Raynatud described as the condition of local syncope, in which the fingers more frequently, and the toes more rarely, are involved, and look pale, shranken, and dead, owing to the dimiaished quantity of blood flowing through the contracted artcrioles: This condition may pass off in a short time, in which case the arterial spasm relaxes, and the parts're--sume their normal odppearance; 'this change, however, being generally accompanied by a feeling of burning pain is But if this arterial spasm boo of long duration, then the second stage of oyanosis is certain to he reached.
2. Cyanosis. This stage, Starr isays, mustlresult from one of -trro conditions; "either the arterial spasm is so complete that no -hlood passes into the part, in which ease venous blood'from lack of wis a tergo, or in response:to, gravitation, regurgitates into the capillaries, distending them and producing a state of blueness; or a venous spasm occurs, preventing the exit of blood from the part, which then becomes actively congested, and the blood in the capillaries, from want of renewal, soon becomes renous and? produces the cyanotic appearance. This stage of local asphyxia may be of variable duration, from hours to days, and may terminate in a gradual return to the normal condition, hut more usually it is followed by gangene.
3. Frythema. Some doubts bave heen expressed by Various observers as to this being a true stage, because it has sometimes been found to be of a more permanent claracter, while at the samo time it is seldom followed by the death of the part.

The experience of my case, however, 1 consider warrants us in the conclusion that it is a true stage. This condition of erythema may be ascribed to a paralysis of the vaso-constrictors, or to an irritation of the raso-dilators.

When the stasis of blood in the vessels has been extreme, this is followed by gangrene and death of the part, and the symmetrical manner in which this is hrought about constitutes the special character of the disease. The most frequent site, as I lave said, is in the tips of the fingers, the least frequent the arms. As a rule the gangreno is limited and superficin, although in rare cases the terminal phalanx of the fingers may bo antirely lost. This gangrene, it has to be observed, is not dependeut upon embolism or upon any diseased condition of the coats of the vessels, and as a rule is only noticed in the tips of the extremities, so in this respect also my patient forms an exception to the rule.
The constitutional symptoms consist of headache, mental depressiou or irritalility, disturbed sleep and loss of appetite. Tem-
porary albuminuria, homaturia and glycosuria, have also bern observed. Starr says that "fever never occurs as a symptom of the disease, and if present, must be aseribed to some other condi1.ion." Now, in my patient I could find no other condition to account for the quick pulse and high temperature, and I looked upon the latter symptom as being purely nervous, and solely due to irritation of the heat-regulating apparatus.

This brings ns to a consideration of the nature of the diseasc. Raynaud believed it to he of central origin, while Weiss, a recent writer, considers it to be a reflex neurosis dependent upon any peripheral irritation. Certain it is that it is most common in young adults, in females rather than males, and that menstrual disorders have been observerl in a large number of the female cases, while in one third of all the cases a recurrence of the difease has been found to take place within a year of the first. attack.
Fearful as the appearance of my patient was at the height of the disense, so much so that the ward sister thought it impossible that she could recover, 1 yet gave a favourable prognosis, as no fatal result has yet been recorded, so far as I know, of a genuint case of the disease.
No special plan of treatment has been found beneficial, beyond general tonics, the occasional use of sedatives when pain is severe and when gailgrene is present, using some antiseptic dressing, and raising the affected limbs well on pillows, while they are kept warm and enveloped in layers of cotton wadding.

## ABSTRACT OF A LECTURE

## AMBULANCE WORK IN CIVIL

 PRACTICE.By RICHARD DAYY, M.B., F.R.S.E.,

Surgeon to the Westminster Hospital.
Gentlemen,-There is scarcely a day passes in hospital or private practice without some special form of conveyance being required for our patients, either for convalescent or urgent necessity. Conreyance of a patient may be a very simple matter, as, for instance, the use of a stretcher or chair to carry him from one room to another, or a really complex undertaking, such as the transport of an enfeeblert or injured man from one point of the kingdom to another, or from Great Britain to the Continent. I have endeavoured to practically overcome many of these difficnlties, and have now the pleasure of explaining to you the construction of our hospital ambulance, which is the generous gift of one of our governors, the Rev. T. S. Echalaz, M.d., and which has been dusigned throughout by myself.
The woodent will give you a good gencral impression of the carringe and a patient placed in it ready for transport. The carriage part of the mechanism, the stretcher, the cradle, and hood are all portable and easily detached, and will be described separately. The carriage part consists of four 26 -inch iron wheels, supporting on springs two grooved bars firmly bracel together on either side for the stretcher poles to fall into: these poles are tixed at any point by means of two clips, so that there is no danger of tilting, and the weight trimming is aljusted to a nicety. Four wheels have been used in this hospital ambulance, for the general advantage of the stretcher being ever safely on the wheels. and for the whole arrangement being used as a convalescent couch or airing vehicle. For my own use (and I have now superintended many hundreds of journeys) 1 have two wheels only; but. for carcless or nerrons liands, four wheels are safer than two; this. moreover, is the common experience of carriages in general. hemember that by proner adjustment this ambalance can be Iriven on two or four whede, so the wheeled framework consists only of a sort of perambulator pattern, receiving the poles of the stretcher instead of the carriage body: The stretcher itself is so well known now as not to call for any full description: it consists of two hickory poles. two cross bars, and a sheet of red duck cannas: the two cross bars are of iron, and at either end have forged on


Fig. 1.
tho $n$ suspending hooks. I have used this, my own form of stretcher,
for fifteeu years, and have never yet had any reason to distrust it; for fifteeu years, and have never yet had any reason to distrust it on the contrary, it has done hard work and very good service. The form of cradle here used is quite new, andjanswers well. It


Fig. 2.
fits on and upon the stretcher poles, and may be nsed either at the head or foot of the stretcher, thus giving support to the hood, and playing also the part of a surgical cradle in the erent of a smashed head or broken leg. It is a wrought iron framework, and is well shown in the woodcut. The hood is made of canvas or waterproof; it rests upon the poles and cradle: its presence or not depends upon the state of the weather and the wishes of the patient. Its fashion also varies according to the taste of the surgeon.
Let me now suppose that a patient has to be shifted from our accident ward to Margate; and we will assume him to be the subject of a compound fractured thigh, knit, yet sinuses refnsing to heal. Ilaving seen that the whole machinery is in order, wheel the ambulance to the patient's bed; place him on the stretcher by rolling him on to it: then fix the stretcher poles to the framework of the wheels: put on the cradle and hood; then one porter can drive him to Victoria Station, another porter walking at his

side. On reaching Victorin, a guard's van-having had two hooks
driven by screw into the roof of the car-receives the streteher earried by the two porters, and it is immediately slung up ly two elastic eorls, the patient himself being absolutely free from possibility of harm. Next wheel your four wheels into the same ran, and let the porters go down with the man to Margate-the faster the better. At Margate the proeedure at Victoria is reversed, the patient being driven from the station to his own home on the ambulanee; the porters roll him off the stretcher on to his new bed; then pack up stores and return to Westminster with them.

But at this point let me put you up to a valuable hint. Many of our Enghish louses are extremely small, especially about the staircase, which is frequently crooked and angular; no stretcher carried by two porters can pass-no chair of ordinary dimensions ean pass, either. The menns that 1 have suecessfully adopted is to make use of a good strong jack-towel as a support to the patient in getting up these defiles, and its method of usage is shown in the woodeut. The earriage upstairs must be done with care; but the jack-towel will twist a little, and that little makes all the difference.

By passing the loop of a towel across the patient's chest, beneath his arm-pits, he ean be securely bound to the back of the leading porter; generally speaking there is no fear of falling, but far more of any blow or injury to the leg in passing corners.

This woodent shows my hammock ran and streteher slung within; it has now run over most of our lines of railwaythe wheeled ambulance can easily go inside the horse ambulance.

At the present time much inconvenience results from the surgeon having to make special arrangements with each railway company over which the van has to pass. I look forward with plensure to the time when all our public railways will be handled by one superintending powar; and that power should be the Government.

I have every reason to speak in praise of the principle of suspension as applied to the transit of invalids, and I entirely disagree with what Mr. John Furley stated at the meeting of the St. John Ambulance Association, that the patient's bed should be a fixture, for though there may be indiriduals who object to any swinging motion, yet in cases of necessity this objeetion ought to be overruled by considerations of far higher moment, namely, the actual safety of the patient and the prevention of further injury to a part already injured. An attendant by the side of the suspended patient during a railway journey is the best agent for overeoming any undue oscillation, the touch of a gentle hand being lighter than the restraint of fixed elastic cords.

It is a humiliating reflection that in civilised Great Britain property receives more consideration than human life. There is no court of criminal appeal, although trivial disputes may be carried from court to court. Ship eargoes are heavily insured, but not the crew who man the ship. Furniture is most earefully remored, but, until lately, no regard was given to the removal of an invalid. I have endeavoured to practically refute this last accusation, and commend ambulanee work to your notice, as being one worthy object of your high professional training.

## ABSTRACT OF

## A PAPER ON THE RELATION OF THE MEDICAL SCHOOL TO THE HOSPITAL.

Read before the Hospitals Ass, ciation at their meeting in the Board-room of St. Genrge's IHospital, February Eth, $185 s^{3}$.

> By TlMOTHY 1IOLMES, F.R.C.S., Consulting Surgeon to St. George's Hospita?.

AFter apologising for appearing on a short notice to fill a vacancy left by Dr. Gilbart Smith, who was to have treated this subject, but had been prevented by illness, Mr. Hlolmes went on to observe that a hospital might be regarded in rarious aspeets:

1. As a body of grovernors, to regulate and administer the whole institution; and he endeavourcd in this connection to slow how great assistance the authorities of a school can give, from their iutimate knowledge of all the arrangements and their direct per-
sonal interest in their suceess, and consequently how important it is that teachers and other qualified members of the sehool shonld be admitted on terms of equality to a voice in the management of the hospital, and showed from the experience of St. George's what good results follow from this plan.
2. Looking at the hospital in its financial aspect, he insisted on the great aid which a good medieal school gives in the way of providing snbseribers and procuring donations and legacies, instancing on the latter head the splendid bequest made to St. George's by Mr. Atkinson Morley on aecount of his old connection as a pupil of the school. On the other hand, the medical school assists the hospital materially in obtaining effeiency by wellconsidered expenditure in all departments. This docs not necessarily mean saving money. It may involve increased expense, as in the recent great inerease in the cost of surgical dressings; but if this inerease is accompanied (as has been the ease in that instance) by a diminished mortality, it is true economy.
3. Regarded as a body of medieal officers engaged in treating the siek, the hospital derives the greatest benefit from the medieal school. The sehoal keeps alive the esprit de corps hy which one hospital is stimulated to surpass its rivals, if possible, in medical progress, and one part of the country to try and outstrip anather. and to this healthy competition much of the extraordinary aetivity and success of the British sehool is due. The intimate acquaintanee betreen members of a staff who know each other as teachers, fellow-students, and pupils is also a great adrantage to the patients; and, again, the neeessity for elinical instruction is a great benefit to the siek. The idea sometimes entertained that the presenee of students in the wards is one of the drawbacks of a hospital was combatted, and it was, on the contrary, contended that the need for clinical instruetion, by compelling the attention of the physicians and surgeons to the patients, greatly improves their prospeet of recovery.

But though a zehool ought to be able to supply to the hospital the great bulk of its medieal staff, yet it ought not to be a "close borongh," but should be ready on proper oceasions to recommend to the governors persons from outside if their election would promote the good of the hospital.
4. Looked at as a place for the study of the medieal art, the hospital derives still more important aid from the sehool. The great advances which have been made of late years both in medicine and surgery hare been secured for the most part by the cooperation of many men working together in the same sehool, and many schools working together in testing theories by practice, and this is espeeially true of the progress of pathology, which is the basis of all improvement in medicine, and which promises sueh brilliant results in the near future.
5. A haspital ought also to be the centre of the medieal charities of its district, to which such institutions as poor-law infirmaries, dispensaries, fever hospitals, and lunatic asylums should be affilinted or conneeted; but this idea has not yet been realised. If it were, the aid of the junior practitioners and students of the sehool would be most important, and they would in return obtain experience of kinds of practice not at present well illustrated in hospitals.

Again, the out-patient department is most important to the school and the school to it. The main object of the reforms proposed in this department is to make it more efficient both for the use of patients and the teaching of medicine; and, on the other hand, the need for teaching is a great stimulus and assistance to the medical officers in charge of out-patients. And here also a medical school, so far from being a nuisance or a disadrantage, is a very great benefit to the patients.

These being some of the adrantages of the school to the hospital, they are requited on behalf of the hospital by the indispensable service of providing the selool with its whole material for elinical teaehing, and this should be provided as freely as possible; that is, no class of disease should he excluded which can be almitted with safety to the patients, and the pupils should have the freest possible aimission to the wards consistently with the regular serviee of the hospital and the comfort of the patients. But it seems doubtful whether the hospital is justified in undertaking any expenditure on behalf of the school, sueh as is involved in the erection of premises. The great prineiple seems to be that the governing body of a hospital should accept the teaching of medicine and the presenee of students working in the rards as a great henent both to the institution and to the individual patients, and endeavour in all legitimate ways to encourage both the one and the other.

# THE BEARING OF ALBUMINURIA ON LIFE $\triangle$ SSURANCE. 

By F. DR: HAV1LAND If.AL, M.D., F.R.C.P.,

Physictan for Out-patients, Westminster Ifonital.
Since Dr. Grainger Stewart read a pmper before the Royal Socicty of Lidinburgh, in Iune last, on the discharge of albumen from the kidneys of healthy people, the attention of the profession has been dinected to this important subject. I would suggest that before the word "healthy" be inserted "apparently", so that the sentence would run: "the discharge of alhmmen from the kidneys of apparently healthy persons." It is, I think, begging the question to call persons lacalthy who are passing albumen; and I gather that this is also the view of D) Stewart, as in the report of the merting in the Jotrial for lune 1lth, from which lget my iuformation, he is said tolave arrived at the following conclusion, amongst others: "That there is no sufficient proof that albumen is normally disclarged frou the human kidneys."

The point, howerer, to which I wish to direct attention is the bcaring of albuminuria ou life assurance. The question at once arises, Are medical oflicurs to life assurance companies justified in rejecting or reforring all applicants found to be passing albumen? I am distinctly of opinion that at the present time there is not sufticient cridence before the profession to allow of any answer except an nffirmative being given to this question, If Dr. Saundby could give us the result of his experience of the Inst ten years a little more definitely, it would make a good commencement.

The only attempt with which I an requainted to follow up in a systematic manner the after-history of cases of albuminuria is that made by the raedical staff of the United States Life Insurance Company in their anumal reports to the board of directors. Struck by the fact that nearly 10 per cent. of all the deaths of policy holders in their company occurred from Bright's disease an examination of the urine was reguired in the caso of each applicant. In the first year, twenty-four cases of albuminuria were detected. "]n each the heart and lings were found to be normal, and nothing could be learned from the past history to lead to the suspicion that albuminuria existed; furthermore, the physical appearance in cvery case (with, perhaps, two exceptions) indicaterl a bealthy condition. Each one considered hinself in perfect health, and really appeared as if he were. They were all excluded solely on nccount of albuminuria, and formed 11 per cent. of those presenting themselves to me for examination.' In acarly every case two or moro specimens taken at different timea were examined and albumen found in tach." A similar procedure was adopted in 1879 , with the result that mincteen cases, or 12 per cents, and in $18 s 0$ twruty-six cases, or 10 per cent., were fuund to be suffering from albuminuria.
In his concluding report lor. Mumn sums up his experimee of the 69 cases as follows: "In view of the fact that four of the number have died, and that the general appearance of the majority of those who have been under observation for more than one year is gradually deteriorating, I am lerf to believe that albuminuria should be regraded as of grave significance. In some cases, however, it may be of slight importance, and furtlier rescarch may possibly enable us to diseriminate between them."

The reporta arn accompanied by tahles recording the occupation, age, weight, height. frequency of pulse, amount of alhumen, fresence or ahsence of casts in each chase.

In favour of the line of action that I an recommending, namely, that persons suffering from allominuria should not be accepted, is the fact that the vast majority of applicants for assurance are examined some hours after breakfast, so that those cases in which albumen is only found immediately after that meal would not be exeluded from the bencfit of life assurance.

In amalysing Dr. Stewnat's tables contained in your issue of October lith -and I only take into consideration Tablea 11, III, and W, the other talles, minbracing chidren and acarlet fever patiente, laving no practical baring on the asgurance agpect of the ques-tion-1 find that, of cases of liright's disease fincluding those probably dhe to ligight's disense), in forty-nine instances the albumen was detected ly nitric acid, and in five instances by pieric acid only: grouping all the other conditions giving rise to albuminurin together, in forty-seven instances albumen was detected by nitric acid, and in twenty-eight instances by picric acid only:
therefore if picric acid lasd becn dispensed, with, five cases of Bright's disease would have heenoverlooked; but on the other hand, twenty-eight instances where there was no evidence of organic disease of the kidneys would nut have been included in the category of jersons unsuitable for assurance purjoses on account of renal disense. Using nitric acid only, forty-nine cases were referred to Bright's disease and forty-seven to other cause9. The outcome of this analysis is that in more than half the cases in which albumen was detected by cold nitric acid Bright's discase was the cause. 1 nm therefore of opinion, as I have alrcady stated, thet medical officers to assurance companies should not recommend cases of albuminuria for acceptance where the albumen has been detected at mid-day or in the afternoon, on boiling the urine, or by means of cold nilric acid. From on assurance point of view I think it would perhaps be better not to employ picric acid, as otherwise fairly good lives might be excluded.

Before concluding, 1 must express my admiration of tbe able manner in which Dr. John Nunn, one of the medical officers to the United States Life Insurance Company, Jas drawn up his tables, and of the rery careful directions he gives for examining the urine.

## CLINICAL MEMORANDA.

## A. CASE OF "QUINTAN" AGUE.

Mrs. B. M., a tridow, aged 46, consulted me in October last. She was suffering from an attack of ague, which had commenced in the preceding June. The symptoms were very typical, the cold, hot, and sweating stages leing well marked. The temperature rose during the cold and hot stages, reaching $105^{\circ} \mathrm{F}$., and fell during the sweating stage, being normal during the intervals. The spleen was slightly enlarged, the other organs normal.

The most interesting featnre of the case which leads me to record it was the rare interral between the attacks; namely, four dars. I have consulted most of the books dcaling with malarina diseases, but find that, while they nll mention the ordinary types -quotidian, tertian, quartan, and the double varintica of these. none of them nention that may be called a "quintan" type, in which the interval was four days. Another interesting point was that a spot about the size of a shilling, near the tip of the tongue, became pale, cold, and nuesthetic during the height of each nttack, and Fas accompanied by an eruption of herpes on the inside of the lips and cheeks. Those symptoms subsided during the interval, to return afresh on the fourth day, with the next paroxysm of ague.
At the Plymouth and Devonport Medical Societr, on December 12th, Dr. W. 11. Pearse said that in India berpes and ague sometimes altemate, but in this case ther occurred concurrently. The patient had heen in Massuchuselts, U.S.A., in her youth, but dods not remember having had ague tbere, but may possibly have forgotten, as it is trenty-six years sinceshe rcturned from that country There is a large swamp adjacent to her residence, which was lately in process of drainage, and the drring of this undet the intense heat of last summer was probably responsible for the malarial infection.

I put the patient on treatment by quinine, which produced an immediate improvement. The next nttack was much reduced in severity, while the one following that was only represented by a slight rige of temperature, headache, and malaria. After this all the symptoms disappeared ; the spleen decreased in size; she hat no return of the herpes or anesthesia of the torigue. I IIer general health also rapidly improved, and I had $\Omega$. letter from her shortly before Christmas, in which she stated that she felt in better health than she had done for several years.
Dublin.
Joun P. IImary, M.B., B.Ch., T.C.D.

## A CASE OF MELANCHOHA PRESENTING SOME ERCEI THONAL FEATLRES, DROLONGED REFUSAL OF FOOD, AND NORCED ALIMENTATION.

Inthrest attaches to cases of melancholia of the kind here reported owing to the relution which they bear to, nnd the light which they send to throw upon, the cause or causes in operation whirl sometimes lard to prolonged fasting in so-called "fasting Firls" and others; for 1 muy at once say with regarl to this case, before contering ujon any details, that, as a result of delusion, no less than 123 days have clapsed since food or nourishment of any
kind has been partaken of voluntarily, or without resistanee; forced alimentation has been necessary tol sustain life during the whole of that period, and the determination to refuse all sustonanee remains to-day as firm as it was 123 days ago.
The patient in question is a young lady, aged 25 , unmarried; she was pale, thin, exhausted, sad, and taeiturn when she came under my care in August; $1885^{\circ}$; ut that time, when asked to take food or nourishment, she placed her hand firmly upon lier month, cleneled her teeth, find tightly compressed her ippe, thus clearly indicating her very fixed resolvo not to do'so; the papils were dilated, there was hysterical quivering of the upper eyelids, the pulse eould scarcely be felt at the wrist; the tongue, teeth, and lipls were dry, and thickly coated with sordes; the breath was very offensive, and of that reculiar odour which indicates prolonged ahstinence from food.
The attaek of mental disease tras described as the first, and was of [sixteen days' duration. Suicidal and dangerous propensities existed, and no food had been partaken of for eight days. The reasons for this abstinence were found to be beliefs on her part that she had been direeted by God to abstain from taking all food. Finding that it was quite useless to try to induee her to take food, and it being absolutely necessary that the process of nutrition should be recommenced without further delay, forced alimentation was resorted to, and, as already stated, it has been conlinued daily since, the three hundred and forty-fifth feeding in succession having been performed this day. Exthaustion had, however, alrendy proceeded so far, and the strength was already so nuch reduced when this was begun, that it was feared for some time that she would sink; the pulse rose to 120 or more; the temperature also rose to $102^{\circ}$. She lay motionless and torpid, and as if in a trance; respiration, however, continued normal; ; there were marked pallor and prostration, also a statuesque condition, but without the miuscnlar rigidity or catalepsy so often observable ln such cases; neither was there the nsual stupor accompanying melancholia of this description; the intelleetual faculties were apparently perfectly clear.

During the progress of the disorder menstruation has been altogether absent; the ealls of nature were not attended to, diarrlhea also was persistent for a time, but was relieved by the usual medieaments, and alteration in the diet as foreibly administered.
The present physieal condition may be described in a few words. The strength is well maintained, the patient has gained in weight, the pharynx and œesophagus are free from congestion or tumefaction, the tongue is clean and moist, the mucons membranes are generally quite healthy in appearance, the breath is free from offensive odour ; the delusions still eontinue, but I am disposed to form a not altogether unfarourable prognosis; with improving nutrition and brain-rest a change of ideas will eome, it may be suddenly, bat more probably there will gradually be a return to mental health.

Jamies Adam, M.D., formerly Plysician
West Malling

## THERAPEUTIC MEMORANDA.

## ALARMing Symptoms produced by spraying tie throat witil cocane.

Dr. McNeill Whispler's note on cocaine reminds me of the following history which I lately had from the patient and her husband, both persons of great intelligence. The lady, middleaged and stout, but otherwise healthy, lad been prescribed a spray of cocaine ( 2 per cent.) for "irritability of the windpipe and cough." The solution was made up abroad, and there is some donbt as to the strength actually used. She sprajeed heavily for the first time about 5 P.M. for about a quarter of an hour. The symptoms then commenced, with eoldness and numbness of the tongue, weakness of the lower limbs and staggering, mental distress and great depression from the very first, Her linshand states that she was unconseious before 9. P.M., and remainel so more or less until 2 A.m., but she says, that she had glimmerings of conscionsuess most of this time, althengh sbe could not artienlate. thought there were strange objects in the roont, und feared lest anyono should speak to her. (Ireat prostration followed, and I am told it was some weeks before this hady regnined her usnal streugth.
Strathpeffer Spa, N.B.

## OPHTHALMOLOGICAL MEMORANDA.

anestilesia during strabismus opreations. Mr. Edgar Browne, in the Jocranal of December 10thr deseribing an ingenious irrigating stralisisuus hook for produeing local, anasthesia in strabotomy, says, "squint operation, even in ner-s rous, frightened ehildren, ean be done painlessly."
Mr. Lloyd Owen, in the Jocrail for December 24tb, described a method by which the same effect can be aceomplizhed rery wellwithout this special instrument, saying that ley this means "the; operation ean be completed painlessly"; while Mr. l'riestloy; Smith, in the Jocreval for January 14th, oxplaining another verys good means by which local anæsthesia by cocaine can bo induced, says with a nearer approach to accuracy that the operation can: thereby be performed "in most eases without pain."
In my experience, while cocaine does abolish the pain caused by conting the conjunctiva, and even the aetual division of the tendon, I have not fonnd it suffice to aunililate the very unpleasant sensation, I might say pain, occasioned ly stretching the tendon with the hook, whieh, if the patient is unruly, may be considerable, and become very ineonvenient to both the surgeon and the patient. I have, therefore, since eocaine was introduced, in addition to using it, administered nitrous oxide gas as well for this operation; by this means all the early steps of the operation, rendered painless by the eocaine, can be performed before complete anresthesia by the gas is reached, the drawing forward of the tendon on the hook, and its division, being reserved for the stage of complete nitrous oxide anesthesia which lasts long enongh to complete this part of the procedure in comfort.
Having employed this plan frequently for the last three years or so, 1 can strongly recommend it for this operation, the patients requiring which are so many of them of tender age. My chief object in writing is to draw the attention of my eolleagues to the use of an anæsthetic which, I fear, is not generally sufticiently appreeiated except by dentists, and whieh I have found valuable for many short operations, espeeially wheu assisted in this way by the local effects of coeaine.
In eonclusion, I would say that I hardly think any plan of applying cocaine loeally will be found to anæsthetise the whole of the internal rectus, running baek as it does to the apex of the orbit -I am, etc.,

Henry Eales.
Dirmingham.

## REPORTS

## HOSPITAL AND SURGICAL PRACTICE IN THE hospitals and asycums of great brftaln, meland, and the colonies.

## GEVERAL HOSPITAL, MADRAS.

(Cases under the eare of Brigade-Surgeon Sibthorpe.')
Case r.-Large Collection of Urethral Calculi: Operation: Re-eovery.-A thin, slightly anæmie native Christian, domestic servant, of intemperate liabits, aged 35 , was admitted into the General Ilospital on May 24th, 1887. He stated that twenty-one years before admission he had gonorrhoa, which was cured in the eourse of about six weeks; that he cujoyed fairly good health till about six years before admission, when he contracted a second attack of gonorrloa, which was followed in twenty days by a bubo in each groin, together with a sore in the meatus urinarius externus. This sore gradually affected the whole margin of the opening, and was followed by some cieatricial eontraction of the orifice, which steadily went on to complete elosure, and led to formation of a urinary fistula just behind the meatus, through whieh he had since been passing urine with great diffieulty. Five years before admission he began to pass gravel in his uriue, accompanied by severe pain over the region of the bladder, and feverishness; he continued to do so for a month; during this time he suffered ocensionally from symptoms of eystitis and remal cotic. Ile had never sinee passed gravel; but, on the other hand, be had noticed a swelling near the root of his penis, which had gradually enlarged. Ever since the appearanee of this swelling the act

[^32]of micturition had lwen atteuded with great diftenty and straining, to overenme which he had leen in the habit of pressing the swelling downwards and backwards with his tingers during micturition.

During the fice years before admission, after any unnsual exertion or excess in eating or drinking he had been sulyject to slight febrile disturbances, nttended with pain in the hypogastric region, pain during micturition, passaye of bloal and muens in the urinc, and oceasional attacks of remal colic. When admitted he was passing urine seven or eight times in the twenty-four hours; there was pain and tenderness on pressure over the hypogastrium, and scalting during mieturition; blood was not then passed in the urine, which was olinque-jellowish, slightly turbid, the turbidity being unafiectel by heat: reaction was alknline; there was no albumen. The deposit under the mieroscope showed amorphous and crystalline phosphates and mucus cells. The size of the stream of urime was marrowed, the urine sometimes coming away in drops. There was a lyriform tumour, the size of a lime, underneath the root of the penis, situated a little to the left side; it had the peculiar feel of the crop of a bird, due to small calculi having collected and distended the lower urethral wall into a sac: there was some degree of tenderness on pressure over this sac. On sounding the urethra, two strictures were detected, one at the false meatus and the other two inches and a half from it, the former almitting a No. 6 silver catheter and the latter a No. 1. No instrmment could be passed beyond the seat of the gravel sae.

May 27 th. The patient having been placed under the influence of chloroform, both strictures were divided by means of a bistouri cache, anel a No. 8 silver eatheter was passed into the bladder. An incision two inches and a half long was then made over the gravel sac antero-posteriorly; the sac was opened and the gravel removed. The superabundant portion of the sac wall was removed by scissors, and the bladder was washed out. The edges of the wound were brought together with four harelip pins, with silk sutures twisted over them in a figure of eight. The parts were dressed with lint soaked in perchloride lotion. The sac wall was about one-eighth of an inch thick; the opening by which the sac communicated with the urethra was a large one. The calculi, numbering about eighty, raried in size from a pin's head to that of a tamarind seed. They were sharply angular, and finely polished, of hard consistence; on analysis, they were found to consist of uric acid, phosphates, and organic matter.

- He recorered well from the effects of the chloroform, and was quiet during the day. In the evening the temperature rose to $101^{\circ} \mathrm{F}$. At 5 r.m. he passed his urine in the knee-elbor position. Some urine escaped throngh the wound; tbe bladder was washed out with warm percliloride lotion at 5 p.3.

May 23th. He felt better; the temperature had come down to normal. The bladeler was washed out.

June 5th. IIc passed fifty-six stones similar to those which had heen removed throngh the wouml.
June Gth. The temperature lad been keeping normal; the wound was looking clean and gramulating; there was some dribbling of urine through it: there was no discharge from the wound. Urine was slightly cloudy:

June 10th. The wound was healing: there was dribbling of nine still through it ; he passed urine four or six times in the $t$ went $y$-four hours.
June llth. The urine was almost clear, with only a slight deposit of muens at the hottom of the glass. There was no difficulty or pain luring micturition. Some urine still dribhlod through the wound, especially when he micturated in the sitting or in the erect posture. The silver eatheter which was tind in sinen May 2 th was removed, and the blatder washing stopped.

June 14th. For the last three days the urine hat heen turbid with a heary deposit. Ile passed his urine four or six times in the efoenty-four hours. The wound was contracting.

June 12th. He had passed ahout 100 pieces of gravel of varying eizes, similar to those le had passed on Jane sth; he passed ten more on June loth and five on June 14th. These came away mostly at night through the serotal wound, unaccompanied by any symptoms.
On June 25th a No. 7 silwer eathater was passed, and on June 30th there wins no dribbling through the scrotal wound, which Fas contracting. He retaimel the ratheter without any tronble.

August 23rd. The urine enntinued quite clear. No calculi had been passed since June 14tl. The urine oceasionally dribbled through the scrotal wound, especially when he straincl in defeeca-
fion. The mound had contracted to about a quarter of an inch, but showed no further temleney to contract, and seemed to be unaffected by stimulating injections.
A No. 8 gum-elastic eatheter had been retained and renewed every week, to prevent the contact of urine with the wound, but withont any effect.
August 241 . An attermpt was made to close the opening by the following operation: he was chloroformed; a No. 10 silver catheter was passed, but met with some obstruction at the seat of the second old stricture; this was divided with a bistouri cache, and the catheter was passed into the bladder. The edges of the wound were freshened with a scalpel and brought together with silk sutures ; a No. 10 gum-elastic catheter was tied in. The next day the sutures gave way on account of the impossibility of preventing the contact of urine with the wound. No constitutional disturbance followed the operation, the sutures were removed, and the catheter retained.
September lst. The edges of the wound had healed, leaving the fistula open. Ile insisted on going home, as he was satisfied with the result.
Remariss by Drtqade-Surgeon Sibthorpr.-A very interesting and an unusual case, for the notes of which I have to thank Civil Apothecary Rama Row, L.M.S.S. ; such a collection of gravel in a sac formed from the walls of the urethra behind a strieture is rare. It was difficult to say where the stones came from which he passed subsequently to the operation, for the sac was completely cleared out and its walls removed; he has had no symptoms of calculi in the bladder, nor bave any been detected in it, though it has been sounded on several occasions. There is little chance of closing the opening in his urethra, which rendered him impotent. Another attempt would have been made if he had consented.

Case II, Congenital Sebaceous Cyst.-A young, healthy, muscular Ilinhn (Malayalee), from near Palghaut, was admitted on July 30th, 1887. Ile stated that the tumonr existed at the time of his birth, and had gradually grown till two months before admission, when it had attained the size of an orange; since then it grew more

rapidly. The thmour, which was of the size and shape of a large cocoanut, was soft, fluctuating, elastic, and painless; it coukl not ho moved on the cranium, and pressure on it cansel no dis(ress: thesea)p over it was reddish, shining, and somewhat hot to tho touch; two large tortuous arteries conld be seen, one on pither side of it; it measured fifteen inches in cireumference at its roots, and twelve inches from hefore hackwards in the midnle line. After exploration it was removed on August 3rd, about a third of the distended skin being taken with it; it was found impos-
sible to take awny the sac without opening it, the wall being so thin; it was closely attached to the perieranium; its contents consisted of the usual putty-like substance, full of short hairs and a quantity of dark greasy fluid full of fat cells. The operation was performed under strict aseptic conditions; the homorrhage gare but little trouble, and the wound was dressed after the method of Sir Joseph Lister. He made a good recovery, except for a curious attack of inflammation of the glands of the neck attended with fever, which came on suddenly, and without any apparent cause, on August 6th, and left him on the 9th. During thia attack the wound was perfectly aseptic, and free from any sign of inflammation. ILe left the hospital on August 25th with the wound completely healed.

Case 1II. Impacted Intracapsular Fracture of the Left Fematr. - A young and healthy-looking Hindu horse-keeper, aged 16 , was admitted on August 16 th , complaining of pain in the left hip-joint. He atated that abont a month before he fell from a tree, from a height of about trelve feet, on his left side. He was conscious after the fall, but felt some pain in the left hipjoint; he, however, managed to walk with a limp and reach the stables, ahout a quarter of a mile distant, where he sat down. After a while, on attempting to rise, his leg became everted, and he felt considerable pain in the hip-joint, with inability to walk. He was taken home in a cart, and fomentations were daily applied. In about a fortnight's time he was able to limp about, and felt only slight pain in doing so. He did not bear any marks of syphilis or other constitutional disenses. In walking he limped a good deal, but did not evince any pain or discomfort in doing so. The left limb was straight, but looked shorter than the other. On measuring, there was a difference, the affected side being about half an inch shorter in the perpendicular line of Bryant's triangle. On manipulation the trochanter major could be felt rotating with the shaft of the femur. and distinct crepitus could be detected in the joint. IIe refused to remain in hospital after September 2nd. The leg. was kept for a fortnight in a long splint, but he found this so irksome that he wished it removed. There was little or no improvement when he left the hospital, but Dr. Sibthorpe thought that as time passed on the leg would doubtless get stronger.

## REPORTS OF SOCIETIES,

## ROYAL MEDICAL AND CIIIRURGICAL SOCIETY. Tuesdat, February I4th, 1888.

W. H. Dickinson, M.D., Vice-President, in the Chair.

Relapsing Typhlitis treated by Operation. - Mr. Frederick Treves read a paper on this subjeet, in which he said that in the majority of the cases of so-called typhlitis the appendix was the cause of the trouble, and the perityphlitic abscess was more usually an encysted peritonitis due to perforation of this process, than to disease in the cecum. The appendix might become the starting point of inflammation, by reason of congenital deformities, of changes that took place in its mesentery, producing bending; of the lodgment of foreign bodies or concretions that were encouraged to remain unmored, on account of the feeble muscular coat of the tube. This source of manifold disturbance conld be destroyed by removal of the appendix, or by correcting any simple deformity of which it was the seat. The question of such interference was only considered in reference to relapsing typhlitis. The statistica of Fitz slowed that in 11 per cent. of the examples of this affection the patient was the subject of successive attacks. In one case quoted five attacks occurred in a period of eiglitecn months. The anthor was of opinion that relapsing typhlitis was due in a very large proportion of instances to some appendicular trouble, and was, therefore, a condition which might possibly he relieved by operation during the period of quiescence that followed an uttack. A case of relapsing typhlitis, in a man aged 34, was reported. After the subsideuce of the second attack, and during a period of freedom from all symptoms, the author performed laparotomy, and found a diseased appendix, which was dealt with. The patient made a perfect recorery, and had remained free from further relapses. The mode of dealing with diseased appendices was discussed.- Mr. Tımothy Holmes remarked that Mr. Treves's very interesting paper reminded him of a case that he had treated some years ago which was somewhat similar, but in which his operation, thougl giving great relief, had not proved such n complete auccess as in Mr. Treves's case. A man, aged 30, laad been
admitted into St. George's Hospital under the care of his late colleague, Dr. Barclay, in 1880, for vomiting, constipation, and pain in the right iliac fossa. Ile was a worker in lead, and that was aupposed to have been the origin of his symptoms. Relief was given by medical treatment, but he returned to St. George's Lospital in 188t, with a more severe attack of the same nature, under Dr. Ewart. Operative treatment was suggested, on the hypothesis that the symptoms were due to a foreign body in the appendix, but mas not adopted, as the indications seemed insufficient. There was considerable improrement in two months, and he was discharged, but the day following came back to the hospital in great pain. Examination under ether showed an immovable tumour in the right iliac fossa, which felt more like a foreign body than a mass of freces. There was much thickening round it, and great pain followed the examination. As constipation was obstinate, and purgation rery distressing, he cut down upon the mass by an incision such as would be suited for tying the common iliac artery. He found a mass in the crecum, and the surrounding tissues much confused, and matted together by ofd inflammation. An elongated body adherent to the cæcum was recognised as the appendix, was somewhat torn in dissection, and a probe passed up it into the small intestine to ensure its diagnosis: the torn end was removed, and the remaining portion secured by ligature. No accurate sewing of peritoneal and mucous surfaces was possible in such thickened and adherent tissues. The result was satisfactory for the time, for the man lost his pain and vomiting, and could go to work again. His health, however, was not perfect, for whenever he ate too much, he got fresh attacks of pain, and came again under treatment at St. Georges and elsewhere. The appendix was lying vertically on the cæcum, and the adherence was so close that it would probably have been impossible to detach it completely withont wounding the bowel. The case was one which helped to justify Mr. Treves in saying that the removal of the appendix was sometimes advisable; and he agreed that if the tissues were clearly defined both peritoneal and mucous coats should be sewn together. Many years previously, when house-surgeon to St. George's, he had to deal with a woman in whom the riglit iliac region liad all the appearances of acnte cellulitis. On that he had thought it his duty to make several incisions, and to his surprise and dismay freces came out through them, and continued to do so. Nevertheless the patient lived some three months, and at the post-mortem examination it could be shown that the wound was in a rery much enlarged appendix. Mr. Treves's paper had contributed to his opimion that there was a field for active surgery in these cases.-Mr. Howard Marsh congratulated Mr. Treves on having supplied suggestions that would make the treatment of many cases clearer. He related a case of reute general peritonitis, in which he had opened the abdomen and found the cause in frecal extravasation through a perforation in the appendix. He had amputated the appendix and washed out the abdomen, but the patient died after a few hours. If the case had been brought under treatment a day or two earlier it might have been possible to save life-- Mr. Bryant cordially agreed to tle propriety in some cases of surcicalinterference, and considered the appendix as the cause of many of them. A surgeon might be quite justified in trying to anticipate the recurrence of them. If he had understood rightly that Mr. Treves had onls found an nppendix curled up and not perforated. he doubted whether he should have himself operated. He had made oblique incisions to look at the cacum, and had washed out fecal and other abscesses, but he had not amputated an appendix. -Mr. WaLshan could hardly regard all enses of typhlitis and perityphlitis as due to the appendix. He related, however, a case of acute abdominal obstruction which he sam with Dr. Andrew at St. Bartholomew's on the fourth day, and, on cutting down, found localised peritonitis around a gangrenous appendix, in which a gall-stone was lodged. He amputated the appendix, which was sealed over with plastic lymph and needed no more than a ligature. Another patient had had many attacks of abdominal pain, for which no surgical treatment had been used at first, but lately the ablomen had been opened, and a pint of foetid pus withdrawn from a localiscd peritonitis, of which no definite cause had been ascertained, but which was probably to be traced to the appendix. The man was now nearly wall.-Dr. Hare admitted that it was hardly his province to speak on a surgical subject, yet remarked with some emphasis that he had never found any need for surgical interference in lis own cases of typhlitis or peritrphlitis. In cases of acute tenderness, swelling, fever, etc., he advocated the free use of leeches to the part.
ual whe frequentiy surprised to thad such a sure source of rolief neglecterl mowadrys.- Mr. Il'Lh: obstrved thint most of those prexent must rugret to have seun cuses in which lecoches were freely nsed, but withont avail. In a cose of his own, in which he was inelined to operation, a consultation led to abmindonment of surgical measures, a resort to lecehes, and a termination in death by perfuration of the appeudix. It inight fairly be snid of such a cose that tentativo mossures rleprived him of his clunce of life. Lanther patient who had had dysuntery three times, and had lod au irregular life, came under his treatnont three weeks ago with acute pin and muchswelling of the right iliac fossa. He cut down uno the swelling aud found inflamed omentum, which he removed, und as he found no further detinite discase, took no further steps. The patient was relievod for a week, but then showed signs of a deep alacess, which was opened, and he was now convalescent. lle wisherl to call attention to a very interesting pamphlet on this subject by Dr. Henry B. Sands, of Few Fork.-Dr. Doualas l'uw shi, regretted that typhilitis and perityphlitis should have been confused in this discussion, as they were in reality as separate an pleurisy and pnenmonia, though their diagnosis was often difficult. If a foreiga body was present be admitted the use of surgical truatment, but typhlitis was generally the result of errors of lint, and could not be bencited by surgery. Ile thought "relapming typhlitis" an unfortunato title for Mr. Treves's paper, which. had, as he understood it, dealt with the treatment of relapsing perityphlitis.-Dr. Dickinsos thought that perityphlitia, as far as we could judge of it accurately from the post-mortem table, was cliefly due to diseases of the appendix, more especially to concreta, which were not foreign bodies, but of home manufacture, stratified lumps, looking at tirst sight like calculi. Ho considered Dr. Hare had quite established his right to speak on oldfashioned treatment, and agreed with lim as to the great use of leches in the carlicr though acute atages of the disease.-Mr. Tu\&ves thanked the Society for much interesting information and diacussion. Dr. Powell had opened un again the old diflicnlty of estimating the distinctions between relnpsing typhlitis, typhlitis, and porityplitis. Of typhlitis properly so called he thought we knew little: museums certainly did not illustrate it, and he was not awnere that intestinal inflammations restricted themselves to such narrow boundaries. In the cases of litz and Sands the orginul trouble had bcen almost always in the appendix; and he felt justifird in holding to lis opinion that relapeing typhlitis was tuc chielly to the discases of the appendix, and not to a mass of frecs. Mr. Holmes's case might be interpreted as an argument for carlier surgical interference. Me thought that Mr. Bryant's diainclination to operation was probably lue to his own imperfect description of tho circumstances, and would hare disappeared if he liarl seen the curled and rollod up meseatery of the appendix. Dr. Hare's remarks made him hope that earlier treatment might be made more serviceable, but they could hardly intluence the conclusions of most surgeons who had not shared his experience.

As the hour of adjournment was nearly reached, Mr. INenry Horris's paper on IIydrocele was postponed till the next mecting.

## CKINIC.IT SOCIFTY OF LONDOX

## F'RIDAY, FEBREARY 10TH, 1888.

W. 11. Bro.dDbest, M.D., F.R.C.P., President, in the Chair.

The Dirmnosis and Treatment of Ruptured Intestine without Fixternal IFomd.-Ar. Mayo Ronson, Leels, read 』 paper, basing lis remarks on six eases which had come under his own observations or ander the care of his colleagues, Mr. li. Atkinson and Mr. Ward. In two of tho cases abdominal section and enterorrapliy had lwen performed. After a detailed description of the casea, Mr. lubson remarked that in some cases of ruptured intestine, the symptoms were so distinct as to be almost pathognomonie: that other instances of abdominal injury might present most of tho signs of ruptured intestine, and yet recover; the shock being lue to disturbance of tho sympinthetic nervous system, and the thoninished liver dulness to distended intestine; that the usual symptoms might be entirely absent for a time, only becaming uvilent aftrer some hours; and that a failure in diagmosis might occur from injury to other regions taking the attention from the abdomen. In uliscussing the diagnosis, Nr. Robson ronsidered the symptoms anll sigas separately, and then collectively; remarking on the variability of the causc, the difference in the rlegree of shock, the usuully rapid and feeble pulse, the con: tant presence, of vomiting and of pain, and later, the usual signs of peritonitis;
but especially dwelling on the importanco of alterod liver dulness, which when normal was almose proof of absence of perforating wount of alimentary eamal; when diminished, was suspicious of perforation, but when absent was almost pathognownonic of rupture. Its considered the combination of aymjotoms most to be relied on were shock more or less severe following immedintely, or within a short time, on an accident; pain in the abdomen; moderately guick and llably pulse; vomiting of contents of stomuch, followed by bilions vomit: anxious countenance; and diminished or absent liver dulness. After showing that on expectant treatment no roliance could the placed, Dlr. Robson remarked that tho only hope of success lay in early operation, and consequently that a timely diagnosis was of vital importance, to attain which it would seem necessary that all cases of intra-abdominal injury should be botli accurately observed and fully reported. "For his own guidanoe ho had adopted the following rule. In cases where there was a reasonablo belief that the intestine was wounded, as evidenced by the liatory, symptoms, and signs, exploration by a small median incision must be made: when, if there were any rupture of the bowel, flatus or serum, tinged with blood or faculent muterial, would escape through the small peritoneal opening, which could then bo enlarged, and necessary treatment adopted; but should no llatus or flud appear and the peritoneum prove to be healthy, the small wound coula be closed, and no harm would have been done.- Mr . Golding-Bird said that the late Mr. Alfed Poland was wont, in cases of abdominal injury, to ascribe pains radiating from one point of the abdomen to rupture of the bowel; and lis treatment in all such cases was very strict. For example, he would not allow the patient to suck ice. He considered that the surgeon knew not how much was taken, and that pounds might be given by the nurse in twenty-four hours. Often at a past-mortem examination there might be pints of blood-stained liquill (chiefly the melted ice) found in the afdominal cavity. The speaker asked how Ilr. Robson'a patients had been treated, re food, prior' to operation. Some of the cases showed the symptoms early, some late. Was it known in each case how long before the accident the previous meal bad been taken?-Mr. Bryant thought there was room for improvement in the surgical treatment of these cases. Mr. Robson had emphasised the fact that patients might hove received a considerable rupture of the bowel, and yet have scarcely any indications in pain, pulse, or even local tenderness. Acting on this knowledge, he himself alvays instructed his dressers to admit all cases of abdominal injury, and keep them for twenty-four hours in bed, to see, what might eventuate. He would give one instance of the value of this plan. A child fell on a sharp pointed piece of wood. When admitted to the ward. she had scarcely any external sign of injury, but ale had cried much at the time of the accident. She had no pain on admission. Scarcely any food was given, but in twenty-four hours there was a slight tendency to romit, and it was thought probable that peritonitis might be coming on. Next day there Fas acute peritonitis, and on the fifth day the.child died. At the necropsy, rupture of the intestine was found. Granting the diagnosis, which was often a matter of difficulty, there could be no doubt about the treatment to be adopted in the way of surgical operation if the diagnosis tended to aupport the theory of rupture. In a former volume of the Guy's Ifospital Jieporte, Mr. Holand had published a valuable paper on theso cases. If one couk not find therein the materials to support the line of treatment recommended by Mr. Robson, he feared it would bo obtained nowhere else-Sir Wimbiam Mac Commac had lislened witls much pleasure to the paper of Mr. Robson, which cudorsed the line of treatment that he himself had recently inculcated. He thought that surgeons should adopt in these cases the same plan as in hromis-namely; "when in doubt, operate." He was glad that Mr. Bryant had also endorsed that plan of treatment. Mr. Rohson's case sliowed that the old ider of collapse was not reliable. He himstlf had seen patients with ruptured bowrl walk to the hospital and have no pain for some little time.-Mr. W. 11. Bennett said that often, in cases of abdominal injury, the symptoms were so sliglat that he thought Mr. Bryant's proposition to wateh them for twenty-four hones was not enongh. Thus, in the case of a youth struek by a cricket-bull, who was cent'to berl. and kejpt on a apare diet for a week, there were scarcely any symptoms of acvere injury; he was then allowell to leave his bed, at once felt faint. and in a short time was dead. Upon inspeetion there was foum to be rupture of the duodenum, extending half round the bowel, allowing extravasation of feces. The amount of symptoms
might be due to the amount of peritoncum involved in the rupture; for, in the case cited, there was very little peritonitis found at the post-mortem examination, and at the first the peritoneum was probably not involved. P'erhaps, cren if laparotomy had been perforned, the mpture might not have been in that case dis-covered.-Mr. Rosson, in reply, said that slock due to the injury must be distinguished from that due to its after-effects. When absorption of the extravasated matcrial set in, the symptoms were rapid and violent. It wonld be rather inconvenient to keep all cases of abdominal bruising in hospital for a week, though he agrced with Mr. Bryant that detention for twenty-four hours was most advisable. But even the rigorous adoption of this plan would have been of no arail in his first case, as that patient came to the hospital for the injury to his head, and did not mention at the time that his abdomen was at all hurt. In all cases where the injury was indircct the pain was of a general claaracter; it was only radiating from one point when caused by a direct blow. As regarded treatment, he always starved these cases, and allowed no ice in any ahdominal casc. Even in orariotomy he only allowed ice in pieces the size of a pea, and if thirst was great, he ordered an injection of one pint of Inkewarm water into the bowel, whence a large amonnt of it was alsorbed,

A Case of Intestinal Obstruction, in zohich the Colon gave way Outside the Pr ritoneum.-Mr. William II. Bennett brought forward this case. The patient was a gentleman advanced in age, thlo for many years had been hahitually constipated. At frequent intervals he was in the habit of using violent purges, without which the borrels never acted. About the middle of Ecptember, 1.887, the constipation became more obstinate, and attacks of colic, rom which the patient had also often suffered for years, were 'requent and most severe. Hc was able, however, to obtain' suffi--ient relief by means of his usual medicines up to October 17th, When a very small hard motion was the only result of this treat-
uent; the colic, which was very acnte, did not completely subment; the colic, which was very acnte, did not completely sub-
icle. Gradnaily the abdomen became distended, and great dis:omfort ensued in consequence. Further purges were taken ritlont any good effect, although there was a frequent urgent lesire to defeecate. On the 21 st, whilst stooping over a letter, he elt a sudden acute pain passing down into the left loin. Some vas seen by Mr. Bennett on the 22nd. $\because$ His face was pinched and nxions in aspect; the tongue was brown and dry; the pulse very reak. The belly was much distended, especially on the left side, chere the loin bulged very prominently. The rectum was empty, ut a lard mass conld be felt throngh its walls, situated in the owel higher up. The distress from the distension was extreme, nd the patient begged for an operation. As the case was clearly nc of obstruction above the sigmoid flexure, a left lumbar caloamy was performed. On opening the abdominal cavity there uslied out, before any gut was exposed, a large quantity of gas nd some liquid freces: on introducing the finger, the intestine ould be felt in front of a space, from which the gas, etc., had ome ; manipulation of the colon, which could be easily made out, aused the air whiclı remained in it to come through an opening 1 the gut at the lower part of the space mentioned, just below
hich could be felt a hard mass in the bowel. The distension at nce subsided, bat the patient became collapsed and did not rally. he case was recrarded as a clear instance of rupture of the colon atside the peritoncum, which explained the mildness of the mptams following immediately upon the giving way of the gut, hich it was assumed took place when the acute pain, mentioned the account of the case, suddenly seized the paticnt. In the me way the one-sided character of the abdominal disteusion and te absence of peritonitis could be acconnted for, and a curious rroboration afforded to a statement of the patient, to the effect lat atternpts at defecation only increased his distress, for it was sy to see how such attempts could force the contents of the lon more and more into the surrounding cellular tissnc. The se was considered remarkable for its rarity, dnd on that account id been thought worthy of record.
Intestinal Obstruction: Nélaton's Operation: Death: Folvulus of e Crecum: Malposition of the Ascending Colon.-Mr. Walswam rited the case of a man, aged 63, previonsly healthy, suddenly scized ith severe abdominal pain and romiting, and the bowels, which are regular $11 p$ to the time of the seizure, became abstinately nfined. On his admission, two days later, into St. Bartholomew's sspital, under the care of Dr. Gee, nothing could be found to count for the pain, either on palpation of the abdomen or rectal amination, save some slight fulness and tenderness in the right
iliac region. Temperature, tongue, pulse, etc., Were fairly normal. On the 18th, two clays after being in the hospital, he began in vomit contimonsly. On the $20 t h$ lie scemed better, and the vomiting ceased, but the bowels remained obstinately' confincd. On the 24 th, stercoraceous vomiting set in, and he became collapsed. A'consultation was held, but no diagnosis could be arrived at, save that the obstruction was probably situated low down, though too high to admit of relief by right colotomy. As the patient's condition was such as to make it appear probable that he would die on the table were exploration of the abdomen attempted, the abdomen was opened in the middle line, and a portion of inflamed and distended intestinc-the portion which first presented-was secured by suture to the abdominal wall. Only a small quantity of freces escaped. Though romiting did not return, the abdomen continued swollen and tender, and the bowels remained unopened. He died on the afternoon of the 23 rd . At the necropsy a valvulus of the crenm was discovered, as shown in the specimen exhibited. There was general peritonitis, but neither cxtravasation of freces nor collection of fluid in the peritoneal cavity. It was found on tracing the put backward that the colon, beyond the splenic flexure, instead of passing across the abdomen to form the transwerse arch, descended vertically to the left iliac'fossa, and thence returned to the lower border of the stomach, forming a U-shaped bend. It then turned to the right, and, having reached the median line of the abdamen, again ran downwards to end in the cecum, which was situated over the last lumbar vertebra almost in the middle line. There was no ascending colon in the right loin, and the cecum was absent from the right iliac fossa. The gut that was opened proved to be the crecum, which was situated at the apex of the volvulus. It was uleerated in places; but, owing to the surrounding adliesions, no freces had escaped. Mr. Walsham remarked that the suddenness and acutenes's ot the symptoms pointed to some internal strangulation or volvulus: but, after carefnl watching, no definite diagnosis conld be arrired at. Laparotomy was not undertaken, because of the patient's collapsed condition; and Nélaton's operawas accordingly performed. As it turned ont by this operation, the crecum, the apex of the volvulus, was secured to the wound, and subsequent untwisting of the gut prevented. Mr. Walsham, howeyer, did not believe that the gut could in any case have be come untwisted rithout surgical interference. Some surgeons held that primary enterotomy was not to be adrised, while others thought highly of it as bcing less dangerous than exploration of the abdomen. In the present case, enterotomy was performed as likely to give the patient a better chance. Mr. Walsham thought that the consideration that like and -imilar conditions, though rare, were of occasional occurrence, should influence us to some slight extent in determining whether laparotomy or enterotomy should le performed, and, when taken in connection with the other objections that had been raised by some surgeans, should, he thought, dispose us to reserve enterotomy as a primary opcration merely for those desperate enses in which it appeared thatlaparotomy must inevitably prave fatal.-The President considercd both cases unique, each in its own way.-Mr. Bryant recited the case of a lady, aged $\overline{3} 3$, liathe to attacks of spasm and nausea, with difficulty of defacation, for which she was constantly taking aperient medicine. She was seized at Folkestone with intestinal obstruction, and was thenct: bronght back to London. Being summoned by Dr. Cumberbatel, Mr. Bryant found the case to be one of chrouic obstruction, with acute symptoms superadded. The abdomen was swollen, with large coils of intestine bulging its anterior wall. Nothing could be felt from the rectum. Right colotomy was performed, hut the ascending colon was found empty. Nélaton's operation was then performed between the umbilicus and right anterior superior iliac spine, where a large coil of intestine was especially cvident. For three days the bowel continucd to empty itself; and on the fourth day the stitches were removed. The patient rallied much after the operation, and did well for a time; but unfortunately she remained very feeble, and eventually died on the fourteenth day; from exhanstion. At the necropsy a large distended sac was fomd in the abdomen; this was the crecum, which had fallen over a band, so that what should have been its posterior had become its anterior surface, and its lower end was also turned upwards. The volvulus of the ceecum caused obstruction in the ascending colon near the scat of the first operation. Failing to find the distenderl bowel in the colotomy, it was right to do "the Nélaton." It relieved the patient; and had slie been jounger, he believed she: wonld have recorered. In cases where constricting bands or in-

Wernal herniw were expectel, or in other doubtful cases where colalomy was ont of court, layarotomy was called for. He had had threc eases; one lived for tive months, and nother for two montha, much relieved hy the opuration. Ilo might cito nonther case of culotomy which boru upon . Mr. Bennett's tase. Upon cutting into the subperitoneal tissue, a yufl of foculent gas escuped. Upon traction being made upon the colon, freces passed also from butind thu dowel. The wound was then thorenghly washed out with iodyup water, and a drainage-tube inserted., On the third day the buwel was opened, and the patient went on to recovery. He now thought that the ease nust have benn such a one as that described by Mr. Bennett.-Mr. Howald Mansh satid that, is reganded Mr. Treyes's adverse opinion of Nolaton's operation, there were iustances in which the patieat was so ill from obstraction that lapurotomy conld nat bo done; then to open the abolomen in the middle line, and perform Nélaton's operation, sometimes gayo great relicf. A patient so operated upon by Mr, Morrant Baber some vears ago had recovered. lle would ask if there was any considerable resistance under the abdominal wall in Jr. Walsham's case to point to the trouble being at the region operated upon, If so, possibly tho patient would have had more chapen if the operation lud been done farther from tho actual site, of the trouble. Ile had lately operated upon a patient by aprening the colon in the loin, and solarge a quantity of faces had immediately escaped that he bulicved if the operation had not been done the howel would soon havo raptured.-Dr. IfsinBuat llamknsmon said that Le had recently made a post-mortem exumination on a man supposed to hare maliguant clisease of the sigmoid flexure Fourtern days before death he had great pain in the ablomen, but went to his work until two days before death, when peritonitis began. The ascending colon was parallel and close to the descending, and there was cancer of the sigmoid thexure- Mr. Ronsos askd if any pus was found behind the colon in Mr. Bennett's case, Jight it not be that an abscess had lroken into the howel? IIe Lad twice perfermed Nélaton's operation, once successfully, whilat the other patient died two; days after the operation. In the first case the patient bad cancer, and upon colotomy being done, the bowel was found to be empty, A largo coil of intestine was then discoverel beneath the anterior ablominal wall; it was brought to the surface, stitched there, and opened, and the patient was probably living now. It was a great comfort to have N'faton's operation to [all back uponwhen the abelomea could not be cxplored. - The President mentioned a caso that had perplexed him. Upon an exploratory incision being made the cascum was found distended, nud lying in the pelyis, and encircled by a coil of ndhurent small intestine, which had, blocked the passage. The coocum had given way during the operation, and the patient died from peritonitis.- Mr. lisnnkit said Ilr. Bryant's case was evidently like his own. There, was no trace of pus in then mity behind the bowel, and it was not at all like an ahsuess eavity.-Mr. Warsmam suid that it was thought that there was some fulness in the left iliac fossa, but nothing detinite was made out. An carly operation would probably have anved his patient.

Living specimons. The following living specimens were exhibitpd. 1fy Sr. 13. Ruru: \& Girl with Arrested Growth of Ulna from Exostosis. Ir. I'aateur: A case of Congenital Ilypertrophy of One Lower Limbin a Ciirl. Dr. lox: A Girl with a Chancre on tho Lip. Mr. Marsu: A Successful C'ase of Lapurotomy for Tulereular leritonitis.

## MEDICAL SOCHETY OH LONDON <br> honhay, fbbetary 13 th, 1888.

J. Itrinhings Jaceson, M.D., F.R.S., I'resident, in the Chair. Ths T'reatment of liheumatic Fecer.-Dr. Dosat, Ilood read a papur on thes treatment of rheumatism, with especial raference to the nee oil the sulieylates, au ubstrnct of which we shatl publish. Dr. S. West said thint the value of statistics sach as those drawn up hy Dr. Hood, depended, to a very great extent, ufon the way that the items were classified and grenped. I'robahly ne disease was so diflicult te classify and projerly group as rhemanatic fever and the different diseases which were elokely allied to it aud so dificule to distinguish from it. It was very curious, on comparing the statistics of different hospituls, to see how those dififermacts were grouped in so mauy uncxpected ways, Ho thought that the hight pererntage in recent statisties of morbus cordis was due to the fact that the statisticians were much more carcful. They were now imtadunly appreximating to the origiana
statistics when the connection between the two was first describel. Ho said that a great deal turned upon the anomalous groups of cases which might be termed clironic rheumatisum or eluronic rheumatic fever, according, to the relation which it was supposcd they bore to rheumatic fever... He observed that there had only been one or two cases of liyperpyrexia under his notice during the last seven or eight years, whereas when a student they were of comparatively frequent, ocgurreace. Another important point, which tended to vitiate the conclusions was that drunkards suffering from acutc rhcumatism were very liable to get delirium,--Dr. Whipmas observel that, when that method of treatment was first introduced in London, they found exactly what Dr. Hood had said-namely, that relapse after relapse oecurred. It then became clear that the salicylates were anodynes more than anything else. Since then it had always becn the custour to combine alkalies with the salieylates, according to the condition of the urinc. With such a mixture, relapses were comparatively rare. He was inclined to attribute the toxic effects to impurity of or imperfections in the drug. He mentioned that in 655 cases of rieumatic fever brought together for the Collective luvestigation Committee, only fonr cases of hyperpyrexia were reportcu. The best remedy for delirinm was aleolol.-Dr. Wicziana Legg said he had noticed symptoms resulting from, the uze of the salicylates respecting which further inquiry was necessary. He said they would have to find out what the cause of these effects was.-Dr. Drewitt observed that the appearance of the artificial acid differed in toto from that oltained from the oil of wintergreen; and, moreover, that if one compared samples of the acid at different hospitals or from different chemists, the greatest variety was found of taste, appearance, and effects.-Dr. Anchinald Garrod mentioned seyeral instances of very severe symptoms following the administritiou of salicylate of soda, and expressed an opinion that differences in the preparations used were responsible for many of these effects. He said he had certainly noticed epidemics, so to speak, of toxic effects in patients during particular periods of time. He added that discrimination was necessary in the administration of the salicylates, and in persons who could not be closely watehed their. use had probally be better dispensed with.-Dr. Rovie recommended the employment of cold baths as a meaus of combating the tendency to hyperpyrexia.. IIe pointed out that the connection had not been mude clear between the delirium recorded in Dr. Hlood's paper and the hyperpyrexia. He thought that delirium was often due to an impending attack of hyperpyrexia.--Dr. Dosarid Iloon,' in reply, suid he had not intended to convey the ides that hyperpyrexia was more common, but only, that it would some times occur in spite of antipyretics. He mentioned that hyperpyrexin occurred in cyeles of intensity. He wished to contest Dr. Fagge's assertion that hyperpyrcxia might bo averted if the patient only took enough salicylate.
Some hitherto Undeseribed Symptoms in the Early Itistory of Oiteo-Arthritis,-Dr. Kent Spender read a paper on this snbject.

## rotal agademy of medicine in ireland.

 Mepical Section.Friday, January 27 tif, 1883.
James Littree, M.D., Iresident, in the Chair.
Nerrous Diseases: Congenital Spastic Paraplegia: Atazic Para-plegia.--Dr. C. J. Nixux made a commmication upon congenital sprastic paralysio and ataxic paraplegia, and c:xhibited two cases illustrating Loth discases. He divided cases of congerital paralysis into those which were cerebral and those which werc spinal in origin, and dwelt at length upon the variaus conditions with which both forms were associated. One of the cases exhibited was paraplegith, due to compression of the upper part of the Rolandic area during an instrumental delivery by the forceps. In the case of atasic parnplegia Dr. Xixon first detailed the evidence which had been affurled by recent investizations as to the probable course taken ly the sensory musel-tracts in the spinal cordnamely, in the celums of Gull, the direet cerebellar tracts, aud in the slort rertical tibres which connect the posterior horns of groy matter at diffrent levels in the spinal cord. The last was Why part in which the comma-shaped degeneration was found. In noting the motor paralysis which existed in ataxie paraplegia, eppecial reference was made to the difticulty of distinguishing a lesion of the dellicate fibrillary network which connects the terminations of the pyramidal tracts with the network of (yerlach,
hough a glight lesion in the situation, as heing the furthest point from the influence of the trophic centres, would most probably be attended with serlous disturbance of the motor function. Dr. Nixon also adverted to the 'different pathological lesions' which might be set up in the corl, the rosults of which, as regards the intensity of the symptoms and their duration might be rery dif-

Many cases of the most profound disturlance of both sensibility and riblilit y got well, thongh this result was nsually considered as phenomenal. Allusion was made to the effect of reatment in certain affeetions of-thespinal cord. -The President observed that it. was evident Dr. Nixon did not share the opinion of a distinguished physician that "all discases of the nervous system are either syplifitic, or they are not ; if they are not, yon will do them no good: if they are syphifitic, treat them with odide of potassium. "-The Rev. Dr. Hiughtos saidlthe distincsion drawn by Dr. Nixon between. the sensory and muscular nerves was of great importance. There was one thing they had certainly determined, although the differenee: was excecdingly mall-mamely, that the. rate of transmission of a sensation and the rate of transmission of an order from the brain to use muszular action differed slightly. Everything seemed to. slow that he mode of communication with the external world, which topk place from the sensorial neryes und from the nerves that transnitted orders for muscular action, differeal.-Dr. .Bewley related the symptoms presented by a man suffering from ataxic paraplegia under his care. This man, aged 38 , with no history of yphilis or alcoholism, had been in perfect health until April last. when he began to suffer from pain in the lower humbar region of ais spine on going to bed. The case was remarkable for the great capidity with which the symptoms had eome on. Within a fortaight after the first trauble had been noticed in the legs ataxy was extreme; and within two months the man was unable to move his legs, owing to their rigidity. The affection of the sensory nerves was indicated by the anesthesia and pain atributable to slightisclerosis of the posterp-external column in . the lumbar region, which. was sufficient to cause irritation of the sensory nerve roots, hut not.sufficient to cause paralysis. Locomotor ataxy and spastic" paraplegia were two extremès lictween which might be found almost any. combination of spmptoms. Dr. Walter Smity mentioned a case in Sir Patrick Dun's llospital as illustrating one of the most interesting phenomena of spinal diseases, namely, the different modes of transmission of lifferent' sensory impulses. Prieking the patient with a pin or twisting the skin he did not perceive: yet in all parts of the limbs, lown to the very toes, he could feel and localise accurately the ;ouch of a feather, while he was thoroughly insensible to the most painful impressions, and unable to discriminate between hoat and sold. The symptors pointed to acute destructive inflammation of ;he lower part of the spinal cord.-Dr. Nixos, in reply, sadd it. was not to be expected that all cases of ataxic, paraplegia would je precisely similar. On the contrary thes must vary, innsmuch is the pathological changes in any two cases would rary, and tcordingly as the disease hecame wore pronounced in the lateral racts in one case or in the posterior,
Hercdity in IKcemorrhagic Purpura.- Dr. 'J. F. Ksotr read a aper on this subject.-Mtr. For, Dr. I. k. Pollock, and Dr. C. F. Hoore made some remarks, and Dr. Kxort replied.

## CAMBRIDGE MEDICAL SOCIETY.

Friday, Januatry 6tit; 1888.
E. Carver, F.r.C.S., President, in the Chair.

Note on Subcutaneous Foidules in the Mands,-ihe Presiliest ead a short paper on subcutanebis nodules in the hads occurring n rheumatic individuals. Itis remarks were based on two cases thich had somerrhat recently come under his notice. The patients rere gentlemen on the shady side of 50 ; each was rheumatic, lyspeptic, and somewhat gouty. The nodules were pdinful only n pressure, and fixed to the derper textures, but unattached to lie skin, which preserved its normal healthy canditidn. In the ne casc the nodules disappeared under treatment by allanies and olchicum; in the othre case the nodules diminished under alkaline reatment. Both cases showed evidence of gout in the contracted ngor and enlargement of the phalangeal joint. The fibrous nature, f the nodules was alluded to, their microscopic appearance being lentical with that of the regetations on the valres of the heart. 'he President hrought these cases pefore the Society inasmuch as ho behayiour of the nodules was different from that described by thers. In the young and uy to early adult age the nodules had
been observed to come and go, sometimes in successire crops, disappearing altogether in from a few days to a few months. Where these nodules had appeared later in life, they hall been noticed to last for years.
Cases of Abscess in the Tibia. - Professor IItmpiny related two cases of this disease, which presentert the ordinary symptoms of abscess in bone, but were situated rather lower down than usual. Ife remarked on the length of the precious history of the symptoms in these two cases. Remarks were made by Dr. Essisy' land Mr. Therti:

Wound of Palmar Arch: Abmormal Blood Supply,-Mr. WHERRY related the histoty of a middle-aged woman, who brole a glass, bottle with great violence into the palm of the hand. The surgeon in attendance harl tried all the usual means of stopping hemorrhage, but without lasting success, so that during four weeks there were six considerable and sudden losses of blood. When Mr. Wherry first saw the hand, a month after the accitent, thie fingers were becoming. gangrenous, and the generil condition of the patient was fceble and anmemic. Amputation of, the hand Was followed by a good recoyery. Alarge traumatic aneurysm was found in the palm, full of clot and jlieces of glass. A large ulnar artery communicated rith the sàc, and no deep arch formed by the radial existed. There was no deep or communicating branch from the ulnar artery passing between the little finger muscles. The small representative of the radial appeared to commnnieate with the wounded paimar arch by a branch jassing thruugh the second interosseous space. This absence of the deep arterial arch, with the enlargement of the superficial (ulnar) supply in the hand, was, according to Quain, the most uncommon of abnormalities, and might explain the great difficulty in controlling the hamorrage, and also the ready tendency, to gangrene of the djgits in a large, flat hánd.

Enlargement of the Prostate-Mr. Griffitas showed this specimen. Tlie patient was an elderly man, whose urine contained a small, quantity of albumen; attacks of uremic convulsions came on, and he died comatose. The heart was hypertrophied, and the ureters and pelves of the kidneys muel dilated. The third lobe of, the prostate was, remarkably enlarged and. prominent, and there was a saccule in the bladder. Mr. Griffiths gare a detailed account of the morbid anatomy and histological characters of this form of enlargement of the prostate. It corresponded entirely with the adenomata, and, might be well compared with such tumours as adenoma of the mamma.

## MIDLAND MEDICAL SOCIETY.

WEDNESDAT, JANT' nY シ̈̈TH, 1888.
W. Ross Jordax, M.R.C.S., President, in the Chair.

Congental Sacral Tumour:-Mr. Willian Thomis exhbited a child, aged 11 months, which had a large congenital sacral tumour. The tumour was of a mixed character, containing sereral cysts, much fatty tissue, and some firm cartilage-like masses eoutinuous with, but movable on, the sacrum. So communication was evident, betreen the tumour and the spinal canal. The tumour projected downwards and backwards, its lower limitr reaching the middle third of the thigh. The mother stated that it was relatively as large at birth. Mr. Thomas intended kecping it under obser ration for a time with a view to remoral.

An uridescribed Fatlacy, in Testing for Albumesi in Urine with Nitric Acid.-Dr. Caberer drew attention to the importance of securing complete purity of nitric acid for the purpose of testing for albunen in urine; and showed a specimen of acid which he had obtainell frow a druggist of goou position, and which, evidently from the presence of some impurity. gave reactions indistinguishable from those of albumea, Sulsequent analysis of the nitric acid had shown that it contamed a trace of nitrate of silver.

Cirdiac Thromboszs--Dr. Cirter also shomed a specimen of dardiae thromhosis, taken from a lad of 13 years of age, who ahout a fortnight previously had been attacked with sore throat of a low type. The lad was very emaciated, had been greatly neglected, amel his surroundings had been unhealthy, of ferm days he fore his death he had been attacked with acute pnemmouia, and Was ahmitted into the Qucen's Hospital in is state of, collupse, and died shortly afterwards. Ou post-mortem examination adberent clots of various sizes were found in both rentricles. many of which had undergone coutral softening, and were beginuing to break up. The greater part of the right hugr was in a state of pheumonic consolidation, and presented two or three recent in-
farcts of considerable size. The left lung was congested, but free from consolidation and infarcts. The other organs were normal. Dr. Carter drew attention to the importance of the nutrition and vitality of the blood as a tissue of the boty, as a factor in thrombosis, to which he wus iuclined to attack even greater pachological significance in these cases, than to such conditions as alterafion of the vascular walls, and retardation of the blood-current.

Abscens of Prontal Sinus.-Mr. Lroyd Owen shawed a case of chronic abscess of frontal simus suceessfully treated by opening and free drainage.

Tuberchlar Necrosis of Cranial Bones.-Mr. Barling showed a case of tubercular necrosis of the cranial bones, causing perforation, in a young girl.

Use of Electricity in Gynacolony.-Mr. J. W. Tavlon read a paper on the Use of Electricity in Gynrecology.

## BRIGHTOA AND SUSSLEX MEDICO-CIIRURGICAL SOCIETY. Thimsnay, Fembeary 2nd, 1888.

## E. Mackey, M.D., afterwards J. Harms Ross, M.D.,

 in the Chuir.Lupus Frythematosus.-Dr. Mackey bhowed a case of this disease in a woman, aged about 43 , of three years' duration. Treatment by resorcin, and scarification was just commenced.

Nephrotomy.-Mr. Jenner Verrall read notes of a case of renal calculus with nephrotomy. The patient, a married woman, aged 47 , first naticed pain in the right flank five years ago, after a confinement. At times there was hematuria, but never severe. The pain had steadily increased, and after her last confinement, three years ago, pus first appenred in the urine. The quantity passed had been variable, the urine being at times almost wholly purulent. For some time there had heen awelling of the riglit side of the abdomen, which had more than once disappeared with sudd n passing of a quantity of pus, and again reformed. It was present when the patient was admitted into Sussex Connty Ilospital under Dr. Mackey. As she was getting gradually werse, and there was distinct evidence of a calculus, Mr. Terrall, on December joth, 1887, explored the kidney from the lumbar side, and extracted a large stone, weighing when removed three ounces and a half. The cavity was at first drained, but the tube was removed on December zyth. The wound was closed with the exception of a small sinus, discharging about a drachm of pus in the twentyfour hours. General condition much improved, thongh there is still some nocturnal rise of temperature, and about one-eighth of pus in the urine.

Tubercular Pyosalpinc.-Dr. CHAFFEX shawed a specimen of endometritis and meningitis from a child, aged 12 years, who died with chronic tabercular peritonitis. The body of the uterus was enlarged to the size of a pigeon's egg, its cavity, along with that of the F'alopian tubes, being distended with cream-like material. The os internum was plugged with glairy mucus ; cervix natural: no displacement of uterns. Destructive changes had taken place in the walls of the organ, so that no definite tubercular growth could be distinguished.
Clinical Remarks on Resorcin, Anfifebrin, Naphthol, and Naph-thalin.-Dr. Mackey read a paper showing the value of resorein in gastric ulcer and catarrh, as illustrated by fifteen cases; also on the power of moderate doses of antifchrin to lower pyrexial temperatures, of naphthol to relieve pruritis, ctc., and of naphthalim to control intestinal catarrh and offensive stoals.- Mr. Vemall mentioned two cases of gastric ulcer without hamatemesis, which rapidly disappeared under the internal administration of resorcin.-Mr. Chesswible Baber had found in a case of epithelioma of the fauces more relef to the pain from a spray of 20 per cent. resorcin combined with cocaine than from a spray of the per cent. resorcin combined with cocaine aran fame, although it had no effect in arresting the disease.

Phosphores Poisoning.-Mr. Lingand Stokes gave particulars of a case of phosphorus poisoning in a woman, aged about 20, who was seen to fwallow some green-coloured paste five days before she died. The symptoms were vomiting, slight jaundice, coldnese of extremities, severe pain in the ablomen, especially in the epigastrium, great thirst, etc. On examination the muscles were found soft and fatty ; the pericardinm contained some brown serous flaid; heart full, othrwise healthy: lungs healthy; liver greatly enlarged, of the consisteneer of dough, breaking down on the least pressure, of pale yellow colour, not a trace of liver colour being found. The stomach showed the usual symptoms of gastritis; no ulceration. The intestines were much inflamed, but Iresented no luminous patches. The kilneys were large, white,
and fatty, the pyramids natural in colour and cortex thite. The stomach contained a large quantity of chocolutemeoloured grumous fluid, which, on first opening and heating, gave uff a slight smell of phosphorus.- Mr. Dotghas Ross referred to a case of phospliorous poisoning he had brought before the Society (sce Joursal for December Srd, 1887), and thought that the state of the liver left no doubt ns to Mr. Stokes's case being of this character.-Dr. Harme hoss, Dr. Ciaffey, and Dr. Mackis aleo took part in the discussion.

## MANCIESTER MEDICAL SOCIETY: <br> Wednesday, Fennuaty 1st, 1888.

Julius Drescifeld, M.D., F.R.C.P., President, in the Chair-
Bacteria.-The Preaident, on taking the chair, delivered an Inaugural Address on Bacteria.

Plastic Surgery.-Mr. Whitemead showed a patient on whom he had performed a successful plastic operation. The skin had been taken from the arm, and the ohject of the operation had been to restore the surface of an extensive rodent ulcer which had been excised. During the period of union the arm was fixed to the head by plaster-of-Paris.

Osteitis Deformans.-Mr. Southam showed a man, aged 70, with osteitis deformans. The bones generally were affected, especially the cranium, spinal column, and shafts of both tibie. The disease commenced thirty-five years ago, and was apparently induced by exposure to cold and damp. The patient was also iffected with contraction of the palmar fascia, and it was suggested that both conditions were of rheumatic origin.-Mr. Bishop showed a woman suffering from the same disease.

Spina Bifida Occulta.-Mr. Stocis showed a case of spina bifida occulta, in which the lumbar region for about the space of six inches was covered with a considerable crop of long hair. The arches and spinaus processes of several of the lumbar vertebre were wanting. The patient was a woman in good health, the mother of several children, who had never suffered any inconrenience from the want of development.

Unnoticed Symptoms, and Unrecorded Reflex.-Mr. IIenny Colley Marcif communicated an unnotieed symptom in aepticemia, and an unrecorded cutaueons pain-reflex, producible at will.

## LEEDS AND WEST RIDING MEDICO-CIIIRURQICAL SOCIETY.

Friday, Febmuary 3rd, 1883.
Enward Atminson, M.R.C.S., President, in the Chair.
Intestinal Obstruction.-Mr. McGun showed a case of acute intestinal obstruction due to a Meckel's diverticulum successfully treated by laparotomy (see Journal for January 14tli).

Ileo-cecal Growth.-Mr. Jessop related a case in which obstruction was caused by on ileo-ceceal growth. G. J., nged 33, signalman, was admitted into the Leceds Ceneral Infirmary on November 22nd, 1887. Nine weeks previously, there was a gradual onset of abdominal pain, and at the end of twenty-four days he was seized with symptoms of complete obstruction, the vomiting hecoming stercoraceous. This lasted for seventern days, when diarrhoea supervened, and there had been no vomiting for eifht days before admission, at which time he was wery ill and wasted, the abdomen much distended with constont herborygine and visible peristalsis. On December lst, the abdomen was opened by the usual median incision, and a hard, fixed, irregular mass was at once felt at the junction of the ileun and cxcim. The colon was collapsed. An incision was made $n$ few inches above the obstruction, and an artificial anus was established, the whole of the small intestines having been passed twice through the fingers in order to empty them and facilitate their reduction within the ablominal cavity. The patient mnde a good recovery, and was discharged on January 21 st, 1888.

Intestinal Diverticulum.-Mr. T. Pridein Teale narrated the case of a man, aged 28 , who had previonsly suffered from attacks of colic, and who, on December 24th, after a hearty supper was scized with colic, somiting, and obstruction of howels. When seen on December 27 th ly Mr. Teale, there had been no vomiting fer twelve hours, and it was decided to wuit. On the vsth vomiting came on again, and grew steadily worse; and on the enth the abdomen was opened ly a median incision below the umbilicus. A coil of intestine was seen to be hound down ly a slender, though firn band, from the cut ends of which, when divided, a thin flum
exudsd, having a distinctly stercoraceons odour. The ends were secured by ligature. Upon irrigating the peritonenm a clnbbed diverticulum was washed up out of the pelvis, where apparently the free end had been impacted, and had in that way been enabled to give rise to symptoms of oustruction. The patient died immediately after tle operation.

Fuptrere of Intestine:-Mr. Aternson, related the case of a porter, aged 28 , who was admitted into the infirmary at 2 p.m., August 15th, 1887, having shortly before received a serere contusion of the abdomen from falling against the edge of a table. On admission he was somewhat collapsed. The breathing was thoracic; the abdominal walls retracted; there was no pain but there was tenderness over contused spot; the flanks were resonant, the liver dulness normal. A catheter was passed and clear urine drawn off. Ife shortly afterwards vomited some undigested food free from blood. Intense abdominal pain afterwards came on above the level of the umbilicus, and at 10 p.m. abdominal section was performed by median incision below the umbilicus. Bubbles of gas and some blool-stained fluid escaped. The intestines were deeply injected, and glued togetler in places by patches of lymph. A perforation about half an inch in length was found close to the duodenum. The mucous membrane was everted close to the mesentery, which, as well as the iutestine, was severely contused and ecchymosed. The wound was closed with six Lembert's sutures of chromicised gut; the peritoneal cavity irrigated with a 2 per cent. solution of boracic acid at a temperature of $96^{\circ}$; a Bantock's tube placed into the recto-vesical pouch, and the abdominal wonnd closed with wire sutures. He grew steadily worse, with occasional vomiting, hiccough, pain, tympany, and complete obstruction. On August 15 th, there being obrious peritonitis, the abdominal wound was reopened at midday, and the peritoneal cavity again irrigated with boracic lotion. Acute peri4.30 p.m.

Acute Dilatation of the Stomach.-Mr. Jessop communicated this case.-The patient, a lndy, aged 26 , had a month before undergone excision of the lip-joint for disease of seventeen jears duration, originating in distinct traumatism, and which Mr. Jessop believed to be non-tubercular. IIer general health and her family history were remarably good. At the operation the disease was found to be limited to the head of the femur, the section being made throngl henlthy bone, and the acetabulum intact. The wound was nearly closed, and sle was rapidly improving, when one day, in the absence of the nurse, she obtained an apple, the whole of which she ate greedily. She was shortly afterwards seized with severe continuous romiting. An aperient was administered, and she was put on milk diet. On the following two days the romiting was intermittent, and was associated with extreme thirst. On the third day it was observed that before romiting the abdomen was tumid, and the ontline of the stomach, mnch distended, Was clearly visible. After vomiting, the abdomen became flaccid, and nothing abnormal could be made ont either as regards resonance, resistance, or tumonr. There was no tenderness, but the extreme thirst continued, and the patient was obviously rapidly sinking. On' the fourth day, as a last resource, the abdominal cavity was explored by the usual median incision, wheu the stomach, duodenum, and the first six inches of the jejunum reere found enormously distended, the whole of the remainder of the intestines being remarkably collapsed and small. The stomach was opened by a small incision near the prloric end, and a finger introduced. The pylorus could not be distinguished owing to its oxtreme dilatation, a condition which also affected the duodenum as far as the finger could rench. The patient died in a few hours. at the necropsy nothing more could be made out. There was no onchanical obstruction anywhere. The intestine simply seemed to pass from a condition of extreme dilatation to one of axtreme contraction at a point six inches below the duodenum.In the discussion which followed, Dr. Clifford Alemetr said it was difticult to nccount for acute dilatation of the stomach exeppt on the theory of a neuroparesis in patients of feeble constiution or weakened by long illness, in whom an acute condition ind supervened. In Mr. Jessop's case the collapse of the intesines was remarkable, and might possibly have allowed of the listension of the stomach; on the other hand, it might be secondary, and due to compression by the stomach.-Mr. Trame haid that in his experience one third of the cases of intestinal obirruction got well without operation, and thought that this conideration was mainly responsible for the unfortunate delays vhich $s 0$ often terminated fatally within five days. He had
never seen a life thrown amay by operation, but could call to mind four cases where death had resulted from the operation being performed too late, and he thonght that it would be better occasionally to risk opeuing the abdomen unnecessarily, and especially in cases of chronic obstruction, or in acute cases where there was a history of former attack. There were undoubtedly grave intrinsic dangers from the damage done to the intestines by the enormous distension, and he had seen one case of lieocacal rupture where the patient lad been watched for four weeks before a malignant stricture was discovered high up the rectum. - Mr. Jessop, in operating upon all cases where there was danger of asphysia from hæmorrhage or vomiting, had the patient's head bronght well down over the edge of the table, so that the upper part of the pharynx became the most dependent.-Dr. $J_{A C O B}$ referred these cases of acute dilatation of the stomach to a purely mechanical causation. It usually occurred in invalids in whom, as the result of careful and limited diet for a long period, had supervened an atrophic condition of the intestine. After a meal of indigestible or nnsuitable food a large quantity of gas was erolved, and immediately produced a condition of extreme distension and paralysis.

Pathological Specimens.-Mr. H. Atkrnson: Bladder from case of Suprapubic Prostatectomy.-Mr. Maxo Robson : Hydrosalpinx. -Dr. Jacob: Mieroscopic Sections of Laryngeal Papilloma recently removed.

## ANATOMICAL SOCIETY OF GREAT BRITAIN AND IRELAND. Wednesday, February Sth.

Professor Humphrx, F.R.S., President, in the Chair.
Sinuses of Yalsalva.-Mr. Maro Collier read a paper on the functions of the sinuses of Valsalva and auricular appendices, with some remarks upon the mechanism of the heart and pulse. IIe began by discussing current views of the formation and action of the sinuses of Valsalva. Those ponehes were not pathological formations, but were essential to the action of the heart. Their closure was not sudden bnt gradual, and the second sound of the heart was due to the sudden distension of the aorta. The force of the ventricular contraction was expended in distending the aorta rather tban in propelling the main colnmn of the blood. The auricnlar appendix was the part of the auricle which forcibly contracted and propelled the blood into the ventricle during its diastole. The current views as to the flapping of the ralves of the beart were next refuted, and it was maintained that the first sonnd of the henrt's beat was in no way caused by the closure of the ralves. The pulse was afterwards spoken of, and the dicrotic wave was considered not to be due to a back ware, but to other causes.

Ossification of Skull.-Mr. J. BLaND Surion showed specimeñs of the ossification of the superior maxilla, inferior maxilla, and malar bones to illustrate his paper on the morphology of the skull. There was no discussion.

Cranio-Cerebral Topography--Irofessor CusvingHas then showed and explained a series of models which illustrated craniocerebral topography. The series consisted of plaster casts, made before and after the removal of the skull cap, and comprised specimens of 5, II, I2, and 15 years, and of adult male and female. The sutnre lines had been left, and the convolutions placed in relation to them.

Musculus Sternalis.-Professor Conninghan next redd a paper on the musculus sternalis. After reviewing the literature, the results of his own dissections were giren, aud he maintained that the muscle was not a part of the panniculus carnosns, but a downward dislocated portion of the pectoralis major. This assertion was chiefly based upon its nerve supply. which wa exceedingly long, and came from the anterior thoracic nerves, and upon the fact that the anterior brauches of the intercostal nerves were recurrent round the inner margin of the sternalis.-Professor IUUPMRY considered the existence of the sternalis due to incomplete segmentation of the great muscular sheet. Professor MACALISTER discussed the question of the origin of the sternalis, and thought too much stress had been laid upon the last point. The muscle was present in 3 cases out of 115 , but this was a low average. ITe confirmed l"rofessor Cunningham's observations that the muscle was absent in other mammals--Frofessor THANE was inclined to agree with the author of the paper. He discussed the question whether the musclo was restigial or dereloping, and, in
tho fatter easfa 'as I'rufessor Cuminghum laad rimarked, elevoted to costal respiration- Mr. SuTton also made some rumarks,

Morphology of Inctensor. Muscles of Limbs-1 rofessor (i"Nntserinan ruad a papar by Itr. St. Ions Finooks ont the morbilelogy of the nuscles un the cxithmor aspect of the middle nolldistal segments of the limbs. The puper showed that:, J. Thie extensor miuimi digiti was originally tho fifth belly of a short extensor. 2. The anconais belonged moro properly to the extensoverarpis ulnaris than to tho trictys. 3. That the occasional extensor brevis digitorum mumus in mun was not homologous with thoextensor lryvis digitomm polis, but to the occasional deeper slip of that mascle. Finally, that the nerse to the anconcus was homologons to the branch of We auterior crural, which somotimes suyplied the tibinlis anticus.
 on vast grinl muselos, which, he said, reviewed the subject of Dr, Brooks's communiention from an entirely different standpoint. Man, in common with the quadrumana, originally had a deep as well as a superlicial set of extensors for the fingers. The decp seforiginall arose from the external condyle of the lumerus and adjacent necranon; gralually they migrated down the ulna. As they dascended they carried the postcrior interosseous nerve with thein. Hy degrees the midd!e slips regressed into fitrous tissue, antl their nerfe became imbedded in their remains on the back of the carpus. Gimbernat's ligrment and the triangular fascia were then argued to represent a ligament which binds the epiputhis to the ilio-pectincal line in the marsupials, and the iliofeshdral ligament was said to represent tho gluteus quartus.

Specimens. The following specimens were also slown: Profcssor TuANE: Ohlituration of the Coliac Axis: Collateral Circulation established through the Pancroatico-duodenal Arteries. Profescor Ginsion: Interparintal Bone; Double Arch of Aorta, enclosing Tracheat and Cisnphagns; Constricted Areh of Aorta, with enlarged Anastomotic Branches.-Mr. Kennr: Abnormal Relation of t'hrenic Nerve to the Subclavian Vessels.

## - I BIRMINGIIAA AND MIDLAND COUNTIES BRANCL. Thersnay, Eebruary 9th, 1888.

Liawson Tatt, F.R.C.S., President, in the Chair.
Uninited Fracture-Mr. Vincent Jacksos exhibited a patient, aged 27 . Who was seen last March on account of an ununited fracturg of hoth, tiones of the right leg at the lower third, injuries received eight months previously. The operation consisted in mest carefully removing hy cutting, suipping and scraping all the soft tissues compecting the ends of the bones, then placing these in 3 apposition, and, after each fragment had been pierced by a bradawl, they were perinanently fixed by being nailed together by two wire nails two inghes in length, the heads of which were buried in the soft parts, and at the present time were to be folt subcutaneously. The poperation woum healer! within a fortnight, and when the plaster-of-l'aris case, after leing woru for eight months, was permanently removel, it was evident that the most perfect union of the fractured bones had resulted.
'Supramelic Lithotomy.-Mr: Viscent Jaokson exhibited a man, aged 5 , upon whom he had, in December last, performed the operation of suprapubic lithotomy for the removal of a uric acid calculus weighing fifty-one grains, tightly fixed in a diverticulum at the extreme posterior limit of the base of the hadder on the left side. It had previonsls been attempted to romove the calculus by perineal lithotnmy.
: Ifpara Curtilager-Mr. Vincent Jachson showed a loosebody receatly removed from the right knec-joint of a gentlemana, aged 27. The measurements of its longest and shortest diameter, as well as of its thickness, wert $2 \frac{1}{2}, 14$, and $\frac{5}{3}$ inches. Within a fortnight the op+ration wound into the joint had quite healed.

Successful Nephro-lithotomy.-Mr. Besnett May brought to the, metting a, young man whose case presented somn unusual features The number of calculi removed from the left kidney was four; they were wery small and facettem, the total weight being - twelvo grains. In spite of the fact that the kingey, when operated on, was enlaresed and dilated, the patient was now (four months) ' perfactly well in every reapect. Ihmmaturia occurrod cight years ago, and since then he lual never heen free from symptoms. Fir - tho last year tha pain after exercise had been unlearable, auel bed had been in bed for a month. 'There was much pus in the urine. Remarking on the good fortume which had attended the exploration, Ar. Alay faid he thought these small calculi must together ni have acted ins, a hall-valve in the urter, and that ithe sudder!
reeoil aud ontflow of urine which thok place on incising the kidney substance lorought them within oasy reach of the linger. They were all he conhlf find on a careful and prolonged acarch. The patient rapidly recovered, had remained perfectly free from pinin, thongh'engaged in a la borious occupation, was now in perfect heulth, and his urine showed no trace of the former deposits.
Specimens, -TMr. Jordan Lanys exhilited a typieal raspherrylike udenomatous polypus, removed from. the rectum of a man nenrly 50 years of age. Hemorrhage of between two and three years was the only symptom. He also showed a harge sebaceous cyst which he lud excised from the nbdominal wall of a woman 60 years of age, and which presented all the plenomena of irreducihle umbilical hernia.
Cholecystotomy for Gall-Stoneé-Mr. Lawson Tait exhibited a large solitary gall-stone, from a caso of suppuratiug gall-
hladder, which he had hladder, which he had operated ou ahout a fort night previously. of suypuration, andl wition, the gall-wadder was in a condition not to the parital peritoncum. Its walls were very thick and friable, and it was with great difficulty the stone was brought to the surface. The patient made an easy and rapid recovery. This was the last of a series of forty-one consecutive cases in which Mr. Tait had perforned the operation of cholecystotomy, and he
lad only two fatalities in the serics in had only two fatalities in the series, in both of. which the operation did not seem to make any difference as to the progress of the dismase, as it was maligmant, associnted with gall-stone.
Uterine 'Appendages.-Mr. Lawson Tart also showed the uterine appendages of a case recently published, in which the operation was performed for interse hystero-epilepsy. Professor Porra had made an effort to remove the appendages six weeks
before, Lut had conpletely fail sions, evidences of which were to be seen all over the dense adheboth tules and ovaries. Both tulees wrere occluded, and liad been occupied by a small amount of serous fluid. The patient bad had no return of the symptoms since the operation, now nearly four months.
Modification of Tait's Trocar:-Mr. Lawsons Tart showed a modification of his troear which had been forwarded to him by an American surgeon as an improvement. It was made of vulcanite, and consisted of the old-fashioned arrangement of an inside tube and outside slide, and the apertures of the trocar could be closed either by intention or by accident. This, in Mr, Taits opimion there was any fluid left. in the carity, under no circumstances onght the apertures in the trocar to be closed, for the intention was that the fluid should run out of the cavity. If, on the contrary, there was no fluid in the cavity to run out, no harm was
done: lut if there the apertures of the tracar were elosected, and by an accident arise. Therofore it could not be necessary, nnder quy conceiga circumetances, to close the apertures of the trocar, and in opinion the so-called improvoment was a mistake.
Gall-stones.-Mr. Lawbon Tart also slowed a preparation of They were so situated that they might have been, ranched from several instances from outide the duot, the fragments then passing on. The preparation was sent to him by Dr. Worty, of Wotton-nuder-Edge, and showed clear evidence of the evil results which would have acerued from removal of the gall-bladder-the so-called
cperation of cholecystectomy. If this had gall-bladderocluded as it was, all the bile would lave thed into the peritoneal cavity, As it was, the patient lived for mauy years after a cholecystotomy for the removal of a jarge.number o gall-stones, and these were left in the duct.
Tumours of the Bladder.-Mr. G. Buslang read an exhaustive paper upon this sulbject.
The La botrers' Act.-The Clonmel guardians hate ngreed to pay their medical officersa fte of five shillings for eench cotlag examined and reported upon under the provisions of this Act.
Unusual. Deatir-Ratia-The, Medical Oflicer of Motherwel I,000 ports for the month of humary a leath-rate equal to 50 per 1 ,
ner annum
During the month, il out of the total of 14 death wero eaused by zymotic disease, z2 being due to measles, 12 to whooping-rongh, to scarlet feyr, and 2 to diphtheria.
Tits will of Dr. James Cato de Castro, formerly of lliude Street, Manchestor Square, but hatterly of Toryuay, has been proved; the personal estate valued at uprards of $£: 22,000$.

## REVIEWS AND NOTICES:

The Ueb of Electricity pt Gyntrcological Practiçe. By George J. Evgelmasi, M.D., Professor of Obstetrics and Diseases of Women, St. Louis Post-graduate School of Medicine. (Reprinted from the Transactions of the American Giynacological Society, vol, xi, 1886). N'New Mork: D. Appleton and Co. 1887.

Dr. EsGelmanvi, of St. Louis, has earned the right to be considered as an authority in the application of electricity to grnecology, along with Apastoli, Cutter, and Steavenson. This memoir includes a definite system of electric measure and dosage. The author rightly dwells on the difficulties which attend the use of electrical apparatus. He distinguishes nine radical errors into which practitioners have fallen. These errors are, first, the empirical use of electricity, and the want of proper indications for the use of this powerful agent ;'secondly, Ignorance of the pawerful action of the pole direet and use of the interpolar current, inferior as a remedial agent; thirdly, indiscriminate use of the rarious forms and moditications of galvanic and faradic current; fourthly, indiscriminate use of lioth poles; fifthly, want of localisation and diffusion of current ; sixthly, lack of exactness; if not total absence, of measure and dose ; seventhly, the use of currents too weak to be effective, and the too ready limiting of their intensity by the pain which they inflict; eighthly, the long duration of sittings long continued; and ninthly, the lack of proper electroles and of instruments of precision.
An instructive commentary is given on each of these errors, and the right patli is indicated. - Some good comparative tables of the effects of galvanic and faradie electricity are placed alongside each other. In the essential part of the memoir are paragraphs on the management of the apparatus and the application of the poles. Dr. Engelmann agrees with M. Apostoli in lisis theory of the action of the 'positive and negative poles when the galvanic current' is employed. A long series of cases concludes the memoir. We need hardy say that, on the whole, brilliant results are claimed, but the cases, are fairly reported. Each demands close scrutiny, and we know the great difficulties which attend any attempt to determine the precise agent which has brought about the cure of any given case. We do not wish to be sceptical aboint Dr. Engelmann's system; we rather commend his method of teaching it through a literary medium. The matter, at first sight, looks, very heary; but the man who takes to electrical apparatus must work hard, and camnot expect to find bis preliminary instruction light. Dr. Engelmann has altogether been merciful to his pupils, that is to say, his readers ; he docs not terrify them with long scientific tables, loaded with figures, decimal points, and still less familiar mathematical symbels. We regret, however, that, owing no doubt to its publication as part of the archives of a Society, it is not illustrated.' Some good diagrams of the parts of a battery and some drawings of the method of application of the poles should have been added. Lastly, we cannot share the author's confidence ahout the partial cure of a case of ovarian sarcoma with perimetritis by electricity. The most experienced authorities may take many curable abdominal affections for ovarian tumour; and a sarcoma of the ovary is not alwass easy to recognise, even when exposed hy abdominal section, which does not appear to have been done in this casc; adhesions, too, are not so readily diagnosed as the anthor here implies. Elect ricity may, some day, be made to cure malignant tumours, but first we must he sure both of the electricity and of the tumour,

Light Diet: a ilandrook of Diet and Cookery for all Classes of Invalids, By II. W. Selaer, M.B., etc. London: Simpkin, Marshall and Co. 1887.
Some acquaintance with, at least, the elements of the art of cooking is a very necessary part of the outfit of a successful practitioncr of the art of medicine : Dr. Skager's book is intended for the use and information of the lay patient, and the receipts it contains may be handed to any intelligent cook'. It is, however, likely to be of great use to the physician ; it is a carcful compilation of receipts for the preparatiou of wholesome and palatable dishes from all varieties of food, which are classified in thirtecn chapters; each provided with some geheral introductory ohservations. There are chapters also on enemiata and predigested foods, on the feedingo f
infants, and on drinks. Dr:' Seager seems to have taken great pains to obtain trastworthy information, and to lay the results of his researcliés before his 'reàlers without prejudice, and thir book' is quite free from the "fads" which sometimes diminiah the vatuc of works intended for the mise of invalids. The author has taken the word invalid in a wide sense, as may be gathered from the following quotation: "Sucking-pig is too rich for most neople, hut is so excellent a dish that it seems a pity to forbid it altogether."
The introductory observations prefixed to the various chapters are short and to the point, giving trustivorthy particulars as to the properties of each class of food; but the calleetion of reeeipts could only be really judged by experiment in the kitchen, though the majority are fairly: well known and approved. The directions for preparing predigested foods onght to have been more precisely given, as the method is unfamiliar to most people, even to many trained nurses: it may he obserred in passing that the glycerine extract of pancreas will keep for a longer period than ." several days,", and the quantity directed to be used for each injection is unnecessarily large. We have noted a few statements which are, to say the least, open to question, and contrary to opinions founded on long experience, as, for instance, that snipe is better than woodcock; and that both are very digestible; that pheasant is " a much over-rated bird; he has little more flavour than a chicken, and.is not hearly as digestible." The remarks on wines are on the whole sound, but it is not correct to say that " marsala is an inferior, madeira a superior, sherry:" neither does it seem very judicious to write: "Sweet wines, for example, tokay, malaga, malmsey. port, Lacryma Christi, etc., should only he taken in liqueur glasses with a.plain biscuit when the stomach is not full, and are good as a stop-gap hetween meals." Aside from the danger of inducing habits of intemperance, hy adrising or permitting such " nips" hetween meals, the best opinion is that port wine should be taken after dinner, no wine, or very little, being taken during the meal.

Manual of IIypodermic Medtcation. By Drs. Bournetmlek and "Bricos. Translated from the second edition, with additions, by Andrew S. Curtie, m.d.Edin. London: H. K. Lewis. $188 \%$.
The method of administering drugs by injection of their sotntions into the subcutaneous tissue is not much more than thirts years old. It is true that a ferr plysicians had from time to time resierted to the method in an experimental kind of way for some years before the publication of Dr. Wool's treatise in 1855, zut the méthod did not come into general use until after that date. Quéstions' of priority are always rather unsatisfactory topics of discussion, and this is especially so in this instance, for plysiologists had used the method since the beginning of the century at least, and the application of the method to the human snbjeet is harilly to be accounted a stroke of genius, though creditable to the adopter, whoever he may be, whether Rynd, Taylor, Washington, or Kurzak. Practically, in this country at least, the metbod has bieen used for a very limited number of drugs only, and it will probably be a surprise to many readers to learn that Drs. BackNsvmise and Bricos. treat of over one hundred drugs which have been '(witl varying frequency and success it is true) administered hypodermically in disease.
The Manuel of these two authors is so well arranged, accurate, and portable, that it is rather surprising that it has never heen translated before. It has not been a difficult book to translate tor aulapt to English measures. Dr. Currie has done his rork, so far as we have been able to judge, well, and his notes and additions are, is a rule, judicious.' It is a plty that the publisher has not better seconded the translator's efforts by bringing out the volume in a neater aud more portalle form.
The main hody of the Mamal consists of a series of articles on the various drugs arranged in alphabetical order, $\mathrm{a}^{8}$ ter the manner of the-British Pharmacopacia. The physical properties of the drug aro first described, then its physiological effecte, and antidotes, next formula which have been empleyed are given. and, finally; the therapentic uses aro indicated. is the authors confess. many of the formule given are not good, and it is doubtful whether any useful purpose is served by preserving them in a work so well-known and so highly valued as MM. Bournerille and Bricon's Manuel. Many of the drugs also have nerer come into actual use. and it is hardly prolable that they will ever pass beyond the experimental or tentative stage.

Dr. Currio has increased the value of the Manual for reference in emorgencius by athling of therapentic index hased on those contained in the well-known works of Ur. Jinger and Dr, Latuder Brunton. Jhe has also drawn upa table of antidotes and antagonisuns, a posnlogical table, nud ugeneral intex. Je has written mveral articles. which are wedl uy to the marli, and has throughont tho work taken grent prins to make the information furnished comple'te and accurate.

## NOTES ON BOOKS.

Iomgley's Student's Pocket Medical Lexicon. (Edinburgh Young J. Pentland. Isis.) -This is a new edition of a little mork which usefully fultils its purpose. It places in the hands of students a dictionary of over seven thousand words, embracing all the worls and terms in most general use in medicine and the collateral sciences, with the pronumeiation of each word fully and distinctly indicated by means of the American phoneticalphabet, which requires very little patience to acquire. The meanings are tersely, accurately, and well expressed. Of course such a work as the prosent is not intended to supersede the larger and more comprehensive works of Thomas, Dunglison, and tho like; but as a pocket medical lexicon for students it fulfils in an admirable deyree its useful object. An appendix, giving a list of poisons and thoir antillotes, renders the work additionally valuable. There are also given the abbreriations used in prescriptions and the metric scale of doses. As a compendious pocket guido for medieal students, a reritablo multum in parvo, we can warmly recommend it.

Travels in the Interior, or the Hondcrful Adventures of Luke and Belinda. By Ltke Theorhiles Counteney. Edited by a London Physician. With Mustrations by Harry Furniss, and Original Scientific Drawings by L. T. C. London: Ward and Downey, $185 \%$.- It is rather curions that Alice in Wonderland has found so few imitators; other works of imagination and humour, far less successful in catching the popular fancy, have set a fashion followed with a brief period hy many writers; in this volume. "edited by a London Plysician," we have a sort of Alice in Wonderland with a purpose. Alice, whose name however is Belinda, is accompanient ly her brother, a new-fledged M.R.C.S., and his friend ; like Alice, they incautiously eat a magic sweatment, and decrease so rapidly in size, that they are accidentally carried into their uncle's mouth. Where two of the party find a temporary refuge in a hollow tooth. The M.R.C.S. is an inventive genius, somerhat aheall of the day perlaps, who is provided with a procket clectric light, a wonderful apparatus for waterproofing clothes, and a still more remarkable respirator; thus armed, the pigmy travellers visit the tympanum and the larynx, travel down , the ansophagus, watch the process of digestion in the stomach and duodenum. bore their way into a lncteal, journey through the receptaculum chyli and thoracic duct, gain a cutaneous vein, and finally ofter many hairbreadth escapes, reach the surface, and regain their natura dimensions. The M.R.C.S. and his friend discourse plensantly at the various stages of the journey, explaining to tho ingnisitive Belinda the significance of the various atructures and processes observed. The information thus conveyed is always accurate, and we have indeed noted one point, tho mode of absorption of fat lyy the lacteals, where the statementa are an advance on these still made, if we mistake not, in the ordinary texthooks. The story is well told, and if young people can be induced to get over a little natural repugnance to the subject, and to being tanght under the guise of amusement, they will become sufficiently interesterl in the fortunes of tho arlventurous, travellers to follow them to the end. Mr. Furnisa's illustrations will conduce to this; they are well and gracefully designed, and realise the idens of the author, without the least suspicion of coarseness.

Dr. West asks us to correct the statement in the roll of the Ilogal College of Physicians, to the effect that he luas taken up his residence in Rome; he continues to reside and practisc in London, and is merely absent on $n$ short holiday.
lomasentation.- On the occasion of lenving Hyera Green, for Whitburn, near Sunderland, Dr. Mckane las been preaented by some of his late patients and friends, with a handsome microscope as a token of esterm.

# REPORTS AND ANALYSES 

DESCRIPTIONS OF NEW INVENTIONS,
IN MEDICINE, SURGFRY, DHITETICS, AND THE ALLIFD SCIENCTS.

## NEW GAG WITH THROAT GUARD.

By JOIIN WARD COUSINS, M.D.Lond., F.R.C.S.,
Senior Surgeon to the loyal Portsmouth Ifospital, and to the South Mants Eye and Ear infirmars.

Tue instrument cxbibited in the engraving consists of a gag in combination with a throat guard, mouth mirror, and tongue depressor. The gag is small and square-shaped (Fig. 4), and it can be opened and closed when placed in position in the mouth. The dental surfaces are made of steel, covered with thick pads of red rubber, and they are supported on either side by sliding bars and a metal collar. The bars are expanded by a central spring, and fixed by a rack and screw adjustment. The lower dental bar is tumnelled for the purpose of carrying the stem of the glard or mirror. By rotating the stem in the gag, the mouth-plate of the
 appendage is readily shifted, and then, by turning a binding screw, it is securely fixed. The gag with the throat guard, attached to it is shown in Fig. 5. The plate of the guard is spoonshaped, and half of ita surface is perforated with small openings, so as to permit the passage of air (Fig. 1). It is also flexible, and
 can be easily bent to fit a shallow mouth. When placed obliquely on the fauces, its posterior edge rests ngainst the anterior pillar, and it thus forms a complete protection to the throat. The guard divides the oral cavity into two parts, at the same time it acts as a very efficient tongue depressor.
The gag is especially designed for the purposes of dental surgery, and for other minoroperations on the mouth and gums. It can be used with safety during the administration of chloroform or mitrous oxide gas, and the gunrd is a great protection against the slipping of a tooth into the throat, an accident which may happen even to a careful and dextrous operator. It, moreover, enables the mouth to be rendily cleansed of blood, and prevents it from entering the respiratory passages. The guard is generally very ensily adjusted without causing any discomfort to the patient; but, whenever the fances are extremely sensitivo, it must be introduced with care and gentleness. In many cases the irritability is removed at once by the application of a solution of cocaine to the throat. The mirrors serve for tongue depressors, and they are adapted to ithuminate the mouth in any direction. They are made in several sizes, and with both straight and angular stems (Figs. 2 anil 3). The buccal mirrors are not represented in the engraving; they

[^33] Modical Asooclation held in Dublia, August, 1887.
consist of narrow reflecting plates. Which are fixed at right angles on flexible stems. The rigbt upper buccal mirror can be used for the outer surface of the left lower molars, and the left upper mirror can be fixed on the right side for a similar purpose. When in position the buccal plate gives a complete view of the onter surface of the teeth and gums, and acts also as a cheek distender, and conmressor of Stenos duct. All the mirrors can be very conyeniently used for dental operations, such as stopping and sealing, and they are intended as substitutes for the ordinary dental mirrors, which are often encumbrances in the hands of the operator. The gag is manufactured by Messrs. Maw, Son, and Thompson, of London.

HARTMANNS SANITARY WOOD WOOL SILEETS, AND HARTMANN'S SUBLJDATE LOTIFORDIS.
These new preparations have been submitted to aur notice by the Sanitary Wood Wool Company, of 11, Hatton Gardon, E.C.

The sheets consist of a good thickness of Hartmann's wellknown wood wool enclosed in gauze, and secured so that when used the wool does not slift its position. They are made of various sizes, those of about tbree feet square being. perhaps, as convenient as any. They can be used in place of mackintnsh sheeting in lying-in cases, as well as in other cases where there is a large secretion or discharge from which the bedding requires protection. These sheets possess the adrantage of liaving no odour. They are very soft and absorbent, and, being antiseptic, the secretion and discharges absorbed by them do not tend to decompose.
The lotiforms consist of small pledgets of colonred wool, enclosed in a little gauze bag. They are impregnated with corrosire sublimate to such a degree that one lotiform cut open and placed in two pints of hat or cold water, and stirred, will give a solution of a strength of I in 10,000 . This strength can, of course, be varied by using a larger or smaller quantity of water. The lotifornis are cheap and portable, and very convenient for making extemporaneously a solution of corrosive sublimate, either for raginal injection or for general use as a lotion. Owing to the nature of the material of which they are made, there is no danger of their being swallowed by mistake.

## CALTERT'S CARBOLIC LOZENGES AND CIMPHORITED CARBOLIC SOAP.

These preparations are made by Messrs. Calvert, of Manchester, the well known manufacturers of carbolic acid. The lozenges contain one-fifth of a grain of pure phenol, and are as palatable as any lozenge can be containing such a proportion of carbolic acid.

The camphorated carbolic soap is recommended to prevent chapped hands and insect bites. As a bath soap it will be found useful in destroying the odour of persparation, and leaving the skin in an agreeable condition. It can also be used generally for those skin diseases in which the application of a mixture of carbolic acid and camphor is indicated. The soap lathers well, and it has a wholesome and pleasant odour.

## GLASS STETHOSCOPES.

Mr. Aref. Faeleyfr, Mir.C.S. (London), writes: I should like to hring to noticc an improved stethoscope which I hard made for mysself, and which I have used for some time. It is made entirely of glass, and there is no loss of continuity in its construction, Its cylindrical portion being either solid or hollow, and its shape is similar to other ordinary stethoscopes in general use. It is an excellent conductor of sound.
Tundridge Wefles Urban.- A comparison of the death-rates of this district with those of the twenty-eight Iarge English towns for 1886 elicits from Dr. Stamford the boast that no town of the same population suffered so lightly, judging from the mortality statistics, as Tunbridge Wells. Moreover, he was so satisfied with its condition at the close of the year that he had no further measures of sanitary improrement to recommend. Only 50 deaths resulted from zymotic disease, and half of these werc due to diarrhou. The sufferers from this disease were nearly all infants, and the deaths were in the third quarter of the year, facts which Dr. Stamford remarks upen, and which lead him to doubt whether the deaths were due to zymotic origin. Ile attributcs them rather to fermentative change in the food. Twenty-twn cases of scarlet fever were removed to the sanatorium, and all were discharged convalescent. One death from this disease took place in the town. The general death-rate mas 14.4 and the zymotic tate 0.7 per 1,000 .

## BRITISH MEDICAL ASSOCIATION.

 SUBSCRIPTIONS FOR 1888.Subscriptions to the Association for 1888 became due on January 1st. Hembers of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requasted to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Ofice, Migh Molborn.

## ©be Britisi) fetciaid journat.

SATURDAY, FEBRUARY 18TH, 1883.

## LESSONS FROM SHEFFIELD.

SURELY something must be wrong in the education given to tho people, or it would not be possible in a town like Sheffield, at the close of the nineteenth century, to find such an amount of ignorance, prejudice, credulity, and folly as was seen in the Temperance Hall of that town, on the evening of February the 9th.

A Mr. Herring, of Leeds, gives out that he can cure, smallpox in two days. At once a momorial is signed by 2,000 persons requesting the Mayor to conveno, a meeting before which Mr. Herring could explain his plan of treatment. 3 The requisition further stated that, notwithstanding the fact that Mr. Herring could get no recognition from the Corporation, he had come to Sheffield, and already successfully treated a number of eases, particulars of which could be produced at any time. In response to this document the Mayor, very foolishly as we think, called a meeting, at which he himself took the chair. The hall, a large one, was crowded to its utmost capacity, and so great was the attendance that many persons were unable to gain admittance, while the wild enthusiasm shown by the audience was a noteworthy feature of the meeting.

A person named Adams moved the first resolution, which was, like the remaining one, carried by acclamation. It was this; "That, in the opinion of this meeting, the fearful state of smallpox in the town, the damage to shopkeepers and trade in general, the fearful loss of life, and the consequont suffering therefrom, demand that prompt action be taken by the health authorities to extinguish the disease, and so lift the town from its present unenviable position."

Mr. Hill, the seconder of this resolution, made the statement that when a man sufforing from small-pox got into Mr. Herring's bath, with the water up to his neek, and hat his head sponged, it was "domino" with tho disease; he does not explain, however, to what extent it is likewise "domino" with the pationt.
Tho second resolution was, if less grammatical, mono definite in its rocommendation; it ran as follors: "That this neeting having had produced before it such evidence of Mr. Herring's ability to reduce the disease in an incredibly short time, and having regard to his offer to the town of Shefriold, which he now repeats, we request the Town Council to engago hini at once, and
place him in a position for showing the eflicioncy of his treatment of small-pux cases,",
In the courso of the discussion, Mr. Merring gave his auditors , an account of the rationale of this treatment; it was beantifully simplo. "The blend was reduced to its natural heat; and as the blood was stopped from being inflamed, the flesh was preverited from being mortified. The disease was stepped in two "minutes."

An admirer of Mr. Herring, to whom the latter might justly say "save mo from ray frienils," at this stinge nskedthim low many" cases of small-pox he had dealt with before he came to Sheffield, during tho twelve years lio had been in practice, and what had heen the result of his treatment in these eases.
This was Mr. Herring's remarkable reply, reported in his own lueid and elegant lauguago:" "He hád eured hundreds of peoplo who had been erippled with rhermatism and drawn all shapes." "As regards small-pox," continued he, "I have only hadd four cases. which was cured direct in a state of fever-mio spot on them. One young man that come, he had got into a state while his flesh was begiuning to inflame a bit, and under the troatment it simply showed where he would have a spot, and -that was gone away when the medicine was dried in. "As regards typhoid it is as bad as small-pox, and it is as rendily cured by this treatment. Scarlet fever, I have cured hundreds of children and grown-up people-hundreds. Once at Batley I cured twenty'six children in three days."

Mr. Paul Gill asked Mr. Herring if it was true that a person had diod under this troatment? But he was promptly ext tinguished by a woman who cried out from among the andience, "How many have died under doctors?" and by Mr. Herring, who, amid loud and prolonged cheers, said: "The anstrer is simply this; the man was dead when I went to him." At this the Chairman interposed, and declared himself shocked at Mr. Herring's staternent, for that person, in speaking privately to him a fow minutes before of this very case, had said that the man was not dead when ho was called in to him, but so ill that he dared not give him a bath, lut simply bathod his face with the remedy. Mr. Herring, however, was equal to the nocasion; he replied: "I did not say he was lifeless, I said ho were dead; his flesh were deal; he was simply lrenthing in and out of his mouth, and that was nearly closell. His flesh were all gone; no life in it. Of courso, if there is no life in your flesh you are dead, are you not? I did not mean to say the man wero lifeless, I said he were dead."

Aftor this luminous explanation, which, howerer, drow forth the tannt from one nf the audience: "You ain't had a schnol-board edncation," the resolution was passed unanimously amid loud cheers. On his way from the meeting Mr. Herring was followerl for some distance by an outhusiastic and eheering crowd.

While the people of Berlin" press round Prince Bismarok with their enthusiastic applause ns ho walks from the Reichstag aftor making a speech which ochoes throughout Europe, the inhalitants of Sheffiold can find an better object for their hern worship than a mischievous and ignerant pretender. Wo trust this is no
syroptem of a dogeneration of our countrymen, but only $\Omega$ passing exanuple of tho truth of Carlyle's dictum, "That Euglanil is inhalited by thirty millions of penple, mostly fools." . -ins
Both this meeting and its canse have several lessons even for wise and seientific neu. They show that-an epidemic, if not prevented ly isolation and separation in the first instance, may, in spite of all subsequent efforts, become an ondernic plague, throwing the people of the affectod district into panic terror, and making them tho easy prey of quacks and charlatans of all kinds. They show; teo, that without local or general'Acts for the compulsory notification of infoctious disense, preventive measures are merely a delusion and a sinare.
Leicester, with its oxplosive population and under an Act for eompulsory notification, stamps out oach case of small-pox 'as'it arises. Sheffield, partly protected, which refuses such a clanse, becomes a very pest-house, injurious to its own inhabitants, their traide and life, and a source of danger to the whole eountry.

Another lesson is the importance of instructing the people in the eausation and course of disease by means of classes and lectures and private instruction, in order that they may bo protected from such folly as the Sheflield Temperance Hall meoting. Let them learn the etiology and course of this and all kindred diseasos, and they will not be prone to beliove that what the wisest and most learned of our physicians, from Sydenham to Murchisón, have declared to be impossible, an uneducated pretender from Leeds can accomplish with ease.

Let the public also learin from the action of our own body, from our privato condnct and our pablic protensions, that the days of empiricism and theoretical pathelogy are passod awaythat we are not believers in the possibility of cure by the vague and indiscriminate miministration of drugs. That in some ferw diseases thero are specifio remedies; that in others we can guide the patient safely through an illness,' which we can no more check, or seek to check, than the skilful pilot quiets the raging storm, through which, however, he steers his labouring ship to its desired haver.
Let us also insist, both publiely and in private, that no valuable discovery in healing has ever beon made by the compounders of quack medicines, and that they aro simply impostors, growing rich on the credulity of silly people. Let us also agitate for some such wiso law as that of France, that the composition of every patent medicine slaall bo declared beforo it is pernuttod to be sold. As to Mr. Herring, if the Corporation of Sheffield does not ignore his modest reyuest to troat pationts in the Fover. Hospital, it should be granted on one condition, that, in case of failure, he submit himself to be publicly whipped at a cart's tail from the hospital to the Temperance Hall, as an detected impostor, a rogne, and a vagabond.

The thanks of the people of Shoflieh and of our profession are due to Sir William Leng, the elitor of the Sheffeld Telegraph, for the judicions method in which he has reportol this meeting and exposed and ridicalet this ninoteenth contury repetition of the folly and ignorance of the Middle Ages.

11

## STUDIES IN THERAPEUTICS:

d 111 --Recent Chadiac Tonics.
Draitalis still holds its own as the most pewerful heart tonic which we as jet possess, and the most permanent in its effects. But its uso is more or less contra-indicated in certaiu forms of disease of the heart; and, on the ether hand, it is sometimes found that digitalis is not well tolerated oven in cases apparently suitable. In fact, a watchful care is required whenever this drug is given, not only, at the beginning of treatment, but as long as it is continued, becanse alarming symptoms may arise at any timę during its use, althongh its so-callerl "cumulative" effects are questioned by several recent observers. Of late years ceaseless efforts hare been made to. find some other means of strengthening the heart's action safely as well as certainly in cases of failure of compensation.

Oertel, dispensing witlı drugs altogether as far as regards the heart, cffccts this by muscular exercise; graduated to suipt the patients. He finds hill chimbing to be the best means of stimulating the heart muscle to increased action, and thereby promoting increased growth of its fibres. The excess of water conneeted with venous stasis is for the most part previously removed from the blood, and altogether it will be found that the treatment adopted is exactly that calculated to put the patient "in good condition," just as ia horse is trained for racing. Grooms are sparing in the amount of water they give, to hunters and racers during severe exertion: when cool the animal will not drink too much eren with water constantly before him. But man is a very different animal, and there is no donbt that most people, imbibe much more liquid, of one sort or another, than is necessary for the physiological requirements of the body. Oertel's work on circulatory disorders is now to be had in English, and it is to be hoped that it will receive, the secious attention which it, deserves, but which it has not yet obtained in this country. The manner in which the heart muscle grows larger under increased exertion still requires explanation. Stricker is of opinion (Vorlesungen, 1883) that together with impulses to the motor muscles of the body during work, impulses are also eommunicated to the vasomotor nerves of the viscera, causing a rise of blood pressure, which would explain tho porsistency of the increased blood pressure after the excrtion is over. Nothuagel attributes this increased blood pressure to compression of the peripheral vessels during muscular exercise, and, mereover, regards the increase of carbonic acid in the hlood cansed by work as a stimulant to the heart. Practically speaking, it is of course understood that hill climbing is only suitable in cases of insuficiency of the hart mascle when this condition is not toe far alvanced; if this be the case, Nothnagol very properly calls the method a "two-edged sword." But Oertel does not adrocate sending a patient-for example, with severo valvular derangement. an irregular pulse, and oodema abont the ankles-straight to the mountains to be walked up and dowa. Von Bamberger advocates Oertel's method, but he also would confine its application to commencing in-
sufficiency of the heart muscle, with or withont valvular derangement.
The double salts of caffeine, as examined and recommended by Riegel, have attracted some attention as a means of strengthening the hearts action; but their use is not altogether free from danger, and again they sometimes fail wholly in effect. They have not succeeded in coming into general favour.
Sparteine (sulphate) is the next claimant of our attention. Sparteine is a base derived by Stenhouse from spartinum scoparium, and pronounced by Mills to be a tertiary diamine having the formula $\mathrm{C}_{15} \mathrm{H}_{26} \mathrm{~N}_{2}$. It is a colourless alkaline liquid; boiling at $259^{\circ} \mathrm{C}$., of penetrating, disagreeable odour and very bitter tastc. It is heavier than water, and only slightly soluble therein, casily soluble in ether or chloroform. It forms crystalline salts with acids, from which it is precipitated by alkalies. The sulphate is the best salt medicinally. Fick studied the action of sparteine on the animal orgamism, and Froumüller established its dinretic effect. Recently it has been rescued from oblivion by Germain Sée (Comptes Rendus, 188j, No. 21), who recommends it warmly as a cardiac tonic. This observer declared that sparteine had a stronger effect in prolonging systole and increasing the energy of the cardiac contractions than even digitulis or convallamarin; also that rhythmic action was re-established, and that the pulse was rendered fuller and slower. A diuretic effect was not observed. Voigt (Wiener med. Blätter, 1886, Nos. $25-27$ ) concluded that sparteine was a valuable drug, worthy to be placed beside digitalis, but that it had not the persistency of the latter in its, effects, which, however, were superior to those of caffein, adonis vernalis, and convallamarin. Increased diumesis frequently resulted, but in this respect sparteine was easily exceeded by other medicines. Voigt recommended sparteine in insufficiency of the heart muscle, with or without valvular disease, in pericarditis, and as an adjunet to digitalis, or rather an accasional substitute. Leo (Zeitschrift f. ${ }^{\prime}$ klin. Med., 1837, p. 143) found that sparteine acted as a powerful diuretic, and was beneficial in exactly those cases in which digitalis failed. The dinretic action Loo ascribes to direct irritation of the renal epithelium, and not to the increased blood pressure from increased cardiae action. Palpitations and cardiac asthma were, much relieved, but whether from some narcotic influence or from increased cardiac action is left nndocided. The list obsorver in this department is Dr. Prior, Docent in the Univorsity of Bonn (Berliner klin. Wochenschr., 1887, No. 36). According to Prior, sparteine only occasionally acts as a diuretic in health; and this effect is probably due, when it occurs, to increased blood pressure. He found it to act better in valvular failure than in simple iosufticiency of the heart muscle from other causes. Its effects were, on the wholo, fairly, constant, rapid, and marked, bnt did not persist long. In some cases the heart's action was regulated for a long time by sparteine, the urine being increased, aud corlema diminished or removed. Dyspnoa and palpitation were relieved within two hours, often less, in severe cases of heart discase, evoll when the heart's action was unaltered; but the drug was of no use in bronchial asthma. A grain and a half of
the sulphute was foruxd tho best to begin with. No cmmulative action was made out. Prior adrocates the use of spartoine sulphate in those cases in which digitulis has failed to do any good; ${ }^{1}$ alko whon it is requirel to reliove severo stenocardiac attacks as specdily us pussible, as sparteine often effects this oven when the heart's action is unaltered by it. He also regards it as a valuablo diurutic.
We have not space for convallamain and some other drugs, -bot will cunchede with a fow words on strophanthin, a powerful rival to digitalis. Fraser first isolated the glycoside strophanthin from strophanthis hispidus (Kombé), and has written more than' once abont its uses. But it is only recently that tho plant has been imported from Africa in sufficient bulk to allow of general investigution, At present, strophanthus, whether the tincturo or strophanthin be used, is the strongest rival against digitalis in the fiehl. Zomer and Lëw have recently roported on the new drug in the Hiener med. Wochenschrift, No, 36. They support Fraser in his assertion that, unlike digitalis, strophauthus preparations do not causo arterial contraction. As regards the heart, diastole is prolongert, while systole is rendered shorter and moro enorgetic. Irregularity of the pulse usually disappears undor the use of strophanthus, but sometimes only a slight improvement in this respect is obtained. They found that for hypodormic injection of strophanthin, a milligramme (a little under a sixtieth of a grain) was a moderato dose, but preferred to give it by the mouth in doses between the thirticth and the sixteonth of a grain. Experiments showed that in health no appreciable diuretic offoct was exerted, while in disease the urine was often considerably increasod by the use of strophanthin, and sphygmographic trucings showed that this offect was due to increased cardiac action, eausing increased blood pressure. In one caso of pleuritic effusion, increased diuresis persisted for some time, the patient taking forty-five minims daily of tincture of strophanthus, and the area of dulness steadily diminished. These observers strongly opposo the statement, often asserted, that strophantlus acts as an irritant to the hoalthy kidney; and, as above remarked, aseribe its effects solely to increased cardiac uction. Thoy are also against Fraser in his assertion that it is nble to lower the temporature of the body, as they tried in vain to obtain this offect in bad cases of pneumonia. Indeed, unless in the stage of collapse, when strophanthus is eminently uscful from the rapidity of its effect in stimulating the hoart, they consider that this medicine is contra-indicated in pnoumonia and fovers generally. The tincture is well tolerated if a little syrup of orange peel to added; a slight diarrhoea may follow, often beneficial; but strophanthin canses no discomfort in the proper doses. One ease of myocarditis, with pulmonary and hepatic congestion, was cured by strophanthus after digitalis had been tried in vain. Two eases of fatty degeneration of the heart, which were not very far advancell, wore also greatly bonefited; but in a third extreme case no advantago was obtained from tho drug, thero being scarcely any heart-rnuscle loft to act upon. Tut it is in valvular disease with failure of componsation that istrophanthus is so usoful. In one mitral case tho writor was
surprisod at the earnestness with which the patient bogged for "more of the last medicine." He had been taking digitalis for some time previously without any marked benefit, but felt better after every dose of strophauthus, and his pulse became regidar at once. Strophanthos dues not appear to possess any "cumudativo action," but time is required to show how far its undonlutedly good effects in appropriate cases are persistont.

## THE SCHEME OF THE LONDON COLLEGES FOR DEGREE-GIVING POWERS.

As the weeks wear on, the opposition to the schemo promoted by the London Colleges of Surgeons and Physicians for obtaining for themselves exclusivo powers for granting modical degrees to their members and licentiates in the future, widens and gathers strength. Tho University of Oxford has thrown its weight into the balance against the two Colleges, and tho University of Cambridge is preparing to take the same course. Moreover, the London medical schools, although largely controllod by councillors of the two Colleges, and therefore slow to move in the matter, are beginning to awaken to the imporfections and dangers of a scheme which, while promising them much, offers the gift in so doubtfui a shapo that not even a supposed selfinterest can blind then to the serious defects by which the scheme is disfigured. We have already pointed these out, and some of them are cloarly indicated in the memorial from the Westminster Hospital Medical School. That memorial, which is drawn up with a full recognition of the advantages to London medical schools of reasonable facilities for acquiring the degree of medicine in London for the students whom they train, points out the palpable fact that of all the schemes which are now bofore the Privy Council, that of the two Colleges is the least satisfactory.
It is unsatisfactory for threo main reasons-first, bocauso it fails to give to the body entrusted with this new degree-giving power even a reasonably representative constitution. Neither the teachers as such, nor the competent colleges and medical schoois as such, nor the graduates are represented in it. The degree-giving power would be given to a Senato, in which the teaching bodies of London would havo no representatire voico. Tho colleges and medical schools would have no power of appointing delegates to express their united opinions on any subject of teaching or examination, nor would the persons whe sit on the Sonate be in any way responsible to the schools for their votes or acts, or on any oceasion be called upon to givo an account to them of their proeeedings. Again, the graduates of the univorsity, to whom its interests, its reputation, and its development will bo at least as dear and as important as to any other persons, would, by tho proposed constitution, be totally excluded from any right to representation on tho governing body of their own university. This is an anomaly of which wo know no other examplo. Tho whole constitution of the university is imposed upon it by the self-eloctod 'and non-representativo Council of tho Collogo of Physicians, "and by the most inadegnately constituted 'and imporfoctly repre-
sentative Council of the College of Surgeons. No sccurity is taken that the University would be administered otherwise than in the corporato interests of those two licensing bodies, and, in in fact, every precantion is taken to prevent any interest which can be supposed to conflict with the individual and joint interests of those two bodies from being allowed even to have a roice in tho management of the new University.
The spirit in which it is likely to be administered is further indicated by the fact that it is not proposed to constitute this new body as a degree-giving power for the students of the medical schools of London, all educated alike, under the same conditions, with the same curriculum, and with the same clinical and scientific advantages. But it is proposed to take from them the right of choice as to the portals through which they will presenterthemselves for this higher grade, and to confine their selection exclusively to these two particular licensing bodies. In ${ }^{7}$ the name and with the object of granting degrees to the London medical students, an effort is mado by this proposal for a charter practically to tie them np to selection of the Membership of the College of Surgeons and the licence of the College of Physicians as the sole mode of entrance. Thus, whether it be regarded from the point of view of the relation of the teaching bodies to the examining bodies, or from the point of view of a just and fair constitution of the University, or from the point of riew of faimess to the medical students themselves, the proposition stands condemmed. Most persons will agree with the memorial of the Westminster School in the opinion that of all the schemes before the Privy Council that of the College of Physicians is the most objectionable.

With the immense body of opposition which has now arisen to that scheme, in the profession at large, as represented by the Society of General Practitioners and the Apothecaries' Society, by the Scotch Universities, by the English Universities, and by the feeling in the medical schools which the Westminster memorial expresses, it is hardly conceivable that the Privy Council can adopt any other course than that which we have from the first advocated, of appointing a Royal Commission fully to inquiro into the wholo subject, and to arrange a scheme which shall moct all the just requirements of the case.

Mr. E. H. Besk, M.A., LL.B., who had much to do with the throwing open of the London University to $\begin{gathered}\text { romen, has been }\end{gathered}$ nominated for election to the Senate, in opposition to Mr. James Anstie, Q.C.

Dr. Strats has been unanimously chosen by the Professors of the Paris Faculty as the successor of Professor Vulpian in the chair of Experimental and Comparative Pathology. The remulations require two names to be submitted to the Minister of Public Instruction, and that of Dr. Hanot was chesen as the secoud.

## MEDICO-PSYCHOLOCICAL ASSOCIATION.

A spectal general meeting of the Medico-Psychological Association will be held at Bethlem Hospital, on Friday, February 24th, l8ss, at 5.30 P.M., "To consider the recent appointment at the Hayward's Heath Asylum."

CREMATION.
We are informed that during the present year already five cremations have taken place at the Woking Crematorium of the Cremstion Society. One of them was a child eight months old, and the ashes weighed only eight ounces. L'j to the present time thirtyone cremations have taken place at the Society's Crmatorium. A gold medal was awarded to the Cremation Society of England. at the Yorkshire Jubilee Exhibition lately held at Saltaire.

## THE SECTION OF SURGERY AT THE GLASGOW MEETING.

The President of the Surgical Section (Professor George Buchanan) mill take it as a favour, if those gentlemen who propose to bring forward papers or cases in surgery will kindly give early notice of their intention, either to himself at 193, Dath Street, or to Dr. Knox, Local Secretary of the Surgical Section, India Street.

## PPIOFESSOR LANKESTER AND THE VICECHANCELLOR.

Professor Ray Lankester has been defeated in his action against the Vice-Chancellor of Oxford Lniversity. Profescor Lankester had objected to go from London to Oxford to hold a preliminary civa voce examination in animal morphology on the ground that it was useless, and not required ly the statutes. The University authorities held that it was an integral part of the examination as required by the statutes, and dismissed the recalcitrant examiner. The Queen's Bench decided not to issue a mandamus requiring the Vice-Chancellor to reinstate l'rofessor Lankester.

THE NATIONAL PENSION FUND FOR NURSES.
The first meeting of the Conncil was held at the Offlces, 38 , Old Jewry, on Friday, February 10th. Mr. Walter 1I. Burns (Messrs. J. S. Morgan and Co.) was appointed Chairman, and Mr. Eurdett Deputy-Chairman of the Council. Mr. Thomas Bryant (Senior Surgeon of Gny's IIospital), Mr. R. Brudenell Carter (the St. George's and National Epileptic llospitals), and Sajor Ross, M.P. (Chairman of the Middlesex Hospital), were clected members of the Council. The tables, rates of premium, and other forms which the actuary had prepared were submitted, and arrangements were made for the completion of the necessary prospectuses, etc., for the information of those waiting to join the fund. The Earl of Aberdeen, Lord Rothschild, Messrs. E. A. Hambro, Henry Ifncks Gibls, and Junius S. Morgan were elected Vice-Presidents; nad the Countess of Rosebery and Lady Rothschild patronesses. It was reported that several bundred names of those anxions to join the fund had been registered during the last three weeks, in addition to the 1,400 previously announced. Mr. Philip, Grove was appointed Secretary, and all names and inquiries should be addressed to him at the offices of the Fund, $z^{2}$, old Jewry, R.C.

## TREATMENT OF INEBRIETY.

Following the example set by the Dalrymple House, Mr. Iarrison Branthwaite has tabulated the records of the cases of inebriety treated by him at lligh Shot llouse, Twickenham. It would be well if the licensees of other retreats for inebriates follored suit. Mr. Branthwaite reports 50 cases of alcoholic inebrictr in $2 \frac{1}{1}$ years, morphine cases being excluded. Of these, 27 were under the Habitual Drunkaris' Aet and 23 were received as private patients. The average age was $39.30^{\circ}$ years; 30 were married, 18 single, and 2 widowers; all but 5 had lıad a good elucation; 9 were merchants. 7 in the army, 4 clergymen, 2 doctors, 2 artists, 3 lotel proprictors, 2 clerks, 2 gentlemen, 2 wine merchants, 2 timber merchants. besides a harrister, a solicitor, a journalist, an architect, a surveyor, a land agent, a builder, a student, a civil servant, a corn merchant, a linen draper, a grocer, and a bont merchant. There
was a history of herellity in 38 per cent., of insanity in 12 per cent.: 47 used tohacco: 45 were regular und 5 periodical inebrintes. The average length of addiction was $9 . \leqslant 4$ yars: 111 used whisky, 6 spirits, 4 lirandy, 3 beter and whisky, 1 brandyand whisky, 1 wino, and 1 beer. In all hut 6 , cither company, or occupation, or some other exciting cause, was present; this in one case being accident, snd in another sunstroke. Some complicating diseuse was present in 11 chses. The average time under treatment was 5.5 months. Of the patients, 20 were doing well, 9 had relapsed, 7 were atill under treatment, aml thad died.

MEDICAL AND SURGICAL CONGRESSES IN GERMANY. Tree seventh German Medical Congress will take phace at Wiesbaden, from April sth to the 12th, under the presidency of Professor Leube, of Wiirzburg. The following questions will be discussed:- 1. Chronic diseases of the myocardium and their treatment. -. Acohol as a medicinal agent. 3. l'rophylaxis and tratment of Asiatic cholera.-The seventeenth congress of the Qermmin Surgical Suciety will be lield at Berlin, from $\Lambda_{\text {pril }}$ the to the 7th.-()n' the evening of April Brd, the Cerman Surgical Society and the Berlin Medical Society, will hold a special meeting in comman for the $1^{\text {urpose}}$ of celebrating the anniversary of the death of the late Professor von Langenbeck.

THE OFFICIAL REPORTS ON THE ILLNESS OF THE CROWN PRINCE.
Tay full text of Professor Virchow's last report on the case of the Crown I'rince, together with an important statement which Sir Horell Mackenzie has presented to the Emperor of Cermany will be found at $!\cdot 370$. From the former it will be scen that the most careful microscopical examination has failed to cletect any conclusire evidence of malignant disease. The substances examined consisted of one large and two smaller pleces of tead tissue, which had spontaneously become detached from the inner surface of the largnx. The larger of these sloughs contained a considerable amount of muscular structure, but no cartilage. The disintegrated tissue was thrown off from the site of the growth on which the diagnosis of cancer was founded. It is, therefore, a fact of the rery highest importance that in this material no eridence of any morbid process beyond violent inflammation was detected. The two reports taken together seem fully to justify the best hopes for the fulure.
THE UNIVERSITY OF LONDON AND THE PROPOSED NEW: UNIVERSITY.
Tur Senate of the Liniversity of London at its last meeting appointed a committer to watch the proccedings in the matter of the potition of the University and King's Colleges for the constitution of a Teaching l'niversity in Lonlon. The members of this committue are, we believe, Lard Ilerschell, Lord Justice Fry, Sir Julian Goldsmiel, Sir John Lubhock, Dr. (quain, 1)r. Wood, Mr. Hutton, and Mr. Witch. At the same meeting a resolution was adopted calling the attention of the llome Secretary and the Lords of the Treasury to the petition, and asking for a full inuniry into the effect of ouch a charter on academic organisation, and on the interests of larning in the country generally ; und withont detcrmining (a) whether the independent functions nnd duties of this University, which have heen axercised for more than fifty yenrs by virtue of charters granted by the Crown under regulations sanctioned by the Secretary of State, and with the aid of funls annually voted by l'arlinment, will not seriously be interfered with if a secand University, composed exclusively or essentially of teaching colleges, lee establishet in Jondon; and (b) whether, as the Sunate are of opinjon, the objects promoted by the petitioning Collegnes, so far as consiatent with the interest of higher ellueation in London, would not be more effectually ad-
ranced by a well-considerel modifleation of the constitution of this University, such as the Senalo have had under consideration, and would be propared to submit, rather than by the. foundation by its side of a new and probably less comprehensive University.
f " . "STONE" OR "GRAVEL."
Tue short but pregnant paper of Sir 1lenry Thompson raises the question of nomenclature, wheh, has a real surgical interest in the determination of surgieal methods to be:adopted in the treatment of stone in the bladder. It is, of consse, important to know whether the various authorities are discussing what is really the same thing. We all know the old-fashioned designation of "gravel," and we know also that it has not been customary for surgeons gravely to discuss surgical operations in connection with the evacuation from the bladder of small calculous particles of insignificant size, which can often be washed out or spontaneously expellet. Sir Henry Thompson refers to certain instances in which there appears to have been rather an abuse of the ordinary nomenclature of stone in this relation, and it is, at any rate, of import-nnce-especially for statistical purposes-that some sort of agreemont should be general as to the size of a calculous particle, which should be dignifica by the name of a "stone",", otherwise statistics of the kind would soon come to have very little or no value.

## SMOKE ABATEMENT.

The Yational Smoke Abatement Institution, min Saturday, February 1ith, inaugurated a series of lectures at the Society of Arts, John Street, Adelphi, W.C. The chair was takeu by Sir W. Aitkin, F.R.S., and a lecture on "Town Smoke and Ifouso Warming" was delivered by Mr. A. E., Fleteher, chief inspector under the Alkali, etc., Works Regulation Aet. 1 n . his oflicial capacity the lecturer has had grent experience of factories and districts where black smoke was produced in much larger volumes than in the Metropolis, and he congratulated Londoners that in the absence of smoking manufactories they had really far from the worst conditions to deal with. The chief source of smoke in London was the domestic fires. The factories were admirably dealt with under the Smoke l'revention Act, which was well carried ont under the Commissioners of Tolice, who were independent of personal interests. Although London had, during recent years, greatly improved, there was every, reason for getting rid of the very considerable resitue of black smoke which still affected its atmosphere and its fogs.'. Primarily, he laid great stress on the use of gascous fuel ; secondly, on the more perfect combustion of the coal itself when used direct as fuel. A discussion followed, in which it was stated that 600 tons of coal are daily burnt in tho bakeries of London iu the carly hours of the morning.

## REVACCINATION.

The Local Government Board have adopted the advice that the limit of age prescribed by the regulations of February 18th, 1808, respecting revaccination at the public expense, should be reduced, and they hare issued an order, clated February 3rd, 1888, providing that in future revaccination may be performed by a public अaccinator upler contract when the applicant has nttained the age of 12 years (instend of 15 years as heretofore), or, in cass there is any impediate ranges of small-pox, the age of 10 years (instead of 12 years as heretofore), and has not before been successfully revaccinated. The term "public raceinator" includes the medical oflicer of a workhouse, separate workhouso school; or infirmary; and, as regards children in those institutions, the order very wisely leared a discretion in the hands of the medical officer by providing that he may, in any case in which lin deems the primary vaceination to have bern inadequate, revaccinate any chiled nader the prescribed age who hits' not before been successfully revaccinated. The caperience whith is accumulating day
by day'as to the great value of revaccimation in mitigating the severity of small-pox epidemics, should stimulate local raccination authorities to promote revaccination as well as primary vacciuation in their districts. The step which has been taken by the Local Coverument Board will greatly facilitate any such actiou by enabling the revaccination to be performed whilst children are still at school, and before they liave actually entered upon the scrious: battle of life. We trust that boards of guardians will, as we have often urged, take more special measures in the future than has been the rule in the past, to encourage the revaccination of young persons immediately the age of 12 years has been reacled.

## LORETA'S OPERATION ON THE STOMACH.

Some two months ago Mlr. Treves performed this operation at the London Hospital upon a man suffering from fibrous stricture of the pylorus. At the time of the operation the patient was very much reduced by pain and constant vomiting, and had been for some time unable to take food by the mouth. The abdomen and stomach were opened, and through the incision mado in the viscus the pylorus was dilated with the fingers. The man made a rapid recovery, and has not vomited since the operation. He can now take any food well. The case will be shown at the next meeting of the Clinical Society.

DEATH OF MR. J. H. WALSH.
We regret to sce the annouucement of the death of Mr. J. H. Walsh, who, though a medical man, was best known as the author (under the nom de plume of "Stonehenge") of a number of very popular works on British sport, and who since 1857 was the editor of the Field. Mr. Walsh was born in 1810, and became a Fellow of the Royal College of Surgeons. He practised as a medical man in Worcestershire until 1852, when he quitted the provinces for the metropolis, and subsequently speut some time abroad. He ultimately settled in London, and devoted himself to literature as a profession. lle was an acknowledged authority on sport of all kinds, and pullished the following works: IIorse in the Stable and the Field, Shot Gun v. Rifle, but he was best known perhaps as the author of British Rural Sports, a work which went through many editions. He also published Domestic Economy, and Domestic Medicine, and in 1858 the Dog in Health and Disease. Some years later he wrote the Dogs of the British Islands, which passed through several editions, and in 1882 he produced the first volume of the Mollern Sportsman's Gun and Rifle, the second following in 1884.

## A CONTRADICTION.

A statement has been going the round of the public press which has caused a good deal of severe comment, to the effect that a poor woman, in a condition which demanded immediate care aud succour, was carried by a policeman and some women to the Lying-in Ilospital, Endell Street, which was near at hand, and that the authorities refused to admit her; that, suffering as she was, she was taken from there to the workhouse, though she piteously begged to be taken "anywhere but there." As might have been anticipated, we find on inquiry that the facts as'stated, with respect to the Endell Strect llospital, are a pure invention. No application, we are informed, was made to admit the woman at that institution. She was, it appears, delivered of her child in the street elose by, withont any attempt being mado either to summon one of the staff or to take her to that hospital. She was, as a untter of fact, on her way to the lying-in ward of the workhouse next door, and had not thought of going to the hospital. • IIad the incident beck knowu to the medleal staff, no quéstion trould have been tasked as to whether she was married or single, but the toman would have been taken in and kept for at least eightcen days.

## MEMORIAL TO THE LATE SURGEON-MAJOR T. R. LEWIS.

The subscribers to the ahove memorial will be glad to learn that the reprinting of Dr. Lewis's collected scientific works has now nearly approached completion, much delay having leen occasioned by the reproduction of numerous maps and lithograplis. The volume, in crown 4to., when completed will contain about 800 pages illustrated by 5 maps, 24 copperplato engravings, 15 chromolithograpls, and numerous woodcuts, with a portrait of the author, in autotype, forming a fitting memorial of one who deroted his life to scientific medical research. It is hoped that intending subscribers will give in their names as soon as possible to the IIonorary Secretaries, care of Messrs. Holt, Laurie and Co., 17, Whitehall Place, S.W., as it is especially wished that the names of all supporters of the memorial (each subscriber of £I receiving a copy of the reprinted works) should appear in the list of subscribers, which will appear as an appendis to the volume.

## ZOOPLASTIC GRAFTS.

Surgeors are familiar with skin grafting in the human subject, but it is rather a novel procedure to substitute the skin of birds and poultry for snips from the patient's own healthy skin. Wiesmann twice transplanted skin from pigeon to pigeon with success, and three times from fowl' to fowl. Under the title of Dermepenthesis, Mr. G.F. Cadogan-Masterman published some interesting cases a few weeks since in our columns, in which he had succeeded in utilising theskin of young wild rabbits for the purpose of bringing about the cicatrisation of raw and ulcerating surfaces. Several others have repeated and varied Wiesmann's experiments, but before Mr. Masterman none of them seem to have been enterprising enough to spare their patients the disagreeable snipping incidental to the operation as it is usually practised. At about the same time Dr. Redard communicated to the Paris Academy of Medicine some observations of his own with animal grafts on wounds in human beings. In a case of severe burn of the scalp of eight months' standing, in a child 2 years of age, he obtained a rapid cicatrisation by means of grafts from a fowl. He first tried grafts of frog's skin, but as these proved to be repulsive to patients, and did not give very good results, he substituted others from the fowl, and the wound, which measured three inches by two and a half, had completely healed in two months. Ite had been:equally successful in other and subsequent cases. He takes the skin from beneath the wing of a chicken, carefully securing the subjacent cellular tissue, but avoiding adipose tissue. The transplanted pieces varied from a sixth to a third of an inch in size, and they were maintained in position by means of a little cotton-wool and iodoform. gauze. The skin of birds and fowls has the advantage of being supple, delicate, and rascular; it adapts itself readily to the surface of the wound, and adheres without undergoing absorption.

## THE HUNTERIAN SOCIETY.

The annual dinner of the Hunterian Society was held on Friday evening last; Dr. Gervis, President, in the chair. There was a large atteudance, including Dr. Robert Barnes, Mr. Clement Lucas (President-elect), Dr. Ilolman (Reigate), Mr. Ernest Hart, Dr. Savage, Dr. Galabin, Mr. de Bcrdt Hovell, Dr. F. Charlewood Turner, Mr. Bland Sutton, Mr. Stewart (Conservator of the Munterian Bluseims), and other guests and members of the Society. dfter proposing the usual loyal toasts, the Chairman referred to the long-standing prosperity of the Society, and the raluable contributions which its members had made to clinical and scientifie: $i$ medicine, emumerating a long list of eminent surgeons aud phy-sicians-Buzzard, Curling, Bright, Herbert Davies, and others
 one of the specialities of the Socicty that it had hitherto pursuet til
its enirse without seming pribicity for itiowork, fud in the belief that conference without putilication was a valuathe means for promoting scientific progress. Ir. Holman responded for the British Medieal Association, Mr. Stewnrt for the Hunteriun Musenm, and Ar. Einnest Mart for the visitors, la proposing the health of the Chairman, it was mentioned that after thirty-seven years of active serviea at St . Thomas's llospital, he was now proposing to lessen the work attached to his public nppointments, in view of the heary occupations of private engagements, and after having made $n$ contribution of the hest work of the best years of his life to the sersice of his hospital, and to tho furthernmee of systematic and clinical teaching. The tonst was received with math enthusiasm, and duly acknowledged. In the course of the mecting it was mentioned that an important announcement was shortly abont to be made, of a character gratifying to the members of the liritish Medical Issociation, on the unanimous recommenlation of the Council of the Hunterian Society, with referenco to the disposal of its raluable library. Mr. Hart, in referring to this, gave a brief sketch of the present promising position of the nowly founded library of the British Merlical Association, and of its prolable developuent. The dinaer was enlivened with admirable music, and broke up at a late hour.

## ELECTRICAL THERAPEUTICS

Ter: gullibility of the public has seldom been rendered more evident than in the ease with which they are fleeced by empiries who trade on the unknown potentialities of electricity. A few pieres of feebly magnetised clock epring sewn into flannel or leather constitute a inagnetic appliance which is advertisod to cure most of the ills of suffering humanity. Picces of metal welded together in definnce of the most elementary laws of electric science are credited with powers for good beside which the elixir of life itself would pula. As the prices asked and received for such nrticles from a confiding public are calculated, not on the cost of production, but on the claims of their introducers, this department of industry is ahout the most remunerative yet discoveren, and success has brought numerous rival magneticisns and elcetricians into the raarket, who vie with each other in the audaeity of their assertions. What one regrets is, perhaps, less the fact that the pablic are induced to part with their money-populus mult decipi-but that discredit is thoreby brought on what promises in the future to be a very useful branch of therapeutics. The absence of any organised means of providing for the electrical truatment of disease, and the scanty supply of apparatus too often fonnd in hospitals, are responsible for much of the puthie gullibility. This deficiency may, if the undertaking is properly managed, be romedied by tho Institute of Medical Electricity, which has just been orgunised with the approval and under the control of a number of distinguished hospital physicians for the express purpose of providing a place at which, or in connection with which, yeople of limited means may obtain electrical trentment under the direction of their own medical attendants at moderate fees. There is no reason why such an institution should not fulfil a useful purpose in tbe treatment of disease, the names of the hospital physicians and men of science connected with it affording a guarantee of its being restricted to its proper functions.

## REMOVAL OF A HAIRPIN FROM THE PERITONEUM.

 Dr. Frefond, of Strasburg, describes in the Centralllatt fiir Gyniakoiogie (December Jith), a case where a hairpin was found in the peritoneal cavity in t!e course of an exploratory operation for suspected disease of t e uter ne ajpendlages. The patient whs a sickly and cmaciated moman, aged 41, who had symptoms of tertiary ayphilis. ller period had leen regular till about four months before s' efrst applied for hospital relief ; then it did notappech for two nontha; at the end of that perind metrorrhagia set in, with the discharge of small shreds, and spasmodic pains in the saeral region and the hypgastrium. The discharge of blood continued for five weeks, then epileptiform fits occurred. The uterus was found anteverted, and a sinall oval tumanr lay to its I ft side, connectell by a tough cord with the pelvic wall. Tubsl preghancy wis suspectel. On March 2nd, 1887. an exploratory incision was made; the adhesions, which bled freely, had to bo lroken down, and a cyst of the left tube, " the size of an apple," was removel. It was universally adherent to surrounding structures: and, in securing some bleeding vessels to the great omentum, a picce of hairpin. an inch long, und consisting of part of the two shanks pressed close together just below their point of union, was discovered and extracted. A drainage-tube was left for twenty hours in the wound. The patient did well for a fortnight, then the stump of the tubal pediele suppurated, and the pus whicls escaped contained ligature-threads. The first period after oluerntion was attended witly attacks of convulsions, which lasted eight days; but the sccond was only represented by the molimen without show, and by slight convulsive attacks. Ten days later a hard substance was detacled, on vaginal examination. to the left of the cervix. The woman was in good health when last seen by Dr. Freund; but there were slight convulsions at every menstrual period. Should a portion of the hairpin yet remain it the pelvis, the persistence of the neurosis is readily comprehensible; should the hard body he simply an inflammatory deposit, the persistence of the symptoms would be a feature alrealy observed in other cases, where self-evident canses of nerve irritation have been removed, the neurotic condition remaining for a long time after their removal. It appears that in this case the shanks of the hairpin had been pressed together, and introduced into the uterus for the destruction of the imaginary foetus, nmenorrhoea having followed cohahitation. The pin had hroken, found its way into the left tube, set up salpingitis, perforated the tube, and reached the omentum. Dr. Freund shows, on carefully considered evidence, that the prevalent theory that haipins nre introduced into the genito-urinary tract, either in the belief that the practice may produce abortion, or for another repulsive purpose, is perfectly correct.

SCOTLAND.
INCREASE OF MORTALITY IN EDINBURGH.
Trie mortality for January in Elinburgh this year shows a very considerable increase when compmred with the two preceding sears. There were 502 deaths, equal to a death-rate of 24.16 per 1.000 of the estimated population; in Jannary, 1857, there were 446 deaths, equal to 20.69 per 1,000 ; while in 1886 there were 362 denths, and the average death-rate for tive years was 20.13. Diseases of the chest accounted for 166 dentlis, while zymotic diseases cansed 72 deaths, of which no fewer than th were from measles. The above death-rate for Jamary, 188s, is the highest that has been recordet since 1872.

INNOVATION AS TO MORTALITY STATISTICS.
Tue l'ublic Ifealth Committee of Edinburgh Town Council discussed at length and unanimously adopted a motion by the Dean of Guild (Sir James Gowans), which is a decided innovation as regards the publication of mortality statist ics in Edinburgh, and which will likely yicld abundant material for generalisation as to the effect of house environment in the death-rate of the dwellers in that city. The motion proposed was that, insted of ti:e present system, Dr. Littlejohn, the medical oflicer of health, should make a return of $t^{2} c$ deaths in the city, witis tie rentul of $t^{\prime} e$ houses in which they occur, the necess ry information regarding
rental to be supplied by Mr. Paterson, the assessor. This'statement would be prepared every four weeks and submitted to the Council, the cenvener of the committee giving at the ond of each year a summary showing the results of the preceding menths. This scheme of Sir James Gowans was thoroughly gone into by a subcommittee, and by it unanimously recemmended for adoption. It was agreed to classify the rental as follows: Under £ £ , from $£^{-} 5$ to $£ 10$, £10 to $£ 15$, and so on up to $£ 50$, all above that heing classed the same.

## ROSEWELL ASYLUM.

The appointment of Dr. Campbell Clark as Medical Superintendent to Rosewell Asylum is not to be carried out, Dr. Clark having elected te remain at Bothwell Asylum. "The directors have now appointed to Rosewell Asylum, as Medical Superintendent, Dr. Mitchell, at present senior resident in.Morningside Asylum.

## CASE OF LONGEVITY.

A rfmarkable case of longevity, the circumstarces of which have been'carefully locked inte, is that of Mr. Michael Smith, of Larkhall, who has rcached the age of 111 years. Smith was born at Auchnagurgan, and baptised at Ballymaenab in the montly of Octeber, 1776. He was marricd in 1818, at 42 years of age, and had cleven children, the eldest of whom would have been 69 years of age had he bcen alive. A morement is on foot at Larkhall to present Mr. Smith with a testimonial.

## GLASGOW PHILOSOPHICAL SOCIETY.

At the last meeting of this Society, on February Sth, Professor McKendrick exhibited and described E. von Fleisclu's spectropolarimeter for the estimation of grape sugar, a centrifugal apparatus for separation of blood into corpuscles and plasma, and: Kronecker's electromyographion. Sir William Thomson exhibited' various new electrical measuring instruments, ampèremeters, etc. is

GLASGOW MEDICO-CHIRURGICAL SOCIETY.
At the last meeting of this Society, on February 10 th, a variety of specimens were shorrn by Dr. Samsen Gemmell, Mr. A. E. Maylard, Dr. C. F. Yollock, and Dr. Parry. The specimens included.
lung with bean impacted in brenchus, a larynx with papillemata cultivations of the organisms of pus, and micrescopical specimens of meibomian glands and cysts of eyelids. Dr. Macemen showed the parts in left inguinal hernia, romoved post-mortem from a man whe had undergone Dr. Macewen's operation by "internal abdominal peritoneal pad, and the restoration of the valred form of the inguinal canal," and who had been able afterwards to carry on hls work as a carter without any cxternal suppert.

ST. MUNGO'S COLLEGE, GLASGOW....
The agitation for the erection of the Glasgow Royal lnfirmary. Medical School into a College of the Caiversity of Glasgow has been brought to a head by the introduction into Parliament by some of the members for Glasgow of a Bill for this purpose. It proposes to establish in the liast End of Clasgow a College of the Unirersity, to be called "St. Munge's College," with which the medical schoel of the University slall be incorporated, and to which all the premises and effects, etc., of the infirmary school shall be conveyed. The Dill provides for the mangement of tho affains of the College by a body of governors, who shall appoint. the professors and lecturers. The teaching at the Colloge is not limited in the Bill to medicine, but includes the scielices and arts and other branchos of learning as the governors may deem fit? The status, rights, and privileges of the professers, are to be the same as those pertaining to the University professors, and each faculty of the new College is to be sdequately reprosented in the University Court. It will thus be seen that the Bill has been
drafted in a bold spirit, and that it will commend itself to the public mind is ohvious. ( None the less is it 'certain to meet with stubborn opposition frem the Senate of the L'niversity. But so many guarantees for the proper management of the College have beenintroduced intolthe Bill, so full is the University representation on its, board of governors, that it will be difficult for the University autherities to convince the public that it is not a Bill worthy of becoming law. The board of governors, it is "proposed, shall cqusist of ninetcen persons, of whom six' are U'niversity representatives and"five representatives of the hoyal Infirmary. The Faculty of Ihysicians and Surgeons is accorded one representative. The Lord l'revost of the city is named one of the borard, and the Town Council names a rêpresentative. The other reprosentatives are sent by wrious other important public bodies. Ther six University represeutatives are the Chancellor, Vice-Chancellor, two elected by the Senate; and two by the General Coincil.: The proceedings of the governors iare ito be subject to the review of the University Court. The details of the Dill thus bear out its profession that it is drawn in "the interests of learning, and more especially of medical education and science." Even though it does not succeed in passing into law, it will not fail to have a stimulating effect upon the authorities of the University.

## IRELAND.

## ST. JOHN AMBULANCE ASSOCIATION, BELFAST CENTRE

Cocinses of ambulance instruction have recently been given in Belfast , by Professor Sinclaĭ, Dr. W. G. Mackenzie, anđ̉ Dr. Straban.' They hare been rery largely attended; the utmost interest being shown in the work, and the exccllence of the instruction given has been ättested by the very satjsfactory results of the examinations, conducted by Surgeon Fagan, Dr. Walton Browne, aud Brigade-Surgeon McFarland.
if + EPIDEMIC: OF MEASLES AT SCHULL.
Another epidemic of measles has broken out in Schull and dittrict, near Skibbereen, Ceunty Cork. The disoase first made its appearance in the codstguard station among the chidren. The schools have been olosed, and steps taken to prohibit the holding of "wakes." Up to last week there were about fifty cases, with only one death.'

## DUBLIN HOSPITAL FUND.

Ar the annual meeting of the Dublin Hospital Fund, held last week, it was stated that the amount received was less by $£ 200^{\circ}$ than in 1886. The total received was $£ 3,9579$ s. 3 d . The following is the resnlt of the distribution for the yedr:-Sir Patrick Dun's, £238 12s. ; City of Dublin, £587 18s. 94. ; Docter Stecevens's, $£ 991 \mathrm{ss} .7 \mathrm{~d}$. ; Meath, £483 2s.; Mercer's, 11064 s .6 d . ; Whitworth (Drumcondra), "£40 Ds. 10d:"; Coombe (Lying-in),' £11S 5s.: 7d.; Rotunda (Lying-in), £114 5s. Si... St: Mark's (Ophthalmic), $£ 18 \pm 3 \mathrm{~s}$. s̃d. ; National Eye and Ear Intirmary, £102 0s. 2d. ; Convalescent Home, £233 12s. 8d.': Cork Street (Fever), £111 1s. 8d.; Adelaide, $£ 817$ 16s. Gu.; Monkstomn, £154 Gs. thd. ; Orthopedio (Great Brunswick Street), £160 18s. M1.: Vitional Childrén's, £09 5 s . TU'-total, $£ 3,681 \mathrm{l3s}$. 37. The Cemmittee felt bound to inquire whether any of the ordinary funds wouki besempleyed to defray the expenditire of the investigation at Mercer's Mospitel. They were informed that the "only expenses which would fall on the 'hospital woth be the nssessers' fees, and the costs of reports and priated evidence, and the charge for the inquity in the roon ${ }^{\top}$ at the Four Courts.". The grant to the hospital will therefore be paid.

# THE CASE OF HIS IMPERIAL HIGHNESS TIIE CROWN PRINCE OF GERMANY. 

Br SIR MORELL MACKENZIE, M.D.

His lmpribl Highness the Crown Prince of Germany having expressed his wish that I should now place on record my opinion of his case, the opportunity is afforded of correcting seme of the statements which from tirue to time have been inaccurately attributed to me.
The gencral idea is that I am of opinion that tho discase from Which Jis lmperial Highness is suffering is not cancer: ${ }^{\text {i }}$ the vi w on the other hand, which I have consistently maintained is, that there never bas been any proof of the existence of cancer.
To enter more into detail: When I arrived in Berlin, last May, 1 stated to my colleagues that, in my opiniou the appearances seen in the thront were of a negative character, that is to say, that the disease might be either benign or malignant, and that its nature could only be determined by microscopical examination. A portion of the discased tissue having been taken awny by me from the throat of 11 is Imperial Highness, it was sulmitted to Professor Virchow, whe could not detect in it anything of a malignant naturc. Repeated examinations by Professor Virchow of other portions remored by me vielded similar results.

In the month of July, whilst IIis Imperial Highness was staying in the Isle of Wight, I pointed out to more than one of his august relatives that the danger that 1 most dreaded was the occurrence of perichondritis at a future dnte, and three months later this fear was proved to be well grounded. At the end of October and enrly part of Jovember entirely fresh symptoms appeared, and at that time the local disense presented an appearance which was consistent with the diagnosis of cancer. It was then impossible to obtain any fresh microscopical evidence in the matter, and I considered it safer accordingly to treat the case as one of a malignant nature; at the same time, howerer, I drew up and submitted to my colleagies a protool, in which I stated that although the disense at that moment looked like cancer, I could not agree that the malady was proved to be malignant until a further microscopical examination had been made. The document in which I set forth my views was forwarded to Berlin to be placed in the State Archives.' Although the unfavourable symptoms then present were explicable on the ground of the existence of cancer, yet it was clear to the majority of the physicinas at that time in attendance that perichondritis had supervened.
In the middle of December, however, the unfarourable signs had passed away, and thero were no longer any clinical symptoms of cancer. Microscopical evidence on the sulject was, however, still wanting. This was furnished at the end of Janunry, when a slough was expectoratel from the very spot which had presented such a higlly suspicious appearanco in November. This slough was most carvifully and repentedly examined by Professor Virchow, and the result (which is now published) again shows that cancer could not be detected.
To recapitulate: In my opinion the clinical symptoms have always been entirely compatille with non-malignant disenae, and the microscopical signs lave been in harmony with this view. I need only add that although in nearly every case of laryngeal discase it is possible at the first inspection to form an accurate opinion as to the nature of the disense presenting itself, yet, in a few rare instances, the progress of the complaint alone permits its character to be determined. Unfortunately, the case of IIis lmperial Highness is among the latter number, and at this

[^34]moment medical science does not permit me to afliru that any other disease is present than clronic interstitial inflammation of the laryns combined with perichondritis.
San Remo, Felfuary 12th, 1888.

## REPORT OF EXAMINATION OF THE SLOUGH FROM THE LARYNX OF MIS IMLPERTAL HIGHNESS TIE CROWN PRINCE OF GERMANY.

Ox the morning of the $26 t h$ of lanuary, 1888, Dr. Wegener bronght me a sealed bor with a letter datel 23 rd from Dr. Schrader from San Remo. It was accompanied by a report, dated January 17 th, from Dr. Krause respecting a large piece of tissue which had been expectorated on the same day from the larynx of 11. I. II. The Crown lrince.
The portion sent was the whole of the matter expectorated, with the exception of six small pinticles removed by Dr. Krause for examination in the fresh state. The piece of tissue was in a sealed bottle containing alsolute alcohol. In addition to the large pertion referred to, therc were also two other separate and somewhat harder pieces-a larger and a smaller. The former, according to Dr. Krause, was originally a yart of the principal mass. The examination offered great difficulties, the nature of which could exat bare been anticipaled, elther from the form or the appearance of the pieces submitted for investigation:
The large mass greatly resembled certain portions of imperfcetly masticated pieces of meat, which are sometimes rejected in vomiting after being swallowed. This riew scemed to derive support from the presence here nud there of small yellow and brownish particles of fine cellular regetable structure and from the existence in the innermost portion of the large piece (expectorated) of an alundance of elastic fibres.
In consideration, however, of the very precise information conveyed by Dr. Krause to the effect that the substance had been observed before its separation (from the laryn.) extending from beneath the left rentricular band from the middle to the anterior angle, and also below the glottis, and even exteuding round below the anterior part of the right vecal cord, there could be no doubt, on further examination, that tre had to deal with a large elough spontaneously separated from the inner surface of the larynx, and not with a purely exudative (fibrinons) mass.
In the substance wlich, according to the report of Dr. Krause, When first expectoratell, measured $3 \frac{1}{2}$ centimètres in length, whilst nt the thinner end it was half a centimetre in width (its thickness being 4 millimètres), and at the thicker end one centimètre wide, a smanll smooth semicircular spot in the long diameter of the substance could be seen., All the rest of the surface was accupied by long and very closely arranged fibres. Atthough there was no epithelium on the smiooth spot, and no glands beneath it, it cannot be doubted that this was the free surface of the mucous membrane. For heneath it could he seem microscopically a thiu layer of almost homogencons compective tissue, and a great mass of elastic fibres. Beneath this, there was, deeper down, a very thick laycr, consisting especially of tubules with granular amoryhous contents. Irom this thick layer originated the long libres observed with the naked eye. It was not once possible to recngnise in theso tubular layers any transverse stripes, but they seemed to contain only amorphous matter, in which, on more minute examination, numerous micrococci were found. Here and there numerous but very small clear brown bodies, or crystal-like deposits, were olserved. Neverthapless, I have no donlit that these tubular layers and filmes are primitive mascular fasciculi which, through a necrotic process, have hecn destroyed.
The slough must therefore he regarded as a necrotic and decomposed part of the larynx, which in parts has been sepharated from the surface to $a$ denth of 4 millimetres. The very rich muscular structure could only be attributed to the thyro-arytenoid muscle.
1 could not deterinine what kind of morbid process had caused the gangrene, nor what kind of process had produced the dermarcation and exfoliation of the substance. Neither pu--2arpuscles nor granulation-cells could be distinguished: and, in fact, in most places there was nothing of a hieterogenous nature in be diacovered. Only in the larger (of the two smalter picces) which had loeen cut off the min mass by Dr. Krause from a somewhat hard spot, and which had the form of a flat wart on section, with the
naked eje a central whiter and an external and opaque rather thick covering could be distinguished.

In every microscopic sectionso-called nests (zuicbeln) of epider moidal cells, for the most jrart of homogencous character, were seen. As a rule these nest-cells were in the most external layer, or in that lying immediately beneath it. The external layer had also most likely consisted of an epidermoidal formation, though these cells could only be here and there partially distinguished.

I could not find epidermoidal cells in the deep parts, and distinctly isolated alveoli were nowhere to be discovered, in spite of assiduous researches.

These examinations will be continued, and if any further result is obtained 1 will send a'report instantly.

## (Sigued) Rudolf Vinchow,

Director of the P'athological Institute, Berlin.
January 29th, 1888.
We aro informed by Sir Morell Mackenzie, whe has forwarded the above translation to us, that Professor Virchow has since sent several private letters, in which, however, he has not been able to add anything to his original report. Nevertheless, he remarks that he has not found any cartilage in any portion of the slough.

## THE BRITISH NUPSES ASSOCIATION.

A meeting in furtherance of the aims and objects of the British Nurses Association, was held on Monday last, at St. George's Mall, Langham Place, at which the Princess Christian, of Schlesweg-IIolstein, the President of the Assaciation, was present. The chair was talsen by Mr. Savory, President of the Royal College of Surgeons, who was supported by Sir Jlenry Acland, Dr. Quain, Sir Joscph Jister, Sir Dyce Duckworth, Mr. John Marshall, Sir Douglas Powell, Mr. Brudenell Carter, Sir Joseph Fayrer, Mr. Gant, Dr. Norman Moore, Miss Mollett. Miss Stewart (St. Bartholomew's), and other matrons of metropolitan hospitals, together with a large gathering of representatives of the nursing profession.

Princess Christias, in opening the proceedings, said: I have been asked to say a few words to open this meeting, a meeting of which the importance and interest cannot be overrated. We are met tagether to-day to lay the foundation stone of an Association. Which should not be inferior to any other great institution of this kingdom. I said lay the foundation stone, but that is already laid. We have, rather, come together to enlist the public sympathy and support in furthering it, in building it up. The British Nurses Association seeks to unite in common action all who are engaged in doing Troman's highest and noblest work, namely, that of nursing the sick. The first object of the Association is to obtain for the calling of nursing the recognised position and legal constitution of a profession which shall from henceforth be inseparable from the noble profession of medicine. It will follow from this, that in the future every member of the nursing profession must hare been educated up to a definite standurd of knowledge and efficiency. The importance of this guarantee to the public cannot be overestimated. Another object is to enable the members of the Association to assist cach other in illuess or old age. Dut the British Nurses Association has also a decper, a wider, and a grander meaning. I believe it is the first example of a large number of women combining together, not only to help their overworked or weaker sisters, but also to further and advance their calling, and to raise their work to a higher level than it has hitherto held. If the Association be sue-cessful-and its success now depends mainly on the united efforts of the nurses themselves - who can foretell where the influence of their example will end? It will perhaps be the means of showing women in other walks of life that they, too, can combine successfully for the manifest advantage of themselres, their fellow workers, and society in genernl, in a united striving after higher things. I should like to say how much 1 feel personally the great honour which has been done me in Jour allowing me to beeome a fellow worker in this great movement, and I will conclude with some words which scem to me to embody the true spirit of nursing. They are:-

> Perfect service rendered, dnties done,
> In charity, soft speech, and stainless days,
> Thrse riclies shall not fade away tn life,
> Nor any death dispraise."

The Chairman said the cause they had at heart was so good and strong that it needed no advocacy to commend it to the acceptance of all. Eyen those who thought lightly of doctors
were able to appreciate good nursing, and who, when illness came upon him, dreamed of refusing such help? In no department of their art had there been a more signal advance than in that of nursing. Some of them were old enough to remember hy what class of persons the nursing in their wards and sickrooms was formerly carried on-the lineal descendants of the old hospital nurse, as she was called. Those of them who could remember these and knew what our wards and sickrooms were now might perhaps realise the vast improvement which had leen effected. He who watched most closely would be able to appreciate most fully the debt they owed to good nursing. For many years their faith in drugs and specific remedies had gradually declined, while they had learned to attach more importance to matters of hygiene and to good nursing. The time had come when some definite organisation should be established for those who devoted themselves to the duties of nursing. In the first place, a system of registration by a body of competent authorities would secure a simple guarantee to all that those whose names appeared on the register were duly qualified for their work. It would accomplish for nurses what the registration of the medical profession secured for them, and they and those ladies who were at the head of their department would see that the character and credentials of the Association were such that no question could be raised with regard to its competency or worthiness. Such an Assaciation, by the judicious distribution of distinctions, might do very much to increase excellence and to bring to the front those who were best qualified to help and adrise others. As in the church, in the law, and in medicine, by a recognised conrse of study and by examination, security was given to the public that those who offered their services were at least in some degree qualified for the work, so in the case of nurses for the sick should the public look for such evidences of character and education as that Association would be able to offer. With all his heart he said God speed the Association, might it prosper as it deserved to do. The loyal and devoted work which the nurses did had been recognised by the Queen; her recent gift had expressed her sympathy with their work.
Sir Dyce Duckworth moved the first resolution: "That this meeting, desiring to express its cordial sympathy with the British Nurses Association, pledges itself to support the Association by every means in its power, and urges upon all nurses in the United Kingdom who are eligible for membership that they should join the Association for the sake of promoting the advancement of their profession." Ile regarded the present meeting as very strong evidence that the whole body of nurses, and those who were interested in their career and good work, were not satisfied with things as they were, and that, therefore, it was intended that something should be done to put thase good women who were en- ! gaged in that useful work in a better position, for the benefit of, both themselres and the public. It was now difficult to gire a definition of what was meant by a "trained nurse." When that Association was set on foot that difficulty would no longer exist. He thought it would certainly be one of the duties of the Association to lay down the conditions of education, and to instruct the public as to what was meant by a "trained nurse." Mc had no doubt that in the future a three years' curriculum would be required for a trained nurse. He regarded murses as units, who would be better for a little cohesion; by cohesion and co-operation very great benefit might be derived, both for the sick and the public. Such an institution as they Tere proposing to build up could only be carried on and regulated by those who understood the work best. They beliered it was not a work in which the laity could take any active, if any, part at all, for the work required very special knowledge. By the adoption of a register the public wauld be able to distinguish thase nurses who were thoroughly trained from those tho were not. Those not accepted by the Association might be safely taken as ineflicient and imperfectly trained. The time, he thought, had come when they might fairly stand by themselves. IIe would urge the nurses rery strongly to come forward and enrol themselves in the Assaciation, because he could not conceive under any circumstances whatever, either notr or at any future time, that such an opportunity as now existed, would present itself agaiu.

Mr. Bnupereli, Carter seconded the resolution, which was supported by Dr. Mattuews Descan and by Dr. Normas Moore. who reminded them that the attempt had been made before under much less auspicious circumstances in the year 1634 , when thethen existing murses of London endearoured to become iucorporated to the College of Physicians, having a very powerful adrocate in Dr. Peter Chamberlain. They were at that time an un-
educaterl and almant untraned hody. nind thny were then unable to secure the support of the College of Physicians.

Miss Wood (the Secretary) said they all knew what a large number of people were pressing into the mursing profession, and it seemed necessury that they should havo somo means of distingaishing letween those who were suitable' and those who wero not. Fo such gumrmatee was at presout aforidal by tho hospitals, as sometimes nurses went out without suflicient training, and called thenselves "trained nurses." Nurses who had been properly trained wished to band themselves together to promote the advancement of the ir profession. The way in which that would be donewould be, of course, a matter to be considered in detail as time wrat on. No nurse would bear tha name of a trained nurse until she hal been in traiuing for a period of threo years; as to that she thouglt they would have a consensus of medical opinion. They did not want to make it in any way a trades union; they had no idea of dictating terms of eontrack between omployer and employed. What they aimed at was that when the nurse went fortli to do her work she should do so as a trained nurse, and for that object they wero seeking to obtain a charter which would give them tho legal right to register aurses after oxamination either by their own hospital or a central body: Having satisfied the leading members of the medical profession, and of the nursing profession, that they knew by practice as well as by theory what they professed, they would then be registered, and have the right to practise as nurses. The issociation would not interfere with hospital custom, but they did intend, as far ns possible, to prevent nurses who were insufliciently trained going out to nurse in private families as "trained nurses." The public were not yet educated in the matter of nursing. She concluded by urging nll narses to come forward and make the Assuciation what it ought to be, a very great success.
Mr. Cross and Miss Moleft having spokent, the resolution was carried unanimously:

Sir Hensry Aclando, in proposing a rote of thanks to Princess Christinn for aceepting the presidency of the Associationand for the active interest and work she was devoting to its progress, recalled the fact that IIer Royal IIighness was the translator of Esmarch's First Ald to the Sick and Hounded, and spoke of the great interest shown by her in the work of nurses and in nursing institutions, referring also to the great national association organised by her sister in Germany for that great parpose. They were at the present meeting responding to that splendid national sentiment which would raise one of the grindest monuments to the greatest monarch of England, who Gid decided that that magnificent gift which the nation had given to her should be given back to assuage the sickness and sorrows of the people under their care.
Dr. Qcain scconded the rote of thanks; which was heartily accorded.
A vote of thanks to the Chairman, proposed hy Sir Josepr Fafrer and sceonded by Dr. Douglas Powell, elosed the proceedings.

## DEGREES FOR LONDON MEDICAL STUDENTS.

 PETITIONS TO TIIE PRIYY COUNCIL.the Petition of Westminster Hospital Medical SOHOOL.
(In Support of the Petition of the Asxociation for Promoting a Teaching Üniversity).
Tup following petition lias been signed by the majority of the teachers at Westminster Ilospital Schoal, and forwarded to tho Privy Council.

We, the undersigned teachers of the Westminster Hospital Medical Schonl, and members of the staff of the Westminster Hospital, respectfully beg to lay before the most llonourahle J'rivy Council, the following rensons, in so far as they concern the medieal faculty, in support of the petition now before the said Council from the issociation for Promoting a Tenching Uuiversity in London.

1. We fully admit the necessity which exists for providing a merical degree for students of the metropolitan merhical sehools on conditions less restrictive and less prohibitive than thoso at present imposed by the lniversity of London.
2. We are of opinion that in any plan proposed to meet this need there should be an intimate association of the teaching and examining functions; both being directly controlled by the same
governing bady! In such way do we conceive that the true principles of a university are to be satisfied.
3. We regard the proposal made by the lioyal Colleges of Physicians and Surgeons as the least satisfactory way of meetiog the acknowledged requirements; since it maintains only an indireet. associntion of the traching and examining functions, and would merely confer the title of university on an examining board. Such a plan we feel sure would not provide a satisfactory medical degree, nor one that would be valued as it should by possessors, although wo fully recomise the excellent general character of the present examinations of the snid board for qualifying purposes:
4. We are of opinion that either the proposal of the Association for l'romoting a Teaching University in london, or that of the University and King's Colleges, now before the Privy Council, would satisfy the requircments, and by nssociating together the various teaching hodies, properly qualified, would establish'a university that woild be real, and not one in name only; offering also the opportunity for compelling some general training in arts, which is in almost universally accepted accordance with the spirit of a universlty degree, and is virtually disregarded by the proposal of the Royal Colleges of Physicians and Surgeons.
5. Having regard to the legitimate interests of existing medical schools, we are of opinion that the objects sought will be best attained by the plan proposed by the Associntion for Promoting a Tenching Éniversity in London.

The Petition of the University of Oxforn.
(In Opposition to the Petition of the Royal Colleges of Physicians and Surgeons.)
On February 15tla, the Convocation of the University of Oxford resolved by rinety-eight votes to thirty-four to affix. the seal of the University to a petition against a proposal now before the Qucen in Council for conferring upon a Senate of the College of Physicians and the College of Surgeons the power of granting medical degrees to persons qualified under the Medical Act. The petition objects that these titles should be conferred only on those who have undergone a preparatory education in literature and science, and whose proficiency in these subjects has been tested by examination. It points ont that Oxford medical degrees are conferred only upon Bachelors of Arts.. Professor Price explained that University College and King's College, London, had presented'similar petitions. The Regius 'Professor of Medicine, Sir IIenry Acland, urged that the two great modical Colleges might surely be trusted to take such steps as wern hest for the profession. It was a mistake to suppose that culture was not provided for nor tested.

The Petition of the University of Cambridoes.
OUR Cambridge correspandent telegraphs that the petition to the Privy Council against the scheme of the Royal Colleges passed the Senate on Thursday without a dissentient voice. No discussion takes place on such oceasions. The common seal of the University was duly aflixed.

It is stateal to be the intention of the members of the West Herts Medical Association to invite Dr. C. K. Snunders, Medical Officer of IIealth for the Combined Districts of Middlesex and Lertfordshire, to a dianer, on his retiring from that official connection, as a mark of respeet and regard, and an acknowledgment of the efticient manner in which ho has performed his duties for a period of fourteen years.

Lady Dufperin's I'und.- The third annual meeting in connection with Lady Dufferin's F'emale Medical Aid Fund was held at Calcutta on February Sth. Tho Viceroy presided., Among the speakers were the Governor of Madras, the Lieutenant-Governor of Bengal, the Maharajah of Durbunga, and the Nawab of Moorshednbad. A resolution was passed that tho Associntion should be incorporated. The report showed that the financial position was highly satisfactory, and that the Association now possesses investments giving an annual income of 30,000 rupees.

Bequests.-By the will of the late Miss J. A. Poterson, Cumbermald llouse, the following legacies have been paid by the trustees:- Tho Ginsgow Royni lnfimary and the Western Informary, $\& 1,000$ each: Associntion for tho Relief of Incurables, f200; the Maternity IIospital and a number of other charities in Glasgow not medical, £5́0 encl.

## ASSOCIATION INTELLIGENCE.

## NOTICF OF QUARTERLY MEETINGS FOR 1888.

Meetings of the Council will be held on April 18th, July 18th, and October 17 th, 1888 . Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting," namely. Jiarch 28th, June 27th, September 26th, and December 28th, 1888.

## ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council. or by any recognised Branch Council.
Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member ean be elected by a Branch Council unless his name has béen inserted in the circular summoning the mecting at which he seeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

The Report upon the Connection of Disease witir Habits of lntemperance, which was presented to the Section of Medicine in the Annual Meeting of 1887, and a further portion of the Report upon Old Age have been completed, and will shortly be published in the Journal.
Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribetion of certain Diseases, arc in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etiology of Phthisis.
A fresh inquiry into the Originand Mode of Propagation of Epidemics of Diphtheria has just been issued.

Memoranda upon these subjects, and forms for reeording obsertations, may be had on applieation to the Seeretary of the Collective Investigation Committee, 429, Strand, W.C.

## brancil meetings to be held.

Staffornshire Braver.-The second general meeting of the present session will be held at the Railway Hotel. Staftori, on Thursdary, Fetruary 23rd. Mr W. D. Spanton, the President, will take the chair at $3.30^{\circ}$ P. .f. - VINCEST JACKsox, General Secretary.

Glodefstershire Brasch.-The next ordinary meeting will be heid on Tuesday, Februart 21st, 1888, at $\tau .30$ P.M., at the Infrmary, Gloucester, nnder the presidency of Dr. Currie. Agenda: :1, A petition will be laid on the table for signature by members in support of the Architects and Engineers Bill. a Bill to be presented in Parliament next session liy Coloncl Duncan, R.A. C.B. M.P. 2. A discussion will be epened hy Dr Currie On the Present Position of Homecepathy in Relation to Regular Medicine. 3. Cases of interest in the In©́rmary, -Gr, ARTEUB CARDEw, Honorary Seeretary.

Yorrimire Braxcr. - A meeting of this Branch will he held at the Clayton Haspital. Wakefeld, on Wednesday. February 22nd, at 3 p.M. The following papers will be read: Mr. Snell: On Prevention of Blindness by the Ophthalruia of the New-born. Mr. T. R. Jessop: On Transfusion as a means of arerting death from Hmmorrhage. Dr. Adoll Bronner: Ozena; its Nature and Treatment. Cases: Mr. A. W. Nayo Robson: Thiree surecessful Cases of Transtusion Mr. J. Cordon Black: The Treatrent of Chronic Uleers of the Leg. Mr. H. Hendelack Hewetson: (1) Suggestions as to the Relationship existing between Chronic Constipation, Chlorosis, and uccasional Optic Neuritis: (2) Salyeilic Ohiua Grass, with remarks.-Artiur Jaekson, Secretary, Shefficld.

Border Counties Braxci.-The next meeting will be lield at the County Hotel. Carlisle, on Friday, E'ebruary 21th. Dr. MeLeod will take the chair at 6 P.as. Dr. Byrom Bramwell, of Extinburgh, will read a paper and introduce a disensslon on the Process of Compensation and Its Bearing on Prognosis and Treatment. Dr. Muir, Selkirk, will read notes of a case of Hypertrophr of the Mamme. Or. Altham, l'enritl, will read (1) A Case of IErmorrhage from the Rectum ireated by removing the redundant Skin around the anme and ( 2 ) Case of Sirangulated llemia with Cysts in the Omentum extracted. Dr. lamition. Hawiek, will sead a paper on Pheumoparesis. Mr. T. P. Devtin. Carlisle, will read Notes. of a Case of Intraeranial Inemorrlage in a Voung Subject. Supper in the hotel at 9 P.M.-H. A. LeDIARD, Honorary Secretary. 41, Lowther Street, Carlisle.

Correction.-In the report, of the meeting of the North London District of the Detropolitan Counties Branch it was erropeously stated that Dr. Stretch Dowse demonstrate. the practice of massage on a male patient with the assistance of a massousp. The word ought to have been masseur, and the correction is important, as it is inadrisable to employ a female for performing massage on a male.

## METROPOLITAN COUNTIES BRANCII: SOUTH LONDON

 DISTRICT.A Meetrig of this' District was held in the Greenwich Hospital School (by permission of Captain Collins, R.N., the Superintendent) on February 4 th. The chair was taken by Dr. FredeRick TAylor, Vice-I'resident of the District. The minutes of the previous meeting were read and confirmed.

Cases Erkibited.-Dr. Treveryan, House-Physician to the Seamen's Iospital, showed for Dr. Curnow the following cases:1. Early Locomotor Ataxy, with Atrophy of Optic Dises; 2. Paralysis of the Muscles of the Front of the Right Leg of Doubtful Origin ; 3. Left Hemiplegia from Syphilitie Thrombosis; 4. Plathisis with a Large Dry Cavity at the Right Apex; 5. Tubercular L]ceration of Epiglottis; 6. Syphilitic Disease of the Larynz.-Dr. Frederich Taylof and Dr. Piti discussed the cases, and Dr. Trevelyan replied.

Tice-President's Address.-Dr. Friderick Taylor, as the first Vice-President of the District, then. read an introductory address. He thanked the members of the District for the honour they had done him, and revierred the history of the District from the first mecting in 1878 under the presidency of Mr. John Wood, specially mentioning the loss sustained of late sears by the death of Dr. Carrington. Hle referred to an idea which had become curreat in one part of the District, that in having a meeting at Greenwich the Association was trying to compete with the local West Kent Medico-Chirurgical Society, and pointed out that meetings could only occasionally be held in Greenwich in consequence of the size of the South London District, and also that the present President of the local Society was a member of the Committee of the District, which facts were a sufficient guarantce against any clashing of meetings or subjects of discussion. He further drew attention to the fact that only about half of those members of the Association who reside in the South London District Were members of the Branch, and hoped to see a large increase in numbers. He reviewed the progress of medicine and surgery during the past trenty or thirty years, and ended by congratulating the District on having again started on an active career after a period of quiescence.-Mr. Sangster moved, and Mr. Johnson Smith seconded, a rote of thanks (rhich was carried unanimously) to Dr. Taylor for his valuable address.

Radical Cure of Hernia.-Mr. Johnson Smith then read a paper on the radical cure of hernia, after which there was a short discussion. A rote of thanks was passed.

Fote of Thanks.-The proceedings concluded with a vote of thanks, mored by Dr. Fegan and seconded by Dr. Pitt, to Captain Collins for the use of the room.

## NEW SOUTH WALES BRANCH.

THE sixty-ninth general meeting of the Ner Sonth Wales Branch of the British Medical Association was held in the Royal Society's Room Sydney, on Friday, Dccember 2nd-present: the Hon. Dr. Creed, M.L.C. (President) in the chair; Drs. Cluhbe, Sydney-Jones, McCormick, Brady, Chambers, Hankins, Scot-Skirring, Fiaschi, Contie, McCulloch, Worrall, and C'rago rere present.

The minntes of the prerious meeting were read and confirmed.
Fracture of the Aectabulum.-Dr. Citebre read some notes on a case of fractire of the acetabulum.-A discussion ensued in which Drs. Synney-Iones, Brady and McCormice took part.-Dr. Clobbr replied.

By-Laus.-The by-laws were then considered and discussed, and after some slight alterations were made they were passed.

Digestive Ferments.-Dr. McCormick. of Macquarie Strect, read a paper on digestive ferments. Some very interesting demonstrations were made, illustrating the action of certain ferments.

Royal Visit to Viminor Hospital.-The Queen, who was accompanied by Princess Beatrice and Princess Victoria of Schleswig-Holstein, paid an informal visit to the Royal National Ilospital for Consumption and Discases of the Chest on February 11th. This is the first time Her Majesty, who is the Fatroness of the institution, has risited the hospital, though she has on many occasions shown her sympathy with it and contributed liherally to its funds. The whole of the 120 patiente, with the exception of a fer who were too ill to leave their rooms, assembled in the new dining-hall to greet the arrival of the Royal visitors. A bouquet of flowers was presented by Master Coghill to IIer Majesty, who then risited several of the blocks, and expressed the deep interest she felt in all she had seen.

## SPECIAL CORRESPONDENCE.

## VIENNA. <br> [FROM OUH OWN CORRESPONDENT.]

Copaila Liruption-Antipyrin in Nocturnal Emissions.
Tur apperance of an eruption after the use of batsamum copaive is not a rare occurrence, but the anatomical changes in these cases have not hitherto been investignted. D'rofessor Neumann recently excised a purt of the skin in such a case, and examined it microscopicully. The papillary layer was normal, and the affection had its suat chiefly aromm the blood-vessels, the scbaceous glands, hair follicles, and studoriprous glands, just in tho same way as in uneasles.

In a recent number of the Wiener Medizinische Blätter, Dr. Thör, of luacharest, gives some particulars as to the effect of antipyrin in cases of nocturnal emissions. Lupnlin and camphor had been justly abandoned in such cases. Curschmann ("Funetionelle Störungen der mannlichen Genitalien," in Ziemssen's IIandbook, $18,8,1,518)$ states that the sedative effect of lupulin on the genital organs, in spite of all the recommendations, was not proverd. As to camphor, it has. according to his opinion. no better offcet. Wiurbringer (Krankheiten der Marn- und Geschlechtsorgane, 1884, p. 347) is of the same opinion. Yeissl (Syphilis, 188\%. p. 112) recommends it in the first place, as do 1'urgaz (Tecept-Taschenbuch fïr venerische Krankheiten, 1883, p. 21), and other writers. The effect of nux vomica. arsenic, and atropine is also often uncertain. Among all the remedies hitherto employed, bromide of potassinm or bromide of sodium was the most useful. Diday (La Pratique des Malarlies rénériennes, 1886, 3 ). 538) recommends it to the exclusion of every other drug. Bromide of potassium, from two to tive grammes in a glass of water, taken just before going to bed, will, according to his experience. exert a prompt effect and check the pollutions. The prolonged use of the preparations of bromide, however, as is well known, produced an acne-like eruption, and the use of the remedy had, for this reason, often to be discontinued. Dr. Thör states that he has found antipyrin an excellent substitute for the bromides. He gires it in doses of from hnlf a gramme to one gramme, to be taken by the patient a slort time before going to bed. In seven cases it had proved very successful, and ehceked the pollutions. No disagreeable after-effects were observed. In " neuroasthenia sexualis" in the sense of Beard (Die saxuelle Neuroasthenie, 1885) antipyrin could also be used with good results; but the dose had in these cases to be sometimes increased from one gramme to two grammes a day.

## PARIS.

[FROM oun own connespondent.]
Is Peluda C'ontagious?-Action of Nickel.-Clinucal Photography of the Eye.-Cheap Artificial Arm.
At a recent mecting of the deadémie de Médecine the question whether pelada is or is not contagions was hotly discussed. In 1875 an apidemic of this affectiou appeared at the Colloge de Vannes. Dill. Ifardy and llillairet, who were consulted by the Minister of Publie Instraction, made the following recommeudations. Newly arriwed pupils were to have their heads closely hearls of thu then toncamined by the school physician. The molis of the pupils be cxamined every fifteen days. 5.1 m polniatis a child showe iceymptoms of hernes tonsurans or the ofla wons to liewed a and not allowed to return until the affection to he sent hosappeared, A law rendering these measures compuntirely chools and colleges was sulstquently arlopuser!. Mulsory in all hat this law should be withdrawn. M. Hard. M. Mlivier urrewing examples of the conlagions nature of Ha cited ser urgerant this affection is not invarinhly cone of pelala. seberal st- certain conditions. $M$. olliviar contagions, but only admen arly so contacrious as was "quanly statelt that pollarln whe milla. Mardy had eited enses in which polad. He remarked not ish, but hal ignored the
 Ollivier conaidances in prowed contagious orig orin, and that in most coness thers that phlacha it had not ped are nseless. The



Larret, and Bergeron suggested that, before resuming the diseussion, M1. Ollivier should endeavour to proenre some. proof of his assertions, which at present rested on no sure foundation.
M. Riche is engaged in studying the action of nickel. From his experiments be concludes that nickel is absorbed without danger by guinea-pigs and dogs. He believes that vessels made of this metal may be used without risk for the purpose of holding food.
M. Panel has invented a photographic machine by which the fundus of the eye may be photographed in a fer seconds. This machine will enable a physiciun having a certain knowledge of photography to produce the image of a lesion situated in the eye.
M. Griponilleau has invented an artiticial arm, costing only forty franes, which will allow the wearer to dig, load, wheel a barrow, mow, ete. This arm, which is applied to the shoulder where the limb has been amputated, is made of wood, zine, and sheet-iron.

## SWITZERLAND.

## [Frose oft own cornespondrnt.]

An Administrative Campaign against Enitish Practitioners in the Grisons: Protest of the Ingadine British Colony: Protest of the Swiss Motel-keepers' Society: Opinion of the Swiss Daily Press.-The Grisons Mealth Resorts and National Wealth.
THE Chur Sanitätsrath has recently prohibited, under a heavy penalty, any further medical practice to several English physicians who reside in the Engadine and other health resorts in the Grisons, and are practising exclusively amongst the Englishspeaking community. The prohibition may be regarded as a somewhat late retaliation for the fact that a Swiss medical man is not permitted to practise in England nutil he has obtained a British qualification. To judge, howeyer, from a correspondence in the Berner Zeitung (February 7th, 1888), the step 80 abruptly taken by the Grisons sanitary authorities seems to be directed impartially against all foreign physicians who may choose to settle at any of the local health resorts for the purpose of practising there without previously obtaining a Swiss diploma. As a matter of principle, every lover of fair play will readily admit that the Grisons Sanitätsrath was under present circumstanees fully justified in taking this step with the view of protecting the interests of the native practutioners, who have long complained most bitterly of the gross injustice done to them in this regard (vide the Journal, June 12th, 1886, p. 1139). It is not quite so elear, however, that the mensure, though doubtless legal, is expedient. As a matter of fact, it bas, as might have been expected, cansed a revolt amongst the English community.
According to the Fiund (February 6th, 1888), as many as 150 British'subjects, residing in the Engadine, have withoutdelay sent in a petition to the British Ambassador at Berne, in which they protest against the Chur decree, and request him to take such steps as may be necessary to allow them to retain the indispensable services of their old medical attendants. The Bund (a semi-official and most ably conducted organ) observes, in referring to the episode, that "though the Sanitatsrath is fully in the right, its deeision all the same must have an injurious effect on the SWiss health resorts." Similarly, the influentinl Derner Zeitung (February 7th, 1888), the organ of the Berne ladical party, which is now in the ascendant, ealls the Chur ediet "unuebcrlegte" " "ineonsiderate" or "rash"). It states, also, that the Schweizerischer IToteliersverein, whieh has just held an extraorlinary meeting to diseuss the situation, has unanimously passed a strong resolution, disapproving of the action of the Sanititsrath, and at the same time demanding that "all foreign practitioners, whether they possess the Swiss diploma or not, should be allowed to practise freely at health resorts, especially amongst the foreign colonies."
To show how foreign risitors enrich eertain sections of the Grisons population, the Bund adduees the following remarkable statistics. The tuxable eapital (Stemercapital) at l) avos in the iwenty years 186 to 1836 rose from $: 3,250,000$ franes to $4,879,000$, that at St. Morit\% from 142,000 to $5,250,000$, and that at l'untresina from $1,715,000$ to 3.756.000. The Schueeizerische Aforgen-Zeitumg (January 3lst, 1838 ) adds that in 1866 the cagitnl suhject to state taxation a? Chur amounted only to $19,000,000$ francs. while in 1886 it row to $29,000,000$. According to the Frecer Iihnetior (Innuary 2nth 18२३), in Grisons there exist now as many as twenty communes (Gemeinden) whose tuxalle capitals equal and exceed $2,000,000$ franes. Since so considerable and rapid un incrense of wealth can be ascribed only to a growing "1.otel industry" "in the canton, ane
the Grisons population, naturally enough, looks to foreigners as the most welcome guests, one may renture to prophesy that the Chur Sanitätsrath will soon be compelled to gield to popular pressure, and to cancel its edict as suddenly as it was promulgated.

## NEWCASTLE - UPON - TYNE.

[FROM oCt own correspondent.]
The Neucastle Infirmary.-The Inquiry at the Workhouse.-The Durham Guardians and their Medical Officer.
THE annual meeting of the governors of the infirmary was held last week, aud a very favourable report was presented. This was the first report since the hospital has heen made free. During the year many changes have been adopted; the system of admitting patients by letter has bcen abolished, the Committee and Medical Board have been amalgamated, the out-patient and casual departments lave been remodelled, the special out-patient departments of the skin, throat and ear, and diseases of women have been closed, the only special departments kept on being those of the eye and teeth. A fee of $£ 22$ s. for one session, or a composition fee of $£ 66$ s., is now charged from all students for the privilege of attending the hospital. The working-men subscriptions hare increased very considerably during the past year, though a perfect state of equilibrium has not jet been arrived at between income and expenditure. The number of patients treated during the jear was 3,020 , as against 3,175 during the previous year; the average number of patients in the hospital per diem was 241.79 , last year it was 257.5 ; the average stay of each patient in the hospital was 29.2 days; the average cost per patient was £3 12s. 7d. ; the death-rate for the year was 6.82. Of general and constitutioual diseases there were 19 cases of rheumatic fever, 14 of diabetes mellitus, 3 of purpura hæmorrhagia, 2 of pernicious anæmia, 3 of beri-beri, these last occurring in Chinese sailors staying in the Tyne, arraiting the completion of war ships for the Chinese navy; of diseases of the circulatory system there were 10 cases of thoracic and 2 of abdominal aneurysm. Twenty-three cases of poisoning were treated during the year, 2 being fatal, 1 from phosphorus and 1 from coal gas. There were 833 operations during the year, with 16 deaths: ovariotomy was performed 8 times without a fatal case; 5 cases of abdominal section are recorded, with 3 deaths, 1 being a uterine fibroid, the 2 others being cases of intestinal obstruction; there was 1 case of successful gastrostomy, aud a successful case of laparotomy. Twelve cases of stone were treated, 5 by suprapubic lithotomy and 7 by crushing, without fatal result. There were 17 primary amputations with 2 deaths, and 43 amputations for disease without a death. There were 6 excisions of the hip, 7 of the knee, 1 of the ankle, 2 of the shoulder, and 3 of the elbow, all successful. Nephrorraphy was successfully performed by Mr. Dodd, the senior assistant surgeon.

Some weeks ago an inquiry was held by Mr. Knollys, the Local Government Board Inspector, into existing irregularities at the workhouse. The decision of the Board has just been published. The following is a copy of portions of the letter addressed to the medical officer, Mr. N. Hardcastle." The Board bave earefully considered the inspector's report, and have arrired at the conclusion that it is proved you have been guilty of very grave neglect of duty as medical officer of the workhouse." The letter then specifies the distinct charges of carelessness in examination of the patients in a recent outbreak of scarlet fever, devotion of insufficient time to the cases during the progress of their ailments, incorrect entering in the medical relief book, insufficient precautions in disinfeeting own person after visiting the fever cases. The letter finislies by saying that "the Board are unable to consider they would be justified in allowing you to retain the oflice of medical adviser, and they regret they must call upon fou forthwith to place your resignation in the hands of the guardians." Dr. Mardcastle has held the appointment of medical officer for many years. Latterly things have not gone smoothly between him aud the master of the institution. The unpleasantuess has at length culminated in a Covernment inquiry and the dismissal of both the medical officer and the master. 1 understand that Dr. Hardeastle has appealed against the decision of the loard. Should the decision be upheld, the Guardians will most probably elect a resident medical officer whose whole time shall be deroted to the duties of the office.

At the last meeting of the Durlam Borrd of Ciurdians, Dr. E. Jepson, the medical oflicer to the Durham Workl ouse applita for
permission to make post-mortem examination of all paupers dying in the institution, providing the relatives make no objection : also to introduce a pupil to attend him during his visits to the hospital ; also for leave to perform any operation which he considered necessary on any pauper, and to obtain the necessary medical assistance, learing the question of remuneration for the after-consideration of the Board. One would have thought there was nothing very alarming in Dr. Jepson's request, but the members of the Board were strong in their language and in their refusal. One gentleman said if the request was acceded to, it would make them worse than the days of Burke and Mare. The request was most unjustifiable and repugnant to the right feeling of every Englishman. Finally, as it appeared that Dr. Jepson had performed a post-mortem last July without asking the permission of the Guardians, it was decided to report him to the Local Government Board.

## MANCHESTER.

## [FROM OUR OWN CORBESPONDENT.]

Small-par Epidemic.-Owens College and the Royal 1nfirmary.Tictoria U'niversity.-Secretary to Baard of Medicine.
Is the neighbourhood of Manchester several cases of small-pox hare occurred; several new cases hare occurred at Stalybridge and at Ashton-under-Lyne, while at Accrington one death from this disease is recorded. At Stockport also there are several cases.

We understand that the authorities of Owens College are anxious to establish more intimate relations betreen the Royal Infirmary of Manchester and the Owens College Medical School. To this end we believe a conference of certain authorities of both institutions has beeu held. There cannot be any doubt that the more intimate the connection between the theoretical teaching on the one hand and its practical application as exemplified in the wards of a hospital, the better it will be for everyone concerned. There will soon be one or more vacancies in the medical staff of the hospital. owing to the retirement of certain members of the staff, who have almost reached the age laid down by Infirmary rules in such cases.
Sunday last was hospital day in Manchester, Then, as usual, collections on behalf of the hospitals were made in churches and elsewhere. The sum collected has not been announced. Saturday next will be Hospital Saturday.

The written examinations for the intermediate and final examinations for M.B. in Victoria Unirersity begin simultaneously in Manehester and Liverpool on Fridar, March 16th.

Owing to his removal to London, Dr. Culling worth has resigned the office of Secretary to the Departmental Board of Medicine and Surgery in Victoria University. Professor Stirling has been elected to the office. Dr. Cullingworth officiated as Secretary for about four years.

## CORRESPONDENCE.

## REFORM AT THE ROIAL COLLEGE OF SITGEOSS.

Sir,--The first thought that must strike any reader of the manifesto of the President of the Royal College of Surgeons, which is likely for many reasons to become a historical document, can be none other than one of deep regret. Fot only is it an illustration of the time-worn saw parturiunt montes. but it does no credit to an ancient corporation such as this that, eren in the defence of an untenable position, such a lamentable gathering of ill-assorted arguments should be marshalled. The battalion might well have been collected from the anthropophagi: for the reasoning employed is of such a nature that one proposition devours its neighbour. We are unfcignedly sorry to reflect how little such a reply as this will add to the reputation of the College, for it does not need a man of the legal acumen of Lord Cranbrook to spy out at once tho inconsistency of this remarkable fulmination. The "reply" is nominally directed to the statement of the Association of Fellows; but as it deals as much mith the claims of the Mlembers as with those of the former body, we beg your indulgence for a few remarks thereon. We should trespass too much upon your space did we deal with each clause seriatim, and therefore must single out one or two of the most glaring defects.

The very first statement contains in misstatement, for it numbers the mombers at 18,000, though Loth $11 r$. Holmes and Dr. Dinford

Thomas informed the Council at the last generul meeting of the results of our scrutiny of the "List of 11 embers." Under 12,000 was the number we arrived at after most careful search through tho last Ifedical Register. Surely the Council mightilave instructeal the Collega Secretary to Verify or disprove our assertion bwore making public so incorrect a computation 1: No, there was a purpose to surve in allowing the higher ligures tostand. Thepetition of the Members had been signed Iy $4,64.5$ Members, and that, of conrse, wha a much smaller proportion of 18,000 than of 12,000 . The Council states that there was " no evidence before the Council that the majority of even tho Benbers themselves are in favour of the clams set up on their behalf." Has the Council ever sourht for such eridenee? No; yet it las been abundantly supplicd to it, not only when it was informed on November 3rd, 1887 , of the nmmber of signatures, and that in many large towns from two-thirds to three-quarters of the Hemhers living there had actually signed: not only in the ridiculous number of dissentient Members (lourteen) who had recorded their disapprobation of the petition, but also in the enormous majorities in farour of the resolutions passed at the College at successive gewraI meetings. Is this evidence? If not, why did not the Council poll its own Members? The Members would not hare grudged the expense involyed-considerably under $£ 100$. As to its poll of the Fellows, the disingenuity of that you have long ago exposed. Iet the Council, which treats so lightly a matter of nearly 5,000 signatures, plumes itself npon a document signed by the magnificent total of "over six hundred," and on a majority of six out of eighteen in the first, thinly attepded and badly adyertised, of the series of general meetings. It is cureful also to include two propositions in one sentence, and to make its lame answer to one only do duty for a judgment on both. This is a very poor feint. It lias been maintained ere this, on lehalf of the Council, that it would be unfair to deprive the Fellows of the electoral ralue for the extra money defrayed by them upan an extended course of professional study; but now the Council tries to make a point out of the present possibilities of abtaining the Fellowship. "without any further special curriculum of professional study inrolving additional expensc." One clause objects to Members of twenty years' standing being eligible to the Council on the ground that it would substitute mere seniority for professional distinction. There is na question of substitution, for the proportion of seats asked for by the Members is small, and they may" be trusted to take care that they elect men of "professional distinction," for such are not nnknown among the ranks of the general practitioners. The time limit may also be loaked upon as a self-denyiug ordinance on the part of the Members.

We are mot at present so directly interested as the Fellows are in the question of the election of the Presideat: but may point. out that Clauses $c, d, c$, and $f$ are mutually antagonistic in their lwarings, and thai Clause $f$, where the Council speaks of the danger of placing the election of the President in the hands of " $a$ comparatively small number," is an instance of the Council being judged out of its own mouth, not only on this, but on the larger question of the Members' claims. We are informed, however, on the highest authority, that the Privy Council does not look so slightingly as does the Collcge l'resident upon the petition presented hy 4,665 Nembers of the loyal College of Surgeans, and that that bady looksupon it as a most important and weighty document, over the discussion of which much time must yet be spent. We have no misgivings as to the result. -We are, etc.,

Warwick C. Stfele, I Mon. Sics. Assoc.
WM. Asiton Ellis, \} M.R.C.S.

## Febmary 8th, 1888.

RERISTRATION OF TRAINED NURSES.
Sra,-Being present at the remarkable grthering of medical men and nurses at St. Clenrge's 1lall, I desire to ask, through the medium of your columns, a question to which, although I listened attentively to all the arlmirable eperclies, I could lind no answer.

The lhritish Nurses Association (President, Iler Royal IIighuess Princess (hristian) is founded to supply the profession and the public with a really good article in the slinpe of thoroughly trained nurass, who are to be registered, and form members of a new and rising profesaion. My question is, "What is this trained nurse of the future to he like, and what are to be her qualifications and training ""

The medieal profession is fairly well marked out into the threa grent divisions of medicine, surgers, and obstetrics, besides' the army of general practitioners. There are the two separate
plemas of nuedicine and surgery with their Colleges, olistetrics not yet standing alone.

In nursing, as far as 1 understand it, these three classes, the monthly, the medical, and the surgical nurse are still more elearly differentinted. Nost women who enter the profession now display a marked aptitude for one or other, and the training for each must be distinctly.spécialised.

Are the traiucd murses of the future to he a vast body of general practitioners trained in medicine, surgery, and obstetrics, or are we to have the threc branches specialised, with diplomas and registration for each? I venture to think the latter arraugement vastly preferable, A highly trained surgical nurse is not alwajs a good hand at washing a baby, or a medical nurse at dressing a wound; and considering the distinctions are as well marked as in our profession, 1 was surprised, when so much allusion was made to the difference between a surgeon and physician, that this point was not touched on at all.

In conclusion, I venture to think that both the public and the profession will better value and hetter understand the menning of atrained and registered nurse if it lostated what slie is trained for, and if ber studies be specinlly shaped for that end. -1 am etc.,

141, Westhourne Terrace, IIyle. Park, W.

## TIEE METROPOLITAN PROVIDFNT DISPENSARIES AND TIIEIR OIPONENTS.

SIR,-It is to be hoper that the committee lately formed, and - over which Dr. Paramore presided, are really in earnest in helping on the above movement, lut are equally determined to make the scheme as perfect as possible. They give several reasons for objection, and only one of these has any solidity in it. They object to allowing anyone to enter when ill, or in other words to paying a "sick entrance fee" To call such a scheme an "insurance against sickness, during liealth," is ahsurd, and altogether opposed to any system of solid insurance. In fact, if any other society started an insurance with such a clause, it would crack up in a few months. Their income frem premiums wonld not supply the demands for benefits. If the " sick entrance fee" were a keystone of the provident scheme, one could wish it to be retained; bint it is not, and more certainly, it never can be, therefore it should be dropped.

As to the objection that it is " an advertising concern," this will not hold water. Our annual hospital reports, our insuranee company's prospectuses, our health-officers appointments, our having our names printed in the directories, are all advertisements, more or less, just as the provident prospectus is.

The Committee object also, that it is not needed, for the hospitals and club doctors, and parish authorities are nmply sufflcient. This is not so. In the Sturge Prize Essay, I lately showed that in twelve months, and at 130 hospitals, 50,935 in-patients, and I,I79,661 out-patients receired treatment; now it is wel known that the majority of these oul-patients can pay the fees of a provident system. Indeed, the fear is that a good many would be disqualified from joining a provident dispensary. IIowerer, a well worked "wage limit" would look to this. At 72 of these hospitals the patients paid $£ 36,334$, while at 82 hospitals the doctors were paid $£ 15,22519 \mathrm{~s}$. Now if these people had been in a provident seleme they would have paid more, and the doctors would have received larger salaries. This statement then does arrny with their ohjection-that the scale of payments to a provident dispensary is ridiculously low.

If again one takes the club-iloctor system, it is found to be very poor as regards payment of doctors. I know of one doctor who has seven clubs. lie says it does not pay him, and to prove this he las an unqualifind assistant at 500 a year. Me calculates that, if he gets the confinmments, vaccinations, and treatment of the children of club members, this goes to repay him; hut le complains hitterly that, when he semels in his aecount for the treatment of the clath members wives, the men threnten to linve him kicked ont (sic) if he insists on their paying. It is well known that a club doctor's life is a loroken-hearted life. full of insults and worries. Then look at the fearful nbuses of the club-ddetor syrtem. Anyone can joint they sucer at the idea of a "wage linnt. making fo00 per annum, can have a doctor and medicine for fous shillings a year! The Foresters and Oddfellows are the same.
Now, granting some go to the hospital who should not, and that the same linlds grond of elubs, is there not room for a prorident scheme in London? It is sad to see that the clicef oppo-
nents of the system are our club doctors and those at the hospitals. It is a matter of observation that many club doctors shift their patients into the hospitals, so as to get rid of them. In this way the two classes help each other.
The Committee point out that the scale of fees is degrading. Well, for that matter, so are all our fees, even those of club doctors, hospital men, ship surgeons, and general practitioners. But we held the remedy in our own hands. For years I have asked my medical neighbours to fix the minimum fee for the district; but will they? From fourpence to tenpence (not including the supply of drugs) is the rate per visit of the provident dispensary system to their doctors. This might be improved upon, and I hold that the working expenses of a provident dispensary should be defrayed by honorary subscriptions. All provident societies have such. The Foresters have 13,971 such, paying from 10s. Gd. upwards. Each club has its concert or raffe. In Germany, where there is compulsory national insurance against sickuess and accident, the employer pays one-third opposite the two-thirds paid by the workman. Capitalists sink their money in insurance companies before a single premium has been paid.
1 shall be glad to send anyone information on the provident dispensary system. Let it have a fair trial. But, to be a success, it must have hospital co-operation, without which it will be a farce and a complete failure.--l am, etc.,
Liverpool.
Robert R. Rentoul, M.D.
the nomenclature of neurasthenic conditions.
Sir,-The enelosed communication from Mr. Movell is a sort of note or postscript to his paper on Hysteria, read before the Ilunterian Society, an account of which appeared in the Jotrvar. of February 11th. There ean, 1 think, be no doubt that a revised nomenclature will be of service in counection with the theory of the subject in question.-I am, ete.,
H. Gervis.

40, Ilarley Street, Cavendish Square.
February 12th, 1888.
" Neurorinesis: Meurasthenia: Hysteria.

- Mr. President,-It seems to me that some word is needed to define the condition of the nervous system which ensues upon shock, either physical or moral, or breakdown from overstrain more closely than neurastlenia, which may mean a natural state, or hysteria, which implies a special source or cause. This con-dition-which is attended by loss of physical power, paresis, etc.; by loss of moral power, irresolution, etc.; by susceptibility to pain, lyperesthesia, and irritation in all forms; by a readiness, to take on perverted action, paroxysm or emotion, on the one hand, or to fall to pieces, as it were, as if the screws were loose or fallen out, prostration of power, on the other; by a loss of integrity of nerve power, or of some element that is essential to it-might, perlhaps, be represented by ncurokinesis, that is, nerve shock or shaking; a nerve commation.

Revision and improvement in nomenclature necessarily attend upon advance of science. No one, in the present day, would think of confounding typhus with typhoid fever, or of adopting in the one case the treatment suitable for the other. So the emotion which ensues upon shock is simply emotion; it is not hysteria; to esll it hysteria is to attribute to a natural consequence a special eause that does not appertain to it. Ohviously the treatment of emotion per se, and of hysteria, per se, ought to be essentially different.
"Ayrin, loss of porter of the will, of self-reliance, irresolution, etce, is another effeet und result of shock. This condition palpably stands in need of help to restore the will which is in abeyance, and to rouso to resolute action the power that is temporarily suspended and prostrated. If this nced of aid is ignored because it is either not recognised or not understood, it hecomes an unrelieved want, the repeated representation of which by the patient is very liable to be misinterpreted into a craving for sympathy by the doctor, who thus fails to see the true state of the case. Let the patient once see that her condition is rightly understood, and that it will meet with attention, and this reputed craving will cease; at least, this is in accordance with my experience, When once hysteria ceases to be a "disorder with which everyone is familiar, but which nobody understands," the treatment will become more rational and more successful. Hitherto it has represented neither the science nor the art of medicine. -1 am , yours truly,
" 'ebruary 10 th, 1888 .

## INTRACAPSULAR INJECTION IN THE EXTRACTION OF

 CATARACTSIr,-1 took part in this correspondence chiefly with the object of protesting, as I was hound to do, against the use, twice made by Dr. Mckeown, of statistics of my hospital of some eleven or twelve jears ago. llaving entered this protest, 1 should not trouble you further in the matter, but that it might be taken as a want of courtesy on my part were I to pass over in silence some points in Dr. MeKeown's last letter (Journal, llth February). I hope, therefore, you will permit me once more to intrude upon your space.
And, first of all, referring to an observation in Mr. Bell's letter in the same Journal, I do not know whether I am included amongst those whose attitude with regard to this procedure seems hastile or even unscientific, but, to my mind, neither of these epithets can be applied to an attitude which consists in declining to call a certain procedure good, when the results of its principal advocate do not show it to be good. I have no "hostile " feeling towards the intracapsular injection, nor would it be inconsistent with anything I have said were I to adopt the method at some future time, when it may have been placed on a surer footing than at present.
With respect to Dr. Mckeown's letter:--1. Quite apart from his invitation, it is my intention to give the results of my cataract extractions as soon as 1 possibly can. For the present il may say that I am almost, if not altogether, satisfied with those results. But, whatever they may be, I fail to see how they ean be of use to Dr. Mekeawn, for 1 eperate only on ripe, or very nearly rip e, cataracts. If, therefore, my results are better than his, this may depend upon the difference of the material operated on; indeed, Dr. Mclieown has himself reminded us that "we have no analogous statistics." If my statistics are bad, or are only middling, Dr. Mckeown will not wish to compare his with them at all, but, if comparison there can be, will prefer to place his statistics beside those of more successful operators.
2. With regard to Dr. Mckeown's suggestion that I should supply him with the details and results of cataract operations performed by other surgeons, 1 am afraid 1 must ask to be excused, for the task would involve some hours' work orer the back numbers of about a dozen journals, not to speak of hospital reports, in different languages. 1 may, however, mention that, in a publication I received to-day, there is a table giving the results obtained by 17 operators, and they are all better than Dr. Mckeown's results. The number of operations opposite the names of some of these surgeons is too small to render their percentages of results of much value; but the series recorded by five of them is sufficiently long. No. 1 operated on 101 cataracts; losses, 2.0 per cent. No. 2 operated on 381 cataracts ; losses, 2.88 per cent. So. 3 operated on 155 cataracts; losses, 1.29 per cent. No. 4 operated on 116 cataracts; losses, 1.18 per cent. No. $\overline{5}$ operated on 107 cataracts: losses, 0.94 per cent.
3. Dr. Mckeown said it is not proved that antiseptic measures have accomplished anything for cataract operations, if only, the hospital be sanitary. Tothis I can only say that 1 hold precisely the opposite opinion as do all the most successful operators in Europe and America. The proof lies in the almost complete freedom from suppurative processes which we now enjoy.
4. With respect to the modification which, in the hands of most operators, has or has not taken place in the section, 1 am not well acquainted with the present practice at Moorfields, but I sloould not be surprised to learn that what is there called Graefe's method receives that name, and properly too, because the operation is done with a Graefe's knife, and includes an iridectomy, while the sectien may be much less periphersl than von Graefe made it. On the Continent (Germany and France) I know of only one operator who still clings to the old yon Grafe's section.
5. Dr. Mckeown states that Forster's artificisl maturation is very little practised. "Very little" is a relative term, but I can assure him that it is used by very 'many ophthalmic surgeons whenever occasion requires, and that it is coming more and more into use. My experience extends to some half a dozen cases in which I thought it indicated, and it acted well.
6. The quotations from MM. Panas and de Wecker, with which Dr. Mckeown supplements mine, do not besr him out in his view. except in so far as that, in some exceptional cases of unripe cataract, the latter author evacuates cortical masses partly by washing them out and partly by pressure with the lover lid.
As I do not think that a correspondence in the Journal is a
snitable madium for the thorongh discussion of such a subject, and as there is alwus danger of the personal element crepping into a correspondence like this, I shanl nsk jou, Sir, to consider this one now closed, so far as 1 am concerned.-1 am, etc., -3s, Merrion Square, Dublin. Februmy lith.

## APPOISTMENT TO II.SYW.ARTS IIF.ATIT ASYLUM.

Sirs,-Your cortospendent " $\mathcal{3}$." has certainly not orerstated his case, for he has omitted to puint out that the now medical superintendent las. for many sears, held a post as district medical afticer of loalti, and has been presumably debarred from the ordimary practien of his profession.
lie is at lrast fory-flye years of age, his earliest qualifications lming elated three yenrs after those of his predccessor, whose pension of $£ 500$ per anmum has been strongly protested against by the Sussex Cumrlians; in face of this. the (ommittee of the Asylum havo electext a man who, in tive years, might also be pensioned at fion per anmmm. Unfortumatelry the antagonism to pensions this is likely to raise will extend 10 ot her counties.
" $\quad \therefore$ " letter sugcrests the illa that if one of the Lord Clancellors visitors were shortly to metire, it would be very natural and probable that their broténe should be nominnted to the vacaney. The gossibility of such promotion is calculated to harm the Asyhm Merlical Service hy deterring good men from entering a specialty, in which the prizes may thus be withdrawn from complition-1 nns, etc.,
11. 1th Fehmiary, 1G8Q.
**We Wave reccived a copy of the rules of the Sussex Lunatic Asyinm, Haywnri's Heath, ajprovel hy tho Home Secretary in 1s70 and 1.7.3, nud we are informed that the requirements as to the qualifications of the medical superintendent thercin contained are those whicll were adrertisch is applicable to candidates for the vacancy recently filler up. The opposite was inaplied in the letter nf our cortespondent "G." pmhlished last week, and the correction was receired too late for insertion then.

## NSIURY TO SIGHT BY SHUTTLFES.

Sin,-In the Jotrsit of February llth you quoted from the annual report of the Proston Fye Infirmary (Ir. Winkley Langdon) rogretting that sluttle accilents cannot be prerented. In a memoir which I lial the linnour to present to the Society for the Prevention of Blindness (l'aris), 1GGf, this sulyect wats filly and *Whantively discusser, statistics given from the Janchester Eye llospital showing tho alarming mature of the accident, and accompmoving this was a lrawing to scala by a meclanical enginecer of frent shill, showing a weaver's loom with the patent shuttle glard of "Wirth" attacleed; the patent is a German one, but 1 km aseured armirably fulfils its intention. Shortly it consists of tliree rods in a hinered fall, which is attached to the lemm of the reml; the ghard rocio nre sufliciontly near to jrevent the sluttle Hying thrungla and when we know that a full shuttle weighs norly one pounch, is tapered at rither end, shod with iron, and throwirl 8 feet from sillo to sirle 190 times a minute, some irler can In formed of the formidable nature of this engine of destruction. Happily, improvel machinery has muclu reduced this accident. so aloo has the Employers' Liahility det. lut no knowledge nor skill fan prevent un nechsional knot in the yarn, whels deflects the Imine of the shmtle nud forces it to leave the simple groove in which it plays.

There can lee no rombt of the admiralike service Mr. Langelon chou by calling attention to thear proventablu necibents, but the operatisus are often to blame, for they refuse to ust safeguards which slightly hinder their work.-1 am, etc..
2), St. John Street, Manchester.
I. II. Мโ゙1.5. M.1).

VELTRAL NEPIRECTOMI FOR HYDRONEPMROSIS.
Sinb,-In riply to the letter of Mr. Clement lucas in the Jownal. of felirmary 11 th, 1 desire to slate that 1 cutirely disugre? with him that the treatment adopted by me was what lue considers as heroic, or other than the casc demanded, and for the following reasons:
In the first place, the correct treatment of hydronephirosis is at the present time an open question, and is, in my opinion, ever likely to remainso, each casu ruquiring to batreat donitsownmerils.

Again: there is no nalogy betwixt hydrocele and hydroneghrosis, cither in their pathology or treatment. Aspiration in a case of distenderl bidney polvis is a much wore risky proceeding than in that of hydrocelc. The fact of the cyst so often refiling
was sulficient evidence that simple tapping would have beon useless as a permanent cure, which was what the phtient desired. Incision and druinage l look upon as a very unsurgical procceding, und quite unsuited to such a case.

As regnrds removal through the loin. I question if in any ense, more especinlly in a yery stout subject, there is any less danger in this operation than in the other; but, in my cuse, I am contldent from' the extensive ndhesions, the operation would never have been eompleted, eren hy one who had had experience in such cuses.- -1 am, etc.,
11. A. Jlunter, Al.1R.C.S., etc.

## Clifton House, Battersea, S.W.

## PATHOLOGY IN DEBBLN.

Sir, - While in the main'I agree with much you have written by-ray of commentary on Dr. Nfapother's remarks regnrding the teaching of pathologs in Duhlin, there are one or tro points on which I should like to express my dissent. It is quite incorrect to say that teaching in patholngy is "totally and confessedly nonexistent." It could hardly be so in the city which gave an impulse to the tenching of phathology everywhere by the foundation of the old Pathological Society. In the hospitals it is taught, not systematically, I admit. but with all the force and advantnge which come from an intimate knowidge of the clinical history of the cases, Several of the hospitals have small pathologienil museums. The Richmond has one of cousiderable pxtent and wide fame, and with the specimens there the teaching in tho wards is made clearer and more forcible. In the Trinity Colleg' School, I'rofessor Purser gives a full course on pathological histology, and no more able teacher is to be found.
The fault lies not in the difliculty of haring the suhjects well tanght, but in the omission of the licensing bodies to have attendance on a course of lectures and demonstritions made compulsery. and amember of the Senate of the Royal lniversity, 1 have moved Followried the introduction of such a course into the curriculum. Following up that success, I brought the matter formally hefore the Dubin Branch of the British Medical Association in 1887, and
a motion was agin asstematic teaching carriel this year enforcing the importance of Ireland to follow the cxanple of the loyal Liniversity. If they will only require attendance on a three iuonths' coursc, there will be no difficulty about the feachers.
But I wish to say. nevertheless, that we are not such an iguorant class as your leader implies, With many diandvantages to struggle against, we do know something about pathology :
there are some branches which have been worten as futly here there are some branches which have been worked as futly here as anfwhere else in the world. We do not intend, howerer, to rest satished; fo use your orn words, we mill nof "be contonted mith anything lower than the first position." I am, etc.,
i4, Harcourt Strcet, Dublin.
if. Thowsos.
CIRRIIOSIS OF TIIE LIVER.
Sin,-In connection with Dr. Drummond's case of cirrhosis and Dr. Wilk's interesting remarks threon, I send you the following alhstract of a case that was under the care of Dr. Churton in the Leeds infirmary.

A man, abont 5h, was admitted with ascites. Tre had grent enlargement of the veins about the umbilicus, and hevatic cirrhosis was diagnosed. . He was tapped once and steadily improred, the abdomen remaining small. I then renturel to offer to the clinical class as an explanation of the non-reaccumulation of the fluid the establishment of collhteral venous circulation. A vear after-
wards he was readuritted with a tion of the skin reduitted with a very extensive purpurie condition of the skim of the legs and trunk, and slight reaccumulation
of ascitic fuid. He slowly snuk into a somicomatose condition, heo eame faintly jaundiced. and died gralually. Post morten we foumd circhosis of the Jiver well marked, aml retroperitoneal extravasatinn of blood. In the frea maryin of the falciform hignment a large rein passcd from the left division of the portal trunk to the superficial veins around the umpilicus. This vessel was thich walled, and as large as a goose quill.
1 can call to minel one care of ascites, under the care of lro. Clifford, Allbut, who, diuprosing cirrhosis, directel me to tap repeatedly, the case not having been in any way affected by lengethened use of diuretics. This was done, and the fluid iltimataly did not reacomulate. In this case there was not much circulation may liave been established thorough the ductus renosus or other channels.-1 am, etc.
Leeds.

T, Wandiob' Gmffith.

## NAVAL AND MILITARY MEDICAL SERVICES．

## CHANGES OF STATION．

The following changes of station among the officers of the Medical Staff of the Army havo been officially notified as having taken place during the past month ：－

| Surgeon |  | From |  | To |
| :---: | :---: | :---: | :---: | :---: |
|  | W．A．Mackinnon．C．B． | （0n ．．． | ．$\cdot$ | Gibraltar， |
|  | \％M．B．，K．C．B． | Gibraltar |  | Madras． |
|  | \＃．W．M．Webb．．． | York |  | Aldershot． |
| Deputy Brigade－ | Surgo－Gen．J．Ferguson | Bengal ．．． |  | York． |
|  | Surgcon J．Inkson，M．D， | Aldershot．．． |  | Madras． |
| surgeon | －Major W．J．Fuweett，M．B．．．． | Clitton |  | Bengal． |
|  | ，II．W．Joynt | Jamaica |  | Canterbury． |
| geon＇ | W．R．Henderson，M．D． | W．Africa |  | Aldershot． |
| ＂ | D．O＇Sullivan ．．．．．． | Flectwood | ．．． | York． |
| ， | G．Coutts，M．B． | Bombay |  | Hulnse． |
|  | J．Mattersby，M． 33. | Boyle |  | Dublin． |
| ＂ | E．J．F．Risk． | Oxforl－．． |  | Partsmouth． |
|  | J．W．Beatty，M．D．．．．＇， | Bengal |  | Newcastle， |
|  | L．E．Anderson | Netley |  | Jamaica． |
| ＂ | G．B．Russell，M．B． | Permoy |  | Cahir． |
|  | J．S．Green，M．B． | W．Africa ．．．＂ |  | Dublin． |
| ＂． | J．Moir，M．b．． | Madras ．$\quad$ ： |  |  |
| ＂， | J．Moir，M．B．Fowler，M．B．．．． | Devonport |  | Ceyton． |
|  | J．R．Burrows，M．D．．．． | Cork |  | Nova Scolia． |
|  | E．S．Marder．．．．．． | Gosport |  | Benyal． |
|  | A．L． $\mathrm{K}^{\text {r }}$ ．Bate．．． | Dublir |  |  |
| ＂ | E．A．Burnside | Portsmonth | ．．． | Cejlon． |
| ＂ | J．W．Coekerill | Aldershot．．． | ．．． | Dover． |
| ， | J．W．Bullen，M．D．．t．．．． | Queenstown |  | Roscres． |
| ＂ | H．E．H，smith | Portsmonth | \％． | Sts．Settlements |
| － | W．Jlallaran，M．B． | Aldershbt．．． | ．． | Madras． |
|  | IV．Crofts | Cork |  | Sierra Leone． |
| ＇， | L．E．A．Salmon | Newcastle．．． | ， | Prestor． |

Mr．Michael Roxar，B．A．，Staff Surgeon，has been appointed to the Fearless， THE MEDICAL STAFF．
Subgeon－Gexeral．T．W．Fax，M．B．，is granted retired pat．He entered the semice as Assistant－Surgeon，July 23 rd， 1852 ；became Surgeon，September $18 t h$ ， 1830：Surgeon－Major，July 3rd，1872；Brigade－Surgeon，November 2\％th．18：9！ Deputy Surgeon－General．Jume 23rd，18＊0；and．Surgeon－General，May 1sth， 1857．He was with the 14th Light Dragoons in the Pevian war of 1857，and was present at the bombardment of Mohumrah；he received the medal and clasp or the campaign．
Brig．ule－Surgeon W．B．Ramsnotham，M．B．，has also been granted retired pay； his icommissions bear date：Assistant－Surgeon，March 10th，1888；Surgeon？ Mareh 1st，1sin；Surgeon－Major，April 1st，1873；and Brigade－Surgeón，October ist，18sis．The granting a step of honorary rank on retirement has been discon－ tinueth．Brigades Surgeon Ramsbotham served in the Afglast war of 1878－80 （nedal），and iu the Eyyptian war in 1833 （medal and Egyptian bronze star），
Quartermaster G．W．M．Jomsstos has likewise retired．He entered the ser－ Hee as Lieutenaut of Orderlies，June 25th，1973：became Captain，April 30th， $18: 9$ ；and was niade Quartermaster，Medical Staff，from July 1st，1881．He was engaged iu the eampaign in the Easteru Soudan in $188^{\circ}$ ，and obtained the medal and elasp and the ligyptian bronze star．
Surgcon－Major Mercalfe Johssos，of the 4th Battalion Royal Lancaster Remiment（formerly the 1st Lancashire Milltia），has resirned his comnission， which bore date Mirch 1st， 1873 ；he is allowed to retain his rank and unitorm．
Deputy Surgeon－Geucral $1^{\prime \prime}$ ．H．SMitr，DI．D．，on rebef froos the Allahabad Division of the Bengal Army，is appointed to the administrative medical charga ot the Oude Division ad Rohilcund district，vice Deputy Surgeou－General Deputy Surgeon－Genera transferred to the Home Establishmeat．
Deputy Surgeon－General L．11．RonisRTs，onarrival from Englamlo is appnintel to the administrative medical charge of the Allababad dirision of the Bengal army，vice Deputy Surgeon－General P．B．Smith，transferred．

> Surgeon D. SEMPLF, M.D. scrring in Bengal, has been appolnted to the charge of the chril medical dutles at llum Dum．
Surgeon－Major J．F．V．Foss，M．D．，serving in the Bombay command，is appointed to the medical charge of the station－hospital at Decsa．

## TIEE INDTAN゙ MEDICAI．SIBITVCE．

The promotlon of Bryade－Sargeun W．R．RICE，M．D：Bedgal Establisiment， to be Deputy Surpen－Gencrab，already announced in this Jot＇RNaL，has re－ ceived the approval of the 中ucen．
Brigate－Surgeon．If entured the servico as Assistant－Surceon Juls 27 th， 1858 and was made Sufgeon－Maiar Jamuary 3rd． $18: 7 \%$ ．He was with the lint Goorkhas In the operations in the alalay l＇enilnsula in 1505 －it（medal with clasp），and With the sante reganent in the war in Atghanistan ln $18 i s-i s$（medul）．
Brigaile－surgeon C．Sturnohra，Madras Establistment．Yrofessor of Anatomy， Is appointed Professor of Surgery and Clnidul Surgery at the Medtal College， arce surgeon－M．ajor J．J．s．liaton，M．D．，retired．
Surgean－Major 11．Allisos．M．D．．Madras Establishment，Protessor of Hygienc，is appointed Irofessor of Amatomy at the Medical College，vice Simpargeon T．11．P＇upz．Miulras Eatablishment，is appointed Professor af Surgeon T．Ll．Pups．Miulms Na
Hygiene，vice Surgemlajajor Alison．
 placed temporarily at the disposal of the Chief Commissfoner of the Central Provinces，from the date on which lie may be rolievad of his betiug appoint mutnt as 1）eputy Assay Master，Calentla Mlut．

Surgeon W．G．P．Alrriv，Bengal Establishment，Resident Surgeon in the Fden Hofitaliat，Calcuta，is appointed，to offciape as Medical Ontcer of the Bbopal Battallon and Adta
Major A．II．C．Dane Mi．）．
 Medical Officer 3rd Native Cavalry，
Brigade－Surgeon A．H．IIrsiṅ，M．D．，Bengal Establiahment．wlth tempo－ rary rank of lepnty．Surgean－General．is appointed to the officiatlng admini－ strative rharye of the Gwalior and Sangor District，zice Dejaty surgeoa－ Geueral L．F．If utchinson．II．D． ＂The undermentioned，gentlemen hare obtamerl leave of absence for the periods specifed：－Surgeon D．R．Joss，M．W．Bombay Establiblment．Medleal Officer of the lolitical．Resideney in the Persian Gulf．for eighteen anonths： Surgeon－Major D．WILKIE，M．D．，Bengal Lisrablislameut，Statistical Oflicer to the Governuent of Indià in the Sauitary and Medical Deparmunts for one year on private affairs＇；Surgeon－Major TV．E．Jogvsos，Madras Fistabllshment， Socretary ard s＇tatistical Oficer to the Surgeon－General H．M．＇s forces，for me year on medical certificate．

THE YOLUNTEERS．
Acting－Sergeoy C．S．Yourg of the 3nd Foluateer Battalion Black Watch （formerly the 3rd Forfar），has been promoted to be Surgeon．ant Mr．M． $\mathcal{H}$ ． Anderson．A．B．，has been appointed Acting Surgeon in bisatearl．
The undermentioned gentlemen lase been appointed Acting Surseons to the corps specified：－HGGH HEALD， 16 th Lañcashire：F．H，susw，4il3 Volnaper Brigade，Ciaque Ports Division，Royal Artilleary（late the lst Cinque Ports Artillery）：F．P．F．Ransom，3rd Volunteer Batalion，Suffolk Regingut（late the list Camhridgeshire）．

## RANK OF ARMI MEDICAL OFFICERS．

A Corraspontrin writes that be wishes to give some lacts supplying yet anot her instance of the absolute necessity of giving medical offeers fionoriry －or，at all events，some delinite and compreheusive－military rank．He saýs he was detailed as a memuer of a mixed sanitary board，in a station of which he happened to be the actual sanitary medical officer．His seaiority shouhd have placed him next ta the president，a juaior major of a regiment．Sever－ theless，he was detailed in order at the bottom，below a captain of Engineers and some buddiog subalterns of the garrison．The president markedir treated him as a aobedy，never even askiag bis opinion，ete．Ife adds：＂I think I have due grounds for feeling aggrieved．＂
＊：＊Undoubtedly．This board seems to hire been a farce from a sanitary point of riew，and its intel＇igent conelusions probably on a par with the courtesy of its presideat．The medieal officer，being detailed a menner and net a mere＂attending＂sanitary expert，should have asserted his seniority －probably，Lowerer，to be met with the answer that medical officers were got now in the possession of any army rank whaterer：

## REFORM OF THE DIRECTOR－GENERAL＇S OFFICE．

A Correspundent suggests a Royal Commission to throw light into the dark subjects of promotion，retiremeat，the roster，and．geaeral administration in the Army Medical Service．Especially he adrocates that the poot of conti－ dential secretary to the Direetor－Geaeral should be in the hands of an expe－ rienced medical officer，and not of a civilian clerk．

## STATEMKNT OF RANK IS THE G．AZETTE．

Ar adminlstratlite medical officer writes that ＂on all occisions when medical officers are gazetted，their military rank should be fully stated．＂This mould include ret irements，as well as appointments and promotion．

## ESPRIT DE CORPs

SEvior Surgeos writes：Oae point in recent discussions in the public press on the efficiegey（or inefficiency）of the Army Medical Staff must have struck many of my brother officers as well as myself．I refer to the sileuce main－ tained throughout br those in other branches of the service，whn，under many． personal obligations to officers of the medical staff－obligations privately wil－ ingly admitted－or，it may be，fur good affices（to which they were br no means entitled by regalation）rendered to some near and dear one in their fauilies，apparently are not so strongly felt as to prerent silent assent to scurrilous detractions which they well know are totally unjust，Let us not forget this attitude．
since my attention was drawn to the fact，in the eridence given before Jond K．Churchill＇s Connmittce，that the public had to pary fos，（ivo yearly for drugs used in the army．I have made warious calenlations，which coubrm the opinion that the necessity for this large e cpenditure is partly due to the large consamption of drugs bremicers＇wives and fandlies；and I would suggest to ceonomists of the Labonchere type that，it the wires and childrea of officers were not hell entitled to attendance and mealicines at the public expensc，not only would a direct saving ensue in the reduction of the drug vill．but also an iudirect one in medical officers＂salaries，as the arny coald do with ！ewer surgeons．The suggestlon would also meet the views of those combatant offcers who have beeu trring to prove that civilian surgeons are always to be preferred to military．It would，moreover，be a logical eontinu－ ation of the policy by which oficers wives and chaldren abroal were recently struck of＂rations＂issuch at a nominal cost to themselves．
liovala Penlic Disprisark，Fodsbtrgha－The ammal meet－ ing of the Royal Public Jispensary was held recently．the Lord Provost of Edinburgh in the chair．The report stated that during the past year 7,697 patients had been attended by the staff of the dispensary；of these， 5.397 had personally visited the outdoor de－ partment， 1,531 cases of a more serious nature had been attended at their own homes， 630 children had been vaccinated，and 132 womeu had been attended in their confinements．There mas an increase of 123 patients on the previons year，although the insti－ tution was closed for a fortnight．Dr．G．Balfour was elected consulting physiciau for the ensuing year，

## MEDICO-LEGAL AND MEDICO-ETHICAL.

THF AJOTIECARIES' SOCHETY AND ILLEGAL PRACTICE As important ease under the Apothecaries' Act came before the judge of tho Burslem Connty Court on Monday last. Edward Mildlebrook, of Burslem and Smallthorne, was sued, at the instance of the Apothecaries' Hall, for practising as an apothecary without having obtained a certifleate under the Act. It was stated that the defendant liad for some time past carried on an extensive business in Burslem as an apothecary and surgeon without any qualifications. He had also a dispensary, called "Middlebrook's Provilent Dispensary," at Smallthorne, and described himself as - E. Middlebrook, L. M.Dublin, Surgeon Accoucheur," etc.

It was contended, on behalf of the defendant, that the Act of George III, under which action was taken, was not intended to apply to a case like the present, and that a surgeon, merely as a surgeon, was not entitled to practise under this Act of Parliament, under which men holding the qualifications of M.R.C.S., M.D., and F.R.C.S. might be prosecuted. The meaning of the Act was that a man of absolutely no qualification should not be allowed to Ho nhout holding himself out as a medical man. But Mr. Niddlebrook was a Doctor of Medicine of an American University, and had obtained a qualification from the Coombe Hospital. Dublin, which wonld entitle him to practise in midwifery and discases of children. It was contended that there was no evidence tbat Mr. Hiddlebrook land held himself out as an apothecary.

The Judge, in giving jndgment, said an apothecary had been defined by Mr. Justice Creswell as one who judged of internal discases by its symptoms, and who set himself to cure that disease by medicinc. It was proved to lis (the Judge's) entire satisfaction that the defendant had practised as an apothccary without a certificate, A verdict was given for a penalty of £20 and costs.

## CORONERS AND UNQUALIFIED ASSISTANTS.

J. M. Smiti, M.D., C.M. (London, N.), forwards us an aceount of an juquest recently held in the eastern district of the metropolis, in which it appears hat our correspondent liss come somewhat into collision with the coroner who presided on the occaston. The subject of the inquiry was a domestic ervent, sued 48 yesry, wha died at her sister's residence after a ahort IIness flogen thre hours' duration in her evidence at the inquest the sister of less stated that the deceased - Who was single, sured fon delusions, and was ec centric in her habits-pald her a casuab visit one afternoon, and soonafterwards complained of a severe pain la her back. Becorning worse, our correspondent was sent for, and, not being st home, his unqualified sssistant attended, saw the deceased, sad presertbed for her, the friends being under the impression that the decessed was recelving the services of a duly qualitied medical man, On Dr, Smith's return, some hours after, he went to visit the patient, and found she was dead, and. not having seen her alive or diagnosed her case, he leclined to certlfy as to the caume of the death, and an inquest in due conme was licld to which Dr. Smith his assistant, sad other witnesses were summoned.
No post-mortem examination wss ordered, and when Dr. Smith was called No post-mortem examination edse that he knew nothing about tha case, and upon to giva evidence, he stated he never haviog atteaded the deceased woman. The coroner then examlneal the sssistant, uho stated that he was a dispenser of drugs to the last witness; that, in the absence of his principal, he had Hsited and prescribed for the deceased. In answer to questions, he further stated that he cousideral the case "a very serious one indeed," but did not think it necessary to tell the friends he was not qualified, or to aend for a medical man, as he was expecting Dr. Smith to return.
The coroner (severely) : "That has nothing to do with the patient's life, You thoumht the ease serlous one, and the friends were under the ampreas tou that the decerad was befnt treated hy a fully qualified medical man, slom that thing is scandalous. it is over and over arain and so chld not trouble. if think it is scandalous, are beinger attended by duly that I have rascy where people think the
quaditied nuedleal men and they are not." qualitied medical men and they are not."
Dr. Smbh then appara to have contended that thas was a case where a posf-martern exambation should have hech ordered; but the coroner evidently at first took an opposite view, presumably on the supposition that, fad a duly yumified medical raan attended the decrased fasteal of the dispenser of drugs, a propar dlagnosis of the case would have been made duriag the dirugs a propar houry iliness priar to death, and an ophinton fived at the finucst, which would, from a legal ceroner's polnt of dew, have been sufficiently alisfactory without a post-morten examination, and thus, as inmpnted, "not hase wasted the public money when it maht tee avolded." The inquest, hase wasted me pumice money when in man unconnected with the case male however, wins oijournea, and a medicat nam ucomected with the case male poat-morten exaniaation. Whidela showed that death was due to failure nt the heartis action from fatty degencration, accelerated by excesslve indulgence in alenhol.
** Apart from the question of posh-mortem or no posbomorlem in thls case, our correspondent unturally fecls agfrieved that he should be expected to assign a cause of death whout knowing ft, and that unpleasant observations ahould be made at the lnquest about Lifmoll and his asslstant. Having no knowledgo of the doceased person till alter death, he could not under the circumstances state the cause of ft ; but we would venture to remind him that if he cmploys an unquallited assistant-or, as the assistant described himself, "a dispenser of drugs "-to conluct his practice during his absence, he will from time to tima bind himaelf in collisfon, not anly with thie coroner, but
with the public generally aud his patients in particular ; and he must not be surprised if some amnunt of indigrution is expressed when it is discoverod that hats representatlve has not even attained that minimum of knowledge which the State requires to be verified by registration before it anctions at appointment of a medleal offieer to attend upon the very poorest in the land. We are aurry to gather from the statements of the coroner that this objec tlonable mode of practice is not uncommon in the eastern district, and that It has necessitated expressions of opinion from him which were distasteful to our correspondent.
With regard to post-mortem examinations, it is usual for the coroner to send hils order to the medical man who last attended the deceased, or who was called in at the time of or immediately affer the death; nevertheless, it is within the diserction of the coroner to lssite the order to any other duly registered medical man. In the pregent case he appears to have departed from the usual rule: possibly he feared that, If our correspondent's drug dispenser was considered sufficiently to represent him at the bedside of the sick and the dying, he might be thought by hls principal competent to preside at the post-mortem table.

## BRANCH SURGERTES.

X. Y. Z. writes: A. has for over thirty years had a few private and several club patients in a village four miles from the nearest medical man. B. has the parish appointment and the bulk of clubs. Is A. justitied in (I) setting up a surgery or place of call? and (2) if so, is it necessiry to acqusint B. of the fact before doing so?
** If our correspondent's statement had been more explicit and definite we should have been able to answer the two questions submitted. In the absence, therefore, of certain details, our reply is nnavoidably lased on the assungtion that B., as well as $\mathbf{\Lambda}$., is at the present time a noo-resident practitioner in the village alluded to. In such case, miless a mutual arrangement existed bet ween them to the contrary, A. would be " justified In settlog up a surgery or place of call, without previously acquainting B. with his intention to do so." At the same time, we deem it judicious to adel that, in our opinion, duplicate surgeries, unless absolutely necessary for the convenience of the practitioner, are more than objectionable, and tend more or less to degrade the profession.

## A CASF OF ETIQUETTE

S. asks for an opindon on the following: A. B. Is medical superintendent of nion intirmiry of 600 beds, and C. D. is the assistant medical oncer there C. D. is laid up for two days through an accident. A. B. does hia work in the warls during that time, and sees a case for whem C . D. has prescribed final dsys previously. The patient has had some vomiting following the original symptoms. One of the iterns of C. D.'s prescription is rin. ipecac. in F-drop doses. A. B. ordered C. D.'s prescription to bo repeated, with the omission of the via. ipecac., but does not mention the alteration to C. U. When C. D. returns to duty, he writes to A. B., aecusing him of committing " "gross breach of medical etiquette" in altering his preseription without consultiog him. IIas A. B. donaso or not, and in either case lo C. D. justified in using these terms under the above circumstances?
"** Tha one essantial point for couaideration in the above case is the manner in which the change (by tha simple omission of a drug) in the meticine was carried out. If it were effected with scrupulous care, so as not in any way injuriously to affect the repute or wound the leelings of the assistant medical officer in question, the latter's imputation against his responsible senier is, from our point of view, altogether indefensible, and, strictiy speaking, constitutes an act of insubordinatioa. At the aame time, although A. B., as the responsible superintendent of the unlon infinnary, and in actual charge of the case, was fully justified in omitting the vin. ipecac. (as the probable cause of the supervening symptom of vomiting), without previous consultation with the temporsrily incapacitated assistant, he would have cone well-as an matter of courtesy, if not of right-to have intl. mated to hls touchy auborilnate the nature and cause of the clange nasde in the prescription. In neither case, however, can A. 13.'s conduc, medical opinion, b

## MEDICO-PARLIAMENTARY.

## IIOUSE OF COMMONS:-Friday, February 10th, 1888.

The Dublin Barraclis.-In answer to Mr. Normis, Mr. Staniope said: Thirty-nine deaths occurred in all the Dublin Barracks during the year 1887 among the warrant officers, non-commissioned officers, and men of the garrison. No oflicer died during that period. It is impossible to say how many of these deaths were attributable to causes intrinsic to the barracks. Four were due to enteric disease and eight to pneumonia. Referring to the report by Sir Charles Cameron and Dr. Crimshaw, of which we were enablect to yublish a full a acount last week, le, said under many of the liend
y the requisite meassres have been taken, or are in land. But there are two of grave importance as to which no ininal action las yet
been taken. One is the erection of a new hospital for the isolation of infectious cases. We are trying to set aside another


#### Abstract

hospital for this purpose. The other is the demolition of a large portion of the barracks on the gromd that some of the old buildings are too much crowded together. Unfortunately, it is very difficult to provide other accommodation in Dublin at this time of the year for the troops, who would thereby be turned out of the Royal Barracks, and the new barracks now being commenced cannot be ready for some time. We are, however, trying to make such arrangements as will enable the most unhealthy part of the Royal Barracks to be racated as soon as possible. As regards Dover, I caused an inspection to be made by an inspector of the Local fiovernment Board. A considerable expenditure has been incurred in carrying out his recommendations, and the sanitary condition of these barracks is believed to be satisfactory.


## - Monday, February 13th.

Insanitary Dwellings.-In reply to Mr. Thorburv, Mr. Ritchie said that, in view of the work which the Government had in hand, they could not undertake to deal with the question of the compulsory periodical inspection of dwellings.

## Tuesday, February 14th.

The Treatment of Accidents at Sheerness.-In reply to Mr. Knatchbull-Hugessen, Lord G. Haniltox said: It has been the practice to send accident cases occurring in Sheerness Dockyard to the Royal Naval Ilospital at Chatham, for treatment, when the nature of the injury admitted of their removal. Injuries of a nature to render reworal undesirable would be treated locally at the dispensary of the Royal Naral Barracks at the dockyard. Under these circumstances it appears to be nnnecessary to ask the military authorities to receive accident cases. Since January, 1887, there lave only been three cases necessitating removal.
Lical Government, Scotland.-Mr. W. H. Smirn, in reply to Mr. Barclay, said: It is not anticipated that there will be time this session for Parliament to consider the Local Government Bill for Scotland. Leave will be asked to bring in a Bill dealing with the question of local government boundaries in Scotland so as to facilitate the passing of the Local Government Bill in the ensuing session.
The Sweating System.-In answer to Mr. Pickersalle, Mr. W. H. Smith said: The Secretary of State some time ago instructed the Chief Inspector of Factories to institute special inquiries into the sweating system at the East End of London, with the help of inspectors drawn for the purpose from other districts. The report of the Chief inspector is daily expected, and it is hoped that it will materially assist the Government in deciding whether anything can be done ly legislation to remedy the evils complained of.
Scotch Sanitary Legislation.-U'pon a division being taken, leave was given to introduce a Bill by the Lord Advocate for regulating the police and sanitary administration of towns and populous places, and for facilitating the union of police and municipal administration in burghs in Scotland.

IFednesday, February 15th.
New Bills.- On the motion of Mr. Elton for leave to introduce a Bill for the better regulation of temporary dwellings, Dr. TANNER objected. A Dill to facilitate the better housing of the working elasses in London was introduced by Mr. Reid, and was read a first time.

## Notices of Motion.

Among the Fills and motions of which notices have already been given are the following:
Mr. Quiles: Mill for the better securing the purity of beer.
Mr. Gilhooly : Bill for the better housing of the working classes in Ireland.
Mr. Is Acson : Bill to amend the law relating to the election of coroners.
Mr. Dixon-hahtlasin: Bill for the better regulation of theatres and music halls in the metropolis.
Mr. G. O. Morgay : Bill fnrther to amend the lave relating to burials.
Mr. S. Mill : Bill for the sanitary inspection of dwellings.
Sir 1. Gref: On Tuesday, March 6th, to move a resolution in farour of the repeal if the carriage tax.
Mr. Preton: Bill relating to the practice of maccination.
Mr. Murais: Bill to aniend the law in relation to pnnishment by whipping, and for the better protection of women and children.
A FIRE broke out last week at the buildings of the Faculty of Medicine of Paris jnst at the hour when students adjourn to the lilrary. It was due to orerheated caloriferes, and spread to the grand amphitheatre. Fortunately plenty of assistance was at hand, and a disaster was arerted before much damage had been
dono.

## UNIVERSITY INTELLIGENCE.

Univfrsity of London.-Intermediate Examination in Medicine. January, 1888. Pass list. Entire Examination.
First Division.-II. S. Ballance, King's College: A. E. Berry, Owens College: A. W. Boning, University College; C. R. Box, St. Thomas's Hospital ; P. R. Dodwell, IJniversity College: J. McD. Gill, Guy's Hospital; F. W. Hall, Guy's Hospital : E. V. Hugo, St. Bartbolomew's Irospital: R. E. Hall, Guy's Hospital ©ile. A. Wh. Lyons, King's College: H. J. M. Playfair, Kiog's College; H. S. Sandifer, King's College; J. H. Sykes, Owens College.
Second Division.-A. ML. Cass, Owens College and Manchester Royal Infirmary; B. E. Dawson, London Hospital and University College ; II. Distin, King's College; P. W. Dore, St. Bartholomew's Hospital; Es. IT. C. Earle, University College; C. J. Girling, Guy's Hospital; G. S. Johnston, Queen's College, Birmingham; H. B. Kitchin, Unirersity College; T. F. Ricketts, B.Sc., Guy's Hospital; L. Roberts, St. Bartholomew's Ilospltal.
Excluding Plysiology.
First Division.-W, A. Clark, St. Bartholomew's Hospltal.
Second Division.-E. L. N. Pridmore, Ualversity College; J. A. Waring, Unirersity College.
Physiology only.
First Division.-A. W. W. Lea, Owens College: S. W. Morgan, Bristol Medieal School; J. A. Piekels, Owens College.
Second Division.-E. G. Hall, Bristol Medical School: H. Langdale, Owens College; F. R. P. Taylor, Westminster Hospital.

Untuensity of Cambridge.-The following were on February 9 th admitted to the degree of Bachelor of Medicine.
F. Cautlew, King's : T. Redmarne Trinity; E. T. Wrnne, St. Catharine's ; C. J. Whitby, Emmanuel : R. Major-Brown, Downing.

The following gentleman was at the same time admitted to tho degree of Bachelor of Surgery.
E. Cautley, King's.

Mr. Francis Darmin, M.A., M.B., has been nominated by the Council of the Senate a member of the Special Board for Medicine, in the room of the late Mr. Coutts Trotter.

Cnifersity of Dublin,-At the Spring Commencements of Hilary Term, held according to custom on Shrove Tuesday, February 14th, I888, the following degrees in Medicine, Surgery, and Midwifery were conferred by the University Caput, in the presence of the Senate assembled in the Examination Hall of Trinity College.

Bachelor of Obstetrice-S. W. Allwortlif, E. B. Flennell, II. N. II. Jof̧nt, A. G. Price, J. D. Wright.

Bachelor of Surgerv.-S. W. Allworthv, E. B. Fiennell, J. E. Hadden, W. M. Jennings, H. N. H. Jornt. J, F. Knott. A. G. Priee, J. U. Wright.
Bachelor of Medicine.-H. N. H. Joynt, A. G. Price, J. D. Wright.
Doctor iof Medicine.-R. J. Baker (m Coloniis), H. T. Bewley (stip. cond.). C. Mallius (in Coloniis), J. P. Henry, E. Hogben (stip. cond.).

## PUBLIC HEALTH

POOR-LAW MEDICAL SERVICES.

## IIEALTH OF ENGLAND AND WALES DURING 1887.

Fron the last quarterly return of the Registrar-Gencral we are enabled to summarise the vital and mortal statistics relating to England and Wales for the year 1857. The birth-rate was equal to 31.4 and the death-rate to 188 per 1,000 of the population, estimated at twenty-eight and a quarter millions of persons. The birth-rate was lower than in any year since 1838, and the deathrate was actually the lowest on record. It is worthy of note that in each year since 1880 the death-rate has been lower than in any year on record prior to that date. This marked and continued reduction in the national death-rate implies that more than 400,000 persons in England and Wales have survived whose deaths would have been recorded had the rate of mortality remained the same as that which prevailed during the ten preeeding years, 1871-90. The natural increase of population during 185\%, or the excess of births over deaths, was 355,440 , which showed a further declinn from the numbers in recent years. According to returns issued by the Board of Trade, it appears that 280,969 emigrants of British origin left the various ports of the United Kingdom during the year under notice; of these, 172,334 were Enclish, 35,039 Scotch. and 79,536 Irish. The amount of emigration from each division of the United Kingdom showed a furtber increase upon that recorded in the two preceding years.

The 530,577 deaths from all causes in England and Wales during
last year included 6 E. 676 from the principal zymetic disensens, of
 to whooping-cough, 7.719 in skarlet fever, fime to "fcver " (incluling tyihus, enterie, and simple or ill-lefinect. fryer), 4,339 tn diphtheria, nul so5 to small-ppx These 64,676 denths were equal to an ammal rate of 2.29 per 1,000 , against 2.19 nad 2.36 in the two preceding years, 18si-St, Compared with the numbers recordent in 1 N86, the futality of mensles, scarlet fever, diphtheria, and small-pax shower an increuse. white that of dinarthea, Thoop-ing-cellgh, nud fever hat declinel. The death-rate from, measles exceedel that recorded in any year sinee 1,40. The rate of mortality from scarlet ferer, althongh slightty exceeding the very low rates in 188.5 and 18:6, was lower than that recorded in any previous year. The death-rate from diphtheria was lower
than in any of the thrce previcus yenrs. The rate of mortality than in any of the three presicius yenrs. The rate of mortality
from smanl-pox showed an increasn upon thi unprecedentedly low from smanl-pox showed an incrense upon the unprecedentedry low
rate in 1886 , nlt heugh it was considerably below the average of the six preceding yenrs, 1831 -S6. The denth-rate from whoopingcengh was lewer than in any year on record, and that from "fever" was also the lowest on recorl.
The 530.577 deathe at all ages registored in England and Wales during $188^{\circ}$ inchuted 125,436 of infants under 1 year of age. equal to a propartion of 14.5 per 1,000 of the registered births, agninst 13* and 140 in the two preceding yenrs. In the seven years of the current decade, 1881-87, the rate of infant mortality lias averaged $1+1$ per 1,000, against $1+9$ in the preceding ten years 1871 -50, Among elderly persons the rate of mertality during 1887 differed but slightly from that recorded in recent years.

Itealtif of Figlish Towns.-In the twenty-eight large Eng lishowns. including loudon, which have an est imated pepulation
 tered during the weok onding Saturday, February 11th. The antiual rate of mortality per 1,000 persons living in these towns, which had steadily dectined in the first five weeks of this yenr from 23.5 to 21.9 , rose again during the week uncler notice to 22.2 . $T$ he rates in the screral towns rangel from $15 . \%$ in Brighton, 16.8 in Durly, 17.4 in Sunderland, and 17.6 in Malifax. to 28.1 in Woilrarhampton, $2 z^{2.2}$ in $\$ 1$ anchester, 23.9 in Plymouth, and 36.4 in I'reston. In the twenty-seven provincial towns the mean deathrate was in Loudou, which was 22.0 per 1,000 . The 3,993 deaths registered during the week under notice in the twenty-eight towns included 212 which were referred to whooping-cough. 75 to scarlet fever, ifs to diplitheria, 40 to mensles, 39 to "fever" (principally enteric), 36 to diarrhoca, and 36 to small-pox; in all, 492 deaths resulted from these principal zymotic diseases, ngainst 48 and 506 in the two preceding weeks. These 402 deaths were equal to nn ammal rate of $2 \hat{i}$ per 1,000 ; in London the zymotic death-rate was 3.3 , while in the twent $y$-sempu provincial towns it averaged only 2.3 per 1,000 , and rangiel from 0.0 in Brighton. Birkenhead, anil 1 alifax. to 4.9 in Oldham, 5.3 in Jlackthurn, and 6.5 in Sheffiell. Measles caused tho highest proportional fatality in Derby. 13lackhurn, and Plymouth : scarlet fever in ILull. Blacklurn, and Oldham; whomping-cough in Sudderland, Bolton, London, Welverhampton, and Portsmonth; and "fever" in Xottingham and Bhackburn. Of the 56 deaths from diyhtherin recorded during the weok under notice in the twenty-richt towns 40 ncenrred in Lonclon. 1 in Manchester, 2 in Liverpool, 2 in Oldham, and 2 in llud10.riffill The 36 fatal casen of simall-pox included 31 in Sheffield, $\because \because$ in Oldham, 1 in lbristol. 1 in Xottingham, nad 1 in Leeds. The number of small-pox patients in the Metropolitan Asylums Jlospituls was 8 m Saturdny, Felruary 11 the of which 3 had been arlmitted during the weck. These lospitals also contained $1,+53$ prarlet fever patients on the same date, agninst inumbers steadily declining from 2,602 to $1,5,8$ in the ten preceding weeks: there were, huwewe, 145 admissions during the week, against 133 nul 96 in the two preceding weeks. The death-rate from disvases of the respiratory organs in London was equal to G.I per $1,0 \mathrm{~km}$, and was considerably below the urerage.

Henetir of Scotcis Towns-In the wight principal Scoteh towns, Tox birtha and 56 bib deaths were registered during the week ending Saturduy, Pebruary thth. The annual rate of mortality in these towns, which hat heen 23.3 and 21.4 in the two preceding weeks, was again $\$ 2.4$ during the week under notice. and slightly exceeded the mean rate during the same period in the twenty-cight large-English towne." Among these Scotch towns,
the lowest ratcs were recorded in Leith and Greenock, and the lughest in lerth and Glasgow. The 566 deaths in these towns during the week under notice included 60 which were referred ta the principal zymotic diseases, equal to an annual rate of 2.7 per 1,000, which almost corresponded with the menn zymotic deathrate during the weck under notice in the large English toirns. The highest zymotic rates were recorded in Greenock, Jeith, and l'erth, The highest proportional fatality of whooping-cough occurred in Leith and Glasgow ; from scarlet fever in Dundee, Glasgow, and Perth; from measles in Leith and Edinburgh ; and from diphtherin in Greenock and Perth. The mortality from disenses of the respiratory organs during the week under netice in these towns was equal to 5,9 per 1,000 , ngainst 6,3 in London.During the week ending Satirday, February 1Ith, 822 births and 56 deaths were registered in the eight principal Scoteh towns. The annual rate of mortnlity, which had been 22.4 per 1,000 in each of the two preceding weeks, was 22.5 during the week under natice, and slightly exceeded the menn rate during the week in the twenty-eight large English towns. Among these Seotch towns the lowest rates were recorded in Perth and Leith, and the highest in Glasgow and Aberdeen. The 568 deaths in these, towns during the weck included 72 which were referred to the principal zymotic diseases, equal to an amunl rate of 2.5 per 1,000 , which was slightly below the mean zymotic denth-rate during the same period in the large English towns. The highest zymotic death-rates were recorded in Glasgow, Leith, and Edinburgh. The highest proportional fatality of measles oecurred in Leith and Edinburgh; from scarlet fever in Glasgow: from diphtheria in Edinburgh; and from whooping-cough in Leith, Paisley, and Aberdeen. The mortality from diseases of, the respiratory organs in these Scotch towns during the week under notice was equal to 5.4 per 1,000 , against 6.1 in London.

Mealith of IRish Towns.-During the meek ending Saturday, February 4th; 493 deaths were registered in the sixteen principal town districts of Ireland, equal to an annual rate of 29.5 per 1,000. The lowest rates were recorded in Londonderry and Wexford, and the highest in Belfast and Newry. The death-rate from the principal zymotic diseases in these towns averaged 4.8 per 1,000, and was highest in Cork, Newry, and Kilkenny. Measles showed fatal prevalence in Newry and Jiilkenny, and whoopingcougl in Belfast. The 202 deaths registered in Dublin during the
week under notice were which under notice were equal to an anmual rate of 29.9 per 1,000 , Which showed a decline from the high rates in recent weeks. The
202 deaths included 25 from the principal zJmotic disenses to $a$ rate of 37 per 1.000 ) of which 10 were referred to wes (equal cough, 6 to sorrlet fever, 4 to " fever," 3 to diaryhoa, and 2 to measles.-In the sixteen principal town-districts of Ireland the deaths registered during the week ending Saturday, Feliruary 11th, were equal to an annual rate of 29.6 per 1,000 . The lowest rates were recorded in Drogheda and Kilkenny, and the highest
in Xewry and Lurgan. Th disenses in these towns averant hate from the primcipal zymotic Cork; Lurgan, and Newry. lence in Cork and Newry. The 202 deaths registered in Dublin during the week were equal to an annual rate of 29.9 per 1,000 , corresponding with the rate in the preceding week, the rate during the same period being only 22.0 in London and 2.2. in Edinhurgh. The 202 denths included 21 from the principnl zymotic disenses, equal to an annual rate of 3.1 per 1,000 , of which 9 resulted from wheoping-cough, 6 from searlet fover, 3 from diarrlicen, 2 from fever, and 1 from measles.
mbdical practitioners did officers of healith. 1. his annual adluress as President of the Birmingham and Midfrilecl to co-oplerate with medienl officers of health in praetitioners inonsures. He saitl "A tuedical man in practice was openly stating much to the alarm of the inlonbitants of the district, that he had Ht one time under his care fourteen cases of diphtheria. I whs inforrued of this, and wrote to him asking if what thad heard was true, and, if so, whether he diil not think it desirable to give mn 6ome information that I might endeavour to trace the cnuse of tho disease. His reply was unique, Ite said that as there was no chance of an imprarement in the condition of sewers, he did not see the use of giving any information as to the whereabouts of
the cases. I pointed out to him the necessity of the sanitary authority endeavouring to prevent the spread of the disease by disinfection and other measures, and the impossibility of doing this in the absence of information as to where the cause existed. His replies are again worthy of being recorded. Ho did not see Why he should do my work, as it was my duty to inspect the district in such a way that I should discover all cases of infectious disease for myself. I sloould add that the gentleman was careful to sign himself " Ex.M.O.11'"

## VACCINATION AND SMALL-HOX AT SHEEFIELD.

Wrra reference to the inquiry of bur correspondent resperting the statisties quoted hy Mr. IItchie, in his recent speech at sheffield, showing the bemetivial effects of vacchat ion amongst the children under 10 years of age, living fin Sheffield during the current epidemic of small-pox, we are not aware that the correctness of Mr. Ritchie's figures has bren impugned. In the loeal publication of some earlier statisties respenting the epidemic, some accidental error occurred in the printing, but this was immediately corrected. We have avery reasons to believe that the figures quoted by the President of the Local Government Doard are quite correct. We would remind our correspondent that Mr. Ihtchie did not say that his information as to the number of vaccinated and unvaccinated in Sheffield was obtained by a house-to-house visitation.
The ealculation was probably manle from the publisher returns of the Registrar General and of the vaccination officers, and can therefore be readily verified. So also can the faets as tis the vaccination of the children under 10 years of age, who were attacked with small-pot and died. It map interest our correspuntent and ot hers to know that in a recent report Mr. Willey. the medieal officer of the Sheffield Borough Hospital, states that during the month of January 160 cases of simall-pox were admitted to the hospital ( 37 of them heing unvaicinated), which, added to the 136 alrealy in the hospital from the previous month, made a total of 296 under treatment within the month. Amongst these there were 32 deaths, 21 being amongst the unraccinated, and 11 amongst adults who had not been vaccinated since infancy. The average age of these latter cases was 30 years. Fxperiences of a similar sort are reported by the health officers of the Chestertield llural and Stapleton Urban District, where small-pox has lately bern somewhat severely preralent. In fact, such experieuces are repeated during every spidemic.

## MEDICAL NEWS,

King and Quegn's College of Pifysectans in Ireland.-. The undermentioned Licentiate in Medicine of the College, having complied with the by-laws relating to Membership pursuant to the provisions of the Supplemental Charter of Queen Victoria, dated December $12 t h, 1878$, has been duly admitted a Member of the Colleye.
M. A. Boynt, Lic. Med. 1860, Physician to the Mater Misericordix Hospital, Dublin.
It the examination for the Diploma in 'State Medicine, beld on Tuesday, Wednesday. and Thursday, Feboruary 7th, 8th, and 9th, 1sse, the following cuudidate was successful.
W. Hartigan, M.K.Q.C.P., 1880, Hermitago, Hong Kons.

At the usual monthly examinations for the Licences of the College, held on Monday, Tuesday, Wednesday, and Thursday, lehruary fith, 7 th, 8 th, and 9 th, 1888 , the undermentioned registered merlieal practitioners were successful.

For the Licence to Practise Melicine and-Miduifery.-J. J. II. Jackman, L. R.C.S.I., 1883, Dummore East. Co. WaterIord.

For the Licence to Pructise Muduifery only.-R. Bryans, M.B.. R.L.I., IS87 Monaghan.

## MEDICAL YACANCIES.

The following V゙arancies are anuounced:
ATHLONE UNION-Mcdical Officer, Moate Dispensary, Salary, elan per annmmand fees, Applications to Mr. Luke Sgan, Honorary secretary. ELEetion on February 21st.
BIRMINGHAM CHILDREN'S HOSPITAL.-FAssistant. Resident Medical Oficer. Salary, $£ 10$ per annum, with board, ete. Applications by February 21st to the secretary.
BLRMENGHISM GFNNERAL IIOSPITAL.-dssistant House-Surgoom. Applleafions ly Pebruary $25 \mathrm{I}_{1}$ to the Itouse Governor.
BRISTOL LiOL LL INFIRMARI.-DentaI Surgeon. Applications by Februay 18 th to the Secretary.
CANCER HOSPITAL, Brompton,-Pathologist. Honorarium of $£ 30$ for twelvemonths. Appltations by February 2lst to the Secretary
CENTRAL LONDON OPITTH.ALMC IIOSPITAL, Gras's Inn Hoad, W.C.Assistant surgeon. Applications by March bth to the Secrela ry
CIRLINCESTER UNION.-Medical Onicer. Silary, SHI per annum, and extras. Applications by Fibbruary euth to W. L. Cooke, Lsq., Sulicitor, 13 L worm
EAlsLswoon . ASYiLUM FOR [DIOTs, JRethill.-Medical Superinteudens. salary, £50 per ammum, with apartnents, etc. Application by February 2lst tu the Board of Mnnagement, 36 , king William street, Ei.C.
EAST SUFFOLK IIOSPITAL, Ipswich.-Assistant House-Surgeon Applications he Fchruary 21st to the Secretary

FRFNCH HOSPITAL, Leicester Square-Resident Medical Officer. Salary, £50 per annum, with board, etc. Applications to the Secrelary.
LINCOLNSHIRE COUNTY ASILUM, Bracebrldge, bear Lincoln.-Assistant Medical Officer. Salary, els0 per annum, with bnard, lorging, and washing. Applieations by February 2nth to J. W. Marsh, Esq.. Superintendent,
LIVERPOOL NORTHERN IIOSPITAL.-Assistant House Surgeon. Salary £70 per annum, with board and resideace. Applications by February 2znd to the Chairman of the Committee.
MANCHESTER HOSPITAL FOR CONSEMPTION AND DISEASES OF THE THROAT, Bowdon, Cheshire.-Resident Medical Officet. Salary f60 per annum, with board, etc. Applieations by February 23 rd , to the Secretary. Manchester.
METROPOLITAN HOSPITAL, Kingsland Road. F.-Ophthalmic Surgeon. Applications by February $20 t h$ to the Secretary.
NATIONAL ORTHOPEDIC IIOSPITAL.-Surgical Registrar and Anasshetist Monorarium, £20. Applications by Febrnary 2Ist to the Secretary, Great
OUGHTERIRD UNION.-Merlics! Offeer. Oughtemard Dispensary. Salary, 2ll2 per annum and fees. Applications to Mr. Robert Mons, Hoinorary Secretary; Drumnakill Lodge. Election on March \%th.
OUGHTERARD UNION.-Medical Officer to the Workhouse, Infirmary, ane Fever Hospital. Salary, ero per aunum, Applications to Mr. J. Giltroore, Clerk of Eniou. Election on Jareh 7th.
ROXBURGII DISTRICT ASYLUM. Melrose.-Assistant Medical Officer Salary, exo per amum, with hoard and residence. Applications to Dr. Johnstone.
ST. GEORGE'S AND ST. JAMESS DISPENSARY.-Physician. Applieatlons to S. L. Bumneti, 60. King Street, Regent Strect, W.
STAFEORDSHIRE GENERAL INFIRMARY.-Assistant IIouseSurgeon. Applications by February 1sth to the House-Surgeon.
TIRBAT (ROSS-SHIRE).-Medical Officer. Salary, £lly per annum. Applications by February 29th to Finlay Munro, Esq., Rockfield-by-Fearn, N.B.
THURLES CNION, Templemore Dispensary. Medical Officer. Salary, elay per annim, and fees. Applications to Xir. Jobn O'Meara, Honorary Secretary. Collegshill. Election on February 22 nd .
LJIVERSITY OF GLASGOW.-Four Examiners in Medicine. Annual fee £t and $£ 3 n$ respectively. Applications by March 5 th to the Secretary of the University Court, G. D. McLellan, Esq., 145. West George Street. Glasgow.
WEST BROMWICII DISTRICT HOSPITAL.-House-Surgeon. Salary. £80 per annum, with board. Applications by February 25tb to William Bache Esq., Churchill House, West Bromwieh.
YORK COUNTY HOSPITAL-Senior House-Surgeon'. Salary, £100 per annum, with board, ete. Applicatlons by March 1st to the Secretary.
LORK DISPENSARY. - Three Resident Medical Officers. Salary, £130 per annum, witl furnished apartments, etc. Applications by February 29th to S. W. North, Esq., 81, Micklegate, Jork.

## MEDICAL APPOINTMENTS.

Aม゙вотт, C. E.. L.K.Q.C.P.I., M.R.C.S.Eng., appointed Medical Officer of Health for the Braintree Urban Sanitary District, Essex.
Barieley, C. H., L.R.C.P., L.R.C.S., L.M. Edin., appointed Anesthetist to the National Dental llospital, vice H. F. Winslow, M.D., resigned.
B.armett, C. W. Sessions, M.B., C.M., appointed Honarary Surgeon to the Inumts Countr Hospital, Huntingdon.
Bowif, Alexander, M.D., M.Ch.St. And.. 'appointed Assistant Physician to St. John's Hospital for Diseases of the Skin.
Duckrell, Morgan, M.D., M.A., B.Ch.Dnb, appointed Assistant Physician to St. John's Uospital for Diseases of the Skin.
Floon, F. F., L.I.II.Duh.. appointed Medical Officer for the South Disision of the Dundalk District of the Dundalk C'rion.
Frosr. Frameis T., M.R.C.S.E., appointed Junior House-Surgeon to the IIur lerstiek? Intirmary, vice W. L. W. Marshall, M.R.C.S.E., resigned.
G1BRs, A. Y. Godhy, L.R.C.P.Lond. M. IR.C.S.Eng., L.S.A., apponted Honorary Ascistant Surgeon to the Bristol Lye Itospital,
Gilfarn, R., M.R.G.S.Ėog., L.S.A. appointed Medieal Officer and Public Vac cillator for the U'gborough and Brent Districts of the Totnes Union.
MAmess, Clements D. A.. C.M.. Mi.D., etc. Edin., appointed Honorary Assislant Surgeon to the Bristol Eye Hospital.
Hitchins. T. .\}., L.k.C.P., M. M.C.S., appeinted Assistant Physician to St. Joliu's Hospital for Diseases of the Skin.
Joves, IV. I.lover, M.IB., C.M., B.A.. appointed Junior House-Surgeon to the Western General Dispensary, Marylebone Road.
Prifsthex, K. C., M..A., M.B.Camh., M.K.C.S., appointed Registrar and Pathologist to the Mospital for Sick Chiliren, Gireat Ormond Street
Sellars. J. C., I..F.Q.C.P.J.. appointed Medieal Officer for the North Divisius of the Dundalk District of the Dundalk Inion,
SxMyivon, Johnson, M.D., F.R.S.E., appointed Examiner in Anatomy to the Cniversity of Ldinburgh. vee P'rofessor 1). J. ('unninghan, M.D., F.R.S.E., whose terin of ollica has expired.
Trevflyis, E. F., M.I.Lund., B.su., M.R.C.S., appointed House-Physician to the seamen's Hospital, Grcenwlel, vee E. H. Booth, M.D.Lond., M.R.C.S.,

Royal Commission on the blisto, Deaf and Deam, and br-
 "vilemer as to weak-minderl children in public elementary schools, :Ind on Wednesday, Fehruary Sth, Dr: George Shuttleworth. medical superinteudent, ind Mr. J. Wiggens, secretary, Hoyal Ilbert Isylum, Lancaster, were examined as to the provisions in England, educational and otherwise for the imbecile class.

Sanitary Assurancf: Asanciation. - The seventh annual meeting of the members of this Associntion was held on February 131 h . l'rofessor lioger Smith, F.R.i.B.A., presided. Htr. Joseph Ctadley read the ammal report, which stated that with newly built propropecty there liad been a contimuel improvement, necessitating spection alterations to secure the sanitary certilicates. Ammal inspections for the renewal of sanitary certificates continued to be
nade. Mr. Mark 1l. Judge Allils proposed "o made. Mr. Dark 11. Julge. A.k.1.B.A., proposed, "That the Right San. Wory Registration, G.C.l3, be requested to take charge of the duce the Eill into the llouse of Lorils at as early a date introsible." Sir leter Lumsden, f.C.B., seconded this resolution, which was supported by Mr. 1!. Rutherford, barrister-at-law, Dr. Willoughby, and others, and was carried unanimously. The retiring members of the Council were re-elected: Sir Joseph Fayrer was reelected l'resident of the Association, and Professor T. Roger Smith were re-elected Vice-President.
Inter-IInspital (Rugby) Football Chaldengis Cup.-Second Tound.-On February 13th St. Thomas's beat University. The strong forward team of St. Thomas's quite orerpowered University. whose threequarters were unable to show their powers. R. L. Thomas, of the losing team, unfortunately broke his collar-bone hefore lanlf-time- 4 goals, 15 tries, and 1 minor ( 161 points), to nil. On lebruary lth, St. Bartholomew's $\%$. St. (George's resulted in a win for the former by 1 try 1 minor ( 11 points), to 1 minor (1 point). This game was played with a layer of snow over the ground; the game was almost entirely coufined to the forwards, and sternly contested. On February 16 th london 2. St. Mary's: Middlesex, a bye.
The French Mospital- At the annual banquet of the French Hospital at Londnn, which took place on Saturday evening last at Willis's Rooms, llis Excellency the French Ambassador in the chair, supported by the Lord Dlayor, the report for 1887 was read hy the Honorary Secretary, M. Rüffer, showing that the total receipts for that year amonnted to $£ 3,55115 \mathrm{~s}$. ind., being less than the preceding year by $£ 12610 \mathrm{~s}$. Td. The expenditure amounted to $£_{2,26018 s . ~ 6 u] . ~ f o r ~ m a i n t e n a n c e ~ a n d ~}^{£ 2} 2748 \mathrm{~s}$. 1d. formanagement, Upwards of 11,000 out-and 422 in-patients were relieved during that time. These figures reflect every credit on the management of the hospital for economy in administration.

The Metropolitan Asrilcms Board.--The last fortnightly returns from the fever and small-pox hospitals of the Metropolitan Asylums Board showed $2601^{\text {ratients admitted, as against } 297 \text { in }}$ the previous fortnight. In the same time 39 had died, as against 42 in the prerious period; and 370 had been discharged, as against :N.5 in the previous fortnight. There were, on the morning of Februnry 10 th, under treatment 1,685 patients in the various hospitals.
Tue Cambridge Sanitary Authority have decided to adopt the "broad irrigation" system for the disposal of sewage. provided that land can be purchased at a reasonable price. They also decided that no scheme for the converance of the sewage to the pumping-station be adoyted unless it be connected with a scheme for the reeonstruction of all existing sewers and drains which are found to be sewers of deposit or otherwise defective.

The: I'arkes Musebm. - The Merchant Taylors Company lave recently voted ten guineas to this museum, to niml in its work of practical teaching and demonstrating sanitury science.
Mr. William E. Cass, M.T.C.S.Fng., late medieal officer to the fionle Linion, has obtained a superannuation allowance of £lGo per annum.

Problie Vacenation--Mr. Crocker. Bingley, has received for the fourth time the fovernment wrant for elficient vaccination.

## MEETINGS OF SOCIETIES DURING THE NEST WEEK.

## Maxibsy.

Royal Collfge of Surteons of Jimitand, 1 f.m. - Professor Willam Wataon Cheyne, Fr.lk.C.S. : Itceture on Suppuration and Septic Diseases.
Medical Socifit of Losunx, 8.30 p.at.-Mr. Mutchinson : The Abortive Treatment of sypllis.

TIE:NIMAK。
Royat Collefe of Pirysiciass of Losnos, 5 p, M.-InapectorGeneral Lawon: The Milmy I.ectures.-Lertire I. Epldemic Influencee.

Patholonioal Sochety of fonimon, $8.30 \mathrm{p} . \mathrm{m}$.-Spedmens.-Mr. Sution and Mr Shattock: Heport on a case of Parasitic Fotus. Mr. DiArcy rower: Congenital Fatty Tumour commected whin boac. Mr. T. F. Clavasse: Paroth Tumour. Dr. Crooke: I ulmonary Fudarteritis, Mr. Stonham: Complex or Vertical Ilerm anhroditism. Mr. Domn: Paplltomn of Fallopian Tubes. Sir aphe Nac Cormac. Eipithelioma of Klducy, associaled with Criculus Mr Pilts: Villous Carchoma of Breast. Dr Calculus. Mr. Pitts: Millous Carchoma of Brast. Dr Wooldrdge: New Constlt uent of the Blood. Card SpectmensMr. Stonham: Tumours of Hone. Mr. Cbavasse: Peculiar Vesical Calculus. Mr. Bruco Clarke: Stone in Itetroprostatic Pouch. Mr. Walsham: Volvulus of Cxcuna and Lower Portion of llenm. Mr. Shattock: Dermold Cyst from the Third Bran chial Cloft. Dr. Ledlard: Enchondroma of Fingers.

## WEDNEADAK.

Royal. Collegr, of Suroeons of Examand, 4 P.m. - Professor Whliam Watsou Cheyne, F.R.C.S.: Lecture on Suppuration and Septic Diseases.
Britisif Gyyecolonicat. Society, 8.30 p.m.-The adjourned discussion min Ectopic Gestation wilt be opened by Dr. Barnes. A large collection of specimens fllustration Juptured Tubal and other forms Ectopic Gestation will bo exhlbited by Mr. Lawsou Tait. Council, 8 p....
Huntehan Society, 8 P.M.-Mr. R. Clement Lucas: Prebident's Address. 1)r. F. J. Smith: The Influevee of tho Discovery of Micrumangerns on Treatment.

## ThIESDAX

Royat. College or Physioluys of Loxdon. 5 P.M.-Inspector-General Lawson
The Mllroy Lectures.-Lecture 11. Epidemic Intluences. M Association, 3.15 P.M. (Portman Rooms, Baker Street). -Conerenco on Burlal, Funeral, and Mourning leform ; Sir E. Slevoking. Dr. B. W. Jichardson, F.R.S., ILon. Dudley Fortescue, Dr. Danford Thomas, and others.

## FITIDAY.

Rotal. College of Surgeosa of Exglayd, 4 f.m. - Professor William Watson Cheyne, F.1H.C.S.: Lecture on Suppuration and Septic Diseases
Medico-Psichological. Association, 4 P.M.-A quarterly meeting of this Association will be held at Betblem IIospital. St. George Road. Londou. A meeting of the Cunacil will he held at 3 P.M.; Dr. IIughlings Jackson will read a paper on Post-Erileptlic States. A special meeting will will he held at 5.30 P.M. "to tansider the recent appointment at the IIayward's Heath Asy consider the recent appoin wine together in the eveniag at 7 lum. The menber Restaurant. Members intendiag to dino P.M., at berwell.
Quekett Microscopical. Ciub (University College, Gower Street), 8 p.at.Annual General Meeting. Presidents Address.
of Levnox 8 . Halmes: (1) Case of Laceration of Clinical Societs of Lendos, 8 p.as-mr. Hed leduction of Dislocation of Axillary Artery in attempted ineduction ofmptoms of Septic Shoulder; Death from Exhaustion, with sympts. ix and $x$, smia. (2) Sequel to a case reperted in rols. J. R. Lunn under title of Ligature of Left Carotid. Ar. J. Netured for Case in which the Superfichal Femoral Artery was Ligaturen the a Popliteal Aneurysm without Rupture of the Walis of hio Vessel. Mr. 33. Pitts: Case of Amputation of the Hip-Jnink for Osteo-sarcoma of Femur ; Secoudary Hxmorrhaze ; Ligaturo of Common Femoral : Recovery. Living Spectmens:-1. Che Cured Subclavian Aneurysm: Dr. Barlow and Mr. Ruffer ( . Cas whom Loreta's Operation on the Stomach was pertormet two months ago.

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserting announcements of Births, Marringes, and Death which should be fonvarded in stamps with the announcement.

BIRTHS.
Hučatox.-On Febriary 12th, at 10, Stratford Place. W., the wlfe of T. Lauder Brunton, M.D., Y.K.S., of a daughter.
Cumb-On January 22nd, at 2, Collego lark Villas, Harrow Read. W., the wife of Warwich L. Clihd, M.1)., M.H.C.S.Eng.. of a daughter.
Davis.-On Yetruary 14th, nt It, St. James's Square, Bath, the wife of Fobert Davis. M.M.C.S.Eng., of a danghter.
Liove-Kobrrts.-On February [ith. the wife of J. Lloyd-lioberts. M.B., of Denbigh. North Wales of a daughter.

Denuigh. Nortis Wales. of a danghek Torrington, Jevon, the
Parslof.-On Fehriary
wife of II. Ileath Parsloe, M.ll.C.S., L.J.C.Y., of a son.

## MARRIAGES.

Itobprts-Prace.-On Feliruary 7 th, at the Parish Church, Holyweil, lyy the Rev. JK. O. Whllame. MI.A.. Vicar, assisted by tho liev. hewelyn Jones. Rev. N., curate. Kichard J'rithard Itoherts, M.K.C.S. Eng. L.S.A.lond. Nf Methesda, to Maggle, eldest daughter of the late John Price, of 1 olywen.
TURNER-Silcock. - On February Tth. af, Cbittisbam, Georke Jurnerd Clow ea desdon, to Elennor Chario
Sileock, Wood Jouse, Jiy.

NEATHS.
If armison.-On Fehruary 9th, at The Grange, York Rnad. Birkdale, Southnort, Joncpiline C., the dearly loved wife of G. Copper Ifarrison, L.if.C.C." Jonchinine C., the daughter of the lato J. J. Godirey, M.R.C.S., of Liverpon. Smitu.-On February Mb, at Soutbport. from the effects of an accid
ward Mortlmore omith, L.R.C.P,, L,R.C.S., aged 29 yeara, R.I.P:

## OPERATION DATS AT THE LONDON HOSPITALS．

MONDAY．．．．．．．．．． 10.30 A．M．：Reval London Ophthalnile．－1．30 P．M．；Gny＇g （Ophthalmic Department）；and Koyal Westminster Ophthal－ mic．－2 P．Mr：Metropolitan Free；St．Mark＇s；Central London Ophthalmic：1Royal Orthopedic；and Hospital for Women．－ 2．30 P．M．：Chelsca IIospital Ler Women．
TUESDAK．．．．．．．．．9 A．M．：St．Marvis（Uphthalmic Dcpartment），－10． 30 A．M． Koyal Leaden Uphthamic．－1．30 P．M．：Guy＇s ；St．Barthelo－ mew＇s（Ophthalmic Department）；St．Marys ：Royal Westmin－ ster Ophthalmic．－2 P．M．：Westminster；St．Mark＇s ；Central London Ophthalmic．－2．30 p．M．；West London；Cancer Hospital， Brompton．-4 P．M．：St．Thomas＇s（Ophthalmic Department）．； 10 A．M．：National Orthopadic．－ 10.30 A．M．；Royal London Ophthalmic．－I P．M．：Middlesex．－1．30p．M．St．Bartholomew＇s， St．Thomas＇s ；Royal Westminster Ophthalmic．－2 P．M． London：University College；Westminster：Great Nerthern Central；Central Loaden Ophthalmic．－－2．30 p．m．：Samaritan Free Hospital for Women and Children ；St．Peter＇s．-3 to 4 P．M．：King＇s College．
THURSDAX ．．．．．．． 10.30 A．M．：lloyal London Ophthalmic．－1 P．M．：St．Gearge＇s －1．30 p．s．：St．Bartholomew＇s（Ophthalmic Department） Guy＇s（Ophthalmic Department）；Royal Westminster Ophthal－ mic．－2 p．M．：Charing Cress；Lendon；Central Lendon Oph－ thalnic；1Iospital for Diseases of the Throat；Hospital for Women．－2．30 P．M．：North－llest Londoa；Chelsea Hesnital for Women． 9.30 P．3r．：Aorth－trest Londoa；Chelsea Hesnitallor 9 A．M．：St．Mary＇s（Ophthalmic Department）．-10.30 A．3F．
Royal Londen Ophthalmic．－1．15 p．M．：St．George＇s（Ophthal mic Department）．-1.30 P．M．；Guy＇s；Royal Westminster Oph－ thalmic．－2 p．3r．：King＇s College；St．Thomas＇s（Ophthalmic Department）：Central Landen Ophthalmic；Royal South Londen Ophthalmic；East London Hospital for Children． 2.30 P．s．；West Londen．

9 A．s．：Rnyal Free－ 10.30 A．Mr．：Royal London Ophthalmio． p．an：kings College．－1．00 P．．．． Thoonas s；Reyza Westminster Ophthalmic．－2 P．M．：Charing Cross：London；Middlesex；Royal Free；Central Londen Ophthalnic．－2．30 P．M．：Cancer Hespital，Brompton．

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS．

Charivg Cross．－Medical and Surgical，daily，1；Obstetric，Tu．F．，1．30；Shin， M．Th．1．30：Dental，M．W．F．，
Gur＇s．－Medical and Surgical，daily， 1.30 ；Obsfetric，M．Tu．F．，1．30；Fye，M．Tu． Th．F．， 1.30 ；Ear，Tu．F．． 12.30 ：Skin，Tu．， 12.30 ；Dental，Tu．Th．F．， 12.
Kug＇s Corisege．－Medical，daily， 2 ；Surgical，daily， 1.30 ；Obstetric，Tu．Th．S． 2；o．p．，M．W．F． 12.30 ；Eye，M．Th．，1；Ophthalmic Department，W．， 1 ： Ear，Th．，2；Skin，Th．；Throat，Th．，3；Dental，Tu．F．， 10.
Lompos，－Medical，daily，exc．S．， 2 ；Surgical，daily， 1.30 and 2 ；Obstetric，M．Th． 1．30：o．p．W．S．， 1.30 ；Eye，W．＇S．， 9 ；Ear，S．， 9.30 ；Skin，Th．， 9 ；Dental，Tu．，9 Middlesex．－Medical and Surgical，daily， 1 ；Ohstetric，Tu．F．， 1.30 ；o．p．，W．S． 1.30 ；Eye，W．S．， 8.30 ：Ear and Throat，Tu．， 9 ；Skin，Tu．， 4 ；Dental，daily， 9 St．Bartuolonew＇s．－Medical and Surgical daily， $1.30^{\text {；}}$ ：Obstetric，Tu．Th．S．， 2 o．p．，W．S．， 9 ：Eye，Tu，Th．S．，2．30；Ear，Tu．F．， 2 ；Skin，F．， 1.30 ；Larynx，F．，
2.30 ；Ortheperdie，M．， 3.30 ；Dental Tu．F．， 2．30；Orthepadic，M．，2．30；Dental．Tu．F．，
St．George＇s．－Medical and Surgical，M．T．F．S．，1；Ohsfetric，Tu．S．， $1 ;$ o．p．，
Tu．，2；Eye，W．S． 2 Far，Tu．， 2 ；Skin，W．， 2 ；Throat，Th．， 2 ；Orthopædic，W， 2；Dental，Tu．，S．，9，Thı， 1.
St，Mary＇s．－Medical and Surgical，daily，1．45；Obstetric，Tu．F．，1．45；o．p．，M． Th．， 1.30 ；Eye，Tu．F．S．， 9 ；Lar，M．Th．， 3 ；Throat，Tu．F．， 1.30 ；Skin，M．Th．， 9．30；Electrician，Tu．F．，2；Dental，W．S．，9．30；Consultations，M．， 2.30 ； Operatlons，Tu．． 1.30 ；Ophthalmic Operations，F．，
t．Themas＇s．－Medical aud Surgical，daily，except Sat．，2；Obstetric，M．Th．，2； Skin，W．，12．30：Threat，Tu．F．， 1.30 ：Children St Sat．， 1.30 ：Ear，M．，12．30； Civinersity Coliege．－Medical and Surgical，daily， 1 to 2；Obstetrice，Mi．Tu． Th．${ }^{\circ} \mathrm{F}^{2}, 1.30$ ：Eye，M．Tu．Th，F．， 2 ；Ear，S．， 1.30 ；Skia，W，1．45，S． 9.15 ； Whroat，Th． 2.30 ：Dental，W．， 10.30 ，daily， 1.30 ；Obstctric，Tu．F．， 3 ；Ese： M．Th．，2．30；Lar，M．，9；Skin，Th．，1；Dental，W，S．， 9.15.

## LETTERS，NOTES，AND ANSWERS TO CORRESPONDENTS．

Commurications respecting editorial matters should be addressed to the Editor， 429．Strand，W．C．London；those concerning business matters，non－delirery of the Journal，etc．，should be addressed to the Manager，at the Office， 429, Strand，W．C．，Londen．
In order th avoiul delay，it is particularly requested that all letters on the editerial business of thie Jouriai．be addressed to the Editorat the office of the
UTHORS desiring reprints of atheir
AuThors desiring reprints of their articles published in the Britisir Menical SuUrnal．are requested to communicate beforchand with the Manager，429， Strantl，W．C
Corresponneyts who wish notice to be faken of their communications，should aut henticate them with their names－of course not necessarily for publication． Conrasponderts not，answered are requested to look to the Notices to Corre－ epondents of the following week．
Maniugctipts fobwarned to the：Office of this Journal cannot inder ant
Circumstances be maturxisd．
of Ifenlti if they will，on forwarding the be much obliged to Medical Officers us with Duplicate Copies．

## QUERIES．

Coustry Member asks where to purchase a cheap conch or chair－couch suitablo for ordinary fynæcological necessities such as one has to attend to in one＇s own aurgery．

ExcilinPTC：Lotion．
M．B．wishes to know what formula is generally used in the preparation of euca－ igptus lotion for surgical dressings．
＊＊Oil ef euealyptus is oaly used，so far as we are aware，In．various forms as a dressiog ；it is net employed in the form of a lotion．
．V．writes ：Ts cider driakiag benfficial or otherwise in cases of a gouts lescription？More particularly，does it tend to produce or to prevent the formation of stone in the bladder？er does it have no effect cither way？

Climate for Haf Fitfer．
M．D．，who has not been able to find the desired ioformatiou in books，wishes 10 liear of the best localities inland，both in this country and abroand，for imva－ lids who wish to avoid the cold east winds of spring，and the hot weather and especially attacks of hay fever－in June and July．

## Night Blixnyess

Charles i Cotrt writes：The Cologne Garette．in describing some night manourres which recently took plare in Russia．statetl that much cell fusion arose owing to the large number of men in the ranks affleteal with ＂huhnerblindheit＂－that is，literally，＂hen－blindness＂－and it further ascribed the frequency of this affection，which preventer men（rom secin！ anything on a moderately dark night，to the inlerior diet of the lussinn leasant class．Can you oblige me with any explanation of this curious statement？
＊＊Swanzy and other authorities belicre that defectire nutrition plays ban important part in rendering patients liable te nyctalopia，or night－blindness． Nyctalopia is a constant symptom in syphilitic retinitis，even when hereditary and in retinitis pigmentosa．It may accompany scursy．

## ANSWERES

Dubirass might consult Dr．De Watteville＇s Practical Introduction io Medical Electricity，secend edition．

M．R．C．S．shonld communicate with the Clerk to the Society of Apothecarjes， Apothecaries＇Hall，Blackfriars，E．C．

## NOTES，LETTERA，ETC：

Surgenx－Major S．Smith，W．C．E．，M．V．I．，F．A．S．，M．S．A．．etc．，intorms ue that he was unanimously elected a Vice－President of the Association of Mcm bers of the Royal College of Surgeons at its last meeting．

## An Appeal．

 neway，N．B．，died suddenly of an attach of apoplexy in July，lisu．leaving a widew and four young children wholly anprorided for．Mra．McIlonald＇s health had broken down some time before her husband＇s death，owing to a slight hemiplegic attack，after which she never quite regaiued the use of her right haud．But，throught the help of her sister，she has beeu able to do a little towards her own and her family＇s support by keeping lodgers in a rented house in Stornoway．Nlowever，there is reasen to believe that of late she has been in very straitened circumstances；aud，as if to crown her mis fortunes，her only son，the eldest of the canily，a fine promisiug boy of 10 years，was cnt down abeut two menths ago by an at tack of measles．
Mr．MeDonald was highly respected as a conscientious and painstaking practitioner，whe never spared hinself in the interests of his numerous but poor patients；and it is to be hoped that the members of the medical profes－ sion，and others as well，will respond liberally to this appeal ou behall of his helpless widow and three orphan girls．Subscriptions will be gratefulty received and ackmowledged either by C．M．Mchae，M．D．，Storuoway，N．B． or by R．Mess，L．1k．C．P．and S．Eत．，Barvas，Stornoway，N． $\mathbf{B}$.

The Titife of Dr．
L．R．C．P．En．Writes：In answer to＂Anxious One．＂in the Jocrsal of February 11th，you say：＂The Ediuburgh Cellege of Phrsicians have discouraged all the Fellows，Members，and Licentlates irom using the title of Dr．＂I shonld like to say that this answer，tbourh correct as far as relates to the last ten years or se，is not correct as regards licentiates admitted prior to $1 \leq i 0$ ．

Farly Mexstritation．
Dr．W．F．Siffard，Medical Ohicer to the l＇uthey District，writes：The follow－ ing case of youthful precocity is now under my care．M．S．was born in August， 1 sas．The catamenia appeared last August（Lくロア），and she has con－ tinned regular pyery month since．She is a dark，swartly chiki，of small size for her age，but with a large heand，and she has hat fairl gomel healeh，with the exception of a severe attack of acute rlemuatism．Her father is a cab－ nuan，who suffers much from rheumatoid arthritis，and ler mother is a strong healthy woman．
Dr．C．J，IK．Maclfay（ Xeadon）writes ：I see a correspondent last week writes， stating saccharin to liave produced some nawsea ado persistent y－remaning sweet taste，and suggesting that the cause might he that some of the saccharin is excerted with the snlira．I have at present a patieut who has taken sacelatin tableids instead of sugar for hls breakfast and tea，and also fo：sweeten aerated waters，for a space of three months with scarcely an intermission，and with out experiencing auy nausea or after－effect whitever．I would here state， however，that some of the cheaper specimens of saccharin which I have tried
doleare a taste for some time, hut that those supplied liy Aesors. Burroughe, Willenme and Co, are very jure, and enusr mo atpleasaint or ill "ffect after a liree months' trial.

Mesara. Derroverns, Wellonme ivn Ca. write: In the lelfor of Dr. Ilealley on Sacharin, hat the Jounai, of February Itth, he sajs that his jntient eompinimet of "so ahtinmally sweet taser always in the mouth." after about twelve or fifeecn doses hat been given. In this case a somewhat large dose may haw hrest miminluterect. Individuals differ sn math is regary to the
 ing the enormons aweetentag power of sureharin-imparting ass it doms its
 sugersts that fit matuy cases thaminhmum amouth that will answer the pur


Manohiag. Portraita of Dr. Whison Fox.
(Fuurth liat of Sulserigitions.)

The Marehloness of Exeter Sir W. Hoberts. Manchester 3) r . Allichin, Loniton
C. Brablles. Nottingham 15. Chevere, Jonulons W. R. Cbeyne, Loomen J. Dumlap J. Dumbry Fisston, Jonito Wr. J. F. Fox, Fottingham A. F. Genli, Loniun A. F. Genhi, Lnthtur l'mirs ador Gre
G. A. Ibletsum, Norweot.

Dr. Talfourd Jones, Jast-
Burne
J. J. Merrmain, Lomiton : fi. Mnekenzte, funton Miss Auna S. Metcalfe, liradou Mas Fanny M̈ctcalfe, Heãcion
Sidney Parsons, Loudon Dibr. Primetley, london 1)r. W. Iriere, Cardift freorge linssell, Dondon 3゙, W. Salzmann, Drightö - For the Replicas.

Fur the College of Ihysklama Replica.
For the ["niversity College It T. Bablovs, M.D., nul W, II. Cowtrs, M.D., IInaomry Seeretaries.
shitx Nigra.
Dr. J. Hutcriman (Glagnew) writis: Siace the intraluction of the fluid extrant of salix nignt lnto modicine, its use as figerlative has been attembed with a conshirmble armont of suereas. 1 think it muly right, however, to lsanc a worl of warniog to those whonare prescribing the drug to make sure that the proparation they are usiog is mate from pure salix nigra bark. I am told that a parcel of spurions bark has been solif in hendon bitely, and it is the frar that a thuil ext ract made froos this jarest may find lis way into the hatods of the profesalon. and on injone the risimg repulaton of the drug. that hatads of the grofnsalno. and so injure the ralix nigrmbark is is pinces rarying in size rough, and of a grevish browa colour externally, with ureas of light in size, rough, Aned a greyish browa eolour externaly, wown hat rolour. It
 casty apllis loogtmelimatty, lins a fibrons fratture, and a hitier and shightiy astringent taste. The false mark is totally linlike it. being without nuter hark, and of the same colour in both surfaces is without bitterness and very astringent, stmagly reaembliog elom bark.

## 

 of 3)r. Vinlas as the the value of mercurlal permidides, compared with the wearisome and painful astringent fratment by nitrate of siver.
I use the biniondifle of mervary in solution of sollinm iodifle. and preseribe

 the everted lids.
The nurse I supply with a hottle of the amme lotion, of haif that atrength. for impphag fate the evers three times a day, and with a hox of vaseline to amear the eyelashes, fin oriler to prevent nt inking of the lish. lis four days all

 the sulphave of zinenof the sirength of two graisu to the ounce. The smene in simorrhwas.
COMMIVNCATIONS, TI:TLERS, ete., have heen recelved from
1)r. If. J. Watta, Mrminghan ; Mesars. J. Pourat avd Co., Jondon: Mr. Strel, Lanton; Surgon TV. J. Colloroe, Jortamoulli; Dr. J. W. Mnore, 1)ublin: Mr. WV. Howarl, Loudon; Mr. L. JEastwond, Dạlington; Mr. IR. Jinghes. Jsala; Mr. J. Okell, Lelewter; Mr. J3. Macleoghlis, Wigan; Mr. E. Mall, Sonthport; Dr. Clurton. Wewede Dr. Wige, Manhester: Dr. Myors, Jomilon; Ir. S. Smythi, London; Mr. T. F. Perliey, Ilangoon; 1)r. W. Sykes, 3seximrougla: Dr. C. M. MacRac. Stornoway, N.M.; Dr. Chatellier, Paris: Dr. Camplyll Clark. Bothwell ; Mr. T. A. Mithell, Catford; R. C. Pricatley.
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## REPORT ON INQUIRY No. III.

ACUTE RHEUMATISM.
Prepared by TIIOMAS..WHIPIIAM, M.E., F.R.C.l., Physician to St. George's Hospital.

The invitation to the medical practitioners of the United Kingdom to furnish reports of dases of rheumatism which had come under thëir obsermation was issued by the Collective Investigation Committee of the British Medical Ässociation on April 22nd, 1882, and the last report came to hand on June 5th, 1836 . The result has been that obserrations on " 655 cases hare been sent to the Committee for comparison and analysis. It will be at once agreed that such a number of cases, recorded more or less in detail, is extremely creditable, when the arduous labours and the scanty leisure at the disposal of busy conntry practitioners (most of whom supply these records) are taken into consideration. It shows, moreorer, how great is the interest which such men take in the adrancement of the science of their profession.

The recorded cases have been considered for the most part in the order following:-I. Sex ; 2, Age; 3. Occupation; 4. Habits; 5. Food; 6. Locality and Atmosphere ; 7. Previous Illnesses; 8. Hecent Antecedents; 9. Severity and Sweating; 10. Influence of Treatment on Duration of -a. Fever, b. Pain, c. the whole Attack; 11. Extent of the Joint-Affection ; 12. Complications; 13. Relapsing Cases; lł. Deaths; 15. Skin Eruptions; 16. Subcutaneous Nodules; 17. Common Ailments; 18. Sequele.

## SEX.

Of the 655 cases, 375 , or 57.25 per cent., were males; 279 , or 42.59 per cent., were females. In one case (133) the sex is not mentioned.
The difference in the numbers is not great, and it may be accoutned for by the greater exposure to weather, etc, which the occupations of men entail upon them ; added to which is the fact that men are, as a rule, more addicted to the consumption of beer and other forms of alcohol, which, though not perhaps an actual cause of rheumatism, certainly increases the liability to it in those who have once suffered from the disease.

## Age.

Of the whole number (655) of cases recorded, the ages of 6 males and 1 female are not mentioned, leaving a total of 647 , or 369 males and 278 females, in which to calculate the average age in which the rheumatic attack occurred, including No. 133, in which the sex is omitted. The figures come ont as follows:-In 369 males the average age of rheumatic attack, 26.55 . In 278 females the average age of rheumatic attack, 23.82 . Arerage age of the 647 cases, 25.33 . Thus it is evident that the age difference between the two seres, so far as the age of incidence is concerned, amounts practically to nothing.
Arranged in decades, the cases give the following result.


## 655

1t will be seen from the abowe that by far the greater number of cases occurred between the ages of 30 and 40 -namely, 80.94 per eent.; that is, males 45.93 per cent., females 34.96 per cent.

The greatest proportion in any ono decade was between 20 and 30 -namely, males 38.74 per cent., females 30.07 per cent. This is probably in accordance with general experience.

## Cases occurring at Exceptional Agps, 1.-In Persons of Advanced Age.

Under this head five cases require especial notice, namely:
No. It (R. W. Barrow, Lirerpool). Female, aged 66, married; third attack, the first occurred at the age of 33 . Temperate habits and sufficiently fed. Locality, high, dry, and exposed; atmosphere wet and cold, with S.E. wind. Had previously suffered from sunstroke, glaucoma, and cardiac dropsy. The determining cause was attributed to over fatigue. Attack moderate in severity, with slight sweating. Duration of the fever and, pain were 5 days and 8 days respectively; and the whole attack lasted 9 days. Many joints were affected; the pains migratory. Mitral systolic murmur of old standing; the apex heing half an inch external to the nipple. The patient suffered frequently from urticaria and sick headaches. Recovery was complete.

No. 146 (J. W. Martin, M.D., Sheffield). Male, aged 63, a weighman, of temperate habits and sufficiently fed. Lacality, low, dry and confined; atmosphere, wet and cold; wind N.E. Ile had had no previous illness, and the attack was attributed to exposure. It was a severe attack, with considerable sweating. Duration of ferer and pain 20 days respectirely, and the whole attack 26 days. Pains migratory, affecting many joints. No cardiac affection, and no previous rheumatic attacks. Pecorery complete. No. 153 (Thomas Fuller, M.D., New Shoreham). Male, aged 62, wheelwright, of temperate habits and sufficiently fed. Locality, high, dry and exposed; atmosphere, dry and mild, wind S.W. He had had no pretious illness. The attack was a severe one, with considerable sweating. Duration of fever and pain 2 days respectirely, and of the Thole attack 21 days. Many joints affected; no record of any cardiac affection; third attack. Recovery complete. A relapse occurred 18 days after convalescence, and lasted 12 days, yielding to same treatment; namely, sodium salicylate.
No. 281 (E. A. Gibson, M.D., Edinburgh). Female, aged 63, widow, of temperate habits and sufficiently fed. Locality, high, dry and exposed; atmosphere, dry, cold, changeable; wind E. There had been no previous illness; the attack was ascribed to exposure to cold on the previous day. Attack severe, with considerable swelling. Duration of ferer and pain 30 days and 5 days respectively, and of the whole attack 30 days. The museles only were affected, and severely. She died of meningitis, there being no evidence of previous cardiac disease. No previens rheumatism. The case tras complicated by pericarditis, and threatened pneumonia of the left lung.

No. 367 (T. II. Morehead, M.D., Cootehill, Caran). Male. aged 80, farmer, of temperate hahits and sufficiently fed. Locality, low, damp, confiued; atmosphere, wet and cold; wind S.W. So previous illness. Tonsillitis was a recent antecedent, and the attack was attributed to exposure to wet and cold. It was a severe one. accompanied by night sweating. Duration of ferer and pain 12 days respectively, and of the whole attack 43 days. Many joints were affected, and the pains were migratory. There was no cardiac affection; it was the first attack of rheumatism. Relapses occurred at intervals of 2 or 3 weeks. Recorery was complete.
The most remarkable of these five cases is the last, in which a first attack of rhemmatic ferer eccurred at the age of 80 , the attack being one of great severity. In this case recovery was complete. In a severe first attack, however, in another case (281). a woman of 68 , death occurred after 30 days' illness. In'a third case (143) a first attack occurred in a male aged 63.

## 2.-In Young Children. Eight Cases.

No. 13 (C. M. 1Yill, M.D., Islington). Male, aged 3; insufficiently fed... Locality, high, dry, and confined; atmosphere, wet and changeable; wind S.W. The attack was attributed to exposure to colnl. 3 days previonsly; it was mild, but attended by considerable sweating. Duration of the fever was 7 days; of pain $t$ days : and of the whole attack $S$ days. Few joints were affected; the pains were fixed; the child was liable to tonsillitis and bronchitis. Recovery was complete. A mitral murmur became andible during the attack, but afterwards was inaudible, the aper beating in the fifth space.
Yo. 109 (S. C. Smitlı, M1.D. IIalifna). Male, aged 6: sufficiently fed. Locality, low, damp, and confined; atmosphere, wet and cold. The patient had scarlatina just before. Attack a noderate one, with considerable sweating, lasting about 5 weeks. Many
joints were affected; the pains were migratory. There was a sys:tolic mitral murmur developed durivg the attack. No previous rheumatism. Rexovery partial.
No. 245 (J. T. Collin, M.D., Lincoln). Male, aged 4 ; sufliciently feve. Locality, high, dry', and exposed: atmosphure, wot and cold: winl N.E. Hal mensles 2 years previously. Attack ascribed to erposure to. culd 3 days before; it was n moderate one, but nittended by considersble sweating. Duration of. ferer and prin 21 days and 14 days respectively; and of the whole attack 21 daya. Few joints affocted; pains migratory. No previous rheuinatism. 1/eath from pericardial effusion and exliaustion.
No. 450 (Edwin Jackson, Whalley liange, Manchester). Female, agral 5 咏; sufliciently fed. ' Locality, dry and flat: stmosphere, wet and cold; wind W. Whoopiag-cough at 43. The attack was attriluted to exposure to wet two dayspreviously: it wis a moderate une, attended by slight sweating. Duration of fever and pain 8 duys and 6 days respectivelv, and of the whole attack 8 days. Many joints were inrolved. There was no cardiae complication, and no nitecedent rheumatism. Recovery was complete.
No. 511 (D. J. Maekenzio, M.D , Glossop). Mnle, aged 5 ; sufficiently fed. Locality, low, damp, confined ; amosphere, dry, hot sun. Llad mensles six weeks before: altack attributed to exposure to wet and cold three days previously; it was a mild one, with slight sweating. Duration of fever and pain 6 days and 5 days respectivels: and of the wholo attack 6 days. Fow joints were affected; the pains being fixol.. Both pericarditis and endocarditis (mitral regurgitation) occurred during the attack, which was further complicated by bronchitis. No previous rheumstism. Recovery complete.

No. 58 (D. J. Mackenzie, M.D., Glossop). Male, aged 4; sufficiently fed. Locality, high, dry, exposed: ntmosphere, wet and cold; wind W. Slight ehorea 10 days previously. The attack wns moderate, with very slight sweating. Diration of fever and pain 8 days and 12 days respectively; and of the whole attack 12 dass. Few joints were affected; the phins were fixed. A systolic apical bruit was developed. The child was snbject to catairch and convulsions, but had had no previous rlleumatism. / . $\boldsymbol{\text { 'thread-worm }}$ was said to have been expelled by santonin before the child came under ohservatiun. Recovery was complete.
No. 620 (J. Mackenzie Booth, M.D., Aberdeen). Male, aged 4 : sulficiently fed. Locality, lotw, damp, confined; atmospliere, wet; wind $\mathbf{E}$. There had been marked anæmia for some weeks. The attack was attrilhatable to exposure to wet and cold,'with overfatigue 2 days pretiously; it was a severe onc, with slight sweating. Inuration of fever and pain 6 days respectively, and of the whole attack 6 days.: Many joints were involved; the pains were fixect. There was an apical systolic murnur, and the disease was complicaterl by conjunctivitis and keratitis. No. previous rhenmatism. Bronchitis supervened 2 days after convalescence became established. Jecovery was complete.
No. Gi27 (C. P..Coumbs, A.D., Castle Cary). Male, aged 6; sufficimutly fed. Locality, dry, confined; atmospbere, dry, cold clungeable; wind 1\%. The attack was severe, with slight'sweating. Duration of fever 17 days, and of the whole attack till denth about 40 days. Pericarditis was developed, and tho disease was complicated by chorea of one arm and aphnsia ; then by indications of spinal meningitis. Denth was the result of cmbolism. The chitd had previously suffered from three or four attacks of sulacute rheumatiem; the first at the age of 5 .

Occupation.
The nceupation of the patients who were the subjects of the roord are varied, and are as follows.

| Womestic servants 71 | Colliers |
| :---: | :---: |
| schonl children ... 83 | Tailors |
| Narried women ... 46 | Masons |
| Jabourers ........ 24 | Soldicrs |
| Clerks .............. 21 | Iron workers |
| Agricultural labourers $\qquad$ | Catcon hands Fingine drivers |
| Finrraers ........... 13 | Carpenters |
| shopmen ........... 13 | Wagioners |
| At home (females | Nurses |
| chiefty)........... 13 | Governesses. |
| lnnkeepers ........ 13 | Coachmen |
| Factory hmuls ... 11 | Lamindresses |
| (irocers.............. 10 | Placksmiths |
| Mudical practi- | Garden |
| tioners | Dressmakera |

Lioners ............ 9 Dressmakers

Quarrymen
Gasfitters.
Fruiterers
Dairymen.
Whitesmiths ........
Charwomen
Maltsters
Warehousemen
l'aper mill, hands Conpers................ ${ }^{2}$ Various trades
rolice constables 2 l'ostrinen
Telegraph messen-
Tube ..............
Tube makers :......
Solicitor
Oilman
Railway perter ...
Screver ............... 1
Postmaster .........
Cutler .............
Machine maker ...
Filler
Brick carter.........
Traveller., with
steam engine ..
Gunner..............
Intirmary matron 1
Pupil teacher ...... 1



Circus tent maker 1 Circus tent maker Barmaid Oper air rursers c..........
Milk carrier.
Cabinet designer.
l'rinter
Fisherman
Prostitute
Bookseller leformatory boy
Literary
Pupil in colliery
Vice maker
Builder........... Laco darner Stono printer
Boot tip stamper. Bookkeeper
Skin dresser Potter
Card room hand . Message boy Ship chander Upholsterer ........... Analytieal chemist

Inspection of the above list at first sight appears to negative the explamation advanced above, of the difference: between the numbers of males and females in the tables, namely, that the exposure necessarily entaited on men by the nature of their occupation is a cause of their being mere frequently the subjects of rheumatism. It' must, however, be remembered that the cases reported are simply those which different merlical practitiomers hate been able to record during tho time allorred them for furnishing the results of their experience. They are by no means to be received as a record of the prevalence of rheumatism in various trades or occupations. If it were; commen experience would lead one ratlee to place such occupations as sailors; soldiers, brewers, bricklayers, coachmen, ealmen, police constables at the head of the list. It cannot be denied, however, that the number of doanestie servants (71) is a remarkable occurrence. This may be partly accomnted for by the inordinate consumption of alcoholic drinks-especially heer-and meat to which persons in that station of life are addicted. 'To this mny be added want of proper exercise, with its consequent accumulation of nitrogenous compounds in the tissues.

One important omission must be noted in the tables, namely, sin inquiry as to any hereditary tendency to rheumatism. Had this bern a vailable for analysis, it might havenfforded an explanntion of the great number of ehildren (63) which comes second on the list.

Class in Soctety.
Insterd of grouping the cases in the different classes, namely, upper, middle, and lower, it has been deemed preferable to give the list in full, as showing more accurately the class to which the majority belong. 'It will be seen at a glance that the lower greatly preponderates over the middle and upper classes.
lis bits.
In calculating the numbers given in the tables under the three heads-temperate, intemperate, and total abstainers, it was thought well to group separately children under 14 years of age who wire under close supervision either at home or at school. Such young persons who were engnged in any occupation which necessarily removel them from the supervision of the purents or school teachers, when not under 14 years of age, hnve been placed among the adults in the class to which they belong. There are, therefore, fri7 cases to be dealt with inder this head, excluding those in which no mention of the habit is made, namely :-

" In"order to trace the effects of habits in acute rheumatism, it will be neeessary to make an analysis of the tables, and by so doing the following results come ont:-

Totar:'Abstainers' (including Children).


I'revious attacks of rheumatism occurred in totas abstainers in
Males $\quad . \quad 19$ or 27.53 per cent.
Females … $29,36.25$
Arerage age of previons attack:-..."
Males $\quad . . \quad 16.26$
$\begin{array}{lll}\text { Females } & \text {... } & 16.41\end{array}$
Average number of previous attacks:-
Males ( 69 eases) $\quad \therefore \quad 0.56$ (exelusive of Nos. 353 and 469 , in which no mention is made)
Fcmales ( 80 cases) $\cdots+0.60$ (exclusive of Nos. 53 and 205, in which no mention is made)
Average duration of fever:-
Males (64 cases)
11.59 days (no data in 5 cases)

Females ( 77 cases)
10.37 days (no data in 3 eases)

Average duration of pain:-
Males ( 61 cases) $\quad . . \quad 11.31$ days (no data in 8 cases)
Females ( 76 eases) ... 12.22 days (no data in 4 eases)
Arerage duration of whole attack:-
Males ( 60 eases) $\quad \therefore \quad \therefore 7.26$ days (no data in 9 cases)
Females (70cases) ... 38.08 days (no data in 10 eases)
Males

## Deaths.

Females $\ldots \quad 3$ (excluding No. 112, in whieh death occurred from enteric fever)

| Males | $\ldots$ | 5.79 per cent. |
| :--- | :--- | :--- |
| Females | $\ldots$ | 3.75 |

or a total death-rate of. . 4.69 per cent. in total abstainers.
Complete. Recovery.
Males, .. 54 cases or 83.63 per cent. ... 10 cases or 15.15 per cent. Females ... 51 cases ., 63.75 ... 25 cases „, 31.25
(Excluding No. 255 , female, in which the result is not stated). Occurrence of Hcart Affection in Total Abstainers.


Percentage of recent heart disease that is, occurring during the present attack:-

Males ( 68 cases
mentioned) ! -... 1 . 54.41 per cent. (No. 259 not mentioned)
Females ( 78 eases) 337 not mentioned).
Males Temperate (inclurling Children).
Females
$102,29.31$
Total
$464,70.83$
Average age :

(Exeluding No. 579, F., in which the age is not mentioned.) Previous attacks of rhenmatism oceurred in temperate pernons
Males
127 eases or 46.69 per cent.
Females
83 " 43.22

Average age of previous attack:
Males (118 eases) .. ... 17.5 (age not stated in 9 cases
Females (83 cases) 17.59

Average number of previous attacks:
Males (exeluding Nos. 22, 83, and 373, in which the number is not stated
Females (excluding Nos. 202, 239, 204, 403 and 614, in which the number is not stated)
A verage duration of fever:

Males (253 cases)
Females ( 184 cases) .
Average duration of pain Males (252 eases)
Females ( 176 cases)
11.37 days (no data in 19 cases 1

14:25 days (no data in 20 cases)
13:38 ", „ 16

Average duration of whole attack:
$\begin{array}{lll}\text { Males ( } 256 \text { eases) } & \cdots, & \ldots \\ \text { Females ( } 176 \text { cases) } & \ldots & -24.37 \text { days (no data in } 16, ~ c a t s+s) \\ 16,\end{array}$ Deaths.
Males ... 6 or 2.20 per cent.
Females ... / 4 ., 2.07
or a total death-rate of 2.15 " per, cent. in temperate persons.
Complete. Recovery.
Males ... 201 cases-or 73.89 per cent. 61 Partial.
Females $133 \quad 69.27$. 61 eases or 24 per cent.
(Exclusive of Nos. $65,151,249,579$, males, in which the resnlt is not mentioned.)
(Exclusive of Nos. 81, 150, 322, 567, females, in which the result is not mentioned.)

Oceurrence of Heart - Affection in Temperate Persons.


| lironcit forward | ..121 | 94 | 21.5 |
| :---: | :---: | :---: | :---: |
| Murmur at base... ... | $\cdots$. | - | 1 |
| Aurtie inld) | ... 1 | 1 | $\underline{1}$ |
| Murmur (old) | ... 1 |  | 1 |
| $\therefore$ Murnur amel antic systolic " (old) | ... 1 | 4 | 1 |
| Harnic... ... ... ... | ... - | 4 | 4 |
| 1'ericarditis and aortic olstructive | ... | 4 | 4 |
| Findocarditis (old) ... | ... - | $\stackrel{3}{6}$ | 3 |
| Pericarditio anl endocarditis | ... | $\frac{2}{1}$ | 2 |
| Pressstolic and mitral systolic | ... | 1 |  |
| Mitral sumosis (oht) ... |  | 1 | - |
| Pericarditis and mitral systolic (nld) |  | 1 |  |
| "d'ericarditis, aortio and mitral" (old) |  | 1 |  |
| lulmonary murnure ... ... |  | 1 | 1 |
| l'ulmonary syatolic |  | 1 | 1 |
| Aortic recurgitant |  | 1 | 1 |
| Pindocarclitis ... |  | 1 | 1 |
|  | 125 | 117 | 242 |

l'ercentage of recent heart disease, that is, occurring during frement attuek:
Males (2ill rases)
... 40.9 per cent. (No. 570 not mentioned)
I'males ( 102 cases)

## Intemperate.

Hales ... $3 \div \frac{2}{2}$ or 4.76 per cent.


Age not mentionerl in No. 62 (mate).

|  | bercentage of | Average Agc. | Perrentage of l'revious Attacks. |  | Average Age at which Previously Attacked. |  | Average Number of Persons Attacked. |  | Average Duration in days of |  |  |  |  |  | Perrentage of Deathas. |  | Reoovery per cent. |  |  |  | Percentag of Recent Ifeart Affections. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Fev |  |  |  |  |  |  |  | Com | tete. |  |  | Parl |  |  |
| Tevelatallees | Males Fiem. 10.6312 .21 | Wales Fem.$18.86 \quad 18.17$ | Males Fens.$2: 53$36.25 |  |  |  | Males Fem. $16.28 \quad 16.21$ |  | Males Fenn.0.560 .60 |  | $\begin{aligned} & \text { Males } \\ & 11.59 \end{aligned}$ | $\begin{aligned} & \text { Fem. } \\ & 10.37 \end{aligned}$ | Males Fem. <br> 11.31. 12.22 |  | Males Ficm. $\begin{array}{lll}27.26 & 38.08\end{array}$ |  | $\begin{array}{cc} \hline \text { Males } & \text { Fem. } \\ 5.99 & 3.54 \end{array}$ |  | $\begin{aligned} & \text { Males Fens. } \\ & 83.6363 .75 \end{aligned}$ |  | Males Fem.15.1531 .25 |  | $\begin{aligned} & \text { Males Fem } \\ & \text { P5 } 5.4154 .3 .58 \end{aligned}$ |
|  |  |  |  |  | 0.56 | $0.6 u$ |  |  | 11.59 |  |  |  |  |  |  | $3.0{ }^{-}$ |  | 69.27 |  | 26.56 | 110.58 49.4: |
| Ternprato | 41.52 29.31 | 27.4020 .57 | $49.6{ }^{12}+4.32$ |  | 17.70 17.58 |  | 2.19 | 3.11 | 11.37 | 12.10 | $14.23 \quad 13.38$ |  | 25.3724 .23 |  | $3.20 \quad 2.07$ |  | 73.89 69.27 |  | 29.3420 .56 |  | 110.58 49.4\% |
| Inta-mjerate | $4.76 \quad 0.30$ | 33.7131 .00 | 18.38 | * | 21.85 | 21.00 | 1.25 | * | 11.05 | 12.50 | 14.46 | 10.00 | 23.60 | 7.00 |  | 0.00 | 53.12 |  | 38.70 |  | 18.87 |

* So data. No. 259; no data. INos. 303,33 ; no data. No. 5 : no data.
l'revious attacks of rheumatism occurred in intemperate persons
in-
Males
12 cases, or 37.5 per cent
Females
$1-$
rerage age of previous attack:
Males (12 cases)
24.85

Females (1 case)
Arerage number of previons attacks:
Males (12 cases) ... 1.25
Females ( 1 ease)
$\frac{1.2}{7}$
Average duration of fever:
Males (30 cases)
11.5 days (no data in 2 crases).

Cemales (" cases)
Average duration of pain :
Males ( 30 cases) $\quad . . \quad 14.46$ days (no data in 2 cases).
Females ( cases) 10
Average duration of whole attack:
Males ( 30 eases) $\quad . . \quad 23.6$ days (no data in 2 cases).
Females (1 case) $\quad \dddot{D}$ eaths. 7 (no data in 1 case).
Males $\quad . . \quad 2$ or 6.89 per cent.
Hemalea … 1 , 50
or a total death rate of $8.8 \%$ per cent. in intemperate persons.
Complete
Partial.
Males ... 17 or 53.12 per cent. 12 or 33.70 per cent.
Females ... 1,50 , 0
Occurrence of Heart Affections' in Intemperate I'ersans.

Females (no data).


Percentage of recent heart disease, that is, occurring during present attack:

Mnles (32 cases)
46.87 per cent.



 fonghe that of temperste: persons: arul. thirily, that the percentage of heare aff
imernpmate nuales.
It was thought advisable to make a brief analyais of the tables in children muler 12 years of, age with the view of eliciting any fants from the information given under the more infortant learlinga.

In thi tables recorils are given of $\overline{\text { on rases of children under the }}$ . 2 mementionel age, namely: males, 25 ; fermales, \#b.

A wrage age, males, 7.12 ; females, 9.15 .
Females.
Tlo altack was severn in: $\quad 8$ ( 33 per cent.) fo ( 23,07 per cent. $)$ moderate ar mild: 16 ( 66 percent.) 20 ( 76.92 jmer cent.)
The joint affection was:


|  | Malmes. | Femalns. |
| :---: | :---: | :---: |
| $\ldots$ | $!$ | 11 |
| $\cdots$ | 9 | 4 |
| $\cdots$ | 4 | 4 |
| $\cdots$ | 2 | 3 |
| $\cdots$ | 1 | 2 |
| $\cdots$ | -7 |  |
|  |  |  |

$$
\begin{aligned}
& \text { Arorage duration (in days) of fever } \\
& \text { Males … } 2 \frac{2}{2} \text { cases ( } 72,109,121 \text { no data) } \quad 10.72 \\
& \text { Females … } 2 \overline{3} \text { " ( } 337
\end{aligned}
$$

Average duration (in days) of pain:

> rage duration (in days) of pain: Males Females $\ldots .21$ cases Fin, $100,466,627$ no data) 11.00 $(337$

Average rluration (in days) of the whole attack:

| Males | ... -4 cases | (121 no data) | ... |  |
| :---: | :---: | :---: | :---: | :---: |
| Females | 25 . | (205 , ) |  | 15.96 |

Femates ... 05 ,. $(205$,..


## Heart affections:



Inspection of the above figures brings out one fact, namely, that the percentage of children in whom the artieular affection was severe and extensive is 36 per cent. in males and 42.30 per cent. in females. This is contrary to the received opinion, but the discrepancy mayperhaps be accounted for by the small numbers here available. The duration of the fever, pain, and of the whole attack is about the same as in adults of the most approred habits; and this remark applies, generally speaking, to the percentage of complete recoveries. In the percentage of heart affection among males, the excessive liability of children is clearly shown by the figures, namely, 72 per cent. in children, against 54 per cent. in total abstainers, 40 per cent. in temperate males, and 46 per cent. in intemperate males. In the case of females the difference is much less.

## Food.

Apparently but little information is to be gained under this head, the numbers being-

| Food suffieient | $\ldots$ |  | . | $6 \cdot 6$ |
| :---: | :---: | :---: | :---: | :---: |
| , insufficient | $\ldots$ | ... |  | 6.6 |
| ," more than sufficient | .... | $\ldots$ | . | 1 |
| Not stated ... ... | … | ... | ... | 1 |

It is unnecessary therefore to state the proportion of males to females.

Locality.
The numbers come out as follows:-

| High, dry, exposed | ... | 161 | Migh, damp, confined |  |
| :---: | :---: | :---: | :---: | :---: |
| Low, damp, confined | ... | 98 | Lew, confined ... |  |
| High, dry |  | 52 | Low, damp |  |
| Low, damp, exposed |  | 46 | Damp ... |  |
| Low, danp |  | 35 | Dry, confined |  |
| High, damp, exposed |  | 31 | Damp, exposed |  |
| High, exposed | ... | 31 | Low ... ... |  |
| High, dry, confined | ... | 28 | At sea |  |
| Low, dry, confined | ... | 26 | Confined |  |
| Low, dry $\quad .$. | ... | 19 | Damp, confined |  |
| Low, dry, exposed | ... | 18 | Exposed |  |
| High | ... | 14 | Medium |  |
| High, damp |  | 11 | Travelling |  |
| Dry, exposed |  | 10 | Dry, flat | ... |
| Dry |  | 9 | Flat, dry, confined | ... |

This is a somewhat remarkable list. It is a general opinion that rhcumatism is more prevalent in low and damp localitics, and it is certainly surprising that by far the greater number of cases (in 24.92 per cent.) oecurred in a "high, dry, exposed" locality, and that, on the other hand, only two cases out of 646 in which data exist in the tables, occurred in a "damp, confined" locality. It is true that the next number ( 98 cases) occurs under the hending "low, damp, confined," but this is followed by 52 cascs iu a "high and dry", locality; the result of cxamination of the above list being that no facts of real value come out under this head.


Under this lead the numbers come out in accordance with prerailing opinion. By far the greater number $(307$, or 47.66 per cent.), occurred in a wet, damp, cold, and clondy atmosphere.

Previocs Illnesses-Tonsillitis.
In 158 cases, or 24.12 per cent., the patients were the subjects of tonsillitis, and it is worthy of remark that the numbers were the same in the two sexes. namely, 79 , or 12.06 per cent. Again, sorethroat (the exact nature of which is not specified) oecurred in 10 males and 10 females.
Of the 158 cases, 12 males and 15 females were the subject of tonsillitis as a common ailment, that is, the patients were liable to attacks of inflammation of the tonsil apart from any definite manifestation of rheumatism.
Of these cases-
No. 53. Female, aged 17, was attacked with tonsillitis three days after exposure to wet and cold.
No. 435. Male, aged 12. The tonsillitis lasted throughout the: rheumatie attack (twenty-one days), and continued after convalescence was established.
No. 481. Female, aged 28. The attack commenced with tonsillitis.

No. 497. Female, aged 20. Tonsillitis supervened on the thirs day of the rheumatic attack.
No. 604. Male, aged 49. Tonsillitis preceded the rheumatism by six days, and recurred five days after recovery from the rheumatism.

No. 613. Female, aged 30. The patient had three attacks of tonsillitis each followed by acute rheumatism.
With the exception of the above cases specially mentioned, the tonsillitis preceded the rheumatism at variable intervals. Two cases ( 103,494 ) as long as fourteen jears previously; one case (11) five years previously; one case (633) four years previously; one case (517) tonsillitis and scarlet fever three years before; four cases $(107,189,305,516)$ two years before: seren cases (105, 317, $332,438,502,635,647$ ) between one and two years. Of the remainder, tonsillitis occurred at periods varying between twelve months and the actual day of the onset of the rheumatism. In all those cases in which any eause for the tonsillitis or rleumatism is distinctly stated, exposure to met, cold, or orer-fatigue, or all three combined, is given. It is unnecessary therefore to print the exact numbers.

## Scarlet Feter as an Antecedent.

Scarlet fever is mentioned as an antecedent in Ss cases only out of the total number, $6 \overline{5}$, or 13.43 per cent. It is probable, however, that this number' does not represent the actual fact, and that the disease, as an antecedent of rleumatism, is not stated by many reporters, simply because no special inquiry was made as to particular ferers.

Of the 88 cases 43 or 6.41 per cent. were males
45 or 6.71 ", $\quad$ females.
It is not possible, by reason of the seanty data, to draw any conclusions as to the origin of valvular disease of the heart in specific fever other than rheumatism, but the following case may be noted as the only one having any special bearing upon this point.

No. 130 (James Barr, Bolton). Male aged 18; gasfitter. No previous rheumatic affeetion. Patient a total abstainer. lle had measles 10 years and scarlet fever 8 years before the rheumatism. which was apparently induced by aver-fatigue and exposure to wet on the day previons. When the patient came under olservation a systolic aortic and a mitral murmur were heard, and on the termination of the rheumatism at the end of a fortnight, the heart's apex was 1 inch external tc the nipple, showing clearly that the valve disease was of old standing.
In many of the cases of antecedent scarlet fever old valcular discase of the heart is recorded, but in them there had been at least one previous attack of rhenmatism. The above-mentioned case forms the only exception. The incidence of the scarlet fever was, as common experience would show, in the earlier years of life, that is, before 20 .

Measles as an Antecedent.
Measles is recorded in $\because 1$ males or 63.63 per cent.
13 females , 39.39
34 eases in all.
As in scarlet fever, the reports are insuflicient for any definite conclusions, but the following cases are worthy of mention as hearing upen the question of the cansation of heart disease.
No. 1 (Theophilns Trend, M.D.. Southanpton). Male, agell 32; solicitor. llad measles in childhood, followed by rheumatism.

Te had an ont ic murmur (spstolic) when he came under observation, but at the termintion of the attack it had diminished in intensit $y$, und the apex heat wus in its normul position.
No- 1:31 (Lumt's Barr, ${ }^{3}$ Bulton). Mnle, aged 18 : gasitter. diad scarlut fiver \& renty nid nomalos 10 years previomsly. Ife ladanotidyedolic nortic ant mitral murmur, and nt the end of the rheumatic uttack the a pee was 1 inch extermal to the nipple. Ife had hal no previous rheumatism.
INo. $\left.1 \mathbf{N}^{2}\right)$ (C. Nurrioon, Y.D., I.inemln). Female, aged 23, single, a cook. 1101 inphiles 21 yotrs and scarlet fever $\because$ months previously. She had a systolic mormur ohserved during the attack of rheumatism, but it iz not stated whether the murmur existed at theonset of the rhemmatism, or whether it persisted after the convalescence was estublished. She had had no previous rheumatism.
As in tha chse of sparlet fever, the measles occurred in early life, ant before 20 wears of age.

- Btadisles was associateml with senrlet feser as an antecedent in 7 cases, of which Vos $44,103,117,130,275,365,434$ were, males, and $1 . \operatorname{Now}_{0}$ 18:/, was a female. It wans associated with varicella in 1 male (No. 30:): with fonsillitis in 2 males (Nos, 1 and 11), and 1 female (Nos. 502 ): with tonsillitis and pertussis in 1 male (No. 403): with pertusis in' 1 male (No. 420 ), and 3 females' (Nos. 132 , 33?, 574) ; with tonsillitis nnd scarlet fever in 1 female (No. $\mathbf{2 2 9}$ ); with tonsillitis and chorea in 1 male (Nin. 433). In the remaining 15 cases measles was the only anteccdent-mamely, in 8 males and - fomales.


## TYpiroid as an Antrcidest.

-This accurred in 11 cises, of which $6(295,356,389,483,518,612)$ were males, and $5(94,139,357,360,481)$ were females; of these, onteric and sentlet fever were antecedents in 5 cases.
, No. 139. Female, aged 2a, had enteric fever 25 years previously, and searlet fever in childhood; 1 previous rheumatic attack at 19. Not'morhus cordis.

HNot 357 . Fermale, nged 8 , recovered from enteric fever 2 months frnviously to the rheumatism, haring had scarlet'fever 14 months \}efore.: ió presions rhenmatism; no morlus cordis.
'sis. 329 . Mrile, nged 17 , had scarlet fever 8 years previously; the date of the enteric was uncertain. No previous rheumatism: дo morbus cordis.
No. 3en. Vemale, aged 22, had enteric fever, scarlet fever, smallpox, and whoping-congh as antecedents, but the dates of the fivers ar: int stated; I jrevious rheumatic attack at 19 . No morbus corlis:
V̌n 4 l. Feranle, aged 29 , had scarlet fever 19 years previously ; the date of the enteric was unknown; 5 previous rheumatic attacks. Old morbus cordis.
So. Sls. Male, aged 20 , had enteric ferer 6 yeats and tónsillitis f month previously; ; previous rheumatic attack at 18 . No morluts eorilis.
${ }^{n}$ of the remainine 5 cases, enterie fever was the only antecedent, bamely, in" males and 4 females.

## Typied as as Antecedent

ai (1)coursent in-

1. No. 1747 W! Easby, M, D., March). Male, aged 18; 11 years prewhisly. in previnus rheumatisn. No morbus cordis.
..No. 3 O2 (U. 13. Richardson, M, 1., Brighton). Femule, aged 21 ; $\Rightarrow$ youre previonsly; this patient lad searlet ferer when young; i provinus phe umatie attack at 15 . Old morlus cordis.

- iht. 4 4I (J. W. Miller, M.1., Dundof). Male. aged 47 ; twice preiomaly; the latient lad bronchit is 7 years, and ot itis 5 years before: 1 previous rheumatic attacks, the first at 12. No morbus pirdis.


## Vabhora as as Anthcfenent

" Wcurred in 4 cases- 3 males and 1 fumale, namely:
$\because$ No. 13 (J. H. Jackson, M.B., Wignn). Male, aged 36, had variola is years, and pneumnnin 20 years previously; 1 previous rheumatie uttack at 10 . No morlys cordis.
No. :30 (Thomas F. Raren, Broadstairs), Male, aged 40, had varioh ' years previously. No prerious rhenmatism. Na morbus curdis.

No. 4.1 ( John Ruid, Rochalan). Female, aged lõ, had rariola 7 montlis previously. Nu previous rheumatism. No morbus contis.
 18 yeara : scinlet fever 24 years previously; ; 1 precious rheumatic attuck at on.. Ohe nortic diemse.
! (In No. 4ri a mitral systolic murmur was heard during the
rheumatic attack, and in No. 0.t.i an old aortic murmur, but in none of the others, is any cardiac disease recorded.)

Otherr Acuty Sibecipic Dislages as A.vtecredents.
Whooping-cough occenred in 6 cases, namely, 3 males and 3 females.
Rütheln occurred in 2 cases, both females.
Mumps ", 1 case, namely female.
Arysipelas
Varicells, $\qquad$
In none of the above was there any heart affection unconnected with the rheunatism.
Syphilis is specially noted in 4 cases, namely, 1 male and 3 fermales.
No. 2 (Charles Ede, Guildford). Female, aged 40 ; sythilis iwas doubtful; the patient had suffered from eczema for 1 year previously.

No. 167 (T. Hyde Hills, Cambridge). Male, aged 32 ; cabman: the date of infoction, etc., not stated,
No. $33^{2}$ (W. Shaw, M.D., Maidstone). Female, áged 36, marricd : infected 4 years previonsly.
Nio. 424 (Thomas F, Raven, Broadstairs). Female, aged 35 ; ind fected 4 years previonsly by husband.

## Anzemta as at Antecedent.

Anxmia is recorded in 17 cases, or 2.59 per cent. : of which 3 or 0.45 per cent. Trere males, and 14 , or 2.13 per cent., females.

No. 37. Mnle, aged 6 ; anæmic child; 1 previous attack of rheumatism at 3 years of age.

No. 47. Female, aged 14 , single; errand girl; anxmia for'two months previously.

Yo. 59. Female, aged 19, single; drëssmaker;" anæinia, ' no date given.
given. 78. Female, aged 28, mnrried; nnæmia, no date given. Phebitis after parturition 38 days previons to rheumatism; 1 provions rheumatic attack at 14 .
No. 04. Female, aged 15 , single; house work; anæmia, no date given. Enteric fever 3 years preriously.

No. 138. Femalc, aged 22 , single il servant; anæmia, no date given.
No. 252. Male, nged 26 ; joiner ; anæmia, no date given; nouralgin : 2 prerious rheumatic attacks: first at 22.
No. 302. Female, aged 24 ; servant: anamia, no date given; neuralgia, scarlet fever in childhood; 3 previous attacks of, rheumatism, first at 13.
No. 340. Female. aged 24, married; armmia, no date givén; 2 previous attacks of rheumatism, first at $1 S$.
No. 860. Female, aged 22, single; milliner; anmmia, no date given; ] previous attack of rheumatism at 19. Scarlet fever, enteric fever, variola. Pertussis in former rears.
No. 372. Female, aged 21. single: shopgirl : anæmia, no date given; 1 previous attack of rhenmatism at 15 . Typhus and bronchitis 5 years before second rheumatic áttack. Scarlet fever in former years.

No. 423. Female, aged 20, single; at home: anæmia, no date giver; migraine, debility, hysteria; insufficient diet; I previous rbeumatic attack at 16.

No. 499. Female, aged 18, single: servant; anæmia, no dato giren; bronchitis, otitis in former years.
No. 549. Ferale, aged 24, single: serrant; anxmia, no date given; I previous rheumatic attack at 15.
No. 520. Male, aged t; anæinia some weoks previously; conjunctiritis, keratitis.
No. 622 . Female, aged 27 , marricd; anomia, no date given: abortion and flooding 8 months previous to rheumatic altack; 5 previnus rheumatic attacks, flist at 8 .
No. 647. Female, aged 17, single; servant: anæmia, no date given; scarlet fever at 5 years of age; tonsillitis 21 months before the last attuck of rheumatism; ald cardiac discase; no previous rheumatism.
In 5 of these cases cardiac complication existed, namely, in No. 37 a mitrul systolic fruit was developed during the rheurnatism, there laving been one previons attack at the age of $3 ; 78$, an old systolic mitral murmur, the patient having had nin attack of acute rhematism $1+$ yenrs previnusly ; 3ry, n mitral systolic murmur (probably of old-standing), there having been 3 previous attacks of acute rhemmatism; 33,2 in mitral systolic murmur (but whetber old or reent is not stated), with an attack of rheumatism G years previously; 047, a mitral systolic bruit (possibly of old standing),
with; previous history of scarlet fever, but without any' record of rheuniatism.
It will be..scen, therefore, that anrmin cannot, so far as these cases are concerned, be regarded as a cause of cardiac disease, but that in those instances in which it existed it must be attributed rather to rheumatism ( 4 cases), or to scarlet fover ( 1 -casc).

Pulmonary Disfases as Antecedents.


## Whoorlig-Codgh as an Antrcerent

In 6 cases $=3$ males and 3 females.
Namely...No. 199. Male, aged $31 \%$ no date given.


## Criorea.

It is not a little remarkable, considering the recent observations of Dr. Stephen Mackenzie and others, that chorea is mentioned in this series of 655 cases as an antecedent or concomitant of rheumatism in 13 instances only, or 1.98 per cent., namely males, 0.56 per cent.; females, 1.22 per cent. No apology is needed therefore for a statement of the chief particulars in each case.
No. 49 (F. Marsh, Stafford). Female, aged 24; single; housemaid; temperate, sufficiently fed. Locality, low, damp,'exposed; 2 prerious attacks of rhematism, the first at 13 . Scarlet fever 12 years previously; chorea at the same time. A mitral systolic murmur was heard at the commiencement of the rheumatic attack, for which the patient was under treatment; but at the termination of the attack the apex was normal in position, although the murmur persisted.
No. 74 (S. Moritz, M.D., Manchester) Femalo, aged. 5 ; ; single; factory hand; temperate; insufticient diet. Locality, low, damp, confined. Chorea 4 months previously, during pregnancy; no previous rheumatism or other illness; no cardiac affection.
No. 209 (G. W. Homan, Lichfield). Male, aged .27; single; clerk, temperate; sufficient diet; 1 previous attack of rheumatism at 19 ; chorea in childhood. A systolic mitral murmur was heard at the commencement of the present attack. and remained during the attack; the apex beat heing then half an inch internal to the nipple. The patient did well till the seventh day, When swreating ceased; and in the evening the temperature rose to $110^{\circ} \mathrm{F}$., and he died in 5 hours, the temperature being then $106.9^{\circ} \mathrm{F}$.

No. 238 (W. F, Brook, Farcham). Female, aged 11 ; sufficient diet. Locality, high, dry, exposed. Fo previous attack of rheumasism; chorea 2 years previously. The attack of rheumatism Was serere; pericarditis complicated the attack, and death occurred on the serenth day, from asphyxia, the result of pericarditis and "great bronchial secretion."

No: 433 (F. Wacher, Canterbury). Male, aged 14; cahinet maker ; sufficient diet. Locality ligh. No mention made of previous rheumatism. The patient had measles .'with enlarged tonsils, but the date is not given; 2 attacks of chorea 7 and 2 years ago. A mitral murmur Tras audible throughout the attack and at the termination of rheumatism after 21 days. The apex bent was normal in position. Recovery complete.
No. 469 (k. J. Allan, M.D., Dock Street. E.). Female, aged 24, single: temperate ; sufficicnt diet. Locality, low, dainp; 1 previous atteck of rheumatism at 16 ; liable to bilious attacks; chorea in childbood.' A mitral systolic murmur was audible throughout the attack, and at the termination of the rheumatisn on the elerenth day. The apex beat was one inch to the left of the sternum: the murmiur had been present since childhood, and was heard before the chorea attacked her. Recovery was complete.
No. 466 (II. S. Renshaw, M.D., Sale). Male, aged 9; temperate sufficient diet. Locality, dry, exposed. No previous attack of rheumatism; aortic and nitral mimours during the rhenmatic attack; apex 1 inch below, and internal to nipple; murmurs disappeared 21 days after the onset of the rheumatism ; "chorea remained." Recovery from rheumatism was complete."
${ }^{3}$ No. 493 (W.'Frew, M.L., Galston, Ayrshire). Female, aged 19;
single: lace: darner; stotal abstainer; suffieient diet. Locality. low, damp. One previous attack of rheumatism at 16 ; clmrea 9 years previously:. A systolic mitral murmur audible thronghout the attack ( 14 days' duration); at the termination the aper heas was in the sixth interspace, 1 inch external to the nipple line. liecorery was completc.

No. 524 (G. M. Mackay, M. B., Elgin). Fernale, aged 19 : single : no occupation; temperate : sufficient diet. Locality; low, damp. No previous rheumatism; choréa 18 months previously; tonsillitis 4 days before. A mitral and aortic murmur mas heard during the attack, and at its termination at the end of 3 weeks; the apex was just within the nipple. The patient had dropsy from heart disease.

No. 547 (W. M. Dobic, M.B., Chester). Female, aged 17; single : lady; temperate; sufficient diet. Locality, low, damp, confined. One previous attack of rleumatism at 12; chorea 5 years preriously; systolic and presystolic mitral murmurs audible during the attack; no mention of position of aper. Chorea accompanied the previous attack of rheumatism, which was attended by violent delirium and severe pain; present attack mild, and terminating on the tenth day.
Nio. 587 (D. J. Mackenzie, M.D., Glossop). Male, aged 4: total abstainer ; sufficient dict. Locality, high, dry, exposed. Fo prerious rheumatism ; chorea was slight,-and oceurred 10 days prerious to the enset of rheumatism. There was a systolic mitral murmur from the third day of the-attack, but the apex was normal. Recovery was complete.
No. 589 (D. J. Mackenzie, M.D., Glossop). Female, aged 14; temperate; sufficient diet. Locality, high, damp, exposed; 2 previous attacks of rheumatism (age of first not given); chorea is said to be "still present." A "murmur" was noticed when the patient came under observation; the aper was widely diffused. Recovery was complete.
No. 599 (C. H. Milhurn, M.B., Durham). Male, aged 16; Teaver; temperate ; sufficient diet. 'Locality, low, damp, conifined 1 previous attack of rheumatism at 12. A mitral systolic murmur was noticed when the patient came under observation: the aper beat 1 inch belor the nipple; chorea had occurred 3 years previously. Recovery tras complete.

In 5 cases ( $74,238,466,524,585$ ) there had been no previous rheumatism.
In 1 case (483) no mention is made of previous rheumatism.
In 2 cases ( 49 and 589) 2 previous attacks of rheumatism had occurred, while in the remainder, 1 previous attack had occurred in each case.
In Nos. 74 and 587 no cardiac disease existed after recovery from rheumatism; the patient laving had an attack of chorea 4 months previously:
In No. 238 no cardiac disease was known until the rheumatic attack under which the patient succumbed; hat chorea had occurred 2 years previously.

In No. 433 there had been no previous rheumatism, but there had been two prerious attacks of chorea, and there had been no previous cardiac disease.

In No. 524 tbere had been no previous rheumatism. One attack of chorer 18 monthe previously; the patient suffered from cardiac dropsy; an evidence of old-standing valrular disease.

In these records, then, no valvular lisease can he traced in connection with chorea alone, and, though in the majority of these cases in Which chorea occurred ralrular disease of the heart existed, it was presumably of rheumatic origin, and in all sare one (524) the mitral valve alone was affected.

In one case ( 460 ) there had been one attack of rheumatism 8 years previously, and chorea in childhiod. the date not given: it is specially noted that the mitral sjetolic murmur was heard " beforc the chorea attacked her."

In No. 49 chorea occurred at 12 years of age, the patient being aged 24 , female.

In No. it chorea occurred 4 montins previous, the patient being aged 25 , female.

In No. 209 chorea occurred in childhood (no date given), the patient being aged 27 , male.
In No. 238 chorea occurred st 9 years of age, the pationt being aged 11, female.

In 10.433 chorea occurred at 7 and 9 years of age, the patient being aged 14 , male.

In No. 460 choren occurred in childhood (no date given), the patient being aged 24 , fcmale:"

The numbers in order stand as follows:
Exposure to wet and cold


Over-fatigue and exposure to wet and cold lixposure to cold

## Fxposure to wet

Over-fatigue, more or less prolonged
Over-fatigue, prolonged
1 Pharyngitis
Over-fatigue, sudden
Parturition
Shock ... $\quad . . . \quad \ldots$.... $\ldots$.... 39 females, 30 )
$1 "$
No mention of antécedent diseases (males, 27; females,18) 45
Phenomena connected with the Presrent Attack.
Under this head returns are made: 1 , as, to tho severity of the attack and the sweating; 2, the duration of the fever, pain, and whole attack; 3, extent of joint affection ; 4, result.
The figures come out as follows:
The rhetimatism was severe in ${ }^{\prime}$..., 178 malës, or 27.17 per cent.

$$
" \quad " \quad \text { mild in }
$$

" "

[^35] ,





$$
116 \text { females, or } 17.70
$$

. 191 malés, or 29.15 "60 females, or 24.42

In dio. 483 chorer occurred at 10 yenrs of age, the patient being agel 19, female,

In No. ©ith eliorea occurred at 16 years of age, the patient being aged 11, female.
In No. 547 ehores occurred at 12 years of age, the patient being ared 17, female.
1n No. $55 \%$ chorea occurred ten days previously, the patient being aged 4. male.

In No. 592 choren occurred nt 13 ycars of age, the patient being aged 16 , male.
Various other "provious illnesses" aro recorded in these tables, but the numbers in each case are so small that analysis of them would be useless.

Recbnt Antecrinints to the Rheumatic Atrack,
Under this head are stated certain previously existing enditions to which the rheumatic attack might probably be attributed, or without which the patient might possilhy liave escaped.

Over-fatigue and exposure to wet and cold:

| Slales | $\ldots$ | $\ldots$ | $\ldots$ | 61 |
| :--- | :---: | :---: | :---: | ---: |
| Females | $\ldots$ | $\ldots$ | $\ldots$ | 37 |
| Not mentioned | $\ldots$ | $\ldots$ | 1 |  |

Total $\ldots$... $\quad . . \quad 30$ or 15.11 per cent.
Exposure to wet and cold:
Males...$\quad$... ... 76
Females
Total ... ... ... 106 or 16.18 per cent.
Fixposure to cold:
Males cold: $\quad$......$\quad 55$
Total ... 1 ... ...
Over-fatigue-more or less prolonged: $\begin{array}{ccccc}\text { - Orer-fatigue-more or less prolongen: } \\ \text { Afales } & \ldots & \ldots & \ldots & 12 \\ \text { Femalcs } & \ldots & \ldots & \ldots & 18\end{array}$

Total ... ... ... 30 or 4.58 per cent.
Fxpposure to wet: Males ... ... '... 38
Females
Total ... ... ... 70 or 10.68 per cent.
Over-fatigue-prolonged:


Over-fatigue-sudden: Males $. . . \quad . . . \quad .$. Females

Total
1haryngit is:
Males
T. remales

Total
$\square$ 11 or 1.52 per cent.

## Parturition:

1 or 13.89 per cent.

1. Total
Total $. . . \quad . . . \quad$... 7 or 1.06 per cent.
Of the other mentioned recent antecedent diseases, such as
gont, gonorrlma, of each one case; jaundice, catarrh, diphtheria,
injury, parotitis (two eases), for example, the numbers are so
small as to bo valueless.
The expression "recent antecedents" here signifies a disease
which cecurred within six werles previously to the rhemmatic
attack for which the patient eame under observation.

Cases in which no mention is made
as to se verity, namely, 133,319,320,

$$
342,377,415,420,505,539,588
$$

342, 377, 415, 420, 505, 539, 538

Sweating was considerable in

Cases in which no swentingoceurred
or no mention is made as to sweat-
ing, namely, $9,46,132,133,336,407$,
$433,520,573,608,638$
" slight" in
ing is the result: ing was considerable. in which it was profuse.
(1) 65

10
,

Examination of the tables were then made with the view of ascertaining the influence of diaphoresis on recovery; the follow-


Of the 655 cases data were insufficient for the above caleulation in 9 males (Nos. $46,151,249,255,335,407,578,559,608$ ), and in 9 females (Nos. $9,81,132,150,322,520,567,573,638$ ); in 1 case (133) the sux is not mentioned, leaving 646 eases to be dealt with.

The figures lend but partial support to the presumption that
free diaphoresis produces a bencficial effect on the course and result of acute rheumatism, when the number of completo recoveries with slight sweating is compared with that when sweat-
Uuder "slight" sweating have' been grouped eases in which diaphoresis is deserihed as moderate; under "considerable" those

## infleence of Theatment on the Dumation of the

 Rhbematic Attack.With only four exceptions, the cases recorded in the tables wero under one or more of various remedics adrocated for the relief of the disease, and it has been, therefore, thought advisable to calculate the average number of days duration of the fever, pain, and
of the whole attack (where a suflicient number of of the whole attack (where a sufficient number of eases could be collected to strike an average). under some of the more usuat mesthods of treatment. In a large number of cases the troatment
is different in each; no grouping of them, therefore, is either irofitable or even possible.

Treatment.:
Salicylates (sodiumo or potassium) (173eases) (171.cases) (167 cuses) Salicylie 8.65 day's 10.18 days 19.03 days Saliein $\ldots$ (9 cases). (9 cases) (9 cases) 13.8 days: 10.7 deys 10.7 days

## Alkahes

lkalies and 13,23 days 19.0 days 36.30 days
Akalies and then salicylates ... (20 eases) (22 cases) ( 21 cases) 11.04 days 13.90 days 2222 days Salicylates and alkalies (combined) (12 cases) (ll cases) ( 13 eases). 10.83 days 15.54 days 34,82 days

Salicylates and then alkalies

## Salicin and alkalies

Salicylates and potass. iod.

## Salicylates and iron

Salicylates and tonics
Alkalies and opium ( 19 cases) ( 18 cases) ( 17 eases) 10.78 dlays 13.16 days 30.64 days (3.cases). (3 eases) (3 cases) 11.6.days 19.3 days 24,0 days ( 7 eases) ( 6 eases) ( 7 eases) 17.14 days 24.16 days 46 days ( 18 cases) ( 19 cases) (18 cases) 11.77 days 10.89 days 27.7 days ... ( 16 cases) ( 16 cases). ( 16 cases) 8 days 10.18 days 18.68 days (8 cases). (8 case*) (8 cases) 10.70 days 12.60 days 18.75 days (5 cases) $(5$ cases ( 6 cases) 10 days 13.8 days 20.33 days ( 10 cases) ( $1 \cdot 1$. eases) ( 0 cases).: 2.9 days 8.45 days 30.3 days ( 7 cases) ( 7 cases) ( 6 cases) 6.14 days 12 days 15.83 days Alkalies and then quininc :... (6 cases). (6 cases) ( 5 eases) Salicylates and quinine... :... (6 casés).. (6 eases) (6 cases) $\begin{array}{cc}\text { (6. cases). } & 6 \text { cases) } \\ 10.5 \text { days } 17 \text { cases) days } & 31.6 \text { days }\end{array}$
Case No. 655 has been cxcluded from the caleulation under salicin as the data are insufficient: The patient was ill 7 days before she came under observation; the pain lasted 1 day, and the duration of the whole attach was 7 days.

In most of the eases treated the dose of salicin was 1 scrupie, repented in intervals of from 1 to 4 hours : and in once case ( 6554 ) the drug was taken in 1 -scruple doses every hour till the patient was well (about the 6th day).

In Case 444 the dose was grains xij, given every 2 bours till beltime, and then repeated thrice daily. The patient swas not iscen until the loth day, and on the 2nd day of treatment the temperature became normal.
Cases in which Salicin, Salicilic Acid, of res Salts Failed.
No. 19.(IV. Bruce, M.D., Dingwall). Male, aged 42; shoemaker; temperate; sufficiently fed. Locality, low, damp, confiued; atmospliere, changeable; wind W. No previous, rheumatism. Present attack attributed to exposure and over-fatigue. The attack was serere, attended by considerable sweating, and many joints (fingers chiefly) were affected. Sodium salicylate was giren, 10 grains everr: hours, and then every 4 hours. Subsequently potassium biearbonate was administered till-the urine beeame alkaline Recovery was partial, pain persisting in several joints. The reporter remarks: "Salicylate seemed to have no effeet; :treatment carefully earried out.

No. 22 (J. A. Erskine Stuart, Healy, Batley), Male, aged 23 : single: blacksmith; temperate; sufficiently fed. Loeality, high, dry, exposed: atmosplicre, dump and cold: wiml N. The patient hail had several previons attacks of rhemuqtism, and had "congenital mitral disease inherited from mother." "The present nttack 'was ascribed to exposure to wet, and cold, and orer-fatigne; it ${ }^{\prime}$ was severe, and the sweating considerable. The duration of the fever, pain, and whole attack was 7 , clays The dose of sodium -salicylate was 15 grains overy 3 hours. The joint affection was - relieved in 2 days. The salicylate caused grstro-enteritis and hematemesis. and the patient died.
No. 52 (J. Munro, M. D.;Barnard Castie). . Male, aged 21 ; single labourer ; lemperate; sufficieutly fed: locality, high, dry:; atmoraphere, mild and changeable; wind E. The patient had brouchitis 6 years previously, but no rhemmatism. 1 For the present attack no canse is assigned; the lattack was seyere, with profuse
sweating. The fever and pain lasted 6 days, and the whole attack 35 days; many joints were involved. During the attack a crop of sudamina appeared. Sodium salicylate, half a scruple to one scruple, was given every 3 hours." The reporter remarks that there was an aljsence of effect of the salicylate on either the fever or the pain. The patient made a complete recovery:

To. 79 (A. A. Cohern, M. B., Burwash). Female, aged ${ }^{2} 5$; single ; housemaid; temperate: sufficient food. Locality, high, damp, exposed; atmosphere, wet and cold. The patient lad one previous attack at the age of 8 . Present attack attributed to wet, cold, and orer-fatigue; it was severe, and the sweating was considerable. The duration of the fever and pain were 12 and $1 t$ days, and of the whole attack 14 days. Many, joints were affected Patient was ehlorotic. Sodium salicylate was at frrst administered, and then potass. bicarb, and iod. The reporter remarks: "No benefit from treatment No. 1; rapid effect of No. 2". Recovery eomplete.
No. 105 (Edward Cureton, Shrewsbury). Male, aged 25 ; railway lahourer; temperate; sufficient food. Locality, Jow, damp, confined: atmosphere, mild and damp; Tind S. Patient had tonsillitis I year previonsly but no rheumatism. Present attaek attributed to exposure to wet ; it was severe, with considerable sweating. Duration of the whole attack was 40 days. Many joints were affeeted, and sudamina were present during the attack. Salicylates were admimistered for 3 days, and then potass bicarb. Reporter remarks: "Salicylates failed; bruit appeared at the end of first week; case of a relapsing nature throughout.. Recovery was complete.
No. 12 I (F. B. Jallett, M1.D., Bolton). Femalé, aged 2.2; singlé: sempstress ; temperate; sufficient food. Loeality, high and dry; atmosphere, changeable; wind S.TV. Patient lad scarlet fever 5 years previously but no rheumatism. Present attack attributed to prolonged over-fatigue; it was severe, with considerable sweating. Duration of ferer and pain trere 21 and 30 daysrespectively, and of the whole attack 42 days. Pericarditis and endocarditis supervened during the attack. Sodium salicylate, 2 drachms in 24 hours for several days was the first treatment: aftervards salines were substitnted. The remark is: "No relief from treatment 1 ; good from No. 2." Recovery partial.

No. 143 (Henry Dary, II,D., Exeter). Male. aged 20; single; cutter; temperate: sufticient food. Locality, low; damp, confined; atmosphere, wet and mild. One previous, rheumatic, attack, at, 13. Iresent attack moderate; slight sweating. Inration of fever and pain 7 and 5 days respectirely and of the Whole attack 14 days Salicylate was given at first in one-seruple doses, and afterwards iron and ammon, acet. Remarks: "Salicism produced no effect on temperature! Relief from treatment No. 2." Reeovery was complete.
No. 201 (C. A. Mc3[unn, M.D., Wolverhampton) Female aged 15, single; scloolmistress; temperate; food sufficient; locality, low. damp, exposed; atmosphere damp and cold; wind N.E. Patient had had no previous illness. I'resent attack attributed to exposure to cold and orer-fatigue: it was a mild one, hut attended by considerable sweating. Duration of fever and pain $1+$ and 10 days respectivelr, and of the whole attaek 21 days. Few joints were affeeted. Pericarditis and pleurisy supervened during the attack. Saliein was first administered, and subsequently "sodium salicyate in one-scruple doses every four hours, with alkalies." The reporter observe, "No benefit from salicin." Recovery complete.

No. 212 (M, Messiter, Dudley) Male aged 17, single : enginedriver; temperate; suffieieat food. Locality, high, damp, exposed: atmosphere, wet and cold; wind, N.E. No previous illness. I'resent attack was severe, with considerable sweating. Ferer and pain lasted 25 and 20 days respectively; the whole attact 43 days. Few joints were affected, Sudmmina appeared eluring the attack, and rostola aft.rwards. The dose of salieylate is not given, hut the reporter remarks " Salieylate produced so little relief and so much sweating that it was stopped, jo other drug affected the rhemmatism."
No. 244. (A. A. Collem, M.B., Burwasly). Male. aged 35.; higgler: temperate; sutficient food. Locality, high, dryo exposed; atmosplere, dry, cold wind S.I. Patient had two prerious rheumatic attaeks, the first at $2 \overline{7}$. Present attack attributed to sadden orerfatigue and exposnre) it wás moderate, with slight sweating. The fever and pain lanted 7 and 8 days, the whole attuck 21 days. Many joints were involred. Salicin (dose not stated) was first given; subsequently, two grains of quinine, every four hours and a
salicin. After the flrst dose of quinine, said, 'I felt it take all tho fever out of me." liecovery partinl; pain persistent in one joint

ㅇo. 200 (Jas. McVee, M.D., Inverness). Male, aged 18, single; grocer; temperate; sulliciently fod. Lacality, low, damp, conllined. Fopreviousillness. l'resentat tack attributed to exposure. Fever and pain lasted 20 and 2 days, and the whole attack 35 days. It was a moderate attack, hut attended by considerable sweating. Sudainina nppeared on the 9th, and lasted till the 24th day. A mitral systolic murmur came on during the attack. Sodinm salicyl. was flrst given in doses of one seruple every two hours; then salicin in the same doscs: and, thirdly, quinine with alkaline effervescents. The reporter remarks: "Temperature fell and murmur disappeared with the salicylate. With sulicin in same doses, temperature rose and murmur returned."
So. 332 (W. Shaw, M.D., Maidstone). Female, aged 32 , married; paper-mill hund: temperate; sufficiently fed. Locality, low, damp, exposed; atmosphere, wet. Patient hud four previous attacks of rhemantism, the flrst at $\mathcal{\&}$, and four years previously suffered from syphilis. Present attack preceded by prolonged over-fatigue; it was a severe attack, with considerable sweating. Duration of fever and pain was 5 and 21 days respectively, and of the whole attack 56 days. Many joints were involved. The treatment is stated to hare been alkaline, but the remark of the reporter is, "Almost complete inutility of salicylic acid."
No. 372 (C. B. Richardison, M.D., Brighton). Female, aged 21, single; shop assistant; temperate. Locality, low, dry; atmospluere, wet, cold; wind E. Patient had had a previous rheumatic attack at 15; also scarlet fever when young, and typhus with bronchitis flve years previonsly: l'resent attack followed exposure to cold ; it was severe, and attended by considerable sweating. Duration of ferer 40 days, and of the whole attack 280 days. Many joints were involved. During the attack the patient suffered from pleurisy, pericarditis, and double pneumonia. "Salicylates in large doses frequently repented had no effect on the fever or pain," and recovery was eventually complete on quinine, digitalis, pot. iorl, ammonia, and stimulants.

No. 320 (II. Brooks, F'areham). Male, aged 25, singie; manservant: temperate; sufliciently fed locality, low, damp; atmosphere, dry, hot. SNo previous illness. Present attack followed prolonged over-fatigue on the previous day; it was moderate in severity, and attended with slight sweating. Fever and pain lasted " 20 days respectively, and many joints wero affected. Sodium salicylate for one week failed to relieve the symptoms, and recovery was eventually completed under potassium bicarb. and potass. iod.
No. 418 (II. G. Orlebar, M.D., Elizabeth Street, S.W.). Female, aged 18, single; servant; tempernte; suficiently fed. Locality, low, damp, conllned; atmosphere, wet and cold. No previons illness. I'resent attack attributed to exposure to wet 8 days previously; it was severe, but accompanied by only slight sweating Duration of fever and pain 21 days and 20 days respectively; of the whole attack 24 days. Many joints were affected. Patient suffered during the attack from pericarditis and intense pain in the cervical spine, and was usually dyspeptic. Sodium salicyl, in 15 -grain doses every four hours falled to give relief; slight relief followed potass. acet. and bicarb., while quinine produced great beneft. lRecovery wha complete under iron and potass. iod.

No. 419 (II. (G. Orlebar, M.D., Elizabeth Strect, S.W.). Female, aged 25 , single; dressmaker; temperate: sulliciently fed. Locality, low, dry, confined; atmosphere, dry, mild. Fo previous attacks. l'resent attack followed exposure to wet anl overfatigue just before; it was severe, with considerable sweating. Fever lasted 19 days, pain 17 days, and the whole attack 91 days; few joints were affecterl. Membranous pharyngitis supervened on the 18th day. lericarditis during the attack; the patient wa,", moreover, subject to "Irmenial catarrh and sluggishliver." Quinine was administered first, and then sodium salicyl., 15 grains every four hours. with no result. Recovery was finally completed under potass. iorl., potass. bicarb., and digitalis.

So. 425 (T. F. liaven, Broadstairs). Fenale, agel 32, married; temperate; sufficiently firf. Locality, high, dry conlined; atmosphere, dry and hot; wind $W$. One prerious attack of rheumatism at j2. Present attack attributed to exposure to cold and sudden fatigue $1+4$ days previnusly; it was of moderate severity, but accompanied by considerable aweating. Fever lasted 40 days, pain 49 days, snd the whole attack 84 days: many joints were involved. The patient was subject to migraine and was anmmic. - Salicylic acill relieved the fever and pain from time to time, but failed eventually.'

No. 448 (G. C. Dìckson, 3.D., Carnoustie). Female, aged 48, married; temperato; sutliciently fed. Locality, low, dry; conllned; atmosphere, dry, cold, changeable; wind W. No previous illness recorded. Present attack followed prolonged over-fatigue and exposure to cold on the previous day; it was of moderate severity but attended with considerable swelling. Duration of fever and pain II days and 21 days respectively, and of the whole attack 21 days; many joints were affected. The patient suffered from hemorrhoids. The drugs employed were ; (1) sulieylates, (2) salicin, (3) citrate of iron, as to which the reporter remarks, "No benefit from No. I; relief from No. $2 . "$
No. 494 (W. F. Brook, Fareham). Female, aged 38, married housekeeper; temperate, sulficiently fed. Locality, low, damp; atmosphere, wet, cold: wind N.W. No previons rheumatism. Patient had suffered from tonsillitis and pharyngitis 11 years prevously, and from erysipelas 5 months before the present attack, for which no cause is assigned; it was a moderate one, with slight sweating. Fever and pain each lasted 25 days, and the whole attack 56 days. Many joints were affected. Sodium salicyl., 12 grains, with sod. bicarb. and ammon. carb., was administered every 4 hours, and Dover's powder at night. The reporter remarks, "No result from salicylate." Recovery was complete.
No. 530 (W. E. Green, Sandown, I.W.). Female, aged 14; nurse; temperate, sufficiently fed. Locality, low, dry, confined; atmosphere, dry", cold; wind N.E. One previous attack of rheumatisnı at 9. Present attack, not traced to any cause, was of moderate severity, with slight sweating. Duration of fever and pain 15 and 20 days respectively, of whole nttack 28 days. Few joints were involved. Patient suffered from aene and "lry bronchial cough. The disease was "persistent, notwithstanding salicin," but recovery was eventually complete.

ㄱo. 531 (W. E. Green, Sandown, 1. W.). Male, aged 51 ; earter; temperate; sufliciently fed. Locality, low, damp, exposed; atmosphere, dry, hot. Three previous attacks, the first at 39. No cause could be traced for present attack, which was of moderate sererity, with considerable sweating. Fever and pain lasted 7 and 5 days respectively, and the whole attack 10 days; many joints were affected. Salicin and actrea racemosa were at first administered, snd then salicylic acid and guaiacum, Reporter remarks: "No. 1 failed, No. 2 gave great relief. In the former attack salicin alone was of no service." The dose is not stated. - Recovery was complete.

No. 539 (J. Neil Whitfield, Ebbw Vale). Female, aged 20 ; single; dressmaker; tectotaller; sufticiently fed. Locality, high, damp, exposed; atmosphere, damp and mild; wind S.W. No previous rleumatism. P'atient had suffered from measles.' Present attack followed exposure to wet 2 days before; it was severe, with considerable sweating. Duration of fever and pain 12 days and 10 days respectively, and of the whole attack 14 days; few joints were involved. Treatment was (1) sodium salicyl.; (2) alkalies and blisters over the heart; (3) digitalis, ammon. earb, and strychn. Reporter remarks: "No good result from treatment 1. l'atient died of asthenia from endocarditis."
No. Gtt (G. Fisber, Aberdare). Female, aged 2I; married temperate; sufficiently fed. locality, high, dry, exposed; atmosphere, wet, cold. No previous rheumatism. Present stack followed tonsillitis 12 daya, and exposure to wet 2 days previously it was severe, with considerable sweating; pain lasted two days, and the whole attack 28 dars; many joints were involved. Treatment was (I) salicylates; ( $\dot{3}$ ) alkalies. Reporter remarks: "No effect from treatment 1 ; marked improvement under treatment 2."
G46 (G. W. Stevens, M.D., Liverpool). Male, aged 29; singlo; clerk; temperate; suflleiently fed. Locality, high, damp; atmospluere, wet, cold; wind b. Phatient had scarlet fever and measle in elildhoorl. l'resent attack followed exposure to wet and cold on the previous day; it was severe, with considerable sweating Duration of foverand and pain 8 days and 12 days respectively, o the whole attack 21 days; many joints wero involved. Patien suffered from neuralgia and general debility. Treatment was (1) sodimm salicyl., 15 grains overy 3 hours for the first 2 days ; ( 2 sodium salicyl. (dose reduced) and alkalies, blisters, etc. porter remarks: "Salicylate treatment had very little, if any control over pain."
Of the total number, 655 cases, 536 were treated with salicin salicylic acid, or its salts. In the majority of the cares other drugs were combined with the supposed specifte, which failed in only 22 cases, or 4.10 per cent., namely, 10 males and 12 females Of these, salicylates failed in 16 casce.

No. 22. Sod. salicyl., 15 grains overy 3 hours caused gastroenteritis and hæmatemesis.
No. 79. Salicylate failed, while rapid effect was obtained from alkalies and potass. iod.
No. 418. Salicylate failed, in doses of 15 grains every 4 hours, while quinine was successful.
No. 419 . Quinine and salicylates ( 15 grains every 4 hours) failed, while alkalics and potass. iod. gare a good result.
No. 448. Salicylates failed, while salicin succeeded.
No. 644. Salicylates failed, while alkalies succeeded.
In 5 cases salicin failed. Of these:
No. 201. Salicin (dose not stated) failed, while salicylates (1 scruple) with alkalies every 4 hours gave good results.
No. 200. Salicylate ( 1 scruple every 2 hours) gave good results. With salicin in same doses the temperature rose, and the murmur, which had disappeared under salicylates, returned.
No. 531. Salicin and actæa racemosa failed, while salicylic acid and guaiacum gave great relief.
In 1 case (332) salicylic acid tailed; dose not stated.
In 1 case ( 212 ) a failure rras experienced, but the form of the drug, that is, whether salicin, salicylic acid, or its salts, is not stated.

From recent experience of the treatment of rheumatism by salicylic acid and its salts, the conclusion to be drawn from its failure in the abore quoted cases is that the dose administered was far too small, or was not repented at sufficiently short interrals.

## Salicism.

Untoward symptoms are noted in the report as resulting from the employment of salicin, salicylic acid, or its salts in ly cases out of the 536 , or in 2.59 per cent.

No. 10 (Basil G. Morrison, M.B., Canonbury). Male, aged 30, oilman, temperate. Had 1 previous rheumatic attack at $\geq 3$, and an old regurgitant mitral murmur. Present attacks moderate, with considerable sweating. Patient was dyspeptic for a fortnight before the attack, which began with severe muscular pain in the neck and back, but with little or no fever at this stage. Sodium salicyl. 15 grains every hour produced "salicism."

No. 22 (J. A. Erskine Stuart, Healey, Batley). Male, aged 23, blacksmith, temperate. Had had several previous attacks of rheumatism, and had "congenital mitral disease inherited from his mother." Present attack severe, with considerable sweating. Sodium salicyl., 15 grains every 3 hours, relieved the joint affection in 2 days, but produced gastro-enteritis and hematemesis. Patient died on the seventh day from "serious cardiac complication."
No. 61 (A. G. McKeazie, Much Wenlock). Female, aged 19, single, living at home, temperate. Had lad one previous attack of rheumatism at 17 , which had lasted 6 weeks under alkaline treatment. Present attack moderate, with considerable sweating. Sodium salicyl., 12 grains every 4 hours, was administered till salicism supervened, and was then repeated thrice daily, The attack lasted 4 days only, and recovery was complete.

No. 87 (E. B. Mansell, Mastings). Male, aged 24, carpenter, temperate. No previous rheumatism. Patient had scarlet fever in childhood, and an ischio-rectal abscess 3 years previously; had been exposed to wet and cold a fortnight before. The attack was severe, and all ended with slight sweating. Sodium salicyl. was administered first, in one-scruple doses every 4 hours, and then salicin in the same doses. The salicylate caused great nervous disturbance and delirium, but did not ease the pain; salicin pro duced marked benefit. The attack lasted 16 days, and recovery
was complete.

No. 116 (J. McEwan, M.B., Helensburgh). Female, aged 24 , single, living at home, temperate. Itad had 1 prerious attack of rheumatism at 15 ; biliousness 1 montli ago; unwell and shivery ever since; was liable to sore-throat and asthma (?). The attack Was of moderate severity, with considerablesweating. Salicin was admiuisterel, half a drachm every 2 hours, from the fifth day; (2) sodium salicyl. (dose not stated) on the eleventh day; (3) salicin again. Patient became deaf, "probably due to salicism; an acute attack of delirium about the time that sod. salicyl. Was given, lasting about 2 days." The whole attack, inclusive of a relapse from slight exposure, lasted 28 days. Recovery was complete.
No. 187 (Edward Williams, M.D., Wrexham). Female, aged 29, married; temperate. Had had one previous attack of rheumatism at 25. Present attack moderate, with considerable sweating.
doses. The salicylate produced tinnitus, and was then dropped. The attack lasted 21 days. Recovery was partial.
No. 223 (A. S. Underhill, Tipton). Male, aged 41; innkceper: temperate. No previous rheumatism, but had had Ieritonitis (date not given). The attack was severe, with considerable sweating. Sodium salieyl. was administered in half-drachm doses, and caused romiting, diarrhoa, and headache; pain recurred when it was omitted. Uuder tonics recovery was complete in 56 days.

No. 229 (F. A. Laurent, JI.B., Bedford). F'emale, aged 25, single; nursemaid ; temperate. Two previous attacks of rheumatism, the first about 18 . She had had 2 attacks of tonsillitis between 15 and 17 ; messles and whooping-cough as an infant. The attack was severe, with considerable sweating; many joints were affected. Treatment was (1) sod, salicyl. ; potass. iod.; patass. bicarb. for 2 daps only ; (2) alkalies. Patient was "unable to take the salicylate;" the pains were aggravated at the menstrual period, which occurred on the sixth day of the attack. She was convalescent on the eighteenth day.
No. 297 (L. W. K. Phillips, Hove). Male, aged 13, schoolboy: Measles 11 rears previously ; no previous rheumatism. Tonsillitis 12 dars before present attack, which was of moderate severity, with slight sweating. Many joints were affected and pericarditis supervened during the attack. Sodium salicyl., lialf a scruple to 1 scruple, was administered every 2 hours at first, and produced delirium. It was therefore omitted for 1 day, and then recommenced, and gradually reduced for a month. Patient conralescent on the trenty-first day.

No. 428 (T. F. Raven, Broadstairs). Female, aged 35 , married; lady; temperate. One previous attack of rheumatism at 23. Patient was anæmic; parturition 14 days previousl5; "overfatigue from suckling." The attack was of moderate severity, but sweating was eonsiderable; many joints were affected. Treatment was (1) salicylic acid; (2) quin., iron, arsenic, and alkalies. Salicylie acid was not tolerated; all drugs failed; and the case "gradually" emerged into a condition resembling rheumatoid arthritis.
No. 508 (D. J. Mackenzie, M.D., Glossop). Male, aged 34 ; mason; intemperate; hitherto free from rhenmatism. Present attack severe, with considerablesweating, and many joints were affected. Treatment was: (1) sod. salicyl, 15 grains, every 3 hours for 2 days ; (2) potass. bromid. and bicarb.; (3) salicylate resumed. The salicylate produced deafness and delirium ; no fall of temperature till No. 2 was commenced.

No. 566 (H. B. Pullen Burry, Liphook, IIants). Male, 31 ; carpenter; teetotaller. No previous rheumatism. Diarrhœes 12 days, and exposure to cold 6 days previously. Present attack serere, with considerable sweating. Few joints were affected. Treatment was: (1) alkalies for 36 hours ; (2) potass. salicyl. was given when the temperature was $105.3^{\circ}$ F., and 6 days later was $102.8^{\circ}$, when the patient was nearly poisoned, with blackish urine (the drug being presumably contaminated with phenol), and very dicrotous pulse. Delirium was absent. Recorery was complete.

No. 598 (G. Birt, M.B., Stourbridge). Male, aged 30; firebrick maker; intemperate. Patient had had 2 previous attacks of rheumatism; the first 5 years ago. Tonsillitis 9 days previously, and was liable to sore throats. He was fat. Present attack severe, with considerable sweating. On the second day sod. salicyl. Was administered in 15 -grain doses every $\ddagger$ hours, but was omitted on account of distressing tinnitus. Pericarditis superrened during the attack. On the fifty-sixth day recorery was "nearly complete."

No. 642 (TV. E. Green, Sandown, 1.T.). Male, aged 24 ; soldier; temperate. No previous rheumatism. l'resent attack serere, with considerable sweating; many joints were affected. Treatment was: (1) sod. salicyl. for 2 days; (2) salicin for 1 day ; (3) alkalies. Patient "umable to take either salicylate or salicin," "consequently the case ran the old-fashioned course," and recovery was complete after 40 days.

The toxic symptoms which occasionally follow the administration of the salicylates may doubtless of ten be accounted for by phenol contamination, as was the case in No. 566 ; but from the immunity of the great majority of the patients from such evil effects, it mar be assumed that these drugs, as used in this country, are tolcrably pure. In hospital practice it is br no means uncommon that a contaminated supply is sent in, and then totic symptoms are the rule. even with small doses.

Of these 14 cases, 9 were males and 5 females. The most adranced age of the patients was 41 (No. 223); the youngest 13 ( N 0.297 ).
 whin atal abstainer; the remainder were tomperate.

The attack was sivere in 7 males and 1 ferpalc.

light 11 F
TUNIO SISMPTOME.
Salicism (ilcfinitn symptoms not stated) in aios: $10,61,22), 42$, $64: 3=2$ males and 3 femules.

Deafness and delirimm in $\operatorname{sos}$. 116 , $202=1$ male and 1 femule.
Timnitus in Nos $151,585=1$ male and 1 femnle.
1)elirimu in Jo . $3=1$ male.

Nercous disturbance in No. $\overline{7}=1$ male.
Vomiting, diarrlaca, headacher, in No. $223=1$ male.
Delirimm, dierotous pulse, and blackish urine, in No. $566=1$ male.
Giastroenteritis and hematemesis in No. $2=1$ make. '

## Dose Administeren.

The dnse of tho drug is omitted, or it is not stated, how often the drug was repeated in 6 of the cases, so that no conclusious can be drawn under this head; sullice it to say that the largest dose given was in No. 116 , femate, aged 2-4, namely, salicin half a drachm every two lours, followed an the, fifth day ly sod. salicyl., with a reversious to salicin (date not given); that the acute delirimm supervence about the time the salicylate was commenced: that deufnes probably existed before the patient took the sulicylnte.
The suallest recorded close which produced toxic symptoms was (No.6!) KT. xij, of sodimm salicylate, given every four hours, to a fapuale, uged 15 , with a moderate attack, but, corsiderable swerating.
fixamination of the it enses shows no relation between the amount of swetating or tho severity of the attack and the toxic effects of the drug.

Extent of Joint hffection.
The numbers nuder this bead came out as follows:

A. -1 t was foum that in casos where the pains were migratory, and many joints atfecterd.

That the loedity was:

| nim |  |
| :---: | :---: |
| Low, damp, and cos |  |
| High and dry |  |
| 'กw, dump, ind |  |
| Lorv and lamp |  |
| High and expmemb |  |
| 1.0w, iry, anil comfined |  |
| Himh, Inmp, and (exposed |  |
| Low midlty |  |
| High, Ary, and confined |  |
| High, damp, nnd confimet |  |
| ${ }^{1} \mathrm{Dr} 5$ |  |
| Lome rlyy, aud mpumel |  |
| ligh and clamp |  |

## That the atmospliere was:

Wret and cold
bamp, mild, und changeabie?
Damp and cold
Dry and hot
Dry and cold, with sunalinn
Changeable
Wet, mild, and clangeable...
Not mornioned
Wet and changeanlo
Cold und changeable
${ }^{\text {Casos }} 142$
... 10

Dry, mild, and changeable


Cnses.

## IVigh

Sot mationet
Lbw and confined
Damy and expost
Damp

Verlium..., $\quad . . \quad \therefore$
Travelling ,
Dimp ind condman
$\ldots$
Damp ant confin!!, ז, $\cdots \frac{1}{3}$
888

| That the wind was : |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E. | ... | .. | .. 19 | N.W. . $1 .$. | $\ldots$ | $\ldots$ |
| S.W | ... | ... | ... 8 | K. | $\ldots$ | ... |
| N.E. | ... | ... | ... 7 | Not mentionerl | ... | 20 |
| S.E. | ... | .. | ... 5 |  |  |  |
| W. |  |  | ... \% |  |  | $\%$ |
| S. | ... | ... | ... 4 |  |  |  |

Of the 52 cases out of the total of 72 in which the direction of Frind was mentioncd, it had'an easterly direction in 31 cases, or 59.61 jer cent.
D.- Where the pain was fixed and lew joints affected,

## That the locality was:



Cases:

That the atmosjphere was:

| Met and | Cases. |
| :---: | :---: |
| Damp and cold |  |
|  |  |
|  |  |
| Het and mild |  |
| Ury and mild |  |
| Damp and mild |  |
| Not mentioned $\because \quad . \quad \cdots$ |  |
| Wet |  |
| lty and cold wi |  |
| Dainp ... $\quad .9$ |  |

## Low, dry, and conlined low and dry <br> Low, damp, and exposed <br> Damp and confined <br> Low and confinet <br> Tamp <br> Not mentioned

.
$\qquad$


Of the 15 cases. ont of the total 16 , in which the direction of the wind was mentioned, it was easterly in 8 , or 53.3 per cent.
G. - Where the pain was fixed, one joint onls being affected.

That the locality was:
Low and damp

|  |  | Cuses. |  |
| :---: | :---: | :---: | :---: |
| $\ldots$ | $\ldots$ | $\ldots$ | 1 |
| $\ldots$ | $\ldots$ | $\ldots$ | 1 |
| $\ldots$ | $\ldots$ | $\ldots$ | 1 |
| $\ldots$ | $\ldots$ | $\ldots$ | 1 |

Low, dry, aud exposed
High and dry...

$$
\begin{aligned}
& \ldots \\
& \ldots \text { sed } \\
& \ldots \\
& \ldots
\end{aligned}
$$

High ... ... ... 1
High, dry, and confined
High, damp, and exposed...
Dry and continerl.
lligh and dry

+     - 19
Low and damp
Of the 14 cases, out of the total of 18 in which the direction of the wind was mentioned, it was easterly in 7 cases, or in 50 per c int. .
F.-Where few joints were affecterl (no mention being made as t) whether the pain was migratory or fixed),


That the atmosphere was:

Chand cold
Changeable is
... Cold and changeable

Damp and changeable
Cold

Chises.


Of the 57 cases, out of the total 85, in which the direction of the wind was mentioned, it had an easterly direction in 28 , or 24 per cont.
E. - Whero many joints were affected (no mention being made as to whether the pain was migratory or not),

## That the locality was:

| High, dry, and exposed | $\ldots$ | 4 |
| :--- | :---: | :---: |
| Low, dry. and confined | $\ldots$ | $\frac{9}{2}$ |
| Low, damp, and exposed | $\ldots$ | $\frac{2}{2}$ |
| Low, damp, and confined | $\ldots$ | $\frac{2}{2}$ |
| Dry, | $\ldots$ |  |
| High, damp, and exposed.... | $\frac{2}{2}$ |  |


| High $\quad \therefore$ | $\ldots$ | Cases. |  |
| :---: | :---: | :---: | :---: |
| Low, dry, aud exposed | $\cdots$ | 1 |  |
| Iligh and exposed | $\cdots$ | 1 |  |
| Dry and contined... | $\cdots$ | $\cdots$ | 1 |
|  | $\cdot$ | $\ddots$ |  |

That the ntmosphere was:

| Wet and cold |  |  | 7 | Dry anit hot |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dry and hot |  |  |  |
| Wet and mild |  | ... | 3 | Dry and cold |  |  |  |
| Changeable |  | ... | 8 | Dry | ... | ... | l |
| 1 rr and mild |  |  | 1 |  |  |  |  |
| Wet ... |  | ... | 1 |  |  |  | 8 |

That the wind was:


Cascs.
Not mentioned

Lindor locality, taking the first four headings under which tho majority of the eases oecurred, the following order is observed:-


Similarly under atmosphere the following is tho result:-


## C.mbiac Complications.

1. Cases in which pericarditis and endocarditis were coexistent,
lericardilis and endnearditis necurred synchronously in 57 enses, or 8.70 per cent., namely, males 20 , or 4.427 per cent.; females 29 , or tiont per cenl.
of these. 2 deatlis oceurred, hoth females, aged 29 and 22 , and hoth weretreated with salicylic acid.

The following figures show the result under the various treatment employed:
lecovery complete, from the rheumatism, ete. :-

| Salicylates ... |  |
| :---: | :---: |
| Salictic actu |  |
| Salicylates and alkalies |  |
| Salicm and snlicyates |  |
| Quinine and sa |  |
| Alkalics ... |  |
| covery partial :- |  |
| Salicylates ... |  |
| Alknlies |  |
| Salicylic acid |  |
| Saliein |  |
| Alkalies and quinine ... |  |
| Salines |  |
| ry know |  |

Deaths:-
Salicylic acirl
Nomention of result...

|  | Mates. | Females |
| :---: | :---: | :---: |
| $\ldots$ | ... 10 | 11 |
| ... | ... 4 | - |
| ... | ... 3 | 1 |
| ... | ... | $\stackrel{\square}{2}$ |
| ... | ... 1 | 1 |
| ... | ... I | 2 |
| $\ldots$ | ... B | 6 |
| ... | ... | 1 |
| ... | ... | 1 |
| ... | ... | - |
| ... | ... - | 2 |
| ... | ... I | - |
| ... | - | 1 |
|  | 27 | 27 |
| ... | ... - | 2 |
|  | 1 | -- |

Table showing the period of life at which these affections oc-currex:-

| Between |  |  |  | Miales. |  | Y'males. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | and |  | ... | 4 | ... | $\because$ |
| 10 | " | - | ... | 8 |  | 11 |
| :1) | $\cdots$ | (\%) | ... | \% | ... | 12 |
|  | , | 49 | ... | 7 | ... | 0 |
| 40 | , | 50 | ... | $\because$ | ... | 4 |
|  |  |  |  |  |  |  |

The graaner mumber in each case vecurred between the fecond and third decades.

Pericanintis.
l'uricarditis ncenred alone in at cases, or 8.24 per cent., samely,

If this numbre be alded to that of the periearditis and endocurlitis combined, we have of $+54=111$. or 10,54 per ecut, of pericarditis in the whole of the recorded cases.

Amnge these cased 6 died. namely:
So. 1.. . Male, aged 34, of intemperate habito.

No. 238. Female, aged 11.
No. 215. Male, aged 4,
No. 281. Female, aged 68.
No. 463. Femalo, aged 16. Death in this case was from bronchitis.

No. 627. Male, aged 6. Death in this case was from embolism.
These fatal cases will be cousidered more in detail under the head of deaths (see p. 401).

Forty of the cases, or 70.17 per cent., were treated, from the commencement of the attack or during its course, by salicin, salicylic acid, or its salts, but the information to be gathered from the tables is necessarily limited; no clata jare therefore availahle to show what is the effeet of this drug on the serous membrane.
The greater number of cases ocenrred in males between the second and third leeade, and in females between tho tirst and sceond,

The most advanced age at whieh periearditis oceurred was in (281) a fcmale, aged 65; the youngest was (245) a male, aged 4 .

Table shouing the Different Recent Murmurs (that is, Murmurs whirh Supervened duving the l'resent. Attack). They are classed under two heads, namely, those which Recovered and those which were Persistmt, and are grouped in columns according to tha treatment of cach cuse.

Recovery.

| - |  |  |  | ¢ |  | 砢 | - |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Aortic arsanlic... |  | ... | 7 | 2 | - | - | - | - |  |
| Aurthe ditutollc... | ... | ... | 2 | - | - | - | $\checkmark$ | - | ${ }_{64}^{4}$ |
| Mitril syutolic... | ... | ... | 43 | 3 | 3 | 3 | 1 | 3 | 56 |
| Mitral dastollc | ... | ... |  |  | - |  |  | - | fi |
| l'reavatolle mital | $\ldots$ | ... | ! |  |  |  | - | - | 8 |
| Pulnumat30 |  | $\ldots$ | $\because$ |  | - | - | - | - | $\sim$ |
| Endocardid3 ${ }^{\text {... }}$ | ... | $\ldots$ | -- | - | - | $!$ | - | - | 1 |


| I＇ERSISTENT， |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 淢 |  | $\begin{gathered} \text { 霍 } \end{gathered}$ |  |  | $\stackrel{\text { ¢ }}{\substack{\text { ¢ }}}$ | 哭 |
| Aortie systolic ．．． | ．．． | 13 | 3 | 1 | 2 | 1 | － | － | 20 |
| Aortie diastolic ．．． | $\ldots$ | －1 | 4 | $\checkmark$ | 5 | 1 | 2 | 1 | 94 |
| Mitral srstotic ${ }^{\text {Mitral diastolice }}$ ．．． | $\ldots$ | $\stackrel{1}{1}$ | 4 | 6 |  |  | 2 | 1 | 1 |
| Presystolic mitral | ．．． | － | 3 | － | － | － | － | － | 1 |
| Pulmonary ．．． | ．．． | 3 | $\frac{1}{2}$ | 1 | 二 | ＝ | 1 | － | $\stackrel{4}{5}$ |
| Murmur ${ }^{\text {Endocarditis }}$ ．．．． | $\cdots$ | － |  | $\underline{1}$ | 二 |  | 2 | 二 | $\stackrel{3}{2}$ |

In addition to these，I case of mitral regurgitation recovered， but the treatment is not stated； 5 cases recovered on salines，and 1 case on iron；I case of pericarditis recovered on saline treatment simply．

Complications．
The rheumatic attack was eomplicated by：

（Chorea is treated of in＂a scparate section，see page 393．）
IIfPERPYBEXIA．
Four cases are included under this heading，in which the tem－ perature at any time exceeded $10 \mathbf{7}^{\circ} \mathrm{F}$ ．Of the 4 ，three were fatal and I recovered．
No． 208 （（t．W．Iloman，Lichfield）．Male，aged 47，baker，of tem－ perate habits．Locality，high ；atmosphere，dry bit changeable ； wind S．W．There lad been four previons attacks of rheumatism． Yresent attack mild，but attended by considerable sweating． Patient had been exposed to cold，and shock of lis son＇s death． Many joints were affected，and the pains were migratory．There was no cardiac disease．Treatment was：（1）potass bicarb．and iod．sod．salicyl．；（2）quinine and opium．For the first 5 days there was wandering pain，but no fever or constitutional disturbance． On the sixth day temperature rose to $101.4^{\circ} \mathrm{F}$ ．，and remained between that and $102.2^{\circ} \mathrm{F}$ ．until the nineteenth day．On the erening of the nineteentla day it rose suddenly to $10 \overline{1} .4^{\circ} \mathrm{F}$ ．，and death ensued．
Yo． 209 （G．W．IIoman，Lichfeld）．Male，aged 27．（This pationt， in the preliminary report published by the Subcommittee in July， 1883，is said to have been a son of the above，208）．Single，a elerk， of temperate habits．No mention is made as to locality；atmo－ sphere，mild and changealle ；wind（？）N．W．There hat been one previous attack of rhenmatism at 19，and the patient had chorea in childhood．He had been exposed to cold 3 weeks previously． The attack was moderate in severity，attended by considerable sweating．Many joints were affected；the pains were fixed．An old regurgitant mitral murmur existed at the time of the present attack．Treatment was：sod，salicyl． 15 grains every 3 hours，and ice packing for the higli fever．The case did well till tho serenth
day，when sweating ceased，and in the evcning the temperature rose to $110^{\circ} \mathrm{F}$ ．He died in 5 hours，with a temperature of $106.3^{\circ} \mathrm{F}$ ．
No． 531 （C．Boyce，M．B．，Maidstone）．Male，aged 43；intemper－ ate ：a vinegar maker．Locality，high and exposed；atmosphere， wet and cold．Patient had had a previous rheumatic attack at 35 ，and was constantly exposed to wet；the attack was severe，and attended by considerable sweating；many joints were affected； the pains migratory；there was an old mitral murmur（systolic）． During the second day of the attack a miliary eruption appeared； the patient was，moreover，liable to dyspepsia and ulceration of the mouth．Treatment（1）sod．salicyl．， 15 grains every thours； （2）pot．bicarb．；（3）＂cold sponging for hyperpyrexia．＂The tem－ perature，which reached $107.2^{\circ}$ on the fourteenth day，fell $5^{\circ}$ in 3 hours under cold sponging．Duration of fever 23 days，of pain 11 days，of whole attack 105 days．Recovery was complete．

No． 560 （James Kaye，M．B．，Bromsgrove）．Male，aged 35； gardener；temperate．Locality，high and exposed；atmosphere， cold and changeable；wind E．He had been exposed habitnally to sudden chills．The attack was a moderate one，with consider－ able sweating；many joints were involved；the pains were migra－ tory；there was no cardiac complication；in the early part of the attack erythema made its appearance，and，later，sudamina．No previous rheumatic affection．Treatment：（I）pot．iod．and bicarb．，with colchicum：（2）sod．salicyl．，half a scruple every 2 hours，then 15 grains with sod．bicarb．half a drachm：（3）quinine， half a scruple dose；brandy；cold sponging．From the first to the fourth day the disease simulated gout：from the fourth to the seventh day pain and swelling nearly gone，when patient persisted in going out．On eighth day pain and swelling recurred，but the temperature was nearly normal．On twelfth day temperature $102^{\circ}$ ；rheumatic fever well dereloped．All went well till twent 5 － first day，when hyperpyrexia set in，which，though at first cheeked by treatment，proved fatal on twenty－third day．Temperature on twentr－first day $110^{\circ}$ ，on twenty－third $108.6^{\circ}$ ．The more important facts are shown in the subjoined table：－

| Sex． | Age | Habits． | Previous Rheumatic Attacks． | Recent Ante－ cedents． | Heart Disease． | Date of Onset of Hyper－ pyrexia． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Male | 47 | Temperato | 4 | Expd．to cold | $\operatorname{sion} \theta$ | $6 \mathrm{th}^{\text {day }}$ |
| ＂ | 27 | ＂ | 1 | ＂ | Old mittral | 7th |
| ＂ | 43 | Intemperate | 1 | ，wet | ＂ | 14th |
| ＂ | 35 | Temperate | None | －．．，chills | Nore | 21st ．． |

## Relipsing Cises．

Out of the whole number of recorded cases，instances of re－ lapse of the rhenmatic affection is noted in 70 patients，or 10.68 per cent．，namely，males， 44 ；females， 26 ．Some had only one relapse， but in 6 males and in 2 females the relapses are stated to have been many．Among the 44 males occurred 63 relapses，and among the 26 females 30 relapses．Search among the tables was then made with the view of ascertaining whether or no treatment had any effect in preventing this recurrence of the rheumatism，but in vain．It was found that 97.18 per cent．of these relapsing cases were treated with salicin，salicylic acid，or its salts，chiefly sodium salicylate．
The only case requiring any special note is，perhaps，No．155，a male，aged 15 ，who was immediately benefited by salicylic acid continued for 3 days；at the end of this time it＂was omitted，as the patient loathed it．＂Potass．bicarb．and colchicum was snbsti－ tuted，with the result of an immediate relapse，and a rapid re－ covery on sodium salicylate．The duration of the fercr was 10 days of the pain 4 days，of the whole attack 10 days．The lad had suffered from two previous attacks of rheumatism，the first 5 years previously．

## Deaths．

In the 655 cases in the tables death occurred in 22 or 3.30 per cent．，of which 122 were males and 10 females： 10 were temperatc． 3 were intemperate， 8 were total abstainers，and in 1 case $n 10$ men－ tion is made as to drinking habits； 18 of the cases，or 81.81 per cent．Were treated with salicin，salicylic acid，or its salts．

Percentage of deaths in


Tho following table, taken almost verbatim from the tabulated report, gives the more important facts conneoted with each case:-


Skin cruptions are recorled as shown in the following table:

| Before (tho attack | Daring | After |  |
| :---: | :---: | :---: | :---: |
| Evezema ... ... 2.2 | Sudamina $\quad . .4{ }^{\text {di }}$ | Urticaria | Coses |
| Urticaria ... 11 | Miliaria ... ... 13 | Sudamina |  |
| Acne ... ... $\overline{\text { a }}$ | Frythema ... 12 | Miliaria ... | 1 |
| Frythema ... 1 | Urticaria ... 10 | Acne ... |  |
| Erythem. nodos. | Eiczema ... ... 8 | lirythema |  |
| Psorlasis | 1'urpura... ... . | furpura ... | . |
| Sehorrhaua | Erythem. nodos. 4 | Herpes zost | . |
| l'apular .,. | Ane ... ... 3 | Papular ... |  |
| Leppra .... | P'soriasis.. | Lichen :.. | ... 1 |
| Rashes ... | Lichen ... ... 2 | Erysipelas | $\ldots \cdot 1$ |
| Anne rasacea ... 1 | Yesicular |  |  |
| Pustular (10 yre.) 1 | 1lerints zoster |  |  |
| Tinepa tonsurans 1 | Papular ... |  |  |
| Sycosis ... ... 1 | 1'eliosis rheumat. $\frac{1}{1}$ |  |  |
| $\cdots \mathrm{Cl}$ | Macus $0^{\circ}$ … ... $\frac{1}{1}$ |  |  |
|  | Herpus labiulis... |  |  |
|  | Syphulitic roseola |  |  |
| - 1 | To which may bo |  |  |
| IE* | added: |  |  |
|  | lose rach ... |  |  |
|  | Erysiprelas ... 1 |  |  |
| $\cdots 1$ | Typhus ... ... 1 |  |  |

Sudamina being such a frequent concomitant of rlpumatic fever, it was thonght desirable to inrestigate the connection (if any) between the eruption and the severity of the attack and the extent of diaphoresis. The following table is druwn with the vinte of showing this :
Attack severe, sweating considerablc: males, $20 ;$ females, $9=29$

Scbcutaneous Nodíles.
Of this affection 36 cases or 5.49 per cent. are mentioned - if namely: Males $20 \quad, \quad 3.05$ Females 16 "\# ".4 ".


In one male the age is not given.
Nineteen or $5 \cdot .7$ per cent. of those who were affected with subentaneots nodules had 'suffered from previous attacks of rheumatism.

The following table shows the number of previous attacks in 'each case, together with the date of the first.

|  |  | Previous Ateacka. | Age at First Attack. | Age. | Scx. | Previou Attacks | Ace at First Attack. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ag. | M. | 5 Or 6 | 3 to 7 | 25 | M. | 3 | Childhood |
| 说 | 3. | 1 | $\because 0$ | 21 | M. | 1 | 30 |
| i0 | 1 | 1 | 39 | 24 | F. | 1 | 1.5 |
| 49 | H. | 1 | 15 | 22 | 1 | 3 | 18 |
| 42 | F. | 3 | - 39 | 19 | 1. | 2 | 8 |
| 37 | M. | Many | - 31 | 19 | F. | $\stackrel{1}{4}$ | 13 |
| 34 | F. | 5 | 16 | 13 | 1 | 1 | 14. |
| 32 | F. | 1. | 24 | 17 | M. | 2 | 13 |
| 30 | M. | 3 | 9 | 16 | F, | 2 | R |
| 26 | M | 1 | 18 |  |  |  |  |

Table showing the liability of those affected with Subcutaneous Nodules to Skin-Disease or other Ailments.


Of the abevea tendency to skin disease is noted in 17 cases, or 47.2 per cent.

## Previocs Attacks of Rheuratism.

Previous attacks of rheumatism are mentioned in 280 cases, or $42.7 \pm$ per cent., namely:

Males ... 156. or 23.81 per cent.
Females ... 124, or 18.93 "
Of these:
The average age of previous attack of the whele number $=18.27$.

| $"$ | $"$, | males | $=18.58$. |
| :--- | :--- | :--- | :--- | :--- |
| $"$ | $"$ | females | $=17.89$. |

## Common Ailments.

Under this head are mentioned various diseases to which the patients were liable apart from the rheumatic attack for which they were uuder treatment.
The numbers are as fellows:


And one case respectively of boils, uleeration of the cornea, gont and brouchitis, alcoholic dyspepsia, fever and ague, hemoptysis, worms, dyspepsia and chronic bright's disease, gout and headache, osteo-arthritis, chilblains, erythema nodosum. genorrhoea, psoriasis, facial paralysis, periostitis, strumous, colic, courulsions, otorrhera.
Although neuralgia occupies the first and third places in the above list, the total number of cises in which a " nervous element"
prevailed amounts only to 70 (neuralgic headaches 55, neuralgia 20 , epilepsy 4) cases out of 655. Fo very streng support, therefore, is furnished by the tables to the theory of the nerveus origin of rheumatism.

Sequel.f.
Under this head the following ailmonts occur in order of frequeney.


Of the cases of chorea as a sequela the affection occurred :
No. 383 , in a female aged 13,6 months after recovery from the rheumatism.
No. 458 , in a female aged about 30.
No. 466, in a male aged 9 , both as an antecedent and a sequala.
No. 490 , in a male aged 13,14 days after recovery from the rheumatism.

## Cases whicif neserte Spectil Fotice.

No 2 (Charles Ede, Guildford). A female, aged 40. The onset was rery severe, and accompanied by delirium. During the attack slight pericarditis was developed.
No. 26 (Miles A. Wood, F.R.C.S.. Ledbury). Male, aged 2b; total abstainer. Ilad suffered 5 previous attacks, most of which, according to the report, occurred since his marriage 18 months priviously, "as if nervons exhaustion had some effect." The other conditions are the same. "He is nerrous and delicate."
No. 41 (F. Caldwell Smith, M.D., Motherwell, Ñ.B.). Female.
 old mit ral disease, and suffered frequently frem angina pectoris
No. 57 (IV. Carter, M.D., Liverpool). Female, aged 15. "The attacks came on immediately after a very severe fricht, the child up to the moment of the fright beiug apparently quite well, cud never having lad any rheumatic symptoms before."

No. 104 (Alfred Eildowes, 11.D., Market Drayton). Male, age? 30, previously free from rheumatism. During the present attack dereloped pericarditis aud mitral regurgitation. He had two relapses, and in the second " the pulse dropped to 40 ."

No. 118 (Dove McCalman, M.D., Ballchulish). Ma!e, aged ot
quarrier ; teruperate: previously iree from rheumatism. A double nitral murnur developed during the attaek, and "rapid dilatntion of the heart nccurred between the second and eifhth day, aceompanied by a rapid rise of temperature to $105.1^{\circ} \mathrm{F}$.

No. $11!$ (same rejorter). Male, aged 13, previonsly free from rheumatism. Had "rapild dilatation of the heart from the serenth day till death on the thirteenth chay. Before the ninth day the temperature was between $101^{\circ}$ and $102^{\circ} 1 \%$.i from tho ninth day it gradually rose to $105.6^{\circ} \mathrm{F}$. on the twelfth day."
So. 23 (W. Atacfie Cumplell, M11), Liverpoon). Female, ageat $1 \frac{1}{2}$; temperate. Had had one previons attrek of rheumatism. In the prescut attack "fever was the sole primary symptom, followed by erysipelas. Diagnosis was, therefore, difficult."
No. 2x: (J. Larlner Green, Salisbury). Male, aged 25; elerk templerate ; previously free from rheumatism. "Rapid eonsumption set in within a fortnight, of whieh the patient died (having made a partial recovery from the rheumatism). To obvious signs of phthisis were noticel at the onset of the rhenmatism."

No. 2MG (R. 1'. Ogleby, Leets). Female, aged 25 : temperate ; free previously from rheumatism. Suffered from acute pyelitis during the attack.
No. 290 (A. IF. Mayo Robson, F.R.C.S., Leeds). Male, ageal 16 pork huteher: temperate. Ilad pericarditis and mitral regurgitation during the attack, witli alsence of joint affeetion.
No. 325 (T. F. l'earse, M.D., Haslemere). Male, aged 16; intemperate; no fixed oceupation. P'ericarditis existed 6 days before the joint affection.
No. 336 (f. G. Whitwell, M.B., Shrewsbury). Male, nged 12; total abstainer; diet prohably insuffieient; previously free from rheumatirm: subject to weehly epileptie fits before the onset of the rheumatism. During the attaek he had no fits; since recovery the fits have recurred, often more severe than before.

Yo. 361 (11. R. Hadden, M.D., Dublin). Femade, aged 42: temperate; subject to tonsillitis, but previously frec from rheumatism. The rheumatie attack was aceompanied by "tonsillitis and violent fever," which rapidy subsided under sodinm salicylate. From the secoud to the thirteenth day the patient had eczema on the wrists and ankles. "the eruption being strietly confined to the joints, and attacking one after the other, just as rheumatism does."
Yo. 398 (G. If. Lilley, M.D., Portland). Male, aged 25; prison Tarder; tomperate, and previously free from rheumatism. "The onset oceurred white the patient tras in bed for a fractured leg."

No. 113. (11. (. Orlebar, M.D., Elizabeth Street, S.W.). Female, nged 2.5 ; single; dressmaker; temperate. No previous rheumatham. l'ricarditis and mitral regurgitation were developed daring the attark. On the eighteenth day the patient had an attack of severe plaryngitis, with membranous exudation. . iecovery complete on the twenty-first day.

Inemorrlage oecurred in three enses worthy of note; namely:
No. 33' (J. 1'. Willis, M.B., Bexhill), Femate, aged 9: sufficiently fed; free from rheumatism hitherto. Patient had profuse epistaxis; slight vaginal liseharge of bloor.

No. 33, (same reporter). Male, agred 17, brother of the atove. IIAd had one slight rheumatic attack previously. He suffered from profuse epistaxis before and after treatment commenced.
No. 55T (IIarold Swale, 11.73., Tavistoch). Female, aged $20 ;$ nurse: total alstainer: previonsly free from rheumatism. She had suvere epistaxis on the seeonil. third, and fourth day (threequarters of a pint cach tinue. . Mather and brother both hamophilic.

These three pati-nts were treated with sodium salicylate.
The tables were examined with the viow of eliciting any facts as $(0)-1$, the effect of stimulants: 2 , evidenece of heredity of rhenmatism: 3, the preforl nt wheh earliae enmplications occur; but, as no speeial inquiry was directed to these points in the formula sulmiteyl to the reporters, no information ean be obtained from their rejorts.

THE Will of Kir Jnseph Ritehie Lyon Dickson, physieion to the British Legation at the Court of Persia, lias been proved; the personal estate valued at upwards of $£ 5,000$.
The senine medieal stulents at the University of Pisa have agread upon a strike of a novel kind. They have leeided not to attend lectures antil the five important rhairs of elinieal medieine. medicine, hymbene, general pacholngy, and materia mediea, which have now leeen vacant for some time, lave been filled up.

# . LECTURES SUPPURATION AND SEPTIC DISEASES. 

Delivered at the Royal College of Sitrgeons, Febriary, $18 S 8$.

By W. WATSON CHEYNE, F.R.C.S.,

Surgeon to King's College Iowpirat, and to the Paddington Green Children's Howital; Exam ner in Sirgery at the Univeraty uf lidnburgh.

## Lecture 1.

In studying the effeets of pathogenic bacteria on animals, we frequently see great differences between the effects of the same baeteria on different speeies of animals, and ewen on the same speeies under varying conditions. ' Inoenlato guinea-pigs with tuberele baeilli and we eonstantly produce a rapid:and general disense which has little or no tendeney to remain loealised, and no tendeney to undergo spontaneous cure ; we are naturally, therefore, tempted to look on the baeilli as the only noterrorthy factor in the eansation of the disease, and to think that with the diseovery of the bacillus the etiology of the disease has been settled. On the other hand, if we turn our attention to man we see that opportunities for infeetion with tubercle baeilli are frequently present without being followed by infection; .that the disease assumes a variety of forms under a variety of external conditions; that it has eomparatively little tendency to become gereeralised, and that it bas a strong tendeney to get well, either spontaneously or under the inflnence of treatment not directed against the parasites. It cannot be a matter of surprise if, under these cirdumstances, the clinieal observer coneludes that the etiology of the disease has not been solved by the discovery of the bacillus, or that he is inelined to regard the organism as a véry small portion, of the cause, or even as a secondary, and perhaps unneccessary aecompaniment.
The fact is, howerer, that in these disenses we have tro opposing forces before us-on the one side the bacteria, on the ather the body, and these forees are by no means almays equally matelied, nor do they always bear the same relation to each other in different speeies of animals. In some animals the bacteria are more powerful than the body, the resistance on the part of the body being searcely, if at all, evident; in other species of animals the same baeteria are mueh weaker than the bods, and if they suceeed in entering the animal organism at"all, they only"do so by the nid of other conditions, and when these eonditions "cease to act the breteria again die out. In extreme cases these conditions, by determining, the seat and the exact nature of the resulting disense, are apt to give rise to the erroneous helief that they are the essential ones.
This is well illustrated, not only by the example given, but also hy the case. of anthrax. Introduce a single anthrai breillus into a guinen-pig, and the avimal dies with certainty of a general disease, with only trdemat the seat of inoculation. On the other hand, introduce anthrix breilli into rats; and we have:a very different result, and one whiels raries according to the age of the animal and the other conditions of the experiment. The pesult of the injection into a young rat, 'for exauple, is that the animal beeames very ill-it may be, in some cases, even dies-while there is a production of sero-purulent fluid at the seat of inoquation. The older the rat, up to a eertain point, the less are the seneral symptoms manifest, the purer is the pus which is formed at the seat of injcetiou, and the sooner ao the anthrax bacilli:die out In spite of these different results we must none the less admit that in each ease the limeilhus has been the essential causo of the disease, the difference in the characters of the lisease being due to differemes in the strergth of the opposing forces. In the ease of the guined-piginfecterl with anthrax, the bacillus is so mueli more powerful than the hody, that the symptoms of resistance on the part of the latter are eompletely obseured. In the case of the rats, on the other hand, the npposing forees are more or less' equal in strength, and ennsequently other conditions, suchas age, suat of inoeulation, etc., come into play, and modify the character of the resulting disease.

In our surgical work wohave to do with two diseases whioh
illustrate, in a very marked manner, the action of the varions conditions necessary for their production. These are local tuberenlosis and suppuration with its allied diseases. I had at first intended to discuss buth these diseases from this point of view, and such a discussion would have led to important deductions as regards treatment, especially in the case of the tubercular surgical affections; but when I came to put the material together I found that it was far too great for the time at my disposal, and I therefore. resolved to limit myself to a short sketch of the present state of our knowledge with regard to suppuration and septic diseases, with especial reference to the various conditions on the part of the body and on that of the organisms, which are of importance in the commencement and continuance of these affections: and I may at once say that, as regards suppuration, I shall only refer to the acute form, the question of chronic suppuration being intimately. bonnd up with that of surgical tubercular diseases, and differing greatly in its pathology from the other.

## Description of the Progenic Organisms.

Before going into further details on this subject, it will be most convenient to glance briefly at the various organisms which have been found in association with acute suppuration, These organisms are distinguished from each other lyy their microscopical appearances, by their characters on cultiration, and by their effects on animals. The information obtained by means of the microscope is not much; in fact, beyond telling us whether we have to do with bacilli or with cocci, and whether, we have to do with streptocacci or staphylococci, the microscope does not aid us. In order to obtain more precise information, it is necessary to employ various methods, of cultivation, and, fortunately, as some of the organisms produce pigment, while others do not, as some liquefy gelatine, and others do not, and so on, we get further information of great value as regards the species present. In some cases, also, it is necessary to resort to the study of their effects on animals, in order to ascertain the existence of any differential character between the organisms:

1. Staphylococcus Pyogenes Aureus.-This is the organism most commonly present in acute suppuration. As its name implies, the organisms are cocci, which tend to arrange themselves in the form of bunches. They grow readily at the ordinary summer temperature, but most rapidly above $30^{\circ} \mathrm{C}$. When grown in gelatine they soon cause liquefaction of that medium, with the development of an orange-coloured deposit. When gromn on agar, kept at the body temperature, we see, even after twenty-four hours, a whitish or light yellow opayue layer at the point of inoculation, which soon becomes more distinct and of a bright orange-yellow colour ; on potatoes it grows rery readily, and presents the same appearance. These organismas peptonise albumenvery energetically; they also give rise to a peculiar sweaty smell, like that of decaying starch....They retain their vitality in the cultivations for a long time, and, in the dry state, they remain alive for at any rate some weeks.

Injection of these orgauisms into.animals gives varying results, according to the number injected and the other conditions of the experiment, but in the case of rabbits it is comparatively easy on subcutaneous injection to produce suppuration ; on intravenous injection to set up abscesses in the kidneys, and also in other organs; and, on injury to bone, to cause suppuration in connection with the injured part. Iujection of moderate quantities into the kneejoints of rabbits usually causes acute inflammation with suppuration, and ultimately the death of the animals; and in the case of dogs, abscesses result, but not as a rule death. This organism is the same as that described in acute osteo-myelitis, and at first supposed to le the specific organism of that disease.
2. Staphylococcus Pyogenes Allus.-This organism resembles the former in its conditions of life outside the body, in the character of its cultivations and in its effects on animals, but it, produces no pigment. As regards the effect on animuls, it is generally stated that it is somewhat less virulent than "aurens," lot my own experience is that, on the contrary, it is Father more virulent,
3. Staphylococcus Pyogenes Citreus.-This organism, like the former, liquefies gelatine, and grows both at the body and summer temperature. After twenty-four hours' growth on agar, kept at the body tomperature, the cultivations present, a light yellow colour, indistinguishalle at that period from cultirations of staphylococcus pyogenes aureus; the latter. lowever, soon becomes darker and orange-yellow in colour, while "citreus" remains of a light yellow or citron colour. In both species the development of pigment only occurs where the colonies are in contact with the
air. The pathogenic properties of "citrcus" are said by Passet to resemble those of "aureus" and "albus," though it is not quite so virnleat, abscesses following subcutaneous injection, and injection into the knee-joint, while deposits in the kidney occur after injection into the veius. In my own experience these organisms have proved much less virulent than "albus" or "aureus."
4. Streptococcus Pyogenes.-These organisms are also cocci which are arranged in clains, often of great length. They grow very slowly on the ordinary culture media at the summer temperature, but with greater rapidity at the temperature of the body. On gelatine they form small, colourless, round colonies, but they do not spread to any appreciable extent on the surface of the gelatine. On agar, kept at the body temperature, they have a tenteney to grow in small points, which may attain the size of a pin's head, but, on the whole, the growth is very slow, and, when quantities are sown on agar in the form of lines, the growth does nnt. even after weeks, attain a greater breadth than that of two the three millimetres. They do not liquefy gelatinc, but, like the others, they exert an energetic peptonising action in the absence of nxygen.

When injected subcutaneously into rabbits, unless considerable numbers are introduced, the result is only a slight and transient redness; when larger quantities are employed it is said by somet anthors that small circumscribed abscesses, resembling chronic abscesses, are formed; when injected into the knce-joint or into the pleura of rabbits they at first apparently cause slight inflammatory effusion, which, however, soon becomes absorbed without further bad consequences. Rosenbach was inclined to think that this organism differs from the form obtained by Fehleisen from cases of erysipelas, but that is a subject to which we shall presently allude.
5. Micrococcus Pyogenes Tenuis.-This species is of rare occurrence; in fact, Rosenbach oaly met with it three times. On agar it forms an extremely delicate, almost. invisible, layer. The individual cocci are irregular in shape, and larger than the precerling forms. No experiments have been made on animals.
6. Rosenbach found an oral coccus in one case of acute abscëss, which rapidy liquefies gelatine and causes suppuration when injected into the eyes of rabbits. This organism has not becr further studlied, nor has it as yet received a name.
7. Staphylacoccus Cereus Albus.-This organism was found in abscesses by Passet, It forms a white, dull, wax-like layer ou the surface of gelatinc, and greyish-white patches on potatots. Its name is derived from the appearance of the growth on gelatine, on which the individual colonies look like drops of wax. It is not pathogenic in rabbits.
8. Staphylococcus Cereus Firuzs.-This organism $\pi$ as also found by Passet, and closely resembles the former, with the exception that the cnltivations have a beautiful citron-vellow colour. It is not pathogenic iu rablits.
9. Passet has also found an organism in the pus of acute abscesses which closely resembles Friedlander's pueumococcus. This organism forms greyish white semi-circular elovatious on the surface of gelatine, which may attain the size of a pin's hend. In the early stage of growth it is indistinguishally from Frichländer's pneumococcus, lut at a tater period marked differences between the two can be made out, and that not only as regards the mode of growth, but also as regards the effects on animals. In the case of the pneumococcus, growth occurs not only on the surface of the gelatine, but also along the entiro track of the needle. In the case of this organism, growth oceurs only nt the surface: the organism being thus a typical aërobe, Is regards the effects on animals the pyogenic organism, when injected into the plcural cavity of mice and rabbits, causes, pleuritis, and when injected subcutaneously it, in many instauces, leads to the formation of abscesses in the same animals. On the other hand Friedander's pneumococci are not pathogenic in rabbits.
10. Staphyloconcus Flavescens.-This organism was found in au abscess by Bubes, and occupics an intermediate position betwern "aureus" and "albus." On gelatine it forms a colonrless layer and liquefies the gelatine; on agar the growth becomes yellow after about eight days. It kills mice, sometimes causing ahscesses. and sometimes, when in larger doses, septicsmia.
11. Bacillus I'yogenes Fotidus-- Dasset found this organism in an abscess in the neighbourhood of the rectum. It is a bacillus which grows on nutrient jelly, forming a delicate white or greyish layer on the surface, but it does not liquefy the gelatine. Its growth on agar and potatoes has the nppearance of a light lrown glistening layer, which has a very foul smell; in milk this smpll
with a mixed infection hy the erysipelas cocci and the strentococcus lyagenes; but the belief seems to he gaining ground that wo lave here roally a different offect of the same organism. In fact, a number of observers now assert that the organisms are the same, and that the different results ilepend on differences in the other conditions, such as rariations in virulence, in dose, seat of
inoculation, susceptibility of the host, ctc. The carlicr bointed ont casceptibility of the host, ctc. The carlicr observers of the erysipelas organisme distinction between the cultivations closer cxamination and comparison of the mode of prowth of the man constant difference between the two has failed to establish any

In the case of animals, chiefly rabbits, the statements as to the results of inoculation are rery contradictory; fer, while some obsers seem to have been able to make out very definite points of distinction, others hare entirely failed to confirm their results. the ear ajek states that the erysipelas cocci, when inoculated into marked swelling at the seat of inoculation; and that any chiefly inhabit the lymphatic vessels, and are seldom found outside them: while the streptococcus pyogenes, inoculated in the same manner, canses wandering erysipelatous inflammation and the prodnction of an inflammatory swelling at the seat of inoculation; and the cocci rapidy pass into the tissue, being found especially in the neighbournood of the blood-ressels, the walls of which they penetrate and thus reach the blood.-IIffa also
has obtained results of a somewhat similar character. notes that a doughy swelling and ultimately o large inf He also notes that a doughy swelling and ultimately a large inflammatory
tumour develop at the seat of inoculation of the streptococcus pyogenes, although suppuration does not occur; shilecoccus sipelas cocci simply canse redness, withont the development of any inflammatory tumour.-On the other hand, several other oh-servers-Biondi, Passet, Bumm, von Fiselsberg, and others-havo entirely failed to establish any such differences in the cffects on aniIt is thuare come to regard these organisms as one and the same,
It is thus evident that the trbolo question is still sub judice. In any case these organisms are very closely allied; they are, indeed, probably varieties of the same species, but that we hare to deal with absolutely the same organism, and that the differences in action but simply on diff differences in their physiological characact, seems to me somewhat diflicult of belief, and ser which they cult to reconct omewhat diflicult of belief, and somewhat diflcult to reconcile what two or experience. It is quite possible, on pical characters, may grow in a similar hare the same microscomedia, and may have much the same effect on certain species of animals, and yet they may not be the same, for when species of species of animal is tested differences may be bronght to ligh other existence of which was not previously suspected. In proof of this I need only refer to the example of chicken chelera, rabbit septicemia, and swine fever, the organisms of which very closely resemble each other, but apparently show differences when inoculated into certain species of auimals. In the case of the organisms nnder discussion, it may quite well he that the differences between them are only brought clearly to light when they are inoculated on man.

As a matter of fact, in the cases where erysipelas has been produced by inoculations of pure cultivations, only organisms cultirated from cases of erysipelas hare been cmployed, so that we have no absolnte evidence as regards this matter; but there are facts which seem to show that inoculation of streptococcus pyogenes into the human skin does not cause erysipelas. For example, streptococcus progenes is not infrequently present in with with the erganisms; but so far as I am aware we have no ent dence that eryaipelas has ever resulted in snch a case, nor that a
surgeon with a wound on his finger gets erysinelas from and ingeon with a wound on his finger gets erysipelas from dabbling tions a fact which slows the actiogenes.-Rosenbach also menthe human skin: he states that, after opening an empyemenes on contained streptococcus pyogenes, a dense infammatory indura tion, what was practically a hoil, developed around the incision erysipelas did net occur. Till, therefore, more definite evidence in favour of the unity of these organisms is produced than we at present possess, I am inclinel to uphold the specific character of the coccus of erysipcles.

Oscemarics of Prooknz: (fgatisus in Disease.
The diseases in which thesz or gan'zns ozcur are very various
in fact, they are present practically in all affections accompanied by acute suppuration. Thus they are found in acute abscesses, in boils, carbuncles, whitlows, spreading suppuration, acute osteomyclitis, suppurative inflammation of joints, suppurative peritonitis, empyema, ulcerative endocarditis, pyomia, puerperal fever, the pustules of small-pox, vaccinia, etc.

As regards the frequency of occurrence of the individual species, Zuckermann has put together the results obtained by a number of different observers in 495 abscesses, and lie states that staphylococcus was present in 71 per cent. of the cases, streptococcus in 16 per cent., the tro organisms together in 5.5 per cent., and the remaining pyogenic organisms only exceptionally. As regards the pyogenic cocci individually, in 172 cases in which definite statements are made, we found that staphylococcus pyogenes aurens occurred alone or in combination with other staphylococci 123 times, and that streptococcus pyogenes was present alone 35 times, and in combination with staphylococeus 8 times. Staphylococcus pyogenes albus occurred alone 25 times in 133 cases, and in combination with "aureus" also 25 times. The other pyogenicorganisms occur comparatively rarely; thus "citreus" was only found 7 times in 133 cases, 4 times alone and 3 times in conjunction with other forms; staphylococcus cereus albus was found 3 times in the same number of cases, and staphylococcus cereus flavus only once. Micrococcus pyogenes tenuis was found 3 times by Rosenbach in 39 cases (tro of these mere cases of empyema, and one a case of acute abscess); the organism described by Passet as closely resembling Friedländer's pneumococcus was found in 2 out of 33 cases (in one case in an ordinary acute abscess, and in the other in an acute abscess after pneumonia); and the bacillus pyogenes foetidus was only found on one occasion, in an ischio-rectal abscess.

The organism, therefore, which most frequently occurs in these diseases is staphylococcus pyogenes aureus, and the next in frequency is the staphylococcus pyogenes albus. Both are associated with closed acute abscesses, also with boils, acute osteo-myelitis, etc., and "albus" is apparently associated with somewhat more severe inflammations than " aureus;" the combination of the two, in acute osteo-myelitis, for example, seems to be particularly unavourable.
The streptococcus pyogenes is also frequently present, but is especially associated witls phlegmonous and erysipelatous processes, where the pus occurs in the form of infiltration of tissue, accompanied by death of portions of tissue. It also occurs, as pointed out by Ogston and Rosenbach, in progressire gangrene, and is the chief organism of pyæmia, having been present in fire out of six cases examined by Rosenbach.

Mastitis in women offers a good example of the different mode of action of thesetwo species of pyogenic organisms. The abscesses in the manuma, which are caused by the staphylococci, always bogin in the deeper part of the organ, and spread torrards the surface, while in the case of the suppurations, which occur in connection with streptococci, the disease commences with a rapidly spreading redness of the skin, extending from some fissure or crack on the nipple, and the suppuration in the deeper parts follows this superficial affection. The explanation of these differences is that the staphylococcus generally spreads up the milkducts, and acts from their interior, whereas the streptococens spreads along the lymphatic vessels, and its pathogenic action commences at the surface. I may say that the action of the staphylococci from the interior of the ducts and acini was ascertained definitely by Bumm, who excised a portion of the wall of a commencing mammary abscess, and was able to demonstrate the presence of the cocci in the acini and their penetration from thence into the interacinous tissue.

These Orginisms can cauee Sepputation.
We must now pass on to the evidence which leads us to believe that a causal connection exists between the pyogenic organisms and acute suppuration. In the first place they aro constantly present in acute abscesses and in suppurations generally; and, as has just been pointed out, certain specics are constantly associated with certain types of inflammation ; thus the association of streptococei witl spreading suppurations and of staphylococci with circumscribed abscesses, being constant, can hardly be accidental

Numerous experiments have been made on animals which show that thesc organisms, when introduced under suitable conditions, can set up suppuration; and 1 have previously mentioned some of their effects on animhls. The conditions necessary for infection are rery farious, more especially as the animals usually employed
for the experiments are not very susceptible to the action of these organisms, but I need not refer to these conditions at present. Ont experiment will suffice to show that these organisms can cause suppuration in rabbits. Knapp performed experiments in conneetion with the process of healing of rounds of the eve in rabbits. A similar operation was performed on both cyes; on one ere the operation was performed aseptically, the hands, instruments, etc. being carefully disinfected, and care being taken to exclude organisms during the operation, bnt no antiseptic was applied to the wound; on the other eye the operation was performed in the same manner, but, after it was finished, the wound was infected with pyogenic cocci, chiefly with the staphylococcus pyogenes aureus. As a result, all the aseptic eyes, though vcry roughly handled, healed without any trace of suppuration; while almost all the other eyes were destroyed by suppuration, and only in those cases where the operation ras superficial and not extensire did suppuration cease without complete destruction of the eye.

Absolute proof of the causal connection of these organisms with suppurative diseases has been furnished by experiments on man, of which we have three kinds. We have, first, a considerable number of experiments, where superficial abscesses have been induced by the introduction of organisms under the superficial layer of the epidermis; secondly, a number of experiments where impetigo pustules, boils, etc., have been caused by inunction of these organisms into the skin; and, thirdly, experiments where abscesses have been caused in the subcutaneous tissue by subcutaneous injection of the organisms.

As all experiments in which superficial inoculations were made yielded the same result, it is unnecessary to mention more than one as an example. Take, for instance, one of Bockhardt's experiments. IIeintroduced a trace of the mixed cultirations of "aureus" and "albus" into the cutis of his left forefinger: after forty-eight hours, an abscess, the size of a lentil, had formed, and was opened. and the pus contained staphylococcus pyogenes aureus.

Garrés case of inunction of staphylococcus pyogenes aureus into the skin is probably well known, hot 1 may mention it for the sake of completeness. He thoroughly cleansed the skin of his left forearm with distilled water, and, taking a cultivation of "aureus" in gelatine, rubbed it well into the arm, in the same manner as one rould rub an ointment into the skin; for purposes of control, he rubbed a small quantity of sterilised agar jelly into the skin of his right forearm, in the same manner, and it was noted that there was no wound or pustule on the skin of either arm. It may be said at once that the result on the control arm was nil. In the case of the other, a burning sensation began at the seat of inunction six hours later; this burning sensation became more intense, redness and swelling developed, and on the evening of the same day a number of pustules, the size of a pin's head, formed especially in connection with the hairs. On the following day, these pustules had attained the size of a leutil. contained a small quantity of pus, and were surrounded by an inflammatory area. The inflammation increased in intensity, and on the fourth day the seat of inunction presented the appearance of an enormous carbuncle, surrounded by a ring of pustules. Ultimately, more than trenty openings formed, discharging pus and portions of dead tissue.

Bockhardt performed similar experiments on himself. inoculating in the same manner a part of the skin of the forearm, about the size of a five shilling piece, the part haring been cleansed and disinfected, and slightly scraped in parts with his finger mail. The organisms used trere a mixture of staphylococcus pyogenes aurens and albus. This mixture was rubbed into the arm at 4 P.M. ; at 10 P.N.. that is to say, six hours later, the seat of inoculation was slightly reddened, and somewhat painful; at 6 A.M. ou the followiag morning, fourteen hours after infection, there were at the scat of inoculation, twenty-fire closely aggregated impetico pustules, rarying from the size of a pin's head to that of a lentil, a fer, but not the majority of these being traversed by hairs. These pustules containcd the cocci employed, and by about the sixth day they had dried up and disappeared.-Some days later a similar experiment was performed with the same mixture. The inoculation took place at six in the crening: similar cultivations, mixed with sterilised salt solution, being rubbed into the outer part of the forearm. Jext morning, at 6 A.M., the seat of inoculation was covered partly with impetigo pustules, of which he counted thirty-five, and partly with small slightly red patches; betweeu © A.N. and 11 A.a. he saw twentr-fire impetigo pustules form on these red patches before his eves, most of these pustules being perforated by a hair. After eight days, most of the pustules had

Irivd up and disn!pearak, except two; which developed into large aut pabuful boila, mand for the next two or three months he was anhjeet to 11 recurrene of the inngetigo pustules on the akin of Wis left ioreurn. Is will be sern, tho resnlt in Boekhardt's experiunents were suildar than in Garrés: and Bamgarten attributes this, and probably corractly, to the fact that Boekharit wiployed a rumeh mere dilute mixture of the organisma, and also a sibalter phautity of thezu. That this fully wecounts for the differences will be evident when we come to consiler the question of the doso of organloms:
Bewn injected pure cultivations of what was apparently staphylneocen pyogenes aurens into the subcutaneous tissua of his own arm, and into the armis of two other persons. The culfivations were unixed with a few drops of salt solution before injaction. On each necasion mu ubseess developed, which varied from the size of a pigeon's egg to that of a man's fist, according to the time which clapsed before they were opened, and theso abdosspy eoutained large numbers of the organisms employed.

## Anatony of Abscess

As regards the mode in which an abscess is produced by these rganisms, a considerable number of facts have recently been obtaioed from the examination of parts after infection. i Where the organisms are circulating in the blood and become deposited in tho smaller eapillaries in the form of plugs, as is seen in inamia, the first effect is the change in the tissue, termed by H"cigntr "coagulation necrasis," and figured by me in a paper on Hicrococci in Relation to Suppuration, etc., published some years ago. On stainiug sections of tissue in which these plugs are perseat with the ordinary aniline dyes, it is found that, while the mass of orgnnisas is intensely stained, and while the nuclei ia tho anction have become well coloured, thero is a ring of tissue nround the centrul mass of organisms which does not take on the stain, anl which presents a homogeneous translucent spparance; this ring eridently resalts from the action of the concentrated prolucts of the micrococci, the tissue being brought into the conilition of coabulation aecrosis. After some hours, a second ring alphears, at a qreater distance from the mass of organisms, this rigg leing conpused of a dense layer of leucocytes, apparently callecting where the chemical substances are more dilute and do not interfere with the life of the cells. As time goes on, the iatermedinte translucent layer becomes infiltratea, on the one hanll with cocci from the eentral plug, and on the other hand with cells from thr outer ring, and the original tissue rapidly ulsappeare, probably as the result of the peptonising action of the cneci. At the tame time the lluill effused does not coagulate, problably alsy on necome of the peytonising action of the cocci on the fibringen, and thus we come to lave a central collection of Aluid containing leucocytes and micrococci, surrounded by a will of lencocytes and cocci-in other words, an nhscess.
When the cocci spraat into.the surrounding tissue after injection, or from wounls in the skin, etc., they apparently at first fremuently follow the course of the lymph channels. In the case if injections, as in llumm's enses, we find at the seat of injection a contral mass prestating a yellowish appearance, due to the presonce of large numbers of leucocytes and cocci infiltrating the injured parts, this central yellow mass being surrounded by in inflamed area, in which are also leucocytes and micrococel. th the margin of the inflamed area the cocci are seen to be multiplying nad penetratiag into the surrounding tissue in all direcm thons, the mode in which they spreal varying according to the lensity of the tissue; thus, where the tissuo is fairly dense, they spread in masses, white in the loose cellular tissue they form tuall groups and chains of four to six members. The collular tissun attacker sonn lases its fibrous appearance, the fibrilhe awolling upiand a homogencous mass forming, this mass ultimately undergoing liquefaction. just as in the case previonsly described. Bayoid the area of infiltration with organisms a layer of lencacytes is formetl, but at tirst this layer does not seem to beanble to nplose thas spread of the organism. In rabbits, howovor, nfter abuat, the thirl-and more especially the fourth-day, their spread boging to be limited, and the zone it which the cocci are penefrating into the tissue becomes thinner. In rabbits, by the ninth day the tissues lare, as a rule, complately got the upper hand, and the micrococenl growth is surrounded and limited on nll sides by a layer of lencocytes (Erast). The sequence of events in man is qnite slmilar, but, as a rule, the coeci become enclosed more fritickly than in rabhits. I may say that I have hero beon apenkinde of the effects of stapliylgeocci; the mode of spread and aotion
of the strejtecocci is, is Opston first pointed out ant as 'will he afterwards mentionesl, somewhat clifferent, and these differences upparently bear some relution to differences in the peptonising power of the two species of orgnisms.

As rogards the mode in which the cocci act on the skin, for example, in the experiments made by bockhardt, the following seem to be the facts. The points at which the pyogenic cocci penotrate into the skin are the ducts of the sweat flands, the orifices of the sebaceous glands and hair follicles, and portions of the skin where the protectivo epidernais has been scratched or destroyed. If tha micrococei penetrate hy one or other of these patlis into the skin, they multiply either in the wall of the ducts of the sweat glands and the adjacont part of the. Malpighian layer, or they penetrate into tho external root sheath and into the Malpighian layer at the orifice of the hair follicles, or they develop at some part of the Malpighian layer which has been deprived of the epidermic covering. They multiply rapidly at the seat of infeetion, and set up vialent suppurative inflammation in the neighbouring papilla, the violence of this inflammation being evident from the rapidity witl' which the pustules appear after imunction. As a rule, when the micrococci only set up impetigo pustules, they do not spread beyond the epidermic tissue; if they do so we have the conditions necessary for the production of an abscess in the skin; this, however, generally only occurs after conrse mechanical injury to the skin. A boil develops, especially from impetigo pustules which have formed in connection with hair follicles, or with the orifices of the ducts of the sweat glands in the following manner: After the micrococci have entered these parts and set up the impetigo pustules, they gradually spread in the wall of the ducts until they reach the end of the sweat gland, or sebaceous or hair follicles. Coagulation necrosis occurs around them, and violent inflammation is set up in the vascular tissue surrounding these ducts and glands, with the result that a layer of leucocytes is formed like a, wall around the affected epithelial tissue. As the necrosed wall of the duct or hair follicla becomes infiltrated with pus cells, the core of the boil is formed; pus forms around the core, and ultimately the skin gives way and it is expelled.

Can Suppuration Occur without Micro-organlsms?
Although it is thus evident that these arganisms can cause suppuration, a rery important question, and one which has been much debated, still remains for consideration, namely, Whether acute suppuration esn occur without the action of:
organisms. It is only in a very few instances organisms. It is only in a very few instances that pyogenic organisms have been missed in acute abscesses. Rosenbach bydatid find any micro-organisuas in two cases of suppurating could, under and he was inclined to think that a hydatid cyst Hut the cases of this kind which have since beca investigated have always shown the presence of micro-organisms in the pus. The other cases of acute suppuration in which micra-organisms have occasionally been missed are cases of suppurating buba after soft chancre; in a certain proportion of these cases the ordinary pyogenic organisms have been found just as in bubo after gonorrhou, but in a considerable number, and more especially in faces abscesses which, after being opened, become chancrous surinstance, howanisms havo as yet becn demonstraterd. In this virus of soft clancre, a virus which $i s$, in all probability of $a$ bactcrial nature, but which has not as yet' been satisfactorily demonstrated. As this is the case it can hardly be a matter of surprise that organisms have not been found in a certain proportion of thesa bubos; and that, under certain circumstances, pyogenic organisms are present is only what we should expect as the result of the mixed infection which is so apt to occur. Although, therefore, organisms have not been found in some of these cases, we chnnot. hater the circumstances, conclude that none are present. With these exceptions we al ways find that acute suppura-
tions occurring oaturally are assnciated with microorganisms號
Numemus experiments have boen made with the view of aseerresult of injuries of a mechanical or chemical mature accur as tha result of injuries of a mechamical or chemical nature without the as settled that, in the lower animals at any rate, begarded injuries, though frequently repeaterl, cannot of themselves lead to supparation: had, as a matter of fact, the whole discussion at the present time is limited to the effect of $a$ fer acrid chemical suhstances, namely, croton oil, ammonia, and bil of turpentine.
With regard to these substences, a large number of investiga-
tions have been made with contradictory results. "Ou the one hand a number of observers' state that one or all of these substances can cause suppuration in animals. I myself came to the conclusion some years ago that crotou oil could cause suppuration in rabbits. Onitting the carlier experiments, which were not free from objection, I may mention the method I ultimately adopted with the view of excluding all possible contamimation with organisms. I took a mixture of equal parts of croton ailjand olive oil, sterilised it, introduced it into sterilised glass capsules, which were then sealed at both ends. Au incision mas made antiseptically in the muscles of the back of a rabbit, and the tnbe introduced into the muscles; the wound was then stitehed with catgut, and an antiseptic dressing applied. The result was that in a certain number of cases the wound healed by first intention, and the glass capsule remained embedded in the muscles as an unirritating foreign body: After a certain time had elapsed the capsule was broken by हlight pressure against the spine, and thus the croton oil was brought into contact with the tissues. In one experiment performed in this way the capsule was broken fifty-four days after its insertiou, and the animal was killed twenty-seren days later. On making an incision into the part a quantity of puttylike material was found. In another experiment, forty-five days elapsed between the operation and the breaking of the tube, and the result was the same, except.that there ras a much less quantity of this putty-like material. No organisms were present in either case.-Councilman and others who have followed the same plan mention similar results, as do also. other observers siuclitas Orthmann, Grawitz and de Bary, etc., who have adopted different methods.
3, On, the other hand, ise have a number of experineents, carefully conducted by a number of independent observers;rin irbichino. suppuration has followed the introduction of irritating chemical substances. Thus Straus took especial care tliat organisms shonld not be introduced along with the material injected by cauterising the surface of the skin at the seat of injection, so as, to destroy the organisms on $1 t$, and he is positive that ibese substaneés do not cause, suppuratiou. + Perhaps the most valuable of thase researches is that by Hlemperer, who adopted. Straus's method with. still greater precautions. He states that he has failed to cause suppu-ration by the injection of these substances except in cases arhere micro-organisms were present'at the same time. I mayl also meation a research by Ruijs, where the materials were injeeted into the anterior chamber of, the eye, and. where the effectricould rbe watched. Here also it was found that if organisms are absent, suppuration does not follow the introduction of these chemical substances.

In weighing the evidence it is clear that most stress must be laid on the negative results. If a number of careful observers have failed entirely to produce suppuration by the injection of these irritating chemical substances, then those who have obtained a contrary result must either have brought some other factor unwittingly into play, or there must be some other explanation of the result.

The explacation of the positive results given by those who hold the opposite riew is that organisms-were really gresent in the pus, but were either missed from imperfect examination or had died out before the abscess was opened. Speaking of mry own results, I am positive that organisms were not present in a living state when the animal was killed, and although it>is quite possible that they may have been present at an earlicr period, and have died out before I opened the abscess, I do not think that this explanation is - satisfactory one, for other investigators have examined the seat of injection after a shorter periad than I did, and have likewise failed to find micro-organisms; and, besides, the character of the disease induced is different from that caused by micro-organisms. In the latter case we have h progressive suppuration, an abscess which goes on spreading, Thereas those Who speak of suppuration occurring after the introduction of croton nil, ctc., state that it is not a progressive inflammation, and does not resemble that ciused by micro-organisms.

On the other hand, it secms to me that we are possibly disputing about the same thing, that what the one sct of bbserrers calls pus, the other set looks on as fibrinous exudation, for Klemperer, Ruijs, and others speak of the accurrence of fibrindis crindation containing many leucocytes as the resnlt of their injections. Certain it is that, after the injection of these chemical substances; true creamy pus is, not obtained iuless miero-orgdnisms are present ; the most that one gets is a collection of hity-like material, and it becomes a question whether this "putty-like
material may not simply, be, a further change in what has been found at an early stage, und has then preseuted the appearance of fibrinous exudation. Klenperer states that on examining a part into which crofon oil has been injected, the tissues at the cenfre of the irritation are of a yellaw celour, infiltrated with filbrinous, exudation and large numhers of Ieucocytes. Where the pyogenic organisms act, their peptonising action rapidly dissolves this original tissue, and prevents the coagulation of the fresh exudation, and thus a cavity, containing fluid pus, is rapidly produced. On the other hand, where these organisms do not act, there are still grounds for believing that the tissues themselves can, very slorrly it is true, dissolve and remave the dead material, and, thus we may quite mell find, as the result of the prolonged action of living cells on the extensive dead mass, a putty-like massis Which has been described by some as pus.
This seem's to me to be the mast probable explanation of thesen discrepant statements, but on this view we must admit that these irritatiug substances cannot cause trne acute suppuration when micro-organisms are absent. The result whicl they produce is a different pathological process, corresponding more closely Witl the formation of chronic abseesses than with that. of true suppuration. For the formation of acute alscesses we apparently require the presence of the peptonising ferment produced by the micro-organisms, or, at añ rate, of à chemical substance ; whicl prevents caagulation of the exuded fluid. Thus me have- to note that both Grawitz and. Schenerlen, the latter of whom, denies the opcurrence of suppuration as the result of irritating chemical substances, have succeeded in inducing acute absessés by the injection of cadaverine, an alcaloid separated by Brieger from: putrefying flesh; this șubstance is notonly, an irritant, but also prevents coagulation.
As a natter of fact, in Nature the only situations, where we beve to consider the possible, occurrence of suppuration without organg isms are the siuface of wounds and the skin. With regard to the possibitity of acute sippuration from a round as the result of the initiation of the antiseptics applied to it, I, nust confess. that I have never yet seen true creamy pus coming from the surface of a Wownd without finding at the same time micro-arganisms'in it and I suspect that the only effect of the antiseptic substance is to incrense the amount of exudation aud the number of leucocytes. and thus cause at most a senir-purulent discharge. The only other instance in which I have seen suppuration in man without mieroorganisms as the result of the action of chemical substances is on the skin at the margin of the new alembroth dressings, where pustules are apt to occur when the discharge is at all free, the contents of these pustules being a sticky semi-purulent material and not containing any micro-organisms. This is the nearest approach that I hare seen to true acute suppuration in man mithout the action of micro-organisms.

## A LECTURE

ANATOMICAL PECULIARITIES IN RELATION TO DISEASE.
Being one of a Course on Evolution in Pathology delizered at the Royal College of Surgeons.
Br J. LLAND SUTTON, F.R.C.S.
Hunterian Professor ; Assistant-Surgeon to the Middlesex Hospital.
Mr. President and Gextlemex,-Not the least interesting investigations in the province of comparative pathology are those which relate to morbid conditions, depending in a great measure, or almost entirely, on anatomical peculiarities. The material at my disposal to illustrate this question is rery large, hence, on the present occasion, ouly the more strikiug examples will be chosen for description. My first illustration is taken from the lamellibranchs.

Lining the concarity of the sbells is a membranous structure, which may be regarded as the integument, and kiown As the pallium or mantle. The shell itself is the direct result of the excretors efforts of tlie lobeg' of the mantlo, and is "composed of animal matter hardenerl by deposits of'carbonate of dimés? I Y 53 .

Occupying the space between the mantle of opposite sides, we find the animal froper consisting of hranchia, intestines, foot, nervous system, heart, reproductive organs, ctc.

These inimals nbtain their food in a somewhat lazy fashion. The margins of the gills are corered with cilia, which, by their constant movements, set up inhalent currents, which not only serve to oxidise the blood in the branchic, but convey enacrete particles, many of which are seized upon by the mussel and utilised as food.

Some lamellibranchs have animals commensal upon them. Commensalism differs from parasitism, in the important fact that an animal commensal on another lives upon the fond of its host, whereas a marasite lives in the carities or tissues of, and draws nourishment from, the blood of its host. It rould seem that as long as the animals commensal on a lamellibranch keep within the space between the mantle they are safe enough, but occasionally they are rash enough to penetrate the space between the shell and the mantle.
This trespass is resented by the lamellibranch, and the trespasser is punished by being entombed in shell-tissue, and in some cases by pearl.

A very beautiful example of this has lately been recorded by Dr. Günther (1ro. Zool. Soc., June 1st, 1886). The specimen is represented in the accompanying roodeut, Fig. 1. It had been in I)r. Qünther's possession for many years. It is an old shell of Margarita margaritifera, in which there is embedded, behind the impression of the attractor muscle, a perfect individual of a fish belonging to the genus Fierasfer. The fish is covered by a thin lajer of pearl-substance, through which not only the general outlines of the body, but even the eye and mouth, can be seen.

In this case the fish, insterd of keeping between the two halves of the mantle, penctrated hetween the mantle and the shell. The irritation thus caused induced the molluse to cover the intruder with pearl. The secretion must have taken place in a very short time, at any rate before the fish could hare been destroyed by decomposition.

Specimens of this nature arrest attention on account of their novelty, and many similar cases could be adduced. This encysting process may he studied in mammals, particularly in the molars and tusks of elephants. In numerous cases, spear-heads, bullets, and other foreign bodies have from time to time been found completely embedded in ivory. Eren in the human subject foreign bodies encysted in connective tissue come under observation.


Fig. 2.-A fish of the genus Ficrasife imbedded in a pearl oyster (after Guntler.)
The Incisors of Kangaroos.-The dentition of kangarons is, in wany respects, peculiar. In the present case it is only with the
incisors that ree are concerned. It will be seen from the drawing (Fig. 2) that the upper incisors are three in number, and present


Fig. 2.-The upper and lower incisors of a kangaros
little that is exceptional, but the lower jaw possesses only one, and this, in order to antagonise with the upper incisors, is of large size and procumbent, projecting horizontally forward. They are flattened from side to side, and are slightly convex in the outer surface; the inner surface is flat, with a median ridge; the margins are sharp. These incisor teeth are provided mith a large and persistent pulp. Which extends an unusual distance along the tooth, reaching nearly to its distal extremity.
The points of these teeth, shaped something like a lancet, are exceedingly thin and brittle: as a consequence, the tips are frequently broken, and if only a small piece is detached, the pulp is readily exposed. Kangaroos, like mammala of even high moral pretensions, have domestic differences, which occasionally lead to unpleasant consequences. In the encounter the tips of the incisors are broken, the exposed pulp becomes inflamed, suppurates, and leads to alvenlar abscess, which, in some cases, terminates in death. In Fig. 3 two views of the symphysial portion of the


Fig. 3.-Portion of the lower jam, with therincisor fteeth of a kangaroo, - Powing the effect of nlveolmr abscess. M. the mental formmen.
lower jaw of a kangaroo are given, showing the disastrous effects of an alveolar abscess arising in this way. Such cases are by no means uncommon.

The Fermiform Appendir.- In that man has connected with his cecum a vermiform appendix, he agrees with the anthropo morpha, but differs from all other mammals. This appendix is the vestigial representative of the largo cencum found in very many mammals. Thougli uscless, it is not linmless, as a careful atteudance in the post-mortem theatre of any general hospital iu this metropolis will show. The inconveniences which may srise from the possession of this rudimentary structure are threefold = 1. not infrequently foreign bodi,s, such as fruit stones, small pieces of pencil, and other similar indigestible substances becomo pmpacted in it, induce ulceration, perforation, and peritonitis: 2 ,
its orifice may become, obstructed, and the appendix dilate into a cyst; 3 , containing, as is common witli vestigial portions of the alimentary tract (vitello-intestinal duct, post-anal gut, etc.) a large amount of lymphoid tissuc, ulceration may occur independently of a solid irritant and destroy life.

On the present occasion, however, I am not desirous of drawing many instances from man, but shall deal with one other inconvenience he suffers in common with many members of his class, and even birds; fortunately one that is rarely serious, but interesting nevertheless.
Sebaceous Clands.-The normal anatomy of a sebaceous gland is so well known that it is unnecessary to describe it here, so we may pass at once to a consideration of some of the disadvantages which may arise from their presence. Not infrequently the orifice of the duct of one of these glands becomes obstructed, whilst seeretion continues within the alveoli. The acini of the gland thus hceome distended with the result of their own activity, and a retention cyst is the result. In man such cysts may occur Whercyer selaceous glands exist, varying in size from a pin's head to an orange. The walls may be thin and pliant, or laminated, thick, and hard. In man they are very common on the sealp, face, and back; on the scrotum and perineum they are rare. The eontents of a sebaceons cyst are epithelial senles, granular fatty matter, and flakes of cholesterin.

The most curious condition associated with a sebaceous cyst is when the contents burst through the capsnle, become dry and hard through exposure to the air, and of a brownisl-black colour, rescmbling horn in appearance. If the dried mass is allowed to remain, growth continues at the base, and at length a long cutancous horn is produced. (Fig. 4.)


Hig. 4.-Cutaneous hornis on the face of a moman. The one on the forchead is 5 inches long.
The most claborate collection of cases illustrating this singular condition is to be found in a small work by Dr. Hermann Lebert (Ueber Keratose, Breslau, 1864). IIe furnishes an account of one hundred and nine cases, with full refcrences, the earliest dating from the year 1300 . The horns were found on the scalp, temples, forehead, eyelids, nose, lips, cheeks, shoulders, arm, elbow, thighs, legs, kinee, toes, axilla, thorax, buttock, loin, penis, and scrotum. In length they varied from a fraction of an inch to as much as ten or twelve inches, and in circumference some of them measured eight inches. The majority of these cutaneous horns occurred on the head.

An excellent account of human horns is furnished liy Sir Erasmus Wilson in his well-known work on Dheeases of the Skin, iin ed., p. 653. Besides furnishing details of some goqd examples of these abmormal appenlages a brief but interesting smmmary of some of the more strikiug cases is given. The Transactions, of the Puthological Society of London contain accounts of many curious cxamples of cutancous horns, including one which grew from the prepuce of the clitoris. The Phil. Transactions for 1791 rontain an interesting communication from Sir L. llome, in Which some extraordinary cases of cutaneous horns are described: Therns growing from sebniccous cysts are not infrequently scen in the out-patient rooms of large lespitals, but they are as a rule very small in size. Cases such as those described in Jome's paper must be very rare at the present time.
Leaving man, and cxtending our inquiries to lower aninals, we
shall find that sebaceous cysts and their consequences are by no means confined to him. They may occur in liorses, dogs, sheep, oxen, and birds.
Lebert gives references to cases of cutaneous horns in sheep, hegoats, horses, rams, hares, coms, and dogs. Malpighi described one growing from the neck of an ox, ten finger's-breadths in length, and eight in circumference at the base. Ilomedescribed in a footnete to the paper already mentioned the case of a sheep about four years old, which had a large horn, three feet long. growing on its flank. It had no connection with bone, and appeared only to be attached to the exterrial skin. It dropped off in consequence of its weight having produced ulceration of the soft parts to which it adhered. On examining it there was a fleshy substance, several inches long, of fibrous texture, filling up its cavity, on which horn had been formed.

In the teratological collection of the Royal College of Surgeons there is a horn three feet five inches in length, and eleven inches in its greatest circumference, said to have grown on the flank of a ram; preservel in a jar near it is the soft core of the same, exactly corresponding to Home's description. The sprecimen is labelled IInnterian, and I have no doubt it is the one referrell to above.


Fig. 5.-Head of a cow with a cutaneous horn.
In the same collection, near it, two other specimens of cutancons horns are preserved. The first, Fig. 5, a Ilunterian specimen, is described as "the head of a cow with a very large hornlike appendage growing from the forehead immediately between the eyes. The second is the head of a sheep, Fig. 6; in this case the horn causes it to resemble the head of a cassowary.


Fio. C.-Head of a sheep with a cutaneons horn.

Judging from the general character and texture of thesio horns and the nature of the softer material fil ing them, I have no douht they originated in sebaceous eysts. These horns, and that whieh ham fust been mentioned as growing from the lhank of asheep, are the lurgest I have deen or of which I cun find any record.
We will now proceed to consider some cases which have been found in birds.
 cysts on the wings (l'roc, Zool. Soc.).
It is usual to helieve that in birds sebaceous glands are wanting, (xecept in the case of the one over the coceyx, known as the oil or uropygial gland, which is especially developed in water fowl, and serves as a store of ointment in which the bird dips its beak and annints the feathers in the act known as preening. It is a very significant fact that no known loird ever las its neck shorter than its trunk; that is to say, it is always of sufficient length to nllow the bird to reach the oil gland. This strueture is not invariably present, for the struthions birds, some of the Columber, anl others, lack an oil gland. In the pigeon it is bilobed, of a whitish colour, and a quarter of an inch in length. A duct which is directed backwards has its orifice indicated by a papilla. Such an oil gland as this is lescribed as leing nude. In others it is surrounded by a circlet of small fenthers, and is then deseribed as tufterl. The majority of birds have two ducts to this gland. In the hombill the gland is of a deep orange-yellow colour, which stains rery freely things brought in contact with it.

Sebaceous glands exist in other parts of birds' integument, such as the wings, head, neck and breast. They resemble the glunds of man in structure, in the tendency to form cysts and in growing horus. Thus in Fig. 6 a cockateel, Calopsitta nove-hollandia, is sketcherl with a sebaceous eyst on the under surface of each wing. nnd many specimens are preserved in the Museum of the lloyal College of Surgeons, occurring in pigeons, partridges, linnets, etc.; some of the cysts are of large size.

The tendency of sebaceons oysts to form horns in hirds is as marked as in the case of mammals. Thus in a mule eanary a horn of this nature grew from the under surface of the wing, and was eurionsly curved and twisted. This horn was shed each time the bird moulted, and inquiry seems to show that with birds this is the usual rule. The horn must grow very rapidly to attain such a length in so short a time (Fig. 8).


Iig, Q.-The wing of a mule canary with a cutanemas horn growing fosait. Niatural blze. (Museum of the Royal College of Surgeuns.)

Through the kindness of Mr. W. Roger Williams I am able to figure and describe a pretty cuse of sebaceons eysts and horns in a thrush. In this instance the bird presented a cyst uponits head (lig. 9), whilst cutaneons horns, as shown in the drawing, were


Fig. 9.-The head of a thrush with a sebacents cyst. On the leg of tbis bird attached to its thigh. In this instance the horns were detached when the bird moulted. The thrush was under the observation of Mr. Williams for some time previous to its death.
Sebaceous cysts in birds present characters similar to such cysts in man ; in some instances the contents are pultaceous, in others laminated and hard. This is well shown in a eyst growing on the head of a blackbird in the College Muscum (Fig. 10).


Fig. 10. Tho head of a blackbird with sehaceous cyst. The conlents aro daminated.

Before leaving cutancous horns it may be interesting to draw attention to a singular cluster of these structures which occur normally on the forearm of IIapalemur. These were first deseribed by Mr. F. E. Beddard (Proc. Znol. Soc., 1881, 1. 391) in ILapnlemur griseus: underlying this cluster of cutancous horns is a gland of oval sliape und corrisponding in size to the patch of spines. The ring-taileal lemur (I.emur catta) presents when adult a curious catancous hornlike structure on its forearm, in a situatiou corresponding to that on the arm of Mrapalemur (lig. 11).
This horn or comb-like structure was first noticed by Dr. Jentink in specimens contained in the Leyden Museum. The simi-
larity of this structure with the small spines on the arm of Hapalemur induced me to examine the adjacent smooth "patch on the forearm of Lemur catta, and I had the satisfaction of linding a large collection of glands, the secretion from which, when dried, gires rise to the horny projection in question.


Fig. 11.-Arm of Hapalemur with the patch of cutaneous spines on its forearnd (Proc. Zool. Doc:)
These structures are interesting, inasmuch as they may be regarded as intermediate to the pathological cutaneous horn ou the one hand, and the cutaneous nasal horn of the rhinoceros on the other, They also furnish some light as to the nature of the singular patch of hard integument known as the castor on the inside of the foreleg of the horse. In addition, we may use them as physiological types of cutaneous horns which in man only occur. under pathological conditions.

ON THE ABORTIVE TREATMENT OF SYPHILIS.<br>Read before the Medical Society of London, on Monday, February 20th, 188s.<br>By JONATHAN HUTCIUNSON, F.R.S., F.R.C.S., LL.D., Emeritus Professor of Surgery at the London Hospital.

For many yeare past I have been in the habit of assuring patients who came to me with indurated chancres but without any other symptoms, that they would in all probability wholly escape the secondary, stage. As years have gone on I have found myself holding out this hope with increasing confidence. My treatment haa been almost uniform, and has consisted in giving mercury in the form of grey powder in one-grain doses three times a day, at least, and more frequently if the symptoms did not quickly yield. I have always told the patient that he must take these pills for air months at least. The results have also been very uniform, or have varied chiefly according to the period of the disease at which the treatment was begun. The effect of the medicine in softening the induration is ustally quite evident within a week, and may be expected to hecomplete in the course of a month or a little more. After this the patient remains without symptoms till the end of, the course, except, perhaps, some slight persisting enlargement of the inguinal glands. At the end of the six months, if the treatment is left off, there not very infrequently follows in three weeks or a mouth an crythematous general eruption.: This eruption is never severe, never hecomes papular or scaly, and always vanishes in a few days if the mercury is resumed. It is nerer attended by failure of health, and but rarely by sore throat. On account of its frequency after aix months' courses, I have lately been in the habit of continuing the treatment for nine or trelve months, and am willing to admit that it might be wise to continue it for still longer periods. As regards relapses at still longer periods, 1 mnst state that, in a certain proportion of cases, sores in the mouth or scaly patches in the palms, or a liability to transitory erythemata on the skin hare occurred, but they have generally been in conncetion with gome special kind of irritation.

The statement which I wish to make quite clear is this: that I believe that it is quite possible, by the early and continuous use of mercury, to suppress the secondary stage-in other words, to make it abortive. In exceedingly fem cases where it has been possible to use mercury without interruption in this way have I known a
well characterised secondary éruption or a typical sore throat to occur. In casea where diarrhoia or sudden ptyalism hare caused the courso to be interrupted, the success has been less complete; but where the patient is careful, and can bear the drug, I may repeat that 1 believe that it is easily possible to prevent secondary symptoms. This assertion is not by any means the same as saying that it is possible to cure syphilis, for it does not concern itself with the tertiary stage. It is desirable, I think, in order that we should arrive at sound conclusions, that we should take our problem in parts. 'In making the proposition which I desire to submit to you this erening, that mercury is a apecific antidote for the syphilitic virus, and that by its use the disease may be made abortive, 1 will dlvide my argument into several parts.
The first statement shall be one with which all will agree. It is this: that in cases in which induration is well characterised and considerable, it always yields quickly and definitely to the influence of mercury. The very rare apparent-exceptions to this which we witness occur to those who in a peculiar manner resist the influence of mercury. We never see sores remain typically hard when the patient is under the influence of mercury.
The next is that in cases in which high temperatures have been observed in syphilis they calways abate under the influence of mercury.
Thirdly, I believe that all will agree that when a patient receives no treatment until his eruption is well out, the use of mercury will usually in the most definite manner cause the eruption to disappear. There is but little less certainty abont this than there is as to the disappearance of induration in the sore, and the exceptions occur only when the treatment disagrees, and bas to be interrupted.
If these several propositions be true, if mercury always causes induration when present to soften down, fever when present to subside, and an eruption when present to disappear, 1 cannot think that any will see much improbability in the assertion that if used before the fever, rash, etc., have shown themselves, and steadily continued, it will prevent their derelopment. It would be extraordinary if these symptoms should develop de nozo under the rery conditions which all but invariably secure their remoral when extant.
Those who object to the statement that mercury is an antidote to syphilis, and decline to employsuch terms as "specific," "abortive treatment" and the like, do so because, as they allege with truth, it can seldom or never be asserted that the disease has been wholly or, at: any rate, permanently cured. This is, however, I camot but think, putting a too strong meaning on the words. It may easily be the fact that we hare not yet hit unou the best method of using the remedy so as to secure permanent results. It is not fair to demand of a "specific". that it shall always prove its efficacy without regard to differences in the mode in which it is employed. A remedy may be fairly called "specific" if it always and invariably manifests its power orer the phenomena of a disease: It is for the presoriber to find out how so to use his specific as to bring about an actual cure. As regards the term "abortive treatment," its appropriateness may surely be justified in any case in which it is designed to cut short the development of a malady and prevent the evolution of its natural stages. We must not strain the mord to make it mean absolute annilinlation of the thing concerned. If a scheme of treatment of syphilis, begun in the primary stage, is planned to prevent the secondary phenomena, and usualiy does so, it may, I think, be fairly styled "a hortive" in contradistinction with others which make no pretence to prevent the ordinary evolution of the malady. Abortion, as regards preventing tertiary symptoms, is, as I shall endeavour to show immediately, another matter. It is possible that in our preseut modes of use of mercury we neither begin early enough nor continue long enongli to secure that result.
The term antidoto, when used in reference' to mercury as against syphilis, must be sustained by resort to more hypothetical reasoning as to the nature of the disease. In the rear 1860, in a paper read hefore the IIunterian Society, I first rentured to claim a place for syphilis amongst the exanthemata, and argued that in its phenomena as regards stages, period of incubation, and other points, it resembled the diseases which we attribute to specific animal poisons. Amongst those who took part in the debate on my paper were Mr. Acton, Mr. De Meric, aud athers who at that time were the leading authorities on the subject. Some years later 1 read before the same Society another paper, claiming for mercury, on much the same gromnds that 1 have this erening advanced, the position of a specific. My views were on each occa-
sion warmoly opposed, but 1 believe that the progress of investigation since then has done much to facilitate their acceptance. for myself, 1 may eay that I have always, in speculating about the cause and evolution of syphilis, held firmly to the belief that it is due to a specitic particulate virus, just as small-pox is, or in the language of to-day, to a living microbe. Other observers, with most prasuworthy zeal and industry, have occupied themselves with the endenvour to bring this microbe to actual demonstration, ner have I the slightest doubt that their seareh will some day be crowned with success. In the menntime, if we would understand the diserse we must, 1 think, take its existence as granted. It is in reference to this as yet hypothetical microbe, that we justify the assertion that mercury is an antidote; we know how powerful that drug is in preventing the development of plant life, and that which we know fits well with what we observe of its efficacy and its failures in the treatment of syphilis. It is antidotal to the virus, and so long as present it prevents its manifestations of activity. In some cases, but by mo means in the majority; it probably kills it outright. The more usual result is a repression of vital activity in the virus, which lasts as long as the drug is used. This repression, if continued for long periods, would appear to amount to a very important modifiention of power, for 1 believe that if the secondary phenomena be kept in aleyance for many months, their subscquent development, if then permitted, will never be severe. If continued long enough it will wholly prevent the secondary stage, and yet I fear it is true that even in these the patient may be liable to tertiary affections.
If it be rejoined that no remedy can claim to be antidotal or specific respecting which it is admitted that it does not prevent tertiary sequela, a reply is yet possible. There is a sense in which, without any hair-splitting, tertiary symptoms may be said not to be syphilis at all. There is neither proof nor prolnability that the microbe or virus is present in their lesions. They do not develop symmetrically, and they are not contagious; they are due to processes of inflammation occurring in tissues which have formerly been under the influence of syphilis, and have been modified by it. If this be their true prosition, it will easily be seen that no antidotal treatment directed to the killing of the mierobe can prevent them, unless it is commenced before the system has been coutaminated. If we wait till the sore is well developed, the patient feverish, and the eruption on the eve of appearance, we have waited until the patient has had syphilis through him, and though We may then proceed to cure the disease by killing the paison, it is too late to prevent its remote effects. In saying this, do not let me bo understood to say that the use of mercury late makes no difference as to proclivity to tertiary symptoms. On the contrary I believe, although it is impossible to prove it, that it does make them both less common and of milder type.

The practical questions which come, then, before the surgeon are these-In what manner and at what stage ought mercury to be given so as best to secure its antidotal efficacy?

The verdict that mercury given in short courses is not preventive of the development of syphilis has been recorded in unmistakable terms by the aurgeons of the past generation. Mr. Judd, indeed, whose reporte are full of interest, and contain proof alike of ability and of candour, thought that such courses favoured the absorption of the virus, and made the disease eventually more severe. Its courses rere, howeser, of a fortnight, a month, or six weeks at the most, and were always attended by free ptyalism. The modern introduction of the small-dosesystem, with the avoidance of ptyaliam, makes it necessary that we should investignte the whole question nnew. I do not suppose that there is much difference, as to the special preparation of mercury which is employed, thougb it will not do to take this for granted. Some of the records of M. Diday is to his failures to prevent symptoms would add to the suspicion that the iodide of mercury, as employed by him, is less efficient than the mercury only, in the form of grey powder. Tho great point is that a preparation should he used which can be pushed without producing symptoms which necessitate its temporary discontinuance. Its eflicacy may be taken as proved by the prompt disappearance of the primary induration. The dose which is efficient to this result will, if steadily persevered with, probably be efficient in preventing the development of other symptoms.

The question arises, I think, naturally, at this point of our ingiliry as to whether it may not br advisable in the future to attempt the abortion of the primary stage itself. 1 am not aware that any large amount of evidence is in existence as to the possibility of preventing the development of induration in a chancre hy using mercury before it occurs. Fier since the recognition of
the fact that some clancres are not infecting, and tlat the phenomenon of induration is the most valuable one by whleh to diagnose the true or infective chancre, we have been in the habit of waiting till the character of the sore declares itself before beginning to use the specilic. Many, indeed, espreclally those of the lirench school, have adrocated waiting till constitutional symptoms in the form of eruption occur. Our forefathers, Fe well know, did not so wait. For them a venereal sore was a chancre, and they poured in mercury as soon as the patient presented himself, and often within a week or two of the contagion. It may have been that in many cases they succeeded in aborting, syphilis as a whole, and in preventing alike the primary and secondary stages. It is to be feared, however, that their success was but too often prevented by the manner in which they prescribed the antidote. They were accustomed to give large doses during short periods, and were constantly abliged, by the occurrence of ptyalism, to interrupt the trentment. Indeed, ins a rule, a short treatment was all that was contemplated, and the production of free ptyalism was regarded as essential. As I have already suggested mercury may sometimes, when given in this way, possibly prove an abortive treatment-that is, it may kill the virus. Facts, however, would seem rather to point to the conclusion that it only temporarily suspends its activity, and that in many cases a severe outbreak follows soon after its suspension. It is otherwise, I think, when small doses are long continued.

I wish to aroid giving any exaggerated impression of the extent and kind of evidence upon which my statements are based. It is not my intention to produce before you any statistical evidence, nor even to quote individual cases. Io do so would be very easy for 1 hold in my hand $a$ large number of extracta from my notebooks which hear upon the matter. Toread them to you would however be very monotonous, and I think unprofitable. They are for the most part repetitions of the statement that the patient carme under my care with a well-indurated chancre, that I advised a long course of small doses of mercury, that the induration melted away, and that nothing else ever followed. There is a weak point in many, but by no means in all, and it is this, that I have no record as to the patients beyond the first six months or 80 . My practice has for many years, in respect to primary syphilis, been solely in private, and it is of course not practicable to compel patients to come and report after they believe themselyes well. feel sure, however, that this negation of evidence is in itself of the habit of holding out hopes of immunity, if the remedy were persevered with, and I assume that if my foretellings proved fallacious, I should in the majority of cases hear of it. On the contrary, so far as my own observation of primary syphilis has for many years past been concerned, I should certainly never have diacorered that an eruption on the skin was a usual part of the malady. I have of course seen plenty of secondary eruptions in those who had not been under treatment, but in those, whom had myself prescribed for in the primary stage acarcely any. could count on my fingers the number of cases in which during the last five years I have watched the patient from his primary sore through a well-marked syphilitic eruption on the skin. A few I have seen, probably because not sufficient mercury was given, and more in which some very slight and transitory erupto show its powcrs. Of really tronblesome eruptions, such as ar common enough wben mercury has not been used, I may say confidently that I have seen none.

I must admit that the gross total of cases of primary syphilis which have been under my care has not been 80 large as that which falls to the share of specialists, particularly those holding hospital appointments. More patients come to me in the secondary, or later stages, than in the primary. Still, my experience has been considerable, and justifies, I think, the general statements which I havo ventured to make to you this evening. to be clearly understood that I have been speaking only of cases in which the induration was characteristie, and in which an interval of from five to aeven weeks had occurred since the exposureI have never allowed myself to diagnose a sore as infectious, or to begin mercury, except under these conditions.

There is another class of eases which bear testimony which is, 1 think, very valuable as regards the antidotal efficacy of mercury. I allude to those in which the patient comes under eare with his rash fully out, and laving as yet had no treatment. The possibility of aborting the rest of the malady in these is less certia, yet I think we may generally expect it with much confi-
dence. If such patients will take mercury their symptoms will disappear, and if they will continue it there will be no relapses.

In conclusion, I may express my hope that it will have been clear to all that my object in this paper las not been to claim credit for nny particular method of treatment, far less to make boast of personal success. My wish has been to draw attention to a clinical fact which, although hitherto much ignored, or even denied, must have been for long more or less under the cognisance of all engaged in the treatment of syphilis according to modern rules. The fact to which I refer is that the early use of mercury does not only greatly shorten the duration of the primary phenomena, but that it also much modifies, and in many instances entirely prevents, those of the secondary one. 1 have indeed ventured to assert that, when circumstances favour, the febrile stage of the exanthom, syphilis may be rendered wholly abortive. If we can accept this proposition, I feel sure that we shall have gained a step in the orderliness of our future work, and in reference to this the following problems seem to lie before ns.

What plan of treatment is most successful in suppressing the febrile or secondary stage?

Does the suppressing of this stage tend to prevent what are called reminders, or those minor, and for the most part local, symptoms which often intervene between the febrile stage and tertiary phenomena?

Are those in whom the febrile stage has been aborted by artificial means more or less than others liable to tertiary phenomena?

Is it possible by anticipatory treatment to prevent or abort the phenomena of the primary stage; and, if this be done, what is the influence upon the further course of the disease ?
lt has been well said that all men use syllogisms, whilst but few have studied logic; and in like manner I may remark that most of us have been practising more or less completely the abortive treatment of syphilis, though without giving it that name.

## CLINICAL MEMORANDA.

## TUMOUR OF TLIE INTESTINE: SYMPTOMS SIMULATING BILIARY COLIC.

Colonel M., aged 45, who had lived in India for some twenty years, was seized about 2 A.m. on 4th June with agonising pain referred to the right side of his abdomen. An injection of morphine gave relief. But in the course of the following night the pain returned with even greater intensity, so much so, that recourse was had to chloroform inhalation. The case seemed obviously to be one of gall-stone colic, and directions were given to wash the feces through muslin. On the 6th June the patient passed what he thought was a "piece of flesh," but which was a lymphoma of nearly square outline, measuring about one inch and a-half along each side, and a quarter of an inch in thickness. This is not the place for a description of the tumour. As the textbooks give no warning of this source of error in the diagnosis of biliary colic, it seems worth while to place the case on record. Regarding the patient's subsequent history, a dull pain in the abdomen, chielly on the right side, continned for some days, at the end of which he regained his usual excellent healtl. There has been no recurrence of symptoms up to date.

J, Lewtas, M.D.Loud.
lienrietta Street, W.
PUERPERAL APHASIA.
Trr interesting remarks made by Dr. Bateman on the above subject in the Journal of February th lead me to record the following case.
In April, 1886, I was called to see, in consultation with Dr. 3laguire, of Chesterton, Mrs. B., aged 35, who had given birth to her tenth child ten days before. For some time she had suffered from auremia with a hemic murmur, but had improved in health béfore her confinement, which was quite natural; nnd she went on perfectly well, suckling her cbild until the tenth day, when she sat up in a chair for the first time. She was suddenly taken spee chless and helpless, the right side being completely paralysed. In this eondition I found her. Like Dr. Leith Napier in his case, quoted by Dr. Bateman, we attributed the symptoms to ocelusion, by embalism, of the left cerebral artery. Mrs. B. Was perfectly conscious, and understood ererything said to her. There was no increased flow of milk; in fact it went the same niglit after the
attack. The use of the arm and leg was soon regained, so that in five weeks she was enabled to walk about the liouse, and in five months to walk a distance of some miles. In June, 1887, I saw her at Llandudno with Dr. Dalton. We then detected no hæmic murmur. Her general health had greatly improved, but her speech remained rery defective: and, as it has not improved much, if at all, since then, I fear it never will.
Newcastle-under-Lyme.
Charles Ortos.

## REPORTS

hospital and surgical practice in the hospitals and asylums of GREAT BRITAIN, IRELAND, AND THE COLONIES..

## albaity general fiospital, grailaistown, SOUTH AFRICA. <br> a Case of hysterectomy.

(By J. B. Greathead, M.B.Edin., M.R.C.S.Eng., Surgeon to the Hospital.)
J. A., aged 33, a spinster, was first seen on September 5th, 1886. She had had persistent metrorrbagia and menorrhagia for twelve months, and had become very anæmic. The abdominal tumour had grown more rapidy for three months, and, from its size and weight, caused much inconvenience. The cervix was obliterated; and the os externum, somewhat patulous, was pressed forwards against the upper edge of the pubes. The sound could not he passed, but with the aid of a gum elastic catheter the uterine cavity mas found to extend eight inches upwards and forwards in front of the main portion of the tumour.

On September 22 nd, 1886 , chloroform (with ether at intervals) having been administered, a preliminary incision four inches long between the pubes and umbilicus was made. When the diagnosis had been satisfactorily confirmed, the abdominal incision was gradually enlarged until it extended from the pubes to within an inch of the ensiform cartilage. Only then could the tumour with difficulty be lirought through the opening. An elastic tourniquet was placed round the uterus just where the vaginal walls joined it. With n large trocar and camnula a pint and a lalf of black fuid blood was drawn off from the highest part of the tumour. The broad ligaments were next tied in sections and divided as low as possible; but, in order to reach the lowest portions, it was found necessary to cut into the uterus and remove a large portion of the tumour. In this way the pedicle was more readily handled. The uterine arteries were tied with silk and divided. The uterus was next transfixed just abore the junction with the vaginal walls, and tied in two portions with strong silk ligatures. The remainder of the uterus was now amputated half an inch above the last ligatures, a small posterior flap of uterine tissue and peritoneum being reserved for the closing in of the end of the stump (pediele). After all hemorrhage was well controlled and the tourniquet remored, the flap was brought forward and firmly sutured (with five silk sutures) to the anterior edge of the uterine wound. The loose peritoneum was gathered in with a continuous catgut suture, and closed over a neat stumpl. The abdominal carity haring been cleansed with warm water and all tuid sopped up from the pelvic cavities, the abdominal wound was closely sutured with silver wire in the customary way. A dressing of lint and carbolic oil ( 1 to 20), with a liberal supply of cotton wadding, was used.
On Soptember 24 th the evening temperature was $99.6^{\circ} \mathrm{F}$., the pulse 120. On September 26th the wound was entirely healed; the evening temperature was $99.6^{\circ} \mathrm{F}$. On September $2 s t h$ the evening temperature was $101.6^{\circ} \mathrm{F}$. On October 3rd the evening temperature was $102^{\circ} \mathrm{F}$, and the pulse 114. Flatulence caused pain, and was relieved by an enema of soap and water. On October $\ddagger$ th the evening temperature was $101.6^{\circ} \mathrm{F}$. After this date the temperature gradully became normal, and on October 13th the patient was considered convalescent. and allowed to recline in a semi-recumbent posture. On Oetober 28 th and 29th she menstruated, with all her usual symptoms. On Norember 17th to 19th she menstrnated again, with usual sensations. The patient wrote saying that she had again menstrunted on Fecember 8th and 9th. Slie had heen in the habit of menstruating every three reeks before this illness.

- Yote- - Using to absence from lome 1 have not had an opportunity of hewring whether menstrution occurred after December. hut its reappenrance on three occasions with a certain degree of regularity after the removal of uterna and appendages seemed to mo to be of sufficient inportunce to warrant the publicution of a few notes of the cuse 1 unn quite aware that such a phenomenon has been obserred after dnuble ovariotomy: The specimen of noterus and ornries is now in the Musemm of St. Bartholomen's Hospital.


## REPORTS OF SOCIETIES.

## PATIIOLOGICAL SOCIETY OF LONDON. Tuesnay, Februamy 2Ist, 1888.

Sir Jamps Pagfet, liart., F.R.S., F.R.C.S., l'resident, in the Chair.
Parasilic Frefus. - A llindu, aged 17, presenting a large parasitic fortus, was exhibited to the Society by Mr. Blasd Sutton and Mr. S. G. Suattock; a full description of the foetus was read by the latter gentieman, who stated that the parasite was incapahle of spontanemus morement, hut sensations were perceived: urine was passud through the penis of the parasite: the penis was capable of erection; the parasite perspired when the boy perspireal ; the surfuce temperature was low $\left(95^{\circ} \mathrm{F}.\right)$. The report, in discussing the origin of such parasites, favoured the theory that they were due to an abnorma] cleavage of a single orum. [A fuller description and illustration is published at page 436.] - The President asked whether spontancous or reflex movement, or morement in response to electrical stimuli, had been noted in this or other cares. - Mr. Doran inquired whether in other instances the parasite had suffered from visceral disease: such an occurrence would probably have an injurious effect on the autosite. He observed that in this case there was certainly one kidney, and the report staterl that intestine also was present.-Mr. Shatrock stated that no siontancous or reflex morements bad been observed.
1 Periosteal Lipoma.-Mr. D'Arex Power exhibited a specimen of a compuratively rure form of congenital fatty tumour, to which the name "periosteal lipoma" has been applied. The patient, a boy, aged 9, noder the care of Mr. Thomas Smith, presented a soft, painless, elastic swelling, occupying the outer aspect of the npper third of the left thigh; the skin was freely movable, but the superficial veins were distenderl. The tumour was incised and remored; it was firmly attached to the periosteum, just below the lesser trochanter: it weighed 15 . ounces, and measured $G$ by 5 inclaes. It was only partially encapsuled, and consisted of several lobes held together by areolar tissue: the growth was rery firm, and on raicroscopical examination was found to consist of colleetions of fat cells, with thick intervening bundles of connective tisaue. Mr. l'ower referred to Mr. llutlin's opinion that such growtha commence as flbrous or fibro-cellular tumours, the formation of fat being a later change, and suggested that there was no kpecial reason why lipomata alould not spring from tho periosteum, since they are connective tissuo growths which might commence an localiserl proliferations of cells, which rapidly became infiterated with fat. IJe also commented on the abserice of a capsule over the greater part of the growth, and stated that whereas the fat in the encapsuled portion was mingled with 80 much librous tissue that the growth might in this part he regarded as a filro-lipoma, in the diffuso pertion it was simple fatty tiesue.

Mired Tumour of T'arotirl-A specimen of mixed tumonr of the porntid containing cartilage cells was shown by Mr. CtraTasse. The fratient was a woman, who first noticed the tumour at the ace of 15. It was the size of a pea, and did not enlargo much for firteen years; then it grew rapidly, and still more so after an ineffectual nttempt at removal. The tumour was successfully removerlsulsequently, and weighed 20 ounces. The growth consisted mainly of lobuli of fibrdadenoma with acini in certain parts: there were areas of cartilago: in others the matrix was nadergoing myxomutous change, which was prubahly a sccondary degeneration. As to the origin of the cartilnge, Mr. Charasse thought that it was duo to misplaced aural cartilage, which. acting as an irritant, had led to adenumatous growth from the parothi. Ile thought that the prognosis in these so-called enchonEromata of the parotid was favourable, except where the sarcomalous elements predominated.-Mr. Stepues Paget supported the
theory of their embryonic oripin, and referred to a paper by Alr. Jacobson in the Ciuys JIaspital liepurts. Blost of the cases recorded lad been women.
Congenital Mitral Stenosis and T’ulmonary Endarteritis.-Dr. G. $\therefore$ Crooke showed specimens from the case of a man, aged 34, who had had searlet fever wher a child, and rheumatism in one shoulder at the age of 29. . There was no history of syphilis, and his occupation was not luborious. About eightera montha before admission he began to suffer from pain in the left side and ahortness of breath. When admitted thero was oilema of both Iegs, and a lond systolic murnur was heard at both bases and at the nortic area: the uriue contained albumen and hyaline casts. died somewhat suddenly after slight exertion. The post-mortem examination showed pericardial effusion, pulmonary dilatation, incompetence of tho tricuspid orifice, and marrowing of tho mitral orifice, but no evidence of valvular lesion. The right side of the heart was hypertrophied and dilated. The mitral stenosis was probably congenital: the subdirisions of the pulmonary arteries in the lungs and the ressels were found to be the seat of endarteritis and atheroma.- Ir. Wilks had seen troo such cases. They negatived the theory that atheroma did not affect the pulmonary artery and its branches. There was always great hypertroplyy of the right rentricle where there was this pulmonary arteritis and mechanical causes were at work. Ile did not think that it was a seqnence of congenital mitral stenosis or of such stenosis occurring in early life, that led to imperfect growth of the lungs, so that the chest and all the pulmonary organs were dwarfed.-The Prestoment asked whether there was extensive elotting in the diseased vessels:-Dr. Crooke said there were no clots in the larger ressels. - The Prasident said that he had described in papers contributed to the Transactions"of the Royal Medical and Chirurgical Society some forty years ago the occurrence of clotting in arteries, and had a.pressed tho opinion that the process was exactly analogousito thrombosis occurring in veins, that, in fact. it ras due to arteritis. It was a curious instance, he thought, of intellectual hlinduess that the possibility of embolism had never oceurred to him during that investo the possibility, at once suggest embolism.

Complex or Vertical IIfrmaphroditism. - A specimen of complex or yertical hermaphroditism was shown by Mr. C. Stonian. The child had died after an operation for the relief of a hernia, which was found to contain a uterus. . On the right side was a hernial sac, containing organs which appeared to be those of a normal female, but the apparent ovaries were found to be testicles; there was a uterns ending in a vagina, which was In relation with a prostate gland; there was a well-formed bulb; no vesicula semimales were seen. The external organs were those of the male, with undescended testicles; there was partinl hypospadins; the bladder was normal in size and shape, and its neck was surrounded by the prostate; the uterus was well formed, and opened into the vagina ; the testes were attached to the cornua of the uterns; immediately helow the testes was the Fiallopian tube: the epididymis lay below the testis. The mother had had fourteen chidren and eight miscarriages: the fifth and six children presented a well-marked penis and scrotum, but no testes; one of the roothurs sisters was reputed to be an hermaphrodite,
had borne a child. Mr. Stonham ruferred to the literature of the subject, and said that Foerster had figured a very similar caso in his Atler,-Dr. Willeocies mentioned a family in which one boy had hypospadias, while a younger cliild, aged 3 , a girl, had large mamme, hair on the pubes and had menstruated four times. -Mr. Banid Setton said that the case belonged to the class of free-martins; it showed that the theory that the prostate represented the uterus was a mistake, and that at most it represented
 was not pulled down, that there were no muscular fibres representing the cubernaculum, and tint in nsing the term "vertical hermaphroditism" he liad followed Sir J. X. Simpson.
P'apillama of both Fallopian Tubes and Ovaries.-These specimena were cxhibited by Mr. Albas Dohan. They wero removed from a woman nged 31, married twelve, years, and sterile. Seven years ago she had a severe attack of pelvic inflammation: a tumour was noticed, but it disappeared. Twelve months ago it
again discovered. Ultimately llr. Bantock performed anexploratory operation. Two tumours were fond and remaved. They proved to be cystic owaries united to cystic tubes. Both, tubea and ovaries bore abundant papillomatous growtho. There was no frec
fluid in the peritoneum, and no papillomata were diffused beyond the cysts. The patient recovered. She had menstruated till within a month of the operation in Deccmber, 1887, although both tuhes and avaries must for long have been degenerate. The disease appearcd to represent a form of atrophy due to old chronic inflammation, resembling in this respect the most frequent form of tuboorarian cyst. Only two other cases where papilloma of the tube constituted a distinct disease had been described. In the first, the tube was unobstructed at its ostium, and the peritoneum was filled with fluid; in the second, the tube was closed, and there was no peritoneal effusion. The latter conditions existed in the present case, which differed from the others in being bilateral and involving the ovaries.-Dr. IIormocks inpuirerl whether there was any history of gonorrbea or syphilis.-Mr. Doran said that in the first case infection was impossible, in the others it was possible but not very probable.

Card Specimens.-Mr. C. Stoniram: Tumours of Bone: (1) Spindle-Celled Sarcoma of Femur; (2) Cystic Sarcoma of Femur; (3) Cystic Myeloid Sarcoma of Femur and Tihia; (4) SpindleCelled Sarcoma of Tibia; (5) Spindled-Celled Sarcoma of Humerus with Fracture.-Mr. John C. Lunv: Special Meningitis following Disease of Ear-Mr. T.F. Cuavasse: Vesical Calculus.-Mr. S. G. Shattock: Dermaid Cyst of Neck.-Mr. II. A. Lemiard : Enchondroma of IIand.

## MEDICAL SOCIETY OF LONDON.

## Monday, February 20th, 1888.

J. Heghlings Jaceson, M.D., F.R.S., President, in the Chair.

Abortive Treatment of Syphilis.-Mr. Jonathan Hutchinson read a paper on this subject, wlich is published in full on page 413.-Mr. James Bliace quoted the case of a woman who, after having given birth to eight bealthy children, became infected, and then had six consecutive miscarriages. She was put under mercurial treatment, and subsequently gave birth to a perfectly healthy child, at term, free from any mark of the disease. He expressed a doubt as to the propriety of commencing the mercurial treatment before being sure of the diagnosis.-Mr. J. Astlei Bloxam expressed the interest he felt in the subject brought before them. The thought had often occurred to him as to when one ought to attack a patient with mercury. The great question was as to whether or not the patient had syphilis. So far as the induration went, an experience of some 90,000 cases had led him to conclude that it was quite without value in the diagnosis. He said that only a general and symmetrical enlargement or hardening of the glands sufficed to place this beyond a doubt. He thought that six months' treatment was altogether inadequate to effect a cure of the disease, many of his patients carrying it on with henefit for from twenty to twenty-three months. Solong as the induration of the glands persisted, so long the patient was liable to syphilitic manifestations on ceasing the treatment. With respect to the mode of administration, he had tried pretty well all the plans, but preferred the subcutaneous injections which he had practised since 1884. Je had seen many cases in which the secondary symptoms were apparently absent, but maintained that on close examination some manifestations were always to be found, especially in the loins. He agreed that syphilis was probably due to the presence of a parasite, and that the sooner mercury was given the better.-Mr. Bernırd Pitss aeknowledged the indebtedness of the profession to Mr. Ilutchinson for the diminution in the dose which he had brought about. He mentioned that the advantage of the small doses was the non-liability of the patients to ptyalism, involving a discontinnance of the treatment for a time. lle observed that it would be hard on the patient to condemn him to a long course of treatment without being sure of the dingnosis. His own plan Was to commence the mercurial treatment if the sore resisterl local measures, or showed a tendency to spread phagedenically. If the sore yielded at once to the influence of the mercury, he contimed it.-Mr, Marmadeke Sheild nsked Mr. Hutchinson to give a definite opinion as to the merits of excision of the primary sore. Ife also asked for an opinion as to the combination of iron and quinine with the mercury, to combat the anmomia and debility which often followed the use of the latter.-A Feldow said he was the first to suggest excision of the primary sore when a surgeon in the army. 1le had been led to suggest this by obscrving the good results which followed excision in cases of sores, complicated with phimosis. Cases where this operation was practicable were of course rare, hut the results obtained ly the sur-
geons who systematically excised were better than those ohtainm by the otlers. He added that in the army it was often impossible to carry out an minterrupted treatment, but even with an intermittent treatment the results were far better than when no treatment at all was resorted to. Ile said that the best preparation of mercury was the one which causel least irritation, and attributed intolerance oither to ton large doses or to error in the form or time of administration. Mercury was a tonic, and when it produced debility it was advisalle to stop.-Mr. M1. De Méric said he had never seen a case of syphilís in which mercury had absolutely prevented secondary symptoms. He did not attach much importance to induration of the sore; induration did not necessarily imply syphilis, nor syphilis induration. The great point was the induration of the glands.-Mr. Malcomm Moreis said that surgeons generally waited for the appearauce of secondary symptoms hefore resorting to mercury. Ile suggested that as induration of the glands indicated elaboration of the poison, the effect of the early administration of mercury in stimulating metabolism might really aid in the prompt dissemination of the virus.-Mr. Jonatean Mutchisson, in reply, pointed out that in his opinion the infection of syphilis consisted in a specific microbe. Mr. Morris's rietrs as to the possible effect of mercury on the glands in facilitating dissemination of the poison required to be put to the test of experience. He thought that the character of the sore afforded much more. information towards a diagnosis than the glands. respecting the condition of which he had often been in doubt. Well-marked induration of the sore, in his experience, meant syphilis, but he added that many syecific sores did not show this induration. He had admitted that slight transitory erliptions might be found eren in the most successful cases, but nothing that could he compared with the ordinary secondary symptoms. Although some of his patients had been apparently cured in six manths, he did not consider that this period was sufficient in the general run of cases. He thought iron might be giren where required, but he objected to quinine, hecanse it prevented ptyalism, and might be supposed to oppose a resistance to the action of the mercury. With reference to excision, he thought that the operation might be desirable whenever practicable, but its influence would depend largely on the site and age of the primary sore. Once the induration was marked the system was infected. With small doses of mercury, its depressing effects were done away with. He said that the fear of mercury dated from the time when it ras the custom to give it in large doses. He did not adrocate beginning a mercurial course indiscriminately before a diagnosis could be made: but many patients who were nervously alive to the consequence of syphilis gladly consented to begin it at once, so as to reap the adrantages. In any case it should never be postponed beyond the period of induration of the sore. IIe alluded, in conclusion, to the value of the thermometer as an indication of the approach of secondary symptoms.

## HARYEIAY SOCIETY OF LONDOY

Thursday, February 16 tit, 1888.

## Whindar Sedgmick, Mf.R.C.S., President, in the Chair

Some Cases of Hysteria.--Dr. Stephes Mackenzie read a paper on some cases of hysteria, with remarks on the nature of liysteria. Jle narrated two cases. The first was that of a girl, aged 2I, with emaciation and profound anxmia, complaining of constant and severe pain, increased by food. There had been mnch vomiting. There were no physical signs of ortanic disease. and it was regarded as hysterical. Food Fas regularly and, if necessary, forcibly given; iron was administered, and sedatives withheld. The patient made a slow hut steady recovery, the corpuscular richess increasing from 50 to 93 per cent., the hamoglobin increasing from 30 to $\%$, and the bouly weight from 4.2 to 6.7 stones. The paticnt had remained well two years, in all except the non-return of the menses, which hat disappeared hefore the commencement of the disease. The second case was that of a young lady, aged 19, who, from gastric pain, had gradually ceaserl taking food until she was reluced to a coulition of extreme emaciation and wenkness. Tho cases were regurled as apepusia and anorexia hysterica. The term "hysterical " being employed occasioned the author to explain what he understood by the term. He thought the current riew in the profession, as well as out ol it, was that hysteria was "a want of self-control," "a giving way to the feelings." The anthor pointed out that this, though in his
opinion eorrect. was a purely metaphysical explanation. 11 e thought thut the tera hysteria it wa rect, misked nolorly mowndays, and it was a convernent label, distinctive not descriptive. it was admitted by all that hysteria พ.as sometimes seen in the male. Thes greater frequeney of hysteria in woman was due to elucationand the whole cireumstanees of their lives favouring the development of their emotional nature. l'assing to the physical uspoct of the question, he pointerl out that, whether regarded from the psyelical or the physical side, lysueria atforeled an illustration of the doctrine of dissolntion formulated by llerbert speneer, and extended by Itughlings Jackann. He drew attention to the widely representative character of the physienl basis of the emotions, so that when these were powerfully excited there occurred the most widely apread and varied movements of the musenlar system, not only in the whole muscular system, but in the vascular and seeretory. On the nther hand, there were still higher arrangements of the nervous system which " inhibited " thr nervous arrangements (called centres for convenience) forming the anatomical substrata of the emotions. This was elearly admitted by the expression "the control of the emotions." In liysterin there was a suspension of funetion of the so-called inhibitory "centres," which oceasioned the negative clement-loss of inhibitory power (psychically, loss of control), anl the positive element-overaction of the aervous arrangements constituting the physieul basis of the emotions (psychically, outburst of the emotions). This "suspension of function" of some of the highest nervous arrangements which inhibit the uervous arrangements forming the physical basis of the emotions, might be brought out by all kinds of delilitnting inHuences, including organie disease. The practical bearings of these viess were pointed out, but the gist of the paper was to put on a physieal basis the metaphysical theory that in hysteria there was a want of self-control, and a "let go " of the emotions.

Cascs of IIysteria.-Dr. LFES narrated two cases of hysteria in hoys. The lirst was a boy of 8 , who had vague pains, eaprieious appotite, asserted inability to swallow and to walk, with some tonic suasm of the muscles of the lower limbs, especially in the adiuctors of the thighs. There was marked increase of the kneejerks, nermal entancons reflexes, no spine disease, and no anestheaia. The treatment was mainly moral, and the boy was praelically well in three weeks. The second case was of a different typo. It was that of a boy, aged 11, intelligent and patient, who harl severe headache, jatches of anmesthesia, amblyopia of the right cye. anel clefective hearing in the right ear, but no motor weakness, and no spasm. The anmesthesia changed its site several times during eix months, affecting different areas, sometimes in the right sicle, at others in the left. The amblyopia was found to lro due in part to posterior polar eataract, but only in part, fur it amounted to mere perception of light. One day it was found that he liat double temporal hemianopia, the temporal halves of both retina being insensible to light, but the next day this condition had vanished, and so had his auditory defeet and much of his anasthesia. Ite improved considerably under treatment, and when last smon had lost his headache, and almost lost his anosthesia. So lloubt these two cases inust both be classed as "liysterical," and yet they differed froum each other completely. In the first the affection was mainly a moral one, and the objuctive 8ymptoms were purely motor; in tho second there was no moral elemunt, and the symptoms were entimly sensory, and discoverable only by elinical iuvestigation. loc it seems likely that the difference in symptoms may havo been a result simply of the different lornin-areas affected, and that a similar condition, a kind of torpility of some of the nervous centres, may have existed in both.

Death with Symptoms of Mysterin.-Dr. Macuirk and Mr. Sucock reportid a ense of death from functional nourosis, in Which the: symptoms at one time resembled those of hysteria. The pationt had eomplained of pain in the back of the head and failing sight for twelre montha. Two months after a blow on the brek of thy: lead sight was lost almost entirely. On admission into lonspital the gait was tottering, memory impaired, speeel slow and drawling. There was no loss of power or of sensation, antl the kneejerks were "xagkarated. No ehange could bo detected in tlu. fundus or media of either eye, nor was nny other physical sign of disease discovered. Thu patient beeame restloss at night, and three lays later was found comatose, not responsive to any form of stimulation, lying with tho mouth open, aul hreathing stertorously. Copious perspiration was observed.ant the right side of the fuce and neek, none on the left, and tho phit
of the right eye was slightly contracted. No diaphragmatic respiration coulat be ateceted. The patient died about twentyfour bours later; and at the post-mortem examination, after the most careful seareh, no morbid contition, macroseopic or microscopie, was found. Dr. Maguire related two similur eases which had been followet hy recovery. The patient, in medical man, was comatose for more than two months, and during this time had a temperature never below $100^{\circ} \mathrm{s}^{\prime}$, and occusiomaly reaching $102^{\circ}$. Perfect recovery followed: but a second and similar attack followed, four years after the lirst. Dr. Daguire consilered that at tho present time such cases as these were of the utmost importance, in that grave organic disease, for which possibly operative trentment might be propostad, was so elosely simnlated by jurely functional disturlance.Mr. lloveli adroented an improvement in the terminology of the smbject, and describel a state to which he thonght the term "neurokinesis" was nyplicable. Ho also suggested a more rational and considerate ireatment of those who were usually considered to be hysterical.-Dr. Húamining Jachisos said many so-called cases of liysterin were cases of nothing, and a number of cases were narrated to illustrate this proposition.-Dr. Giranly Hewitr thanked Dr. Mackenzie for his lucid exposition of the mechanism of the lissterical derangements. His own experience of liysterical eases in women had taught him the fact that general nalnutrition was almost invariably present, and probably the basis of the whole case. Certainly the uterus showed signs of this malnutrition in suel cases, its tissues being soft and deficient in normal firmness to a remarkable degrec. Probably the central nervous system was in like condition of malnutrition, and thus there arose increased liability to reflex disturbances. Ile had observed several cases of hysterical convulsions in women, where the excitation plainly eame from the uterus, as was proved by the cure of the convulsions by appropriate treatment of the uterus. As regards the puin described by Dr. Mackenzie in his first case le had seen a case very like it where the pain was undoubtedly due to anteflexion and version of the uterus.-Dr. Fitzpatmich thought that during the last fifteen years hysteria had become less prevalent, and attributed this to the better liygienic conditions under whieh young ladies lived.-Dr. Squmbe agreed with Dr. IInghlings Jackson that it was necessary to distinguish between aysteria and slamming: the former class was characterised by ant thouge of notive, the latter had originally a motive.-Dr. Ewart ought to berve inanition was an important factor in hysteria, and ought to be especially treated.

## EDINBURGII MEDICO-CIIIRURGICIL SOCIFTY.

 Wednisdaf, Februany 15Ty, 1588.Joun Smitu, M.D., l'resident, in the Chair.
Successful Trephining over Motor Arcas for Arrested Development of Limbs and Complete Loss of Fiunctional Ialue: Commencing Return of Functional Activity.-Dr. FELEIN showed a girl, aged 17, on whom, at his suggestion, Mr. Mare had operated, with a view to the recovery of lose functional activity in the right arm and leg. When a young ehild, the patient had sustained serious injury to the head. Apparently as a result of this, an arrest of
development had taken place in the rirgt urin and was an almost complete disappen right urin and leg, white there many of its features the case simulated poliomyditis anterior aenta. Dr. Felkin, into whose hands the ease had fallen but recently, was able to trace a slight depression in the sealp over the left motor areas. IIe consulted Mr. Ilare, who, altur careful examination, agreed with Dr. Felkin that it was a case for operation. Hr. Haro accordingly operated three or four weeks ago. On exposing the skull, they discovered evidence of the existence of an old depressed fracture, over whose site Mr. Itare treplined. Two completf circles of bone wern remorevl, while additional portions were renoved ly muans of lley's saw from the space thus exposed a cyst was found to project. This was ovacunted anol it. connections disturbed. Projecting internally from ono of the por-
tinns of hone removed wing donlitless liad been the cause of additional proesss of bone, which mater was not ineiset. Small portions of bone were plantud the exposed surface of the dura, and the wound elosed, and catgut drain leing inserted. The wound healmi ly the first in tention, and the patient did not present a bad symptom from first to last. No rise of temperature occurred. Careful examination with the dynamometer revended distinct evidence of returning functional activity, while certain movements of the forearn were
accomplished for the first time. In addition to the great interest of the operation itself, the additional interesting problem was raised as to how far they might look for an imprusement in the state of arrested growth of both upper and lower limbs.
Animal Tuberculosis in Relation to Consumption in Man.-Principal Walley, of the Royal Dick Veterinary College, Edinburgh, read a paper on this subject. After dwelling on the comparative neglect with which this important sulject had been treated, he sketched the listory of the pathology of tuberculosis. So early as 1872 he had been inclined to think that tuberculosis in cattle must be due to some specific poisonous principle, and this opinion he had indieated in an essay published that year. The bovine tribe were most liable to the disease; sheep showed a remarkable immunity: As to the horse there was some difference of opinion. It was sometimes said that the horse was not attacked. Certainly there had been confusion, as there had been in considering the question as a whole, through the confounding of lymph adenoma and tubercle proper. Some of the cases described as cases of tubercle in the horse were undoubtedly lymphadenomatons. His colleague, Professor MacFadyean, however, had recently liad opportunity of studying a true case of tubercle. There was also some difference of opinion regarding the pig. It was usually regarded as easily affected, but a recent authority had contradicted this view. In the dog it was a very rare occurrence, as in the cat. Water fowl were seldom attacked, While barn-door fowl
were very liable to it. Wild animals were far less prone to it, in their native state, than domesticated animals. Speaking of the chances of propagation, Professor Walley indicated his belief in the possibility of congeuital tuberculosis. A number of observations pointed to this, while theoretically there seemed no diffieulty in supposing it possible for the tubercle bacilli to pass from mother to foetus in the same way as it was admitted that the bacillus anthracis did. It had not yet fallen to his lot to observe a case, but several such were on record, both abroad and at home. Propagation might further result from the ingestion of various affected foods (meat, milk, etc.), and by inhalation. Experimentally it had been induced both by the subcutaneous, intravenous, and intraperitoneal methods. Professor Walley then discussed fully the different secretions and organs which became affected, and illustrated his statements by exhibiting a large collection of morbid specimens. In opposition to the statement that the trachea and bronchi were never primarily affected he was able to show specimens. Turning to the practical side of the question, he deprecated the statement of the Lancet that veterinarians had been apathetic on this subject. He was of opinion that a charge of apathy might be lodged with much greater justice at the door of the medical profession. As to the identity of bovine and human tuberculosis, he thought there was now no room for reasonable doubt. All the lines of evidence pointed in this direction. The immediate practical issue was what should they do with a view to minimising the possibility of infection from animals to man? There was no doubt that the milk from tubercular corrs was distinctly dangerous. The work of Professor Bang and others had proved this conclusively. He was inclined to believe with many observers that there was danger from the milk of such cows only as showed tubercular sores on the udder. They must have powers granted to them to condemn cattle which were manifestly tubercular. This was a most important department of liygiene, in connection with which he held that medical men ought to combine with them in asking from the Prisy Council that such powers be granted to their inspectors. As inspector for the city of Edinburgh, he occupied the happy and unique situation of being allowed by the Lord Provost and magistrates to exercise his own discrimination in the matter. The President congratulated the Society on being the recipient of so important a paper. The subject was one worthy of their fullest consideration. Their thauks were due to Principal Walley. -Professor Macladyean, of the Royal Dick Yeterinary College, congratulated the Society on taking up this important subject. In his opinion, the identity of borine and humau tuberculosis was clearly established on an experimental and a histological basis. Alleged differences in size of the specific bacillus in the two cases were capable of satisfactory explanation. Infection might be conveyed from cattle to man by the ingestion of meat and milk. It was their duty to endeavour to obtain such regulations as might be expected to meet so scrious a danger. Human and comparative prithologists would find mutual benefit by combined action. In illustration, he referred to Dr. Philip's recent work ou certain morbid products obtainable from tubercular ex-
creta, and suggested the possibility of obtaining these in larger quantity from their public abattoir.-Dr. Woodmesd thought Principal Walley rather hard on the medical profession. Discussing the question of identity, he thought too much had been made of mere difference of size. They all knew that the same organism varied somewhat under different conditions of growth. Further, he had prepared, in exactly similar way, specimens of the bacillus from human and bovine sources, and hat submitted them to a number of qualifice observers, and not only could they not say which specimen came from a given source, but it was impossible to find any difference in the series. Regarding the difficulty of inoculating certain animals from certain others, they must bear in mind the difference of temperature which existed among different species of animals. Much had been made of the comparative influence or non-occurrence of tubercular mammitis in the human subject. But the conditions were rery different. The udder of the cow was made to afford milk considerably beyond the normal period of lactation, and it was submitted to less delicate handling.-Dr. Littlejohs spoke of the importance of this question from the point of view of public health. IIe found, for example, that of forty-two cows slaughtered in Edinburgh on account of disease, seventeen had suffered because of tubercular disease. They ought to combine with their reterinary colleagues and petition the Privy Conncil for powers to destroy all animals manifestly tubercular. Eut they must remember such a measure could not be a local one, else Edinburgh would become a sink for all the tubercular animals of the country. The whole thing bccame a question of money, as compensation must be granted to the owners of such cows. With regard to the question of infection by sewage, it became an interesting problem whether the Craigentinny meadows (which receive much of the concentrated Edinburgh sewage) might be unsuited as pasture ground. A practical difficulty oecurred as to the date at which they should condemn animals. It was matter of common observation in the human subject that phthisis was curable, as was proved by post-mortem examination. Doubtless the same curatire process occurred in animals. In addition to all this, there was need for the utmost care in the inspection of byres and dairies. Professor Greenfield thought Principal Walley had unduly magnified the work done by the veterinary profession in comparison with what had been effected by the medical profession. He should have been inclined to reverse the order. As to the main issue, he felt inclined to say that, in spite of mnch that had been stated and written, no satisfactory points of differeace between human and bovine tuberculosis had been established. While they could not expect to have the more exact experiment under-taken-the inoculation of the human subject directly from the cow-much important assistance might be afforded by a series of experiments in which inoculation of the calf was attempted from the human subject. He did not wish to say too much, but he was doubtful if they could expect all the good results suggested by the compulsory slaughter of cattle.-Dr. Jases admitted the identity of the two affections. But in both instances the nidus was the more important factor. The bacillus was probably ubiquitous. It depended on the state of the individual whether it hecame noxious or not. In other words, improve the yital activity of the tissues and the bacillus remained harmless either to men or animals. Their preventive treatment of phthisis illustrated this. It was further suggested by the comparative rarity of tuberculosis in the more active horse and dog, as distinguished from the sedentary cow. Their best line of treatment of the prescut evil lay in improving the sanitary conditions under which their cows lived. The mere stamping out of the diseased animals would do no lasting good.-Mr. Caticart and Dr. Peel Ritchif. also took part in the discussion.-A vote of thanks was accorded to Principal Walley.

## ROYAL AC.IDEJY OF MEDICINE IN IRELLID. <br> Section of State Medicine. <br> Friday, Febreary 3rd, 1833 Charles F. Moone, M.D., I'resident, in the Chair.

President's Address.-The Presidrat delivered an address on the importance and advances in preventive medicine.

The Coachford Poisoning Case.-Dr. C. Yelvertos Pearson (of (Cork) read a paper on the medico-forensic aspects of the Coachford poisoning case. The history of the case was shortly related, then an account was given of the post-mortem examination, and the rarious points of interest and peculiarity in it were discussed at
some length. A very full description followed of the different steps of the chemical analysis, and sone of these were specially commented on. Such evidence as was necessary for a medical consiteration of the case was then related, such as the symptoms observed during life, the nature of certain drugs found in the bousc of the accuserl, the purchase of poison, and the destruction of some drugs by the prisnner's sister, etc. The theory of the case as preseuted by the Crown was brietly described, nad certain omissions pointed ont, after which the weak nature of the defence was commented upon, and mumerous matters raised were dealt with in a critical manner. It was argum that there was nothing in the evidenco that was necessarily inconsistent with the termination of life ly strychnine. - The lev. Dr. LIatguton said Dr. l'earson had taken the straightforward, manly; and wise course in appaling from the newspapers and the lawyers to a court of his brother medical men, who were the competent judges of the manner in which he had discharged a most responsible and painful eluty. It was $\Omega$ diflicult thing to nroid mistakes in a complex case, and Dr. Pearsou lad made ono which would teach him not to trust to wemory before laryers, though nothing but the art of lawyers could distort his evidence into the statement that two and threequarters or three grains of arsenic were found in the liver. But suppose he had stated he found three grains in the liver itself; that was a perfect possilility. It was not generally known that had l'ulmer (who was hanged for poisoning his horse-dealing friend with the, in his time. now poison, strychnine) been acquitted, he would have been placed in the dock again on a charge of poisoning bis mother with antimony. Both arsenic and antimony made for the liver, and he had himsolf reighed in Loudon a packet of antimony which was taken from the liver of Yalmer's mother, and it scaled between six and seren grains. If the arsenic was slowly administeret such a quantity as threc grains in the liver was exceedingly masible. IIc had, howerer, more experienco of strychnine poisoning than of metallic poisoning. In conjunction with Dr. Spjohn and Dr. Emerson Reynolds, he had the task of ascertaining whether or not the celebrated greyhound, Master Magrath, had died of strychnine, and he established the fact that he had not died of stryclinine. In ather cases he established the fact to which Dr. Pearson bad called nttention, namely, that strychnine Was an indestructible poison for many weeks, in fact, remained absolutely perfect, malisturhed and intact in the bodies of animals that had lain ten weeks in their graves. Thestrychnine part of the poisoning in Mrs. Cross's casc ras, however, a difficulty in his mind. There was no selution for the screams. But suppose, when he found his wife would not die, he adopted a practice known in his (Dr. Maughton's) native county of Carlow, of putting a pillow on the oljectionable person's face and sitting on it for ten minutes, she would give a seream first; and it was quite possible that in Mrc. Cross's case a pillow was the immediate canse of death aud not the strychnine. In any case, he was certain the wholo world was convinced that a righteous judgment was come to.-Sir Cilarrats Cambron said, from the conclusions drama from his experiments, he thought Dr. Pearson had conducted the investigation in an admirable manner, and that the results reare such as any competent chemist would have arrived at under thesame conditions. He agreed with Dr. Maughton as to tho length of time strychnine might remain in the stomach and viscera and body geperally of an animal. In the casc of a Mr. King, who was poisoned at Limerick, it was necessary that the viscera of a dag should be examined, aud he produced nearly half a grain wright of strychnine from the hooly fourteen days after death. $A$ dog had been given aome bread and butter, and tho animal dicd shortly afterwards. Four months later nn inspector of constabulary brought him the dog, ant, having operated on the animal, he extracted more than a quarter of \& grain. With regard to the lalmer poisoninge casc, there was no strychnine detected, and Professor Taylor was subjected to very strong animadyersions on that necount. Ife did not ngree with the statement in Meymott Tids's Medical Jurisprudencr, that when arsenic ras taken in small quantitios oxtending over a lencthened perint there were greater lesions.-Dr. Pranson observed that the statement was that when taken for a long time the intcetines were more apt to bo affected.-Sir Cinanafs Campros said he met with a case in which a rery mall quantity of arsenic was taken by cows, and four or five died from arsenical misnning. They had been glven fach about a pound and a half of Glauber salts, contnining 0.17 per cent. of sulphuric seid. A very small dose caused death, but no lesions were detected in the stomach. Being interested in the fact that the nnehundreulth part of a grain could be weighed, lie asked whether
any crystalline hodies from muscular tissue inight prossibly be included in that very minute quantity. He had often found crystals of sulphur assuming the form of erystals of arsenic, so as to deceive him. Sulphur gradually precipitated in the crystallinto form, and he had buen deceived in the appearance of crystuls, thinking they were arseuic until he found they wore nothing more than crystals of suphur.- $1 /$. Dovee said he was one of the minority who as yet did not see ovidence hronght forward on which to condemn Mr. Cross. A witness was sworn to tell the truth anel the whole truth, and therefore le should givo ull the facts eonnected with the case: and yet Dr. Pearson now stated he found in the boly ptomaines, of the discovery of which he did not tell the jury ut nll. They all knew that ptomaines constituted a most deadly poison-the most deadly poison they knew of, which was formed in their own badies. Suppositions should be put out of the question in a matter of life or death. There mas tho supposition about using arsenic as a cosmetic. Dr. I'earson supposed that, if used as a cosmetic, it must have been in the liquid and not in the solid form. But they knew that, even if used in the liquid form and applied externally to the body, it ras a curious fact that it always made to the stomach, and would be fonnd there. As to the absurdity of Mr. Cross not recogaising typhoid fever, there were lundreds of medical men who would not recognise a case of typhoid fever. There might have been typhoid and the poisoning too. The two conditions were not incompatible.-Dr. Ticuborars said there ras no difficulty in detecting strychnine. The only difficulty was in getting chloroform sufficiently pure to stand the reaction of the sulphuric acid. As regards the arsenic, while he did not like to dogmatise, ho doubted nbout the liver being able to absorh 3 grains. At the same time. Dr. Pearson stated there were 1.20 grains. IIe rished to know did that mean $I s$ or $A s_{2} \mathrm{O}_{3}$. -Dr. Dearsos: It is the oxide.-Dr. Quishas thought the case was a plain one. The idea that Mrs. Cross took arsenic for her complexion, as was the custom of romen in the eastern parts of the Austrinn Empire, was not be entertained, for Mrs. Cross was a woman of mature age. The next hypothosis was that it was administered medicinally. From his own expericace, arsenie was always given in the fluid form in minute doses, and it rould be impossible in that way to produce the crystals in the stomach and duodennm. Moreover, the condition of the arsenic in the undissolved state showed that the quantity found must lave been administered in the last few hours. As regnrds D) r. Haughton's view, he did not believo the "C'arlow method" had been used, or Mrs. Cross would have exhibited symptoms of suffocation.-Sir CiArdes Cameron asked whether the ptomaine was not an oily ptomaine, and quite unlike a crystalline body, such as strychnine.-Mr. Broompield did not see nay force in the argument as to how tho arsenic rras administered. Mr. Cross would not be more likely to give it in the crystalline form than any other medical man to prescribe it, or conversely, he would be just as likely as any other medical man to administer it in the fluid form.-Dr. quinlan suggeated that it could be easily administered in sago or othor food.-Mr. Kennedr inquired whether there was anything in tho evidence pointing to the wny in which the strychnine was admin-istered-for instance, any found in unfinished food.-Dr. Prisnson -Thero was no evidence on that point.-- Mr. M'Culhagh, without questioning the justice of Mr. Cross's sentence, said he kners of ladies taking arsenious acid diluted, again and again : it was quite common.-Dr. Pearsos. in reply, said most of the criticisms would not bave been ealled for had he read his paper, in extenso. That Mrs. Cross's screams were due to smothering, as suggested hy Dr. llaughton, he did not believe. Mr. Cross was a man over six feet high and extremely powerful, and if he were to employ force ho would not be likely to do so in such a way as to allow a weak woman to continue screaming four or five minutes. Therefore, in assuming smothering, the screaming was out of the question. But there wero two possihlo explanations. The screaming might be duc either to the painful convulsions produced by strychnine if administered at the time in a poisonous dose, or tho arsenic might have caused convulsious at the close. IIe did not swear she died of strychnine poison. The rtuantity he found was a medicinal one. but assuming the strychnino was uot given with the intantion of shortening life, it must be accounted for in another way. $11 e$ accounted for it as having heen given accidentally. Mr. Cross did did not kecp his medicines in a very careful manner, and tho strychnine might have leen left knocking alonut the surgery. In like manner, if tho evidence went to show that the lady died from asingle dose of arsenic, Mr. Cross could neyer have been convicted; because it might be shown she took it by accident. But
the symptoms described by Miss Jefferson, commencing on the 10th of May, precluded the idea of arsenic having been administered in medicinal doses or taken by accident. Mr. Doyle had observed that it was his duty to have mentioned to the jury that there was a ptomaine. But a ptomaine could not possibly be confounded with strychnine, and was to be regarded as a product of putrefaction, as he believed it was, and therefore a normal product of the borly; so that he might as well be expected to tell the jury he found fat and all the other components of the human body. He had satisfied himself that he also found strychnine, with which no ptomaine could be confounded, haring regard to the manner in which he tested for strychnine, as described in his paper. Mr. Doyle had also suggested that arsenic applied externally produced the physiological effects on the stomach but did he suggest that external application would cause white arsenic to be present in the solid form in the intestines?

## SHEFFIELD MEDICO-CIIIRURGICAL SOCIETT. <br> Teursday, Febrtart 2nd, 1888.

M. M. de Bartolome, M.D., President, in the Chair.

Sinall-pox at Sucinton.-Mr. W. Maneig Jones read a short paper on an Outbreak of Small-pox at Swinton, and how it was dcalt with. He had long urged the Local Board to make provision for such cases, but it was not till the outbreak really occurred that they consented to do so. The first cases were reported on Naveriber 29th, 1887, and on December 3rd was commenced the work of transforming an old hovel of a disused pottery into a hospital. The entire work was designed by the surveyor, Mr. J. C. Haller, M.I.C.E., and under his personal supervision was carried out with such despatch that on December 14th it was completed, and four cases were removed into it, and four more on December 10th. The hospital consisted of a brick building', 30 feet "in diameter, divided into two semicircular Tards, each 12 feet high, surmounted by one of Boyle's 3 -feet ventilators. The administrative department; adjoining the wards, built of double-lined wood, consisted of an entrance passage, kitchen ( 16 by 14), bath-room ( 10 by 8 ) with hot and cold water, and a nurses' bedroom ( 12 by 10), all $10 \frac{1}{3}$ feet high. The cost was: for materials and labour, £128; stoves, water, bath, hot and cold water fitting, £44; 16 beds and furniture for all the rooms, $£ 5018 \mathrm{~s} . ;$ total, $£ 22218 \mathrm{~s}$. ' Up to the present only twenty-four cases had occurred, and only two during the last fortnight. In an adjoining village, with rather more than half the population, and where no steps had been taken to isolate the cases, nearly 200 had accurred.

Small-Pox at Sheffeld.-Dr. Sinclair White related the history of the small-pox epidemic in Sheffield from its commencement in March last up till the end of last year. In the absence of compulsory notification it was impossible to be accurate as to the number that were attacked; it was thought that 10 per cent. were not heard of. In one way or another 2,728 cases had come to the knowledge of the Iealth Department. Particulers as to vaccination were ascertained in respect of 2,580 cases; 2,198 were said to be vaccinated, and 382 unvaccinated. It maight be said that about 30 per cent. of the people of Sheffield Tere raccinated; 977 deaths were caused by the discase; in 23 cases it was not known whether vaccination had been performed. Of the remaining 254 deaths, 97 occurred among the 2,198 raccinated, and 157 among the 382 unraccinated. These figures corresponding to a death-rate of 4.4 per cent. among the raccinated, and 41.3 per cent. among the unraccinated. Taking only the cases occurring in children under 10, much more accurate and striking facts were disclosed. Of the 100,000 children in Sheffield, from official reports it appeared that 95,000 of these were raccinated, and 5,000 unvaccinated: Among the vaccinated there were 207 cases, and 2 deaths, while there were 146 cases and 70 cleaths among the unvaccinated. In other words, among the vaccinated children, I in 458 caught the disease, and 1 in every 47,500 died, while among the unvaccinated, 1 in every 34 caught the dieease, nud 1 in every 71 died. The epidemic showed that primary waccination should not be relied on after 10 , aud he alladed to the eflicacy of revaccination as exemplified in upwards of 50.000 whe had been revaccinated during the last year. lle did not think small-pox was to any great extent infectious during the first three days of the cruption; early remeral to hospital, and sulphur fumigations had proved in his hands very successful. Referring to the regular periodic cpidemics, it was mooted whether, having regard to the fact that small-pox was terribly fatal when contracted for the first time by any race of people, the children of persons who bad not
suffered from small-pox were not more liable to the diseaso than the children of parcuts who had suffered from it. Dr. Barry, Local Government Loard inspector, pointed out that the figures quoted with respect to small-pox and vaccination should be accepted with caution, as the returns had not yet been finally verified. From the information which he already possessed he beliered that considerable corrections would have to be made in the published figures. Dr. Barry alluded to the statistics of the outbreaks of $1857-58$ and 1871-72, showing that in $1857-58$, in the north district of Sheffield (the only one be had yet worked out) there were 179 deaths among children under 10 and only 11 at other ages; and in 1871-72 the deaths under 10 were 167, and above 10,88 . In the present outbreak these proportions had been reversed, and up to December 31st, 1857, the deaths under 10 had been 72 , and those at other ages 182. It was to be noted that at the first period vaccination was practically voluntary, at the second the raccination Acts were badly enforced, and at the third the Acts were efficiently, enforced.-Dr. Whiteleggaf (Nottingham) supported Dr. White's contention as to the liability of pregnant women. They had had three such cases ont of a total of twenty-three cases at Nottingham. He did not think that the excreta were so infective as some supposed. IIe entirely disagreed with the assertion that small-pox was not infectious during the first week. It was very infectious then, but might become mare so later on. He related cases in support of this.Mr. E. Snell (Nottingham) spoke of the advantages of fresh raccine lymph over stored. He thought the profession should urge on the Lacal Government Board to instruct public vaccinators to supply fresh lymplh-with the source-to practitioners in their towns, and for them to be remunerated for so doing. This was preferable to the present'plan of sending it first to the authorities; fresher lymph and proportionately better results mould be obtained. Referring to the undoubted popular prejudice in favour of calf over humanised lymph, he thought animal raccine stations shanld be established in the provinces, as in London.--Dr. Dyson. referring to the marks after vaccination, remarked that the size of the cicatrices depended a great deal on the temperament of the subject. Information was required as to what constituted "taking" after revaccination in many cases.-Remarks were also made by Mr. A. Jaceson, Dr. Boobbyer (Nottingham), and the Presi-dent.-Mr. Joxes, in reply, said he thought small-pox was not contagious in the early stages. 1le agreed with Dr. Dyson that the size of the cicatrix depended in a great measure on the patient's constitution-strumous, etc. He did not think that old lymph always failed; he had had good results with lymph five months old, and referred to Dr. Cory's opinion that after a time it recorered its efficacy.-Dr. Whire also replied.

## ILALIFAX, NOVA SCOTTA BRANCCI. <br> Thetrsday, Jandary 12 th.

W. B. Slayter, L.R.C.P.Lond., in the Cbair.

Bisulphide of Carbon in Pulmonary Diseases.-Dr. De Witt read a paper on the treatment of pulmonary affections with bisulphide of carbon as a substitute for Bergeon's treatment, and the administration of water impregnated with sulphuretted hydrogen gas. He used 2 to 3 drachms of the bisulphide in 24 ounces of peppermint water, and gave 1 to 2 ounces of this mixture daily in milk. A number of cases successfully treated were detailed. Its action as a microbe destroyer was supposed to be equal to that of the sulphuretted hydrogen injections. Cod-liver oil and the nisual appropriatedietetic treatment were prescribed at the same time. -The llon. Dr. Parker stated that he had had but a limited success with Eergeon's apparatus. IIe cited a case of dysmenorrhcea treated by Sir James Simpson and himself in ledinburgh, many years ago, by injection of the gas per raginam-the first time he had seen it in use. He had no experience of carbon bisulphile.Dr. Campbell considered carbon bisulphide as one of the hydrocarbon group, others of which, such as kerosine oil and sweet spirits of nitre, had hcen found equally useful in pulmonary affiec-tions.-Dr. Slaiter, speaking of Bergeon's apparatus in phthisis, proposed at the next meeting cxhibiting some preparations showing the action of sulphurctted liydrogen gas on the bacilli in plithisical sputa. In cocaine spray we had a more efficient drug than carbon bisulphide in spasmodic asthma.
Cocaine Pozoning.-Dr. Stayterrclated a casc of cocaine poisoning. Ife had hypodermically injected 15 minims of a 10 per cent. solution of cocaine hydroclilorate inta the toe of a patient. previous to operation. In ten minutes the patient became cya-
nosed, and developrd an epileptiform fit. This passed off after a few minutes, and the operation wis proceeded with, but he remainml dazed for a couple of hours, and suffered from pain and smarting in the eges for twenty-four hours. Ho had never suffered from epilejsisy.

Telephonic Stethoscope.-Dr. Sialten then exlibiterl a patent stethoscope with a teleplionic urrancement for intensifying sounds.
Specimens.-Dr. Canerner, showed the following specimens:A Trumerns with a well-developed Heok-shaped Process at the lower eut of the interual Border; an Atlas and Axis abnormal in character, there being $\pi$. Gap of quarter of an inch in the posterior Arch of the Athas, compensated for ly an over development and widening of the spinons process of the Axis; a detnched Septum Sasi (due to a blow) removed from a patient on pligging the posterior nares for epistaxis.

Cerebral Jesion in a Meifer.-Dr. Canppele alsó desired a committee of the Branch to examine and report on the brain of a young heifer which he had lately obtained in the country. The invimal, somewhat stunted in growth, but with normal muscular and joint development, hat in peculiar gait in wolking on the level, with a strong inclination to the left, and a peculiar rotatory motion in descending a hill. He diagnosed a brain lesion or defective development on the left side in the fissure of Rolando, which is surposed to preside over movements of the right hind leg.

## PATHOLOGICAL SOCHETY OF MASCHESTER. Wedxesday, February Sth, 1888.

A. W. Srocks, M.R.C.S., President, in the Chair.

Thare Forms of Eye Disease.-Mr. Mules showed specimens illustrating the rarest forms of eye disense. Amongst these were examples of ciliary tumours comprising (1) a Ciliary Myoma (Vose Solomon's case, kindly lent by Sr. P'riestley Smith); (2 ${ }^{2}$ a a Myosarcomn of the Ciliary Muscle; (3) a Sarcoma (spindle-celled) of the Ciliary Musele which had become Extra-ocular; (4) a case of Intra-ocular Thickening of the Sclera, so great as alnnst to Ubliterate the Vitreous Carity. With these were sections of Two Ciliary Tumeurs, one of them being from Professor llirschberg's collection.
Abnormal Shoulder-joint.-Dr. Basis showed a specimen of Diseased Shonlder-joint, with Fractures of the Clavicle and Acromion l'rocess of the Scapula
Ieucin and Tyrosin--Dr. J. Drxos Manv showed some preparations of leucin and tyrosin from a case of malignant disease of the liver. He also showed preparations of leucin illustrative of its raried physical appearance in relation to its degree of purity.
Bone (irafting in "Chub IIand."-Mr. G. A. Wrigut slowed a specimen from a case of so-called "club hand" in which the radius and thumb on each side were absent. The ulua had been fractured and repaired in utero. Bone grafts from another child were implanted in the position of a radius, and were apparently growing, but the child died from intestinn catarrla a fortnight Sater.
Sloughing Ulceration of the Larynx.-Dr. T. Itamme exhibited a preparntion ohtained from a man, aged 52. , who had been suffering from incompetence of the aortic and mitral val ves. The laryngeal lesion was not suspected during life. During the last thiree or four dnys of life his voice was very feeblc, somewhat hoarse, and his breath was very offensive; he had also expectorated a small umount of bload; there was no evidence of laryngenl obstruction. At the post-mortem examination there was found, in addition to the cardiac lesions, a patch of slouglaing on the left side of the interior of the larynx. extending from the base of the beft arytenoil cartilage to just below the true vocal cord of the same side, the poaterior half of which was destroyed. The patcl was about the size of a shilling, was of greyish yellow colour, had elearly defined and sharply cut, but not indurated, margins, and was half an inch deep, extending down to the inger surface of the left wing of the thyroid cartilage, but there was no necrosis either of that or of any other cartilage. The patch was evidently of quite reeent and acute origin. The remaining part of the mucous metnlirane of the laryar was congested, and the aryepiglottidean felds were addematons. There was ne foreign boily in the larynx, ner any evidence of syphilis in any of the organa, neither were there any infarcts in any part.
Sloughing Pharynyitis.-Dr. Italmis exhibited a rare preparation of sloughing of the pharynx. The disease, which was nat,
diphtheritic, had extended to the larynx, and rendered tracheotomy necessary. The specimen was from a man, agel 60 , and the disense had commenced six days lwfore death.

## gorthumberdand and durhay memcal society. Tuursday, Yebruaby 9th, 1888. <br> G. JI. Heme, M.D., I'resident, in the Chair.

Cases.--Dr. 13radiey showed a man, aged 80, who had amputation of ferearm performed for injury. Though the patient was the subject of Bright's disease the operation had been successful.- $-1 / \mathrm{r}$. Black exhibited two boys upon whom he had successfully performed amputation for disease of hip-joint. In one the acetabulum had been perforated by disease.- Dr. Lisont showed a man, aged 33, suffering from Charcat's joint-disease.-Dr. Oliver, in the absence of Dr. Heath showed a patient with deformed tibin. There was a history of injury twenty-six years previously, and agnin five years before. The disease was regarded as chronic osteitis or pathological hypertrophy:-Dr. Cane, in the absence of l'rofessor l'milipsov, exliibited a man in whom empyema had been successfully treated by incision nnd drainage.-Dr. H.. S. Barsigartver exhibited a child with deformed hand, the supposed] result of maternal impressions.--Dr. Cave showed for Professor Pmilipsos a woman subject to epileptiform attacks, who was believed to have a cerebral tumour.
Empyema Treated Successfully by Incision, Perflation, and Drainage.-Dr. Oliver exhibited a man who had suffered from pyo-preumothorax. A quart of pus had been removed frem his chest previous to admission. An incision anteriorly, also one latero-posteriorly, was made, and perllation by means of carbolised air was carried out. The patient made a good recovery.
Nephrorrhaphy.-Dr. Dodd showed a man previonsly under the care of Dr. Drcmuosp, who gave to the members the history of the case. After experiencing severe strain eight yenrs ago, ho had since complained of pain in the back. The right kidney was freely morable; the left also, but very slightly so. Mr. Dodd operated in the usual manner, employing silk sutures, The man made a good recovery, and was fit to follow his employment.
Dislocation of Lens.-Mr. Piom exhibited a boy whoseright lens had been dislocated as the result of accident. There had been rupture of the eyeball. The leus could be seen undergoing changes of colour and texture.
Laparotomy for Extra-Uterine Pregnancy.-Mr. Rutherford Monrson showed a specimen removed in the early months of pregnancy. A cyst-like mass could be felt lying behind the uterus. There was severe uterine homerrlage. At the time of the operation hæmorrhage of such a serere character occurred from the sac that plugging had to be resorted to, the operation for the time being abandoned. A few days subsequently, after repeaterl intercurrent hæmorrhage, the foetus was removed, and the patient recovered,-Dr. MURPHY, who assisted at thẹ operation, alluded to the difficulties encountered.

Museum of Anatomy and Physiology, Newcastle-Dr. Miears read a paper on this subject. Three things he thought were necessary for a muscum to be complete; (1) a full series of normal specimens, and the notes and histological descriptions; (2) alnormalities : (3) pathological specimens.-The President regarded Dr. Mears's paper as a valuable contribution to the Transactions of the Society, and hoped members would aid Dr. Mears in carrying out his scheme.-Dr. Mantle, Mr. ''age, Dr. James Deummond, and Dr. Oliver, mado remarks also in farour of the scheme.
Specimens.-Dr. Oliver showed specimens of Tuberculasis of Ifeart and Pericardiun; and lleart and the Cord stretched transversely ncross Anterior of Left Ventricle.-Dr. Bradlex showed an Aneurysmo of the dorta, which had burst into the (Esophagus.Dr, Bradley also showed an Úmbilical Cord with True Knot upon it,-Dr. Murpuy showed a Parovarian Cyst.-Mr. Dodd showed a Sarcoma of the Tibia.

## mirmingilam and mdland countes bravoli. fatholofiche and Clinical fection. <br> Frinay, January 27 th, 1888. <br> A. S. Lenemifle, M.D., in the Chair.

Recovery from Paraplegia due to Spinal Caries.-Dr. Stcklino showed a case in which recovery from complete paraplegia, of over two years' duration, due to spinal caries, had taken place

The patient, a man, aged 22, was admitted into the Workhouse Infirmary in August, 1885. He had lost the use of lis right leg three weeks before admission, and a week later that of the left also. When admitted he was completely paraplegic, there being ankle clonus and exaggeration of knee-jert on both sides, with loss of the abdominal reflexes. The epignstric and cremasteric reflexes were present. There was also analgesia of both lower extremities, hut no complete anasthesia. The seventh dorsal spine was prominent, and tender on percussion. During liis stay in bed, which lasted two years and three months, he had four plaster jackets put on, wearing each for about three or four months. He had cystitis and bedsores. At the end of two years and three months he could move his toes, and power gradually returned, till in a menth's time le conld stand, and in another month could walk. The curvature of the spine had increased yery considerably, but there was now no pain or tenderness. There was now no ankle clonus or anesthesia, and the patient walked perfectly well.

Lympho-sarcoma of Posterior Mediastinum. - Dr. Carter showed a specimen of lympho-sarcoma of the glands in the posterior mediastinum, extending thence into the right lung. The patient was a railway porter, aged 37. Ilis family history and previous history were good. 11 i symptoms dated from a year back, with a succession of bad colds, from which. he never completely recovered. Some two or three months before admission to the Queen's Hospital he was troubled with dyspucea on exertion, constant cough, and abundant muco-purulent expectoration. He began at the same time to emaciate rapidly. At no time had he any pain. At the time of his admission the symptoms and signs were those of progressive consolidation of the right lung. with dilated bronchi; there was some dulness on percussion in the right interscapular region, and slight stridor. A diagnosis of mediastinal tumour was made, which was supposed to have caused secondary broncho-pnenmonia by direct pressure on the right main bronchus. He grew weaker, the stridor hecame mere marked, and he died in a paroxysm of dyspncea three weeks, after admission. Dr. Carter also showed a gelatine model of the specimen, which had been prepared according to Professor Catheart's method.
Addison's Disease.-Dr. MACMUNN read a paper on the pathology of Addison's disease, and the functions of the adrenals.
Cerebral Cyst.-Dr. Croioke shewed a specimen of cystic cavity
right cerebral hemisphere. of right cerebral hemisphere.

## REVIEWS AND NOTICES.

The Duties and Conduct of Nurses in Private Nursing. An Address Delivered at the Boston Training School for Nurses. by Wifilam L. Richardson, M.D., Visiting Physician of the Massachusetts General Hospital, etc. London: Field and Tuer; Simpkin, Marshall and Co.; Hamilton, Adams and Co. 1887.

Sick nurses, or nurse tenders, as they are perhans more happily
called in lreland, have received so called in lreand, have received so much indiscriminate praise, that it may well be that a little plain speaking many semetimes be useful; if this be so, it is not to be wondered at that "the lady superintendent of the largest hospital in London." after reading Dr. W. L. RICHARDESON's address, "at once asked for fifty copies, for distribution among her own staff of nurses." The address was given at the end of a year's course of hospital training, and it is creditable alike to the lecturer and his class; only an accom11ished and experienced physician could have spoken so much to the point, and only honourable and earnest women could have been so frankly addressed.
Very wisely, Dr. Richardsen spoke first of tho nurse's duties in the houselold : " Always," he said "e enter on your new office quietly, as one who is willing to assist, and not as though you were a trained professional who had come to usurp the place of those who are only teo anxious to administer to the wants of the patient........Be especially careful as regards your relations with the servints. They rill naturally look uplon you as an interloper .If you have occasion to go into the kitchen for any purpase, make fricuds with the cook, who will usually be fonnd in an aggressive mood, but who can be rery easily persuaded to he your friend." There are, iu fact, a great many iujunctions as to what not to do in thic address, as for instance: "Never have a
prescribed line of duties beyond which you are unwilling to go. It should be a nursés aim to do whatever can be done to comfort or relieve her patient, to assist the plysician, and to help the family:" "Be careful never to appear mysterious in what you are doing, and never to whisper in the sick room, a fault which many people have, and which is sure to awaken suspicion in the minds of nervous patients that something is going wrong." "Be careful never to have confidential talks with the physician, the nature of which you afterwards endeavour to surround with mystery." "Never under any circumstances relate your experiences. Educated in a hospital and familiar with the daily incldents of snrgical and medical wards, nurses are apt to forget that, to the laity unaccustomed to such scenes, their description is painful and often disagreeable." To this last maxim exception may be taken, it would perhaps be to expect a perfection to which the female sex will never attain, and after all the laity do not always dislike to have their unaccustomed palate tickled by the relation of astounding operations, or awful accidents; too often, indeed, the murse and the patient have few topics in common, and the wonderful hospital stories are heard with a kind of incredulous interest. "No greater nuisance exists in the sick room than a talkative nurse," Dr. Richardson truly eays, but eren he allews her to take part in the conversation if the patient leads the way. Some sound advice is given on the duty of a nurse to the physician, and to other nurses in attendance on the casc.

If nurses in attendance on private cases would act in the spirit inculcated in this address, we should cease to hear of cases where women technically competent have made themselves dreaded by the household and the physician, for whom or with whom they have been engaged to work. The volume, which is trell printed and daintily got up, would form a suitable present for a young woman about to leare the training school and commencing private nursing.

De e'Etat de la Dentition chez lees Exfants ddots ef Arribrés. Contribution à lÉtude des Dégénérescences dans l'Espèce Humaine. Avec 32 gravures dans le texte. Far Alice Sollier, née Mathiec-Drbors, Docteur en Médecine, Ancienne Externe des Hôpitaux de Paris et de 1 Hôpital des EnfantsMalades. [On the State of the Dentition of Idiat and Backward Clilderen.]. Paris: Aux Bureaux du Progrès Médical.
Madame Sollier has taken adrantage of clinical work amongst idiot and epileptic children at the Bicêtre, where she devoted lierself to the study of the dental pathology of the patients. This work contains orer 100 clinical reports. Each report includes a heading which consists of a summary of the family history and the symptoms of the patient, together with a note of the general peculiarities of the dentition; then follows a full-description of the teeth, which forms the main part of the report. In some cases good drawings are giren. With the general histories we have nothing to do, excepting that we feel surprise at the nomenclature, which is as specialised as in all other forms of special literature. Those useful gentlemen the compilcrs of dictionaries of scientific terms must be ready to explain the meaning of Gatisme, Merycisme, and Clostomanie; for in this case where the hook is meant for dentists, tis readers cannot be expected to comprehend the dialect of psycholegists. "Gâtisme," it ought to be said, menas the involuntary passage of urine and feces; whilst "Heryycisme" is a term applied to cases where the patient ruminates, not mentally, but literally: Doth terms refer to lunatics only.

The authoress finds that idiocy, with or without epilepry. predisposes about 91 per cent. of its victims to dental deformity and disease. Congenital idiocy has no more special influence in this respect than idiocy developed during the first dentition. The deforinities and lesions are almost exclusirely associated with the second dentition. In 1)r. Sollier's experience the first was found to bo precocious in eight out of sixty cases, but in a quarter of the whole series the first dentition was retarded. Early casting of the milk teeth was very rare ( 1 per eent.), whilst in 11 per cent. it was delayed. In 36 per cent. of the series the secuml dentition was delareit: this phenomenon was commoner in the idiots (26) out of 60 ) than in the epileptics ( 10 out of 40 ). In 14 per cent. there were dwarfed teeth; in 11 per cent. giant tecth. Abnormalities other than giantism and dwarfism were found in 53 per cent.; absence of teeth, excluding retarderl ernption at the period of second dentition, was noted in 11 per cent. Giant teetli wcre
often found where others had ant developed; or else they represented ankylosis of two adjacent teeth. In only 2 per cent. were superoumerary tect discovered. Anomalies of implantation were very common ( 31 per cent.): but anomalies of actual position in rulatima to other reeth were very rare and ill-marked. Anomaties in the direction of the tooth-cronkedness, ohliqueness, etc., were the most frequent of all malformations, and chiefly affected the canines and incisors. Erosion (loss of substance of the enamel over a greater or less area of the surface of the tooth) was often associated with conrulsions, but wns most frequent in. cases where there had beeu no convulsions; thus Dr. Sollier concludes that idiocy, with or without upilepsy, can by itself cause erosion. In 41 per cent. of the whole series there was longitudinal grooving of the enamel ; in 58 per cent. the elges of some of the teeth were noteled. lioth these peculiarities, especially the notches, more often coincided with convulsions than did erosions. Caries and crustation of tartar were evidently aecidental accompaniments of idiocy and opilepsy. The articulation of the upper and lower dentil arches was defective in 43 per cent. In 38 per cent. each arch showed deformity. The authoress turns attention to an undescribed anomaly of this elass, where the level of the two halves of the arch is unsymmetrical. In 45 per cent. of the series the palatine vault was deformed. Yet Dr. Sollier carefully describes (3) cases of idiocy, and imbecility with epilepsy, where none of the charucteristic lesions above deseribed could be discovered. In conclusion, we may say that Dr. Sollier's Etat de la Dentition chez les Enfant: Idiuts is a valuable clinical record, representing one of the best features of French medical literature.

## NOTES 0N B00KS.

Annales des Maladies de TOreille, dux Larynx, etc. (Edited by A. Govgurahfim. January, 1888.)-The present number of this journal contains the following original articles: 1..One by 11 . Chatellier in the form of a letter on aeute otitis media produced by pneumococci, as described by Professor Zaufal. 2 . An article by Dr. Couetoux, of Nantes, on deafuess from a medico-pedagogic point of viess. 3. A report by Clareuce J. Blake of two interesting cases showing the effects of pressure exerted by polypi in the middle ear (between the external tympanic wall and the long process of the incus) ; and 4. The conclusion of Hooper's memoir on the anatoray and physiology of the rocurrent laryngeal nerves. Numerous ahstracts, a hibliograyly, and a supplement containing full particulars of the forthcoming congress for the study of tuberculosis (in man and animals) which is to be held in Paris in July, 1888, complete the number.

## REPORTS AND ANALYSES

DESCRIPTIONS OF NEW INVENTIONS, in medicine, surghor, dietetics, and the allied bciences.

## A TRUSS FOR NGGUNAL AND FEMORAL IIERNIA OF ONE OR BOTH SIDES.

Tue accompanying woodcut ahows a form of truss that has been made for the last four years or more, by Mr, Joaeph Critchley, 88, Upper 1'itt Strent, Liverpool, and whicl I prefer to any other under certain circumstances. It consists of a padded stecl plate that covers the pubes and both inguinal and femoral apertures, being held in place by a stray, round the waist and two between the thighs. The plate is almost triangnlar, its upper aide with rounded corners lying horizontally above the pubes, but instead of a lower angle there are two wings, and between them a space cut ont to fit around the male genitala, which are thus closely embraced at their root.
The instrument was copied or adapted by Mr. Critchley from a simple onc sent to him for repair, and from an illustruted description in some journal, the recollection of which he has quoted to me, but the reference to which acither he nor 1 have yet found. This truss is not of use for large, unvieldy, or wide-necked hernix. Nor is it in any scnse a spring truss, or one that can by pressure
lead to the chrative adhesion of a hornial sac. But it is of value in small, narrow-necked herriw, femoral aud inguinal, of mo or both sides; and is un admitablo protection when liernia is threntened, but not yet doscended. This condition, noticeable in somo. persons who have a thabby abdomen, is more striking in similar cases where herniotomy has been done, with closure of the sec, whether for strangulation or not. It thus usefully supplements an operation for radical cure in cases where a too obvious impulse threatens a return, and may be an essential factor of success, tardily:secured after.previoustailure without it.


I think very highly of this truss in the selected cases for whicht it is useful, and take this opportunity of recommending it to those, who hare not heard of it. By trying on oneself even a casual sample, a good idea of its ralue is readily had, and a sense of security, protection, and comfort felt in the parts to which it is. seplied. The weight raries with its streng th, but the lieariest: are not irksome when in place, and are about the strongest and, most durable trusses made. But even these get inevitally worn after prolonged use, in the scyere wear and tear of artisans.
In ordering, give the nsual circumference round the pelvis, and. make a paper pattern roughly fitted to corer the hairy pubcs, and cut out below to fit around the genitals in the case of males.

RUSHTON PAREFR, Professor of Surgery ip University
College, Liverpool.

## RETERSIBLE NASAL SAW.

This instrument has been designed and made for the remoral of cartilaginous and bony obstructions in the nasal passages. The advantages it possesses are, fineness of the blade, and, by means of a screw at the junction of the blade and the handle, a reversibility which enables the operator to work from above or from

below, or at any angle that may be necessary. The scrated edge extends along from half to three-quarters of the blade, 50 as to aroid injuring the skin of the entrance to the narcs. I liave hitherto had two sizes made-one for fine, the other for coarser work. The maker is Mr. Young, Forrest Road, Edinburgh.
G. Ilventer Mackevzie, Edinburgh.

## BRITISH MEDICAL ASSOCIATION.

 SUBSCRIPTIONS FOR 1888.Subscriptions to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Brancbes are requested te ferward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Office, High Holborn.

## Tbe Britisi) fatcial Journal.

## SATURDAY, FEBRUARY 巳oัтн, 1888.

DEGREES FOR LONDON MEDICAL STUDENTS. THE official document which we publish on another page indicates dryly the extent and charaeter of the opposition which is likely to be made to the scheme of the two Colleges, and the status accorded to claimants for alternative schemes. We may say at once that although the discussion of the points at issue by the aid of "counsel learned in the law will no doubt do much to clear up various questious of right and justice involved in the issue, we do not think that any merely legal arguments can cover the whole ground, or lead to a result likely to satisfy the interests of the public and the profession. The limits within which legal arguments must necessarily be confined, and the technical character which lawyers instructed by brief are bound to impress on their subjects, are apt to narrow as well as to complicate the broad issues, which are the most important in such a question. What we are all concerned in is that arrangements shall be made by which the most satisfactory elements in the various schemes now before the Privy Council can be fused, and the best possible institution provided for graduating London students of medicine under conditions favourablo to the adequate testing of their qualifications as practitioners. Such an institution should be conducted hy persons so well in touch with the educational institutions of the metropolis, that the examinations shall have a useful influence on the progress of medical instruction, and not, as often happens, tend to cramp and fetter free derelopment to meet the ever-changing needs of scientific and social progress. Such an investigation, we repeat once more, can only effectually be made by a Royal Commission, and wo see with satisfaction that the view which we have steadily urged on this subject has been adopted by tho Senate of the University of London. An important and very fully attended meeting of that body was held on Wednesday last, to discuss a motion in this sense standing in the name of Lord Justice Fry. The upshot of the prolonged debato which then took place was a practically unanimous decision that a Royal Commission on tho provisions at present existing in London for granting degrees in the various faculties had become a necessity, aud Earl Granville, the Chancollor of the University, undertook to urge this view upon the Lord President of the Comncil. Should it be necessary to bring
the subject hefore Parliament in order to attain this end, Lord Granville will have the powerful support of the Earl of Derby, the Earl of Kimberley, and Lord Herschell, who are also members of the Senate of the University.

It is unfortumate that the metropolitan medical schools, which are so deeply interested in this question, have boen so slow to move. They have at length begun tardily to act, and aro only beginning to consider the question at a date when it will be difficult for them to acquire a locus standi before the Privy Council, and under circumstances which are otherwise unpromising, and portend, it may be feared, inadequate action.

It is of course obvious that many of the most influential personages on the staff of those schools may consider that their mouths are shut and their hands are tied by their connection with the two Colleges which have taken the first proceedings in the matter; and it is broadly stated that very powerful influences are at work to paralyse their action now, as they have arailed to delay them until this late hour. Of course platitudes have been freely used to suggest that inasmuch as a large number of the senior teachers are at one time or another members of the Council of one or other of the Colleges, schools will have an indirect representation in the government of the new graduating University for which the two Royal Colleges seek.

It ought to be a sufficient answer, in the minds of men of common sense, that indirect representation is one of the worst forms under which abuse cloaks itself; still more so, and most of all, when that representation is not a representation $a d$ hoc on any fixed principle, but a mere matter of chance combinations devised for altogether other purposes. Without implying any disrespect to the other qualities of the Council and Board of Censors of the Royal College of Physicians, it will not be pretended that they are elected with any reference to the special capacity of their members for the management of medical education or for the organisation of medical schools. On the contrary, it is precisely those persons who have least time, and least direct interest in such matters, who are most apt in their advanced years to have acquired influence and position on various committees of the Colleges. No definite rule could bo laid down in this respect in one direction or the other, and the exceptions on either side would probably bo as numerous as the examples which rould be quoted in favour of either proposition. It is quite obrious, however, if the schools and the teaching bodies of London claim, as we think they should most strongly and justly claim, to be represented as such on the governing body of any graduating institution or university in the metropolis, that representation should be direct, and should hare a special reference to its purposes. The representatives should be selectod by the schools themselves, should be in dircet contact with the teaching bodies which they represent, and responsible to them for the expression of the riews of those bodies. All this is well set out in brief in the memorial of the Westminster Hospital School. But it is idle to conceal that nut ouly what are called higher influences are adverse to the bold and definite assumption by the rarious schools of the position which
they are entitled to take up, but there is apt to be a division of opinion and an inconsisteney of netion arisiug out, of mexpressed, but still active, jenlousies.
The great scheols, as they nre sometimes called, are mot $n$ littlo jealous of the sumller schools; and the initiative aetion of King's and University Culleges, however carefully guarded by a formal statement of a full resject for the rights and powers of other institutions, could hardly fail to exeite some feelings of alnrm ind some of jealunsy. If, however, laying asido smaller considerations, the schools could satisfy themselves that in a new scheme for a teaching university in London all claims would be fairly recomised, and all rights fairly represented, and all duties equitably enforeed, there ought to be no difficulty in such eonjoint action as should enable the schools, even at this late hour, to assert themselves lefore Parliament and before the Irivy Council, to nid in obtaining for London a teaching university founded on the widest nnd most secure basis.

## THE BIRTH-PLACE OF CONSUMPTION.

Tuat phthisis is cultivated, if it dees mot actually originate, in overcrowded and ill-ventilated dwellings, is a truism of sanitary scienee; jet it is very difficult to produce reliable statistics which support this lictum by quite umimpeachable evidence.
The reason of this difficulty is not hecause thero is lack of material for an inquiry, or because there is any want of eager observers to cleal with the material existing. It is that there are so inany factors to be considered, so many sources of fallacy to be avoided, that the results oltained have hitherto, for the most part, been little lietter than valuoless; nay, in some respeets even worse, since they have left the etiology of consumption a hopelessly confused and heterogeneous mass of contradictory facts and deductious, which not eren the most industrious and clearsighted cau reduce to order and coherence.
Nothing, for instance, seemed more conclusive than the result of $\mathrm{D}_{\mathrm{r}}$. Buchannn's inquiry inta the effect of tho drainage of towns upon the death-rate from consumptiou, and his subsequent and more extended one, in 1867, into the relation existing between the moisture of soils and the incidence of that disease. Yet Dr. holly, the Medical Officer of Health for East Sussex, has recently thrown tho greatest doubt upon the trustworthiness of Dr. Buchanan's deductions, by showing, in the first place, that a decrease in the death-rate from phthisis had been by no means confined to towns where the drainago has been impruved, but was universal throughout England; while in the distriets examined bey Dr. Buchanan, in his second inquiry, the topographical incidence of phehisis during the periox 1861-\%0 was quite other than it had heen in the years 18.51-60, the timo to which his statistics apily.

We fear, too, thit Dr. Arthur liansorno's inguiry into the I reeding-ground of consunption must be rolegaterl to the liublo of unrcliable statistics, whece so matiy provious offerts have precedel it .

In a paper, read before the British Association at Mancheate: in 1esi, and sulsequently published as one of that remarkahle
and creditablo series, the Manchester Henlth Lectures, ho considered certain prortions of Manchester and Salford, and the conclusions to bo drawn from an examination of their death-rate He selected one distriet of Manchester and two of Salford, as being among the most unhealthy districts of those towns. Ho first visitod each selected area for himself: and then, obtaining from the various health-offiecrs the death-stntisties of each region, from these factors he drew the conclusion that such places as these were the actual breeding-ground of consumption.
In Dr. Ransume's first district (Ancoats No. 1) there was a population of 5,600 persons; of these, 150 had died from consumption in a period of five years, giving a phthisis death-rato of 5.3 per 1,000 per ammum. In his second district (Green Gate, Salford) there was a population of 2,609 , with an amual phthisis death-rate of 6.2 per 1,000. In luis third district (Regent Road, Salford) there was a population of 791 , and a phthisis death-rato about equal to that of the last-mentioned area.

Dr. Ransomo notices, as a first deduction, that the phthisis death-rate in these districts is more than donble the rate for England and Wales. This seems to us an extremely unfair comparison. These eminently unhealthy districts of Manchester and Salford should have been compared with the whole city of which they form a part, and again with hetter sanitated distriets of other towns occupied by the sarno class of workers. Indeed, it appears from some statistics publishel in rolume VI of the Sanitary Recorl by Dr. Ransome himself that during the period 1865-76, while the consumption death-rate for England was only 3.54 , that for Salford was 5.12; for the registration distriet of Manchester, 6.10; and for the township of Manchester in 15\%.4, 7.7. So it appears that tho districts selected by Dr. Ransome as the breeding-grounds of phthisis, instead of owning a phthisis death-rate cousiderally higher than the more bealthy regions of the whole area of which they form a part, have really one slightly lower. This seems to us a grave clement of fallacy, vitiating all Dr. Fansome's subsequent conclusions.

Of conrse the generally high death-rate of the inhabitants of Manchester from consumption is nt least partly necounted for by the cold and humid clinate of Lancashire, partly by tho unhealthy occupation of the majority of the inhrbitants. In the latter relation some remarks of Dr. Greenhow's made in 1861 still retain their importance. He said that the inhalntion of dust in factories was one of the main predisposing causes of phthisis, and that another causo was the working in ill-ventilated and overcrowded factory rooms or workshops. Among tho tralos and places which he specially instanced as examples of this fact are the cotton-mills of Blackburn, a town having a like indusdustrial popul:tion and a like excessive phthisis cleath-rato with that of Manchester.
Dr. Liansome's further and moro important olserrations ou the exact incidenco of consumption in special streets and houses of lis district are vithited hy this initial fallacy, and moreover pussess certain clements of uncertainty of their own. His remaining conclusions are as follows :-
".2. That, although the uhthisis denths are distributed through-
out the [Ancoats] district, yet it is notieeable that at least 15 per cent. take place in the coniparatively few houses contained in the same courts opening by passages into the street.
" 3 . The longest and widest streets in the district are Jersey Street, with ten deaths, and George Leigh Street, with eight deaths; but the number of deaths in these streets is approached by tho mortality of eight in Hood Street, which is only half their length, but which is a mere lane, blocked at each end so as to obstruct free ventilation. Silk Street and Primrose Street are each eredited with nine phthisis deaths. Again, Henry Street, which is a long thoroughfare, has only four such deaths, while Boord Street, a narrow cul-de-sac, only a quarter its length, has seven."
"4. The reappearance of the disease in the same house, as indieated by tho oceurrence of two or more deaths in them within the space of five years, is also most common in the more confined areas."

In the first place the element of inexactitude is introduced by the use of such eomparisons as the relative length of streets. According to Dr. Mapother the smallest and least sanitary houses in Dublin until lately possessed an average population of twelve per house, and even more. A comparison of such a district as this with a larger street whose population was only the normal six per house, would be most inexact, unless this were taken into full account, since the smaller district would contain the larger population. Again the question of occupation intrudes as a disturbing element-it is likely, prima facie, that the larger street would possess some shops, a portion, at least, of whose occupants would be kept out of the cotton factories, while the smaller lanes would be exelusively occupied by inhabitants, almost the whole of whose adult members would be employed in these places.

Again, an examination of the ages of those returned as dying from consumption requires to be made. Are many of them young children? If so, how far does the fact of the employment of their mothers out of the home during the day and their consequent negleet and mal-alimentation while infants enter into the question of the etiology of their deaths? It is certain that during the eotton famine of 1861-5 the infant mortality in the cotton district decreased, owing to the enforeed presence at home of the female population.

We by no means seek to impugn the accuracy of Dr. Ransome's conelusious; we only desire to show that they are imperfect. We aro strongly of opinion that sanitary statistics, to be of any real ralue, must be so exhaustive as to exelude any source of doubt or fallacy to the furthest extent, otherwise they are valueless and misleading. Nothing, or very little, must depend on probability, everything on proof.

Dr. Parkes collected in his great mork on lyygiene a numier of aecurate and model statistics, which prove that overcrording and improper ventilation are fruitful causes of phthisis. It is to support and enlargo these that newer statisties are desirable, but at present they remain almost alone.

We require patient and accurate observers, whose observations extend over wide arcas and through prolonged periods; who have no bias as to probability of causation, but who will
collect a mass of aceurate statistics as to population, both gross and relative, as to ventilation, as to food and elothing, occupation, heredity, climate, and race. Then, and not till then, the etiology of consumption will be mado clear, and one of the most fearful scourges of the human race traced to its true breeding ground, and, being so traced, made capable of diminution and perhaps of ultimate destruction.

We understand that a considerable number of eases of diphtheria have again occurred among the nurses and students at Guy`s Ilospital.

A letter in similar terms to that addressed to the Association of General Practitioners (published at page 434), has been received by all the bodies which have presented petitions relative to the petition of Unirersity and King's Colleges, in favour of the creation of a teaching university, to be called the Albert University:

## the late sir george burrows.

We understand that a Committee has been formed of Fellows of the College of Physicians and others for the purpose of obtaining, with the consent of Sir Frederick Burrows, a replica or copy of the portrait of his late father, Sir George Burrows, painted by G. Richmond, R.A., to be presented to the College, and that a subscription will be opened for earrying out this intention.

## POST-GRADUATE COURSE FOR DENTISTS.

We are informed that arrangements hare now been made for the establishment of a post-graduate course at the Dental Hospital, Leicester Square. The course, which will commence in April, will consist of lectures and demonstrations by members of the staff, and will be open to all registered practitioners. The instruction will be as comprehensive and at the same time as practical as possible.

THE PATHOLOGY OF CHRONIC ALCOHOLISM. At the end of the meeting of the Pathological Societs on Tuesday last, the President, Sir James Paget, announced that the Council had decided to set apart three evenings in the early part of next session for the discussion of the pathological changes produced by. chronic alcoholism and the exhibition of specimens relating thereto. Dr. Payne has been invited to open the discussion.

CHARING CROSS HOSPITAL SCHOOL.
A strong representation has been received by the Council from the staff of the School, with reference to the urgent necessity for increased accommodation for students, the number of whom has, inereased from 134 in 1881 to 2.24 . The Council arc conrinced of the immediate necessity for enlarging the building, and negotiations are now proceediug for acquiring a site on the east side of the school of the Bedford estate, the lease of which has just expired. The estimated cost of the extension is $£ 5,000$, towards which special contributions are invited.

THE BRITISH MEDICAL TEMPERANCE ASSOCIATION. A meetrng of the British Medieal Temperance Association was held in the rooms of the Medieal Society of London, on Tuesday last, at which Dr. Alfred Carpenter, J.P., read a paper on Difficulties of Diagnosis between Symptoms I'roduced by Discase and by Drugs. He gave two typical cases in which most serious symptoms of coma were due to the previous administration of alcohol. Dr. Norman Kerr gavo particulars of 115 completed eases which have passed through the Dalrymplo Home for Inebriates during the last four years and a half; 54 had been under the Act,
and 61 prinite. Of tho 115 cases, 8 per cent. were produced hy wine and leeer only, the rest took spirits as well, or alone. Bighit patienta had been expellod. The averuge time of residence was su'vin months : fie enses were: reported loing well, 4 improved, 36 land not improved, 1 insane, 4 dead, 18 not heard from.

THE NATIONAL PENSION FUND FOR NURSES. STEADY progress is, we aro informed, being made with this fund. Sir Filmund llay Currio has been elected a vice-president, and the General Purposes and Finance Comittees have now been organised. 'Twenty thoumad pounds has been paid into the Court of Chancery as security for the policy-holders and annuitants, an I several theusands of poinds more have been promised for the Bonus Fiund. Applications are coming in daily from nurses in all piarta of the country to the Secretary at the" office, 38, Old Jewry, an 1 some have been received from Malta and one from Iustralia.

## THE MEDICAL SCHOOLS AND THE PROPOSED TEACHING UNIVERSITY FOR LONDON.

A meetrive of dolegatas of the metropolitan medical schools was hehl at the Middlesex Hospital on Wednesday afternoon to consiker the'scheme for a teaching university put ferward by University and King's Colleges, The delegates present were Dr. Vorman Moore (St. Bartholonew's Hospital), Dr. Mitchell Bruce (Charing Cross Ilospital), Dr. Frederick Taylor (Guy's Ilospital), Dr. Curnow (King's College), Mr. Frederick Treves (London Hospital), Dr. Coupland and Mr. M'earce Gould (Middlesex Ilospital), Mr. Malcolm Morris (St. Mary's' Hospital), Dr: R. W: Reld (St. Thomas's Itosyital), and Mr. Berkeley Hild (University College). It will be seen that all the metropolitan medical schools were represented at this meeting, with the exception of Westminster (which bad already, as mas staterl last week, petitioned in favour of the proposal of the Association for Pronoting n, Teaching University) and St. George's Hospitad. After considerable discussion the further consideration of the scheme was postponed to a meeting which will be beld on February 29 th.

## ROYAL COMMISSION ON THE BLIND, DEAF, AND DUMB

A Roval, Commrssion is now sitting to consider the educational poation of "the blind, doaf, and dumb, as well as such other cases as from special circumstances would seem to require exceptional methods of education." Education is a part of hygienic science, for no brain is likely to, work well in social, lifo, and bear without harm the shocks and stralus it is sure to recelve, unless it be train and exercised during carly years; A knowledge of and the care of thes unfortunate ehiklren come within the scope of. professional wern, and lead us to consider thes? questions of cerebral hygicne. As to the work of the lioyal Commission to which we have referred, diagnosis is nis important as treatment, the children must We known and selected before they can be submitterl to "exceptional' methorls of education." Diugnesis of the blind, the deaf, and dumb, may be easy, and tho teachers and ordinary inspectors may pick out such children; but when we come to the cases of idinta, the feeble-brained children, and other caspes which seem to ripuire'excpptional methods of education, more knowledge and skill are required to mako a wise selection amnog the childien in the school. It is woll known that a large clasa among the schonl pmplation differ from the average of normal and perfectly strong rhiliren, bing often unable to attend school on account of frepuently recurrent hedachea, nervousness, Elight chorea-children who are álonether over-mobile; such enses are often unable to follow the ordinary curriculum, and certainly require exceptional methods of education. It is to he regretted that the definition of merital and other brain states is so diffeult
to put in words: lut after all it is not a wordy dufinition of certain brain states that we would wish to bring under notice of the loyal Commission, but a class of children whom we can deline ly what wo see in them, though no one term indicates them as a group. As to the exceptional methods of education that such children require, wo would rather say upon what principles it should be couducted, than name any "special system." We have seen infant-classes in Board Schoels, and the work in the upper classes of schools for imbeciles conducted in very similar mauner. It must not be thought that such "exceptional children," as we speak of in schools, are necessarily feeble minded; to be feeble brained is not necessarily to be imbecile; nerveusness, beadache, over-mobility, over-impassionability, etc., need not prevent mental action being quick, but do prevent a child from running through an immorable curriculum. To exempt such children is not "to mend the evil, they ought to be kept in school, in classos suiterl to their requirements.

THE ILLNESS OF THE CROWN PRINCE. As so many discouraging rumours bave been put about during the past weck, we ar a gratified to be in a position to give dn assurance, on the highest authority, which will hare the effect of diminishing the public anxiety. The Crown l'rince is now beginning to make satisfactory progress; the cause of the unfarourable local symptoms mentioned in the bulletins published at the beginning of this and the end of last week was mainly mechanical. The tube at first inserted into the larynx did not fit well, and there was some delay in obtaining one: which could be worn comfortably. Surgeons are familiar with this dlifficulty, which is often a source of still greater suffering to the patient and anxiety to his medical attendants than in this case. Every individual must be provided with a tracheotomy tube of a size exactly adapted to the contour of the throat and windpipe, wbich' are' subject in individual cases to many rariations. This difficulty, we now learn, has been overcome; a tube of large calibre, specially constructod in this country, has now been adjusted, and the irritation produced by the ill-fitting tubes has passed away. The Crown Princo is now not only able to breathe through the tube with ease, but by stopping the opening is, we are informed by telegram, now able to speak in a strong, though hoarse, voice, and to sarry on a conversation with ease. As the operation was only performed a fortnight ago, this may be considered on extremely satisfactory result: As to the true nature of the disease of the larynx, which has caused the obstruction of the larynx and necessitated tracheotomy, no new light has been afforded, but we learn that the swelling on the right side of the larynx is much less.

## THE OFFICIAL REPORTS ON THE ILLNESS OF THE CROWN PRINCE.

Tris. Berliner Klin. Wochenschrift of Febraary 20th refers to the recent publications of Professor Virchow and Sir Morell Mackenzie to the following effect:- "The above publicatius come at an opportune mement, for both of them are caleulated to allay the excessive anxicty of the public caused by the performance of trachetomy (on II.I.f1. the Crown Irince) and the possible consequences of that operation. It is now clear even to the nonmedical public that tracheotomy does not constitute a verdict in itself either for or against the previous treatment and opinion of the disease on the part. of the surgeons in charge of the case. It is clear, too, that the operation has not come unexpectedly to those enrgeons, and that it is hy means a lust resource. That everything is boiug doué in the after-treatment-and this is for the present the most urgent part of the task-that human ageney can do, is beyond question. We have at least the satisfaction ol knowing that our first surgeen, von Bergmam, is present in the case, and we lope that he will not remain apart (fern bleiben) it
its furtlier treatment, At flrit sight the mention by Virchow of - epidermoidal nests' might' raise aların ; but the same conditions are ovidently present as those referred to by Virchow in his reports of last year, his, aliuress on pachydermia laryngi, and his pullications regarding his previous reports. Therefore we may not yet give up the hope of a haypy termiaation of this painful crisis ;.,but no one, and least of all we medical men, ought-to be surprised if, in such a tedious and serere, affection, warions contingencies arise, and one day cannot be prophesied from another."

EFFICACY OF VACCINATION AND REVACCINATION.
Tue roport by Dr. Sinclair White of the liistory of the small-pox epidemic in Shefficld from its commencement in Murch Jast up till the end of last year furnishes some very striking und instructive figures which ought to convince even the most obstiaate opponents of vaccination of the unwisdon of their course. Thus it appears that 90 per cent. of the people of Sheffield being vaccinated and " 10 per cent. unvaccinated, 97 deaths only occurred amongst the 2,198 vaccinated persons who were attacked; and 157 among the 382 unvaccinated persons who were attacked, the death-rate among the raccinated being 4.4 per cent., the deathrate among the unvaccinated 41.3 per cent. This, however, relates to the whole population, including those wha, not having been revacciuated, had in adult age lost the protection which revaccination would have afforded, and were 'but iinperfectly protected. If the oases of children under 10 years of age be examined the result is still more striking. Of the 100,000 children in Sheffield 95,000 were officially reported as vaccinated and 5,000 as unvaccinated; among the 95,000 raccinated children there were only 2 deaths, and among the 5,000 unvaccinated there were 70 deaths. It should be noted that in the outbreak of $1857-8$, when vaccination was practically voluntary and not compulsory, the figures were exactly reversed. There were 179 deaths among children under 10 , and only 11 deaths among the whole pepulation above that age.
AN OUTBREAK OF DIPHTHERIA AT CHELMSFORD There has been a serious outhreak of diphtheria at the Chelmsford. Grammar School, as to which contradictory, reports have been published. We have received an authoritative statement, from which it appears that two of the pupils, Thompson and Belcher, returned to school on January 24th. On the evening of the same day Thompson was taken ill, but being a weekly hoarder returned, home in the usual course on Saturday, the 2sth. He came back to school ou Mlonilay, the 30th, in good health, complained of headache on Thursday, February "ud, and of sore throat on Friday, the 3rll ; in the evening of that day he was driveu home in an open trap, and was seen later in the day by his medical attendant, who pronouncel the case to be oue of auranced diphtheria. He died on the following Tuesday; February 6th. Belcher, whe on his way passed through Londou in a, railway aarriage with the windows open, had on the 2Gth sore throat and discharge from the nose, which it is stated bled two or three times. On February 5th Dr. Holland found his threat to be red and injected, but did not, it is said, pronounce it diphtheritic, and the boy returnel to his fellow boarders. Dr. Gimson is said te have attended this patient on February $12 t h$, and found him suffering from diphtheria. Another boy, Hardy, was alse attacked, but recovered. Tweed, who complaiued of sore throat, pronounced to be diphtheria on February 5th, died on Sunday, the 12th. There, were two other boys, but they escaped. All these five boys were iv oue dormitory, and all of them were boarders in the house. No case occurred among the day boys. The boys were solated on February 5th, the day on which Delcher's tensils were Fonnd to be reddeued-and injeoted, the master having their throats
examined in consequence of being informed by Mr. Thompson that his son had diphtheria. It is difficult to fix absolutely the date of contagion, but tho opinion is held that the disease was imported by the boy Belcher, who it is thought might have contracted it in the railway carriage. The mischief was undoubtedly aggravated by the fact that the diseuse was overlooked by the head master, and by his failing to call in medical auvice; it is felt that Thompson should not have been moved as he was, but for this the father was equally to blame with the master, The case of IIammett, seen by Mr. Carter in his capacity of medical lofficer of health, has not, as reported in the press, ended fatally. It is satisfactory to hear on trustworthy autlority that there are no defects in the sanitary arrangements of the schoollouse. The school itself has been shut up since Suday, Felruary 12th, the only boy remaining being Hammett, who is still ill.

## THE DONDERS MEMORIAL FUND.

Subscriptions to the Denders Memorial Fund may be sent to either of the secretaries of the Joint Committee appointed by the Ophthalmological and; the Physiological Societies, Dr. W. A. Brailey, 11, Old Burlington Street, W., and Professor Gerald Yeo, King's College, London, As we stated a couple of months ago, the oceasion of the memorial is the approaching retirement of the eminent physiologist and ophthalmologist from his professorial chair in the University of Útrecht... Professor Donders attains his. seventieth year on May $27 \mathrm{th}, 1888$, and the ilaw requires his resignation to take effect from that date; he has been connected with the University for more than forty years, and is at present Prefessor and Director of the Physiological Laberatory. It is, intended that the fund now being raised shall be deroted to some purpose approved by Professor Donders which shall connect his ? name in a permanent way with the spot where he has lived and worked for so many years, by the creation of a fund de-i voted to a scientific purpose, and which shall be known as the "Donders Memorial Fund." The rules and special destination of, the fund will be drawn up and fixed with the concurrence of Pro-, fessor Douders, and will be in full accord with his wishes. - It is ${ }^{\prime}$ intended that the co-operation of our countrymen should be rather. for the purpose of paying a tribute to the world-wide reputation of Donders than of collecting any large sum of money. It is proposed that the amounts contributed by the several donors be not specified, but that they bé grouped into a common sum for transmission to the Dutcb Committee for any scilentific purpose Professor Donders may clioose, and that the namies of those contri-' buting be inscribed in a suitable form for presentation to Professor ${ }^{\text {- }}$ Donders. For this reason, smaller as well as larger subscription ${ }^{\prime}$ will be acceptable. The English Committes is working in connection with the committee formed in Holland for the same purpose.)

THE HOSPITAL FOR CONSUMPTION, BROMPTON. 1 In consequence of cases of sore throat occurriug among the nurses : and servants in July last, the committee of the Hospital for Consumption, Brempton, ordered as searching inquiry to be made byMr. Rogers. Field, M.Inst.C.E., into the drainage of the old building. Portions of this were fouud defective, partly owing to badz workmanship and partly to the low level of the portion of the: building containing the kitchen, the inmates of which had suffered: from time to time from sore throat. The committee, therefore; wisely decided to close the old building for some months, and to execute the necessary repairs whicls, in addition to a complete new system of drainage, include the huilding of a now bitehen at a higher level, and two commodius dining halls in connection with: the Victoria and Albert Galleries. These works are approsching completion, and half the old hospital has beeu already reopened for paticnts. The usual Weduesday lectures and demonstrations: are now held at 4 p.x., in the large Recreation Theatre of the new
building, which is specially adapted for clinieal demonstrations. Those by Dr. Aeland, on Mitral Stenosis, have been largely attended. 1)s. Theodore Williams will lecture on Fehruary agth and March 7th on the Pathology and Modern Treatment of Bronchial Isthma: and on March 14th will demonstrate tle Uses of the l'neumatic Cuhinct in bung Disense. This instrument, inrented by Ketchener, of Ners York, ingeniously combines both atmospheric rarefaction and compression, and is a new departure in aëro-therapeutics.
THE NEW SMALL-POX HOSPITAL AT SHEFFIELD. Tas erection of the small-pox liospital at Lodge Moor was practically completed on Saturday, February 18th. It is less than three months since the contractors, Messrs. Bissett and Sons, were commissioned to proceed with the mork. The electric light has been made use of to expedite the construction of the hospital. The building is entirely composed of wood, and contains a dozen Wards, which are fuced with red wood, and painted; the roofs are covered with thick tar felt. The walls and roof are constructed of a double thickness of bonrds, with an air-tight cavity of nine inches, with \& thickness of felt under the outer boarding of the walls, and the whole is lined with thick Willesden paper. Each ward is heated by a large stove in the centre ; air is admitted by gratings near the floor, and is heated by passing over hot-water pipes. Arrangements have been made for the eseape of foul air. At present there is accommodation for 00 patients, which cas be increased to 120 if necessary. Each ward building has a space of 12 feet by 12 feet, and a cubic space for each patient of 2,000 . Close to the patients' rooms are the nurses' bedrooms, whilst in convenient places are attached to each mard nurses' duty rooms, bath room, lavatory, earth closet, closet for sink, coal, coke, and stores. The situation of the hospital will expose it to cruel blasts in the winter. It is four miles from the Sheffield parish church, but communication by telephone with the town is being establisherd. When the hospital is fully occupied there will be a staff of eighteen nurses and sixteen servants. Dr. J. Pearson has been appointed resident medical officer, and Miss Batchelor matron. This building is additional to the Borough Fever Mospital, which is also avnilable.

## THE ASSOCIATION OF FELLOWS OF THE COLLEGE OF SURGEONS.

THe Committee of this Associntion is about to present to the Lord President of the Privy Council a rejoinder to the "reply" of the Council of the College to the Association's statement previonsly submitted to his lordship. The rejoinder in full will shortly be published in the Jocrasal. The "reply" appeared in our columns on February 4th. In the rejoinder," the Committee of the Association declare that the reply is so misleading that the Lord President's attention is directed to a criticism of its clauses. With regard to the number of Fellows, the electors of the Council, it is steadily diminishing. Though the Fellowship is a reguirement for most hospital appointments in London and the provinces, other important surgical qualifications have recently arisen which may make those who hold them eligible for similar appoint ments in future; then the supply of Fellows by examination would decline yet more rapidly, and the electorate would thus become too small a body for the proper disclarge of its functions. Increase of the Fellows hy large anmual elections would deteriorate the qualification. Sir Benjamin Brodie is then quoted to prove that the Fellowship was initiated by him and originally intended for tho introduction of men of higher professional and seientific education, rather than for electnral purposes. It is not correct to say that any Member of two years' standing may present himself for the Fellowship examination, which demands time and money. The so-called privileges of Members are :rifing, and their admittance
to the College Museum rests on Act of Parliament. Members aro net eligible on the Court of Examiners, but only to certain junior examinerships. The passing of a by-law by appeal to the Fellows and Members would not eause "delay and difieulty," ns the "reply" enclea vours to muke out. The question of the election of the I'resident is then explained, and the rejoinder notes that the recent salutary change is the result of pressure from without, which may not continue; and that, if the Council are the best judges of the qualifications of their own members for the l'residency, they have never exercised such julgment, but have, until eighteen months ago, passed the oflice round in rotation. The College is truly a political institution, and not private. The results of inquiries recently made by the Council are misleading. The Association justly complained that the complete conjoined scheme was not snbmitted to the whole body of the College of Surgeons as it Was to the Fellows of the College of Physieians, and the "reply" attaches undue importance to a resolution on the scheme hastily passed at the general meeting in 1884, neglecting others of equal importanee passed almost unanimously in recent and fuller meetings. It is true that the proposal for wholesale annual elections of Fellows was never discussed at a Council meeting, but this mas owing to opposition from the Association; and it is certain that the proposal was made. On the abore grounds, and on others which will be open to the perusal of our readers next reek, tho Association declares that the reply leaves the statement unrefuted. In order to prove that the sentiments of the rejoinder are not unrepresented on the Council, the Lord President's attention is directed to the amendment, which was moved and seconded by Mr. Macnamara and Mr. Willett, at the meeting of the Council at which the reply was settled. We publish the amendment this week. Thanks are cordially due to the two members of Council who proposed and seconded it, and we must all feel satisfaction that there are such bold advocates of reform amongst the elect at Lincoln's Inn Fields, men who are doing their best to make into law the recent improved procedures in respect to annual meetings and the election of the President.

## PLAGUES ANGIENT AND MODERN.

At a meeting held at the Parkes Museum on February 16th, Sir Douglas Galton, K.C.B.. D.C.L., LL.D., F.R.S., in the chair, Dr. J. F. l'ayne gave a leeture on Plagues Ancient and Modern. The lecturer compared the distribution of certain specific diseases over the globe to the gengraphical distribution of plants and animals. They were uative or indigenous in certain centres or regions, from which they had at certain times migrated. The history of their migration was the history of epidemics. From the history of the oriental plague - of which the Black Death in the fourteenth century was the most destructive outbreak-it appeared that this grent pestilence was derived from Asia. Contemporary witnesse lad observed, and indeed accompanied, its mareh from the borders of Tartary to Italy. The probability was that its original starting-point was still further East, in China or possibly in India and in confirmation of this it was shown that the true plague, ir a form closely resembling the Black Death, still exists or has exised within the last fer years in both India and China. Thi original sent of the disease must therefore be placed in one o these countrics, probably in Chima, and its invasion of Eurone in the fourteenth century was an instance of migration from it original home. The historical sweating sickness, which prevaile in England in the time of the Tudor kings, was next spoken of It was thought to be a disease imported from France by th foreign mercenary soldiers of Henry VII, and owed its extra ordinary severity to the fact that it was a new disense in Englan since diseases often suread in a new country with great rapidit and virulence. Annther instance was afforded by the introductio of Euronean measles into the South Seas, where, especially i

Fiji, it had caused an enormous mortality: A disease closely rescmbling the sweating sickness still recurred from time to time in certain parts of France, and a considerable epidemic of it was observed only last year, when it spread through numerous villages and caused a not inconsiderable mortality. In both these cases the old bistorical pestilences were to be found still existing in modern times, but at a distance from countries in which their most destructive visitations had occurred.

## DOG MUZZLING AND RABIES.

A deputatrox consisting principally of members of Parliament representing divisions of Lancashire, introduced by Sir Cghtred Kay Shuttleworth, M.P., waited upon the President of the Privy Council (Viscount Cranbrook), on February 16th, asking that the same regulations with regard to the muzzling of dogs should be enforced in boroughs as existed in other parts of the cóuntry. Sir Ughtred Kay Shuttleworth pointed out that the regula tions enforced by the county authorities were not adopted by the borough authorities, and consequently the efforts of the county authorities were defeated. Other speakers adrocated that an order should emanate which would apply to the whole of England. Colonel Moorson, the chief constable of Lancashire, cited statistics showing decrease in the disease as the result of muzzling regulations being enforced. Viscount Cranlrook said, in reply; that the subject was not so easy to deal with as some persons imagined. The House of Lords' Cormmittee, on the subject last year, found that there would be some 300,000 dogs exempted from registration, but he thought it quite possible that it might he well to give extended powers for the destruction of stray dogg. He thought that Lord Mount Temple had a Bill before the House of Lords, or was about to introduce a Bill, which might make it unnecessary for the Government to introduce one of the kind. No doubt such regulations as had been enforced had done a great deal of good. In London the disease had been reduced materially, the number of cases had been brought down to units where it had been tens. He could not hold out any hope that the Privy Council would take the responsibility of making a law for the whole country, but perhaps the deputation would be satisfied with the assurance that the subject was very strongly before him, and that he was very anxious to assist in getting rid of the disease.

## A SELF-SUPPORTING PROVIDENT DISPENSARY.

Wr have received last year's report of, the Battersea Provident Dispensary, and can congratulate that institution on its continued success; it may be fairly considered to be self-supporting, the small amount of voluntary subscriptions ( $£ 829$ 9. 4 d.) not seriously affecting the working of the institution. The rules for benefit members are for the most part well adapted for successful working, and the insisting on a wage limit, with payments in proportion to earnings, is decidedly to be commended; on the other hand, we must emphatically condemn the principle of admitting members when sick on the payment of special entrance fees; this, in our opinion, is altogether contrary to the provident principle. There can be no doubt that institutions of this kind are a boon to the industrial classes of our great cities, and that by their means a large proportion of the working classes are enabled to obtnin efficient medical attendance in sickness at a rery moderate rate. While, however, duly estimatiug the great advantage of this to the community at large from a public point of rien, it cannot be denied that it bears somewhat hardly on the profession as a class: we do not consider the 11s. 2d., which seems to have been the arcrage confinement fee, alequate remuncration for attendance on midwifery cases by qualified medical practitioners, and we also think that any institution which undertakes midwifery at such low rates competes somewhat unfairly with tho neighbouring practitioners.' We observe that $2 \overline{3}, 000$ professional risits were made in
the rear at patients own houses, by the five medical officers, for a remuneration of £S93, or at the rate of £179 for 3,000 professional risits, which we may assume would bave been the amount receired by each bad the work been equally divided; the payment for work done does not seem rery munificent. Many busy practitioners would consider 5,000 professional visits, with corresponding consultations at home or at a dispensary, a very fair year's work; and for our own part we do not think there are many who would have the inclination or the time to do much in addition to this, so that it would seem that the medical staff of the Battersea l'rovident Dispensary must devote nearly the whole of their time to the duties of their office. and, under these circumstances, we cannot consider the scale of remuneration by any means liberal, although we are told it is 60 per cent. of the entire contributions of the members. On the other hand, it is observed by the able and public-spirited clergyman who is the chief promoter of this flourishing institution, that if the rate be "not liberal," it is the profession itself which reduces it. The Battersea Provident Dispensary is described as surrounded by dispensaries, at which, "Adrice, 6d., and medicine, ls.," is given to persons when sick, and where 10 s. is charged for confinements. The medical men of the neighbourhood are said to show great willingness and even anxiety to be put on the staff of the dispensary. It is to be remembered, too, that the medical man gives nothing but his adrice. The-medicine is made up at the drug store in the building. There is no booking of debts, or collecting them, or unpleasant reception of sixpences and shillings from poor folks. It is stated that a medical officer who was most sought after during the last year, a comparatively young man, received a cheque of about $£ 300$ clear for each half year.

## SCOTLAND.

## SMALL-POX IN PORT GLASGOW.

A case of small-pox has occurred in a densely populated portion of Port Glasgow. The Greenock Infirmary authorities refused to admit the case to their institution. In the meantime the case has been isolated, and reraccination has been performed on those who were at the time in the same house.

## A DANGEROUS WATER SUPPLY.

THE town of Newmilus, in Lanarkshire, seems to be in a very bad way as regards its water supply. The prevalence of fever in certain districts led to au examination of the water, which is obtained from a number of wells. The report stated that the water of one well was a mixture of 1 part of sewage, with 9 of water; of another, 1 part serrage. with 25 of water; of a third, 1 part sewage, with 3 of water; a fourth, 1 part semage, with $\frac{21}{2}$ of water; and a fifth, 1 part semage, with 4 of water. Four other wells were contaminated to a large extent, and only oue supplied water free from serwage contamination. A public meeting is to be called to consider this serious state of affairs.

## queen margaret college, glasgow.

Turs College is the only one for women which exists in Scotland on lines similar to that of Girton and Nernham. Some years ago an effort was made to ensure the permanence of the institution by the raising of an endowment fund. The buildings of the College, which cost $£ 12,000$, were purchased by Mrs. Elder, widow of the well-known Clyde shipbuilder, but will not be absolutely conveyed to the trustees of the College till the endomment fund reaches $£ 20,000$. The effort to raise that sum was allowed to pause for a time owing to the extreme depression of business, but it has been agaiu revived, and a sum of nearly $£ 12,000$ has now
heen reached. During the few years in which the institution has existed its value in affording celueational facilities to women has been abundantly proved, and the adrantages it offers have been ixfeusirely made use of. It is to be boped that the endowment fund will soon reach the desireld amount, and that ly the cmborment of chairs and the adlition of new lectureships, the value of the institution may he still more increased.

ST. MUNGO'S COLLEGE, GLASGOW.
Trere prevailing !mpression witl regard to the Bill for the erection of the flasgow lioyal Infirmary into a College of the University $s$ that there is not the remotest prospect of its being adranced to any considerable stage. It is believed that thisisession. the Government means to push forward the Scottish Universitics Bill in carnest, and that the chances of a Unirersities Act coming into existence are better than ever hefore. Obwiously, the question of the aniliation or erection of colleges is one which should come before the Commissiners appointed under such an Act. The satisfactory thing is that unirersity reform, so long talked of, is likely, in part, at least, to be soon realised ; and it will he in every way adrantagious that the universities' as they are be reformed from within lefore they become extended by the addition of new colleges.

## DIPHTHERIA SUBSEQUENT TO MEASLES.

Eninbungir has recently been visited by a somewhat severe epidemic of measles, and in several cases croup or diphtheria has superrened or complicated the disease. Two or three cases of the latter have required the operation of tracheotomy:

## CHAIR OF BOTANY, EDINBURGH

THE following are the candidates for the Chair of Botany in Edinlurgh University (racant by the death of Professor Dickson), from whom applications and testimonials have been received: Isace Bayley Balfonr, Sherardian Irofessor of Botany, Oxford; James 11. 11. Traill, Professor of Botany, Aberdeen-University; William Ramany. Macnah, I'rofessor of Botany, Royal College of Science, Dublin: Patrick Geddes, Senior Demonstrator of Botany, Edinburgh University, and Lecturer on Botany, Heriot Watt College; and George R. M. Murray, Senior Assistant, Department of Botany, British Museum, and Examiner in Batany, Glasgow University. The curators of Edinburgh University are the patrons of the Chair, and will prolahly, make an appointment to it this week.

## OVERCROWDING AND FEVER IN GLASGOW.

At a meting of the Glasgow Town Council held on Monday, a most interesting report was mresented hy Dr. Russell, medical officer of health, bearing on the relation of overerowding to the production of the exceptionally large number of eases of enteric and typhus fevers which have occurred in Glasgat during the past fortnight. 'The number of cases of fever registered was thirtynine as compared with twenty-six, namely, twenty-two cases of typhis and 17 of enteric fever. This is the largest number of cases of typhus registered in one fortnight since December, 188\% As usual, the first eases were certified and admitted as enteric ferer. The first case, a boy, aged 11, was admitted to hospital on January l6th, but in two of the families from which cases Ficre next removed there was evidence of previons illnesses of children dating hack to the new year. It is a frequent "xperience thal typhus begins with the youngest children, and prases unrecognised among the frequent illnesses of children in these localities. Of the fourteen families infected, nine occupied houses of one apartment, four of two apartments, and only one of three apartments. This latter was a case in which a respectable old couple had the services by day of a girl nged 1.t, who slept in an overcrowded bouse of one apartment in Riehard Street. This tras one of the houses in which the appearance of recognised typhus was
preceded by sickness in a child. The girl and tbe old lady sho served heth sickened with typhus on the same day, which gives almost a demonstration that typhns was in the house and was transplanted by the servant to the mistress, 60 as to take root in both at the same time. That is tho only assured case of individual infection traced. The circumstances of the other cases arc the commonplace ones of overcrowding and dirt. Special houso-to-house inspection revealed great orercrowding in certain strects. The want of compulsory power to effeet remoyal to hospital is most felt. There is no other way of getling the clothing of such persons disinfected. One young man thonght so much of his newr suit of clothes as to abscond with them.

MEDICAL OFFICERSHIP OF HEALTH, ABERDEEN.
THE public conscience of therdeen is greatly cxercised at present on the subject of the duties of the medical offieer of health, and the extent to which the individual who is nppointed to that office should devote himself to its duties. A public meeting for the discussion of the snbject was held in Aberdeen on Saturday last, and a resolution was adonted to the effect that the medical officer of health should derote his entire time to the duties of the office, and that he should either reside at the citr hospital, or that regulations should be made whereby frequent visits might be made to the hospital so as to eecure ample menlical supervision and general efficiency at the institution. The same toplic whis the subject of a prolonged discussion in the Abcrdeen Town Council on Monday. It was resolred that the salary to be paid slimuld be e300 per annum, and that the medical officer of health should visit the City Fever Hospital at least $t$ wice a day, but that he need not necessarily reside there. The Public Health Committee had recommended that the offeer shonld reside in the hospital, hut by twelre rotes to nine the above resolution was adopted. As a sequel, Dr. Jaitland Moir, convener of the Public Mealth Committee, intimated his resignation of that office.

## IRELAND.

DR. CROKER KING.
This gentleman, who has been suffering from gangrene of the foot, is somewhat better. A definite line of demareation has formed, and-it is hoped that the result will be satisfactory.

NORTH DUBLIN UNION.
A sworn inquiry was held at the North Dublin Union on Tuesday, February 2Ist, regarding the quality of meat supplied to the paupers. Dr. Kenny, M.P., one of the medical officers. said he had often rejected meant as unfit for human food. Me had found pieces actually green. On one other oceasion he found the meat too fibrons and fat. On one oceasion he rejected the whole of the meat for the inmates of the nev buldings. Dr. Alinchin satd he had never observed the meat to be bad.

## MERCER'S HOSPITAL.

At a meeting of the Ilospital Fand Committee last rreck; a motion was passed omitting Mercer's llospital from the lisi of hospitals cotitled to a slare of next year's grant. This action was proposar by the Rer. Dr. Ifanghton, and there were only one or two to ssy a word in defence of the hospilal. It was pointerl out that the inevitable result nould be that the Corpmethion would also withdraw its grant. An 'ex-governor stated that he was dissatisfiect with the management, and particularly with the intention tr spend some thousands on new wards while it wha found impos. sible to kerp all the existing, herls npen. Finally, the Committee adopited Dr. Haughton's proposal with but one dissentient A morning journal calls lourlly for the retirement 'of those governore who hare never given'a penny to the funds!' As
expenses incurred by the late inrestigation, it says: "We think that these expenses ought to be borne by the individnal members of the Board, and that those who hare so long posed as philanthropists at a cheap rate ought now to put their hands in their poskts, and pay up the costs involved by theirown incompetence and mismanagement." This is the general opinion.

## FOOD-POISONING.

A number of adult inmates and children of the Belfast workhouse have suffered poizonous symptoms after eating portions of buns supplied to them. The medical officer found twenty-three children on the floor vorniting, and some of them screaming. Ten of the men had to be remored to the hospital, but all have recovered. The guardians hare directed an analysis of the remaining buns to be made.

## THE DISMISSAL OF DR. MAGNER.

A meeting of the Timoleague Dispensary Committee was held recently, in reference to a communication from the Local Gorernment Board relative to Dr. Magner, who had been elected a few weeks since to the post of medical officer of the district. The letter stated that the conviction and sentence of Dr. Magner, for criminal conspiracy, having been confirmed on appeal, the Board declined to sanction the appointment of Dr. Magner as medical officer to Timoleague dispensary district; and requested the committee to appoint another person as medical officer. The committee adjourned until this week to consider the matter.

DEATH OF THE PROVOST OF TRINITY COLLEGE. The death of the Rev. J. H. Jellett, Prorost of Trinity College, occurred on Sunday evening, after a few days' illness; it has caused widespread regret. He was a very distinguished mathematician, but in medical circles his loss will be most felt, because of the enlightened encouragement which he gare to the development of the medical school connected with his university. He died of acute pyæmia. On Thursday he complained of sore throat, followed by rigors. On Saturday an abscess had developed near the elbow, and it was at once opened; but he gradually sank, and died on the following evening. His funeral was rery. largely attended.

## ALLEGED DEATH FROM STARVATION.

Mrs. Croone, of Coachford, County Cork, Who Was arrested on a charge of having eaused her husband's death, has been allowed out on hail until the trial takes place. The following is the evidence of Dr. Crawley, who made a post-mortem examination of the deceased with Dr. White:-The, body was greatly emaciated, in fact it was a mass of skin and bonc. There was hardly any subcutaneous, fat, and only a trace in the omentum. The bladder mas contracted and empty; the lower bowel was also empty; the Intestines were empty and collapsed; the stomach contained some gas and a small quaptity of some coloured fuid and a little mucus : the coats were thin; the kidneys were healthy, no surrounding fat ; liver small, but bealthy ; gall bladder greatly distended. On opening the chest some old pleuritic adhesions were found, and in the upper portion of the lungs a number of caseous deposits; all the organs were bloodless; the heart somewhat enlarged, with a tendency to fatty degeneration; the right ventricle contnined a small quantity of hlood, the other chambers were empty; the aortic valves wore defective. In his opinion the cause of death was due to starvation in n man rednced by chronic pulmonary disease; be believed if ,he had had proper treatment and diet he
might bave lived for a number of years.

## THE MEDICAI, SERVICE AND THE IN'TERESTS OF THE PLANTERS AND COOLIES IN BRITISH GUIANA.

We have already on several occasions referre-l to the agitation against the new constitution of the medical service of Lritish Guiana, which has indirectly led to a political crisis in the colony. The main issne has been obscured by the introduction of a Tariety of collateral interests and subsidiary incidents, but the broad facts, as they appear in the official reports of the colony, are of sufficient inportance to warrant further reference to them here.

The Medical Service-By the passing of the Medieal Ordinance in August, 1886 , the position of the Mledical Service underwent a complete change: in partieular the Immigration Jfedical Serrice ceased to be a culh-department of the Immigration Department, and became an integral part of an independent Medical Department, which, among other dnties, Tas responsible to the Gorernment for the medical and sanitary state of the immigrants.

Immigrants.-The immigrants are chiefly coolie labourers from the East Indies, who enter into indentures to work for five-rears on the sugar estate for which they are required. At the end of that time they are free to more to other estates cr to leave the colony, but cannot claim a free return passage until dfter the expiration of ten years in the colony. It will be admitted to be the duty of the Gorernment to see that the rights of the coolies are maintained, since they hare themselres no constitutional means of asserting them.

Constitution of the Colony.-The constitution of the colony is peculiar and obsolete. Legislative authority is exercised by the Court of Poliey, a body of ten memhers, divided into two sections -(1) the official section consisting of the Governor and the four heads of the principal Gorernment offices, and ( 2 ) the electire section consisting of five persons, who must be owners of land in the colony, chosen by the Court from a double nomination sent up by seren persons who form a body called the Callege of Electors holding office for life. The elective section thas represent the planters, and from the perusal of official reports and of the local newspapers it may be gathered that sir Henry Irving, the forernor, who has just retired, when advising improvements in the sanitary and other surroundings of the coolies and of the free labourers, has frequently found himself in conflict with the elective members of the Court of Policy and with the organs of planter opinion in the press.

The Medical Inspector's Report.-In 1Ra6. as has been stated, the medical and sanitary care of the immigrants was among the duties taken over by the Medical Department; it therefore became the duty of that department to make itself acquainted with the existing state of the dwellings on the estates, and of the hospita's reguired to be provided on each estate. The office of medical oflicer to the Immigration Department having been merged in that of medical inspector ander the nem Medical Ordinance, this officer (Dr. A. D. Williams) undertook to make, during the course of his inspections, a detailed report on tlie medical and sanitary state of the immigrants. Some idea of the maguitnde of tlie human interests involred may he gathered from the fact that the population of the estates inspected was estimated in the middle of 1886 at 70,312 , the total population of the colony at the same date being iestimated at 224,311 . The report pointed out a number of particulars in whilh the planters were represented to have failed in their duty. With regard to the Fstate Mrspitals, overcroivding, especially in the wards for women and children, imperfect ventilation. bad latrines, geueral faultr design, and insuffleient supply of bedding and clothing were among the chief defeets noted separately of simultaneously in a large proportion
of those inspected. With regard to of those inspected. With regard to ducellings bad rlesign, disrepair, defective rentilation, absence of any provision for removal of excrement, defective drajnage, contapination of water supply by exeremental products and surface drainage, were defects found rery frequently to exist! With regard to immigrant ships, de-
fective ventilation aud inadequate hospital accommodation are noted. The report concludes with a number of statistieal tables and comments thereon.
The death-rate among indentured immistants is stated to be 27.4 per mille, which; when it is rememberei that the immigrants are young adults selected in Calcutta as healthy, is undoubtedly ligh: it must however be noted that in another part of the report it is stated that a large proportion of them are affected by chronic risceral and intestinal diseases when landed; the death-
the 24th Mareh, 1884, which are set out in paragraphs 9 to 12 of Mr. Pollock's statement to the Privy Comeil.
6. The Council believe that the authority and influenco of the College would be enlarged and strengthened if the proposed supplementary charter contained clauses giving effect to those resolutions.
"7. The Council are of opinion that the precedent establishal in 1843, when in the elarter obtained in that jear provision was made for calling an anuual mecting to elect members of Council, should be followed now that the Council have deeided to call an annual meeting to which a report from the Council shall be presented.
"8. Seeing that the practice of annual eleetion of the President by. seniority merely has ceased to exist, the present l'resident being in his third year of office, the Council are ready to consider whether the continuance of this altered eustom should not bes ensured by cmpowering the Fellows to eleet the President and Vice-Presidents on some seheme of the eandidates for these offices being nominated by the Council and the Fellows, Such a scheme, when settled, would require to be enacted by the charter, as it would entail the ealling of an anmual meeting of the Vellows.
"9. The Council reoognise the fact that, unless the calling of the anuual meeting of Fellows and slembers and the altcration in the eustoms of eleeting the l'resident are made obligatory by the terms of the charter, there is a risk of these concessions becoming
inoperative, only on the decision of the Council.
10. The Council regret that, when issuing a circular to the Fellows in 1887. with the object of obtaining thair opinion on the questions of Nembers of the College being empowerod both to vote at the election of members of Council and to be eligible for
seats in the Council, they did not adress inquiry to the Fellows seats in the Council, they did not address inquiry to the Fellows
with the'object of learning their opinion as to the Fellows electing the President; but, seeing that during the four years the agitation of this subject has lasted no remonstrance from any Fellow has been received by the Council, it may be assumed the Fellows at large really desire this change. Moreorer, it would appear inconsistent to speak of the Fellowship representing a higher grade than the Membership, and to admit the qualification of the Fellowship as an elective body for the membership of the Couneil, and yet to doubt the capaeity of the Fellows to elect their own President, or, if capable, to infer that they are not to be trusted with the duty. The Council feel that this change will
have the effect of approximating the constitution of the College have the effect of approximating the constitution of the College England, Scotland, and Ireland, in every one of which, with one England, Scotland, and Ireland, in every one of which, with one
exception (namely, the Royal Collepe of Surgeons of Ireland) the Fellows meet at stated periods in their respective Colleges to discuss and approve the acts of the Council."
The above is published as part of the minutes of the Counci which are suspended in the hall of the College. Deing of considerable importance, we publish it in full.

## MEDICAL DEGREES FOR LONDON STUDENTS.

Trre following letter has been received by the ILonorary Secretaries of the Association of General Practitioners.

59,652.
Council Onfice, February 17th, 1888. Sir,-I am directed by the Lord President of the Council to inform you that the Lords of the Council have determined to hear counsel in the matter of the petition of the Royal College of Physicians of London and of the Royal College of Surgeons of England for a charter to incorporate the Presidents and certain alembers of those Colleges under the name of "The Senate of the llyssicians and Surgeons," with power to grant degrees in medieine and surgery, but that their lordships will not be prepared to do so before Mlonday, April 16th next. JIis lordship, ind structs me to state that yon will he duly informed of the day and hour when they are definitely fixed.
The Lord President further instructs me to transmit to you $\Omega$ list of petitioners, together with the names and addresses of thei ngents, with a view, wher
mitted to their lordships.
1 am to add that twentr-five copies of the case to he submitte (printed in accordance with the directions contained in the rules established by Order in Council of March 24th, 1871) should lodgel at this onice on or before March 3lst neat.-1 am, s. your obsedient servant,

## SENATE OF PHYSICIANS AND SUIRGEON゙S

From.
Colleges of Hhysiciansof Londou and of Surgenns of Dingland.
ssociation of General Practitioners.

Cambridgo Üniverहity. sentation before the charter is
granted. Medicine for Women.

Faculty of Mrdieine atQueensCollege. Birraingham, and associated hospitals.
The Owens Callege,
Manchester.
Precis of Petitions, etc.
Petition for a charter to focorporate the Presidents and eertain Memhers of those Colleges with power to grant degrees in medicine and surgery.
Letter requesting that they may have an opportunity of urging their views with regard to the application for the grant of tha charter.
liequest that they may have an oprportunity of making a repregranted.
Request that in the event of the charter being granted provisions may be made that examinations should be open to women as well as to men
Pray that in the event of the charter being granted the students of Queen's College and other provincial medical schools may he admitted to examinations for degrées.
Pray that in the event of the charter belng granted the interests of provincial students may be protected.
The Victoria Cnitersity, Mancliester.

Triaity College, Similar prayer. Dablin.

Ediaburgh Univer- Similar prayer. sity.

Durlam Univer Similar prayer.
sity.
London University. Request that the charter may not be grated without thelr having an opportunity of being heard on the subject.
Iniversity and Request to be heard before tho Kiog's Colleges, charter is granted.
London.
Glasgow Univer Pray that the charter may not be sity. granted.

Aherdeen Univer- Similar prayer. sity.

The Yorkshire Col- Similar prayer. lege.

Sociely of Apothe- Oppose grant except on condition caries. that their Licentiates shall be at liberty to present themselves at the examinations, and that their diploma shall be a qualification for candidates at such examinatlons.
Hoyal Undversity of Against the grant of the charter. Ireland.

Association for I'ro- Request to be heard in the matter. motinga Teaching Unirersity
Londoa.'?
Oxford University. Pray that the charter may not be grantel, at least until provision is made to ensure that candldates for degrees shall have received a sutficlent preliminary education In literature and sclence.

Agents and Others Mesars. Field, Ruscoe and Co., 36, LIncoln's Ian Fields, London, W.C.
H. W. Verdon, Kiqq., M.D., 414, Claphaw Howi, Loudon, S.W.

The Vice-Chancellor, S't. John's Lodge, Cambridge

Mrs. Garrett Ander son, M.D.,30, Henrietta St., Bruns wiek Square, London, W.C.
A. H. Carter, Esq. M.I)., 2, Temple 12 0sw, Birming Lam.

The Principal, The Owens College, Manchester.

The Vice-Chancellor. The Victoria Uaiversity, Manchester.
Messrs. Law, Hussey and Hulbert, 10. New, Square, Lincoln's Inn, London, W.C.
Messrs. Dumford and Co., 38, Parliament Street West minster, Lou don. S.W
The Warden, University of Dur ham.
The Regictrar, London Lniversity Burlington Gar dens, Loudon ${ }^{1}$ The Secretary. University College Loadon, W.C.
F. A. Loch, Esq. 3. Westminster Chambers, V'ictoria sireet, West minster, London, S.W.

The Principal, University of Aberdeen.
The Dean of the Medical Department, Yorkshlre College. Lceds Iessrs. Upton. Atkey, and Upton, 14, Austin Friars, London, E.C.

The Secretarics, the Hoyal Uulversity of Ireland, Dublin.
John Marshall, Esq., 10, Savilet Row London, W.

The Registrar of the University, $0 x-$ ford.

THE PARLIAMENTARY BILLS COMMITTEE OF THE BRITISH MEDICAL ASSOCIATION AND AMENDMENT OF THE PHARMACY ACT.
Trie Council of the lharmacentical Society has made arrangements for the reintroduction of the Pharmacy lets Amendment Bill. It will be remembered that, in laring this Bill before the Parliamentary Bills Committee the Chairman pointed out certain clatises which were objectionable, and to which it was thought
desirable to raise opposition in l'arliament, and to communicate thereon with the Medical Council and with the l'rivy Council. It will appear from the following statement ly the l'resident of the Pharmaceutical Society that amenlments have been made in the Bill as now put forward with the object of meeting these objeetions. In submitting the amended Bill to the Council of the Society he spoke as follows:
The objection to the waiving elause was raised by the Parliamentary Dills Committee of the Pritish Medieal Association, who were under the impression that at some time or another the Council might possibly waive everything to everybody with a view to making money. It appeared that that sort of thing had heen done by certain medical examining bodies, and consequently it was thonght, rather unfairly, that it might le done by a pharmaceutical examining body. To meet that objection the maiving clause had been struck aut. Lastly, there was an objection by the Parliamentary Bills Committee of the British Medical Isscciation, which was pressed so far as to result in a visit by the President of the Medical Council to the Privy Council on the subject. That Committee seemed to think there was a possibility in future that chemists and druggists qualified under the Act might be considered medical men, because one of the subjects of the course of study was materia medica. This objection seemed rather far fetched, inasmuch as this subject had already been examined in under the Acts of 1852 and 1868 . But as there was so much jealousy nowadays; and young medical practitioners, no doubt, like others, felt the struggle for existenee rery keenly, it was thought as well to pay some attention to these scruples. In the House of Commons materia medica meant "medieal materials," and perhaps in that Ilouse there might not be a clear distinction between an understanding of these things and the practice of medicine. He did not think it was a compliment to the House of Commons to suppose such a thing. The Society had no desire to encourage medical practice among chemists and druggists, its desire being to produce educated pharmacists, and as the better this was accomplished the less likely were such men to attempt to practise medicine, the Committee had fallen in with the suggestion of the anthorities of the I'riry Council that certain words should be introduced, to the effect that this Bill should be read as one with the previons Pharmacy Acts. Accordingly, in Clause 4 the Committee had inserted the words: "and this ict shall he construed as one with the Pharmacy Acts, 1852, 1868, and 1869.' That meant that, as there was in the Act of 1852 a clanse which stated that nothing therein contained should entitle the Soeiety to examine in medicine, surgery, or midwifery, that clause would be considered to be incorporated in the present Bill. These were the ehanges which had been introduced into the Bill of last year to meet the objections which had been raised: but as it was possible that still further objections might be raised during the progress of the Bill, he hoped that the Committee would be empowered to deal with them if they arose.

## ROYAL COMMISSION ON HIGHER EDUCATION IN LONDON

We have authority to state that Lord Gramille, as Chancellor of the University of Lonton, supported by Lord Derby, Lord Kimberley, and Lord Merschell, members of the Senate. will at once urge upon the Coremment the desirability of appointing a Royal Commission to inquire into the present state of the ligher education in London, as well as the claims raised hy various bodies to confer degrees in medicine. We may add that. in the meantime, the PrivyCouncil have received no less than fifteen petitions from universities and other public bodies against the application of the Colleges of Surgeons and Physicians of London to grant such degrees and that on or after April 16th these rarious bodies will be admitted to appear by counsel before the Privy Council. The question is one of such great complieation and importance, that we ean confidently assure the Government that the course pursued by Lord Granville is that which will best meet the views of the medical profession.

Rrabrcis is Diphtheria.-Dr. Taja has treated 36 eases of diphtheria with resorcin spray. 34 of these recovered. The mortality in the same epidemic, where this treatment was not fols lowed, amounted to 93.28 per cent:

THE CASE OE PARASITIC FETUS. 1.: the docrasal for February 11 th we mentioned the ease of Laloo, the Indian youth who is now being exhibited in London. Messers. Sutton and Shattock presented a systematic report on the case to the Pathologian Society, at its meeting on Tuesday last. A short account of what is kinown of haloo mavinterest our readers. When the practitioner is called in to a labour, und finds that a monster is born alise, the chance of its living must bo a manter of high importance for him to determine. Laloo and A-Kee hoth lived to be youths, and laloo lives stitl in yery good lieath. with a whote trunk hanging from his epigastrimm. Barthotin's case, Lazaro Colloredo, of Gemon, hora in 1726 , lived to manhood with a parasitic fetus, consisting of a heat, trunk, arms, and one lower extremity; the face of the parasite hat elosed eres and distinct cars and lips. The mouth bore teeth, saliva contimually dribbled from it, and it did not take in any nourishment, yet was snid to breathe distinctly. A small leard grew from the parasite's face at puberty. Colloredo was probably the most extreme case of monstrosity who ever lived beyond infuncy.
Of double monsters, there is one division where the two organisms are each self-supporting (autosites), and of nearly equal size. The union may be very close, the trunk or even the cranium heing more or less finsed: such monsters cannot live; or it may be less intimate, the lower part of the trunks being partially united, as in Millie Christine, the "two-headel nightingale;" or, lastly, the union may consist of a mere band joining two perfectly distinet,

well-formed human beingr, as in the Siamene twins. In the second division of double monsters, one of the twins under goes arrested dovelopment very early in life, nud becomes a "parasite," hanging from its brother the "anlocite."
The parasite nearly always eonaists of trunk and limbs without head, rarety of head and trunk, with arrestel development of the lower extremitien very rarely of an ill-formed head alone. The parasite is generally nitached to the lower part of the sternum of the autosite (thoracopagus parasiticus, Lanloo's easse), but it inay lie posteriorly, joined to the sacral region (pygopagus parasiticus), or very rarely to tha face of the antosite (prosopopagus parasiticus). In pygopacys parisiticus the parasite may he represented by a mer, rulinentary limb, growing from the sacrul region of a well-formed antosite. fiut there is evidence that the " congenital sacral tumnur," even whrn destitute of any trace of the formed structures of a human body. really represents a parasite. The a nomalous sacral appendage in the case which Mr. Owen exhibited at the Pathological Society on Fehruary ith (Jocrival. February 11 th, F . 208), was in all probability a parasitic fectus. Lastly, the pirasits may be entiroly rubcutanoous; thus an ill-
developel minute fetus has heen discovered in a subeutaneous cyst in the epignastrinm of a cliild not quite 3 years old.
Laloo, of Oudh, is thus an example of thoracopagus parasiticus, From notes taken from a previons report mado abroad, and from what we have olserved, we learn that he is now 17 years of age. At birth the heall of the autosite presented, the liands of the parasite encircling his neck. Laloos lather, mother, brothers (two), and sister were not deformed. His mother was about 25 when he was born, and her firstborn saw the light a year before Laloo. This excludes any theory in the present case of early, Oriental marriages as a canse of monstrosity. At the age of 2 Laloo had emall-pox ; the parasite and autosite are alightly marked. Latoo is short, slenderly made, of very dark complexion, with sharp Asiatic features and straight black hair. He, the nuto-
site site, bears no other deformity beyond his parasite. The parasite is
firmly adluerent to the sutosite atlue firmly adherent to the autosite, at the lower part of the right side of the sternum close to the ensiform cartilage. The woodcuts, from a photograph taken two years ago. give a fair idea of its appearance. The parasite is divided by a very deel groove in the integuments into two parts. The first and smaller part includes both upper extremities and the rudimentary shoulder-girdle, the integument hearing mammae. This part appears as though it were attached to the autosite and to the other part of the parasite by tro ball-and-soeket joints. The larger division of the parasite
consists region, of the lower part of the trunk, a well-developed glutreal region, which looks forwarl and to the left, and the lower ex-

trenities. This division appears to be attached to the autosite an inch below and to the right of the smaller part, and is not so freely movable. The skin hears the mark of an old burn from a parafin lamp. The anterior part of the parasite's body lies towards the autosite, and bears a well-formed penis (shown in the woodeut) surrounded hy pulhic hair, but no testicles. There is a nothl between the ghtiti. which bears a distinct though rudimentary amal involution of the integument. A rudimentary iliae crest and a diminutive sacrum can be felt. It must be rememhered that a parasite is destitute of a vertebral column. Tliis curions deficiency is well shown in specimen 199 in the Museum of the Royal Coll-ge of Surgrons, Teratological Series. It is a kitten's skeleton bearing a thoracopagons parasite. The latter ennsists of the bones of the lower extremities, free, and the bones of the upper fused together. A ligamentous band, rumning to a wide oval fissure in the sternum of the autosite, is the sole representative of anything like a central axis.
The upper extremities in Laloo's parasitc can be freely rotated in every possible direction at the shoulders; theantosite can cause them to clasp his oxn neck, as shomn in the woodcut. The right elbow-
joint is ankylosed, the forearm disproportionately short; the hand, which bears four fingers and no thumb, is flexed on the wrist. The left thumb is flexed on the malformed wrist; the fingers are finely formed, but small and webbed. The thighls are well-developed, the knee-joints appear imperfect, the legs are strongly flexed on the thighs, and a shary fold of redundant integument lics over the popliteal regions. There is talipes varus on both sides; the feet are not disproportiomately small. The left toes are perfeet, the right foot bears but three.

The integuments of the parasite are not lighly sensitive. l'rine flows away from the urethra frequently, and the antosite cannot recognise any desire for micturition from the parasite, nor feel any sensation during the passage of urine from the parasite till he feels that fluid damping his body. This we could prove when we superfieially examined Laloo; the day was cold, the parasite was exposed naked for ten minutes whilst the autosite was well wrapped up, and felt no desire to make water. The parasite is evidently acardiac, but there is distinct eridence that it has intestine. In a foetal pig with a thoracopagous parasite (Musemm R.C. S., No. 123) the parasite has a small pieee of intestine connected with that of the autosite by a long narrorr gut. Such an arrangement would be a source of danger to an autosite, espeeially should the parasitic diverticulum be to the lenst degree pervions where it joins the antosite's intestine. One kidney at least must be present. Whether the presence of a urinary apparatus is or is not a source of danger to the physiologieal commonwealth of which the parasite and autosite must neeessarily consist is a question not easily solved.

These eases of "heterologous union," or "heterodidymus," are developed apparently in a manner suecinctly expressed by Mr. Benjamin Lowne: "a second embryo becomes wedged in between the risccral arches or lamine of another before they unite." Henee, the development of the second is arrested. Abmormalities of the riscera of the autosite adjacent to the attachment of the parasite are frequent; thus the liver may bear an unusually large number of lobes, or there may be two gall-bladders.

Of Laloo's adrentures we need say little. He was in this country a ferr years ago, but wes prevented from exhibiting at the Indian Exhibition, owing to some question of the right of his guardians to make a show of him. Tre are informed that at one place where he was displayed to the publie his exhibitor was ordered by the anthorities to desist, ns he constituted an "indecent exhibition." Any attempt to amputate the parasite, or even a part of the parasite, would clearly be dangerous; surgery of this kind is known to be highly unsatisfactory.

A very complete description of parasitic monsters may be found in Dr. A. Förster's Missbildungen des Menschent of Laloo we shall hear more when the next volume of the Transactions of the Pathological Socicty, contaiuing Messrs. Shattock and Sutton's report, is published.

St. Giles (Population, 45,178).-Insanitary Areas: Glanders in a Morsekeeper:-Some years ago, the Shelton Street areu, a part of this district, was reported upon as insanitary, and in each successive report has Mr. Lovett drawn attention to its defectivecondition. In the report for 1886 , we again find it referred to as exercising an injurious effect on the death-rate; but during the past session, and since that report was made, Parliamentary powers have beeu obtained for dealing with this area. In the subdistrict of St. Giles South, which comprises this group of streets, there was an increase in the denth-rate, but in both the other subdistricts a considerable reduction. In Shelton Street itself the rate for the year was as ligh as 53.5 per 1,000 . The $z y$ motic deathrate was slightly in excess of that for all Loudon: deaths from mensles, whooping-cough, and diarrhea being above the average. Mr. Lovett states that in no two diseases are the dangerons symptoms more commonly overlooked than in whooping-congh and uneasles. The latter disease was particularly fatal among the children in the poorer parts of Bloomsbury, especially during the fummer months. Many of the nights being unseasomably cold. the disease became coruplicated with bronchitis and pmeumonia, which quickly produced fatal results. Deaths from typhoid fever Were rery few, and so were those from scarlet fever. TYpluns fever attacked four children, members of one family, residing in Nottincham Court. Ifter removal to hospital, no further case was repmrtel. T'owards the end of the year a milk seller's horsekeeper Was stated to have died from glanders. Apparently there was no illness among the borses, and a veterinary surgeou had certified to their healthy condition.

## ASSOCIATION INTELLIGENCE.

## FLECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INTESTIGATION OF DISEASE.

The Report upon the Connection of Disease with ILabits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1887, and a further portion of the Report upon Old AGE have been completed, and will shortly be published in the Joursal.

Reports upon the two remaining inquiries, namely, that into Diphtheata, and that into the Geographical Distribltion of certain Diseases, are in preparation, and will be published as soon as ready.

The following inquiry only of the first series remains open, namely, that on The Etiology of Phthisis.

A fresh inquiry into the Omgin asd Mode of Propagation op Epidemics of Diputheria has just been issued.

Memoranda upon these subjects, and forms for recording nbservations, may be had on application to the Secretary of the Collectrve Investigation Committee, 400, Strand, W.C.

## BRANCII MEETINGS TO DE HELD.

Solth-Fastery Braxcte East and West Sessex Districts.-A conjoint meering of the abnve districts will be held at the Grand Hotel. Brighton, on Thursday, March 22od. F. W.Salzmann, M.R.C.S.. will preside. Jieeting at 3.30 P.M. : dinmer at 5.30 p.nf. ; charge $6 s$. . exclnsive of wine. The following papers will be read : Dr. Starling: A case of Fibroid Induration of the Stomach (with specimens). Gentlemen desirous of making any communication to the meetiog should write to the undersigned or to Dr. Gostling. West Worthing.-T. JEaNER Verrale, Honomary Secretary, 97, Montpellier lioad, Brightou.

South-Eastern Branch : Fist Kent District.-The next meeting of the above District will be held at AshFord, on Thursday, March 15th, Dr. Wilks in the chair. Anyone wishing to send communications shonld inform the Hono rary Secretary at unce.-W. J. Trsos, 10, Langhorne Gavtens, Folkestone.

Batir and Bristol Braveri- The fourth ordinary meeting of the session will be held at the Mnseum and Liumary, Bristol, on Wednesdav eveuing. February $29 t h$, at halE-past seren roclock: G. F. Burder. M-D., President. The following cases will be exhibited at 7.30 p.M. precisely:- F . St. John Kemni, M.D.: Graves's Disease Treated with Strophanthus. C. d. Wigan, M.D.: P.D.ado-Mrpertrophic laralysis. J. Michell Clarke. M.B.: I. Infantile Hemi-Psendo-Hypertrophic Paraltsis. J. Michell Clarke. M. B.: I. Inamitie Hemi-
plegia (without Atrophy)-three cases. 2. Infantile Paraplegia (with Atroplyy). 3. Infantile Paralysis of Musclea passing from Spine to Scapula. U. Markham Skerritt, M.D. 1. Advnnced Butbar Paralysis. Complete Special and Genemil Hemianasthesia. The following communications are also expected - - H. Ormerod: Spina Lifida, with Specimens. C. P. Coombs, M.D.: On Splenic Leukromia. N. C. Hobson: A Case ol Hydatid Cyst of the Omentum. C. P. Pickering: The Treatment of Discharge Trom the Ear. W. J. leuny. A Case of Acute Intestinal Uustrucfion, with Early Cperationand Successful Result.E. Markham Skerritt, II. J. H. Scott, Honorary Secretaries, Clifton.

East Surrat Distalct: Solttr-Fisterv Braxch.-The spring mecting of this Ilistrict will be held at the Quren's Hotel. Epper Norwood, on Thurshay. March eth. at 4 P.M. W. F. R. Burgess, M.D., of Streatham, in the elair. Dimner at 6 P.M.: charge, Ts., exclusive of wine. The following papers lave been promised : Mr. Noble Smith: On Ilip-joint Disease, with diagrams. Dr. been promised : Mr. Noble Smith: Mn lip-joint Disease with dagrams. Dr. P. T. Duncan: On Simple Catarrhal Fever. Jninters desirous of exhibing or Secretary, P. T. Dixcis, M.D., Croyten.

## BRITISH GLTANA BRANCH.

The annual meeting of this Brancherwas held at the Publicullospital, Georgetown, Janunry 6th, 1888. There were present Dr. Grifve, the Surgeon-General, in the chair; Drs. Anderson, Hillis, Wallhridge, Jomiball, Veendam, Massiah. Delamere, Ramie, Reid, llill, Hulton, Law, Fulton, Texeira, E. G. Leary, Uzanne, and the Secretary.
Letters of apology and telegrams "were read from "those who were unable to attend.
Chairman: Aldrese-After the minutes'of last meeting had been read apd coufrmed, tho Charnas delivered a short address,
in which reference was made to tho very succeseful year the Iranch had just closed. A general view of the pmorés if medicime was taken, special mention being made of the transmission of disease from lower animals to man. The political status of the prefesion in the colony was toucled upon.
Fote of Thank:- - 1 voto of thanks was given to the Surgeon(ieueral for his address.

Ifr. Massiat's . Imotion.-Dr. Massian brought forward the motion standing in bis name; this was secouded by Dr. E. G. 1.FART. Dr. LAW moved an amendment to the effect that tho Committet should strictly contune itself to the pathological condition of the bone, and after some discussion this was carried by a majority of seven.

Notice of Motion.-1)r. Hesinat, hamled in notice of inotion us to the Surgeon-General buing ax officio lresident, and as to rating hy proxies'.

Sperimens.-Notice was rad by the Secretary of specimens sent ly Dr. A. Dickson of Orarian l'regunncy, Guinea Worm, etc.

## SPECIAL CORRESPONDENCE,

## PARIS.

## [FROM OUR OWN CORRESPONDENT.]

Cbeaine Poisoning. - Tariations of Microbes under CultivationTransmission of Tubercle by the Air Passages.-Farcy in Man. Dr. J. Driserine reconts an interesting case of poisoning ly subcutaneous injections of cocaine. The patient was a young dentist, aged 26. M. Dejerine found him in a semi-comatose state, with generalised muscular contraction of the arms and legs. The arms were slightly bent, the legs were stretched out; the knee-jerk was not discernible owing to contraction. The pulse was quick but regular $(1: 0)$, the hreathing hnrried; the cyes were closed, the pupils dilated and insensible to light. There was complete unconsciousness. The following lesions Trere detected on the skin: There was a pustular crusty eruption, consisting of pustules the size of a pea, covered with a blackish-grey dry scab, on the anterior external surlace of the two arms and on the anterior part of the legs and thighs. This ernption resembled the scabs of syphilitic rupin. On returning to consciousness the patient rose and walked about, with his eyes closed on account of the painful sensation cansed by light on the eyeballs. Lle gave the following particulars as to the canse of the attack: Six weeks previonsly he began to give himself subcutaneous injections of cocaine. Ile began with doses of 1 centigramme, and gradually increased the quantity until lo used 50 centigrammes. The injections produced agreeable sensations and sexual desire followed by emission. The evening on which the attack above described look place he had injected 1 gramme of cocaine at $10 n^{\circ}$ clock. We emplayed three syringes and a warm solution. At the third injection he fell down unconscious. The next day Mr. Dejerine again examined the eraption, which seemed to be due to localised gangrene of the cutis, resulting from the injections with cocaine, which the patient introducer? into and not nader the skin. At the spot where the injections were made there were white patches insensible to the touch. The patient stated that when M. Déjerine pinched hin in different places during the state of coma he was aware of the fact, but felt no pain whatever. He was, therefore, sensible to the contuci of an external object. but insensible to pain. The patient recovered. 3. Déjerine considers that if the patient had not gradually aecustomerd himself 10 progressire duses of cecaine the dose of I gramme would have proved fatal.
MM. Léon Guignard and Charrin, at a reeent meeting of the Acarlemie des Sciences, deseribed the resnlts of their experiments on the morphological variations of microbes, and more particularly of the pyocyanine microbe. This microbe, in broth cultivations, appears as an active bacillus, about twice as long as it is broal. The cultivation. pluced in a stown at a trmperature of $35^{\circ}$ C. $\left(05^{\circ} \mathrm{F}.\right)$, becomes coverel with a flm, benenth which a greenish-blue colouring matter is observed, which gralually turns yellow. The barilli collect their contents into one or two corjuscles: tho membrane swells round thesr corpuscles, which constitute encystel cells or arthrospores. The mirrobe may be made to assume varinus forms by adding different mineral or organic acids to the broth. If a small quantity of carbolic acid orgamic acins to the broth. If a small quantity. of carbolic acid
at 0.25 per 1,000 , thymol at $(1.50$ jeer $1,0(t)$, or atcohol at 40 per 1,000, bacilli of different lingths are obtained. These are sither separate or joinel together hy pseudo-filuments or Alaments tnngled together, forming a network on the surface of the cultivation. These different forms are transitory, and the normal bacilhus shertly reapmars. If bichlome of potasatum ot 0.10 per 1,000 be addet! to the liroth, the cultivation presents a collection of tangled flaments during five or six days; at the end of this time they are replacerl by the norma! bacillus. If 3 per 1,000 of horic acid be addeal, the development of the bacillus is retarded. Iut it contimes to produce pyocranine. With 5 per 1,000 of boric acid short filaments are obtained; with 6 or 7 per 1,000 of the same substance straight or eurved bacilli, crescent or ring-shaped, are obtained. If these bacilli do not divide they assume spiral forms. The microbe then censes to produce pyocyanine, nnd gradually reassumes its normal form. Bacilli cultivater in broth, to whicli 0.75 of creasate, of 2 grammes of salicylic acid has been adtled, form a collection of durable, spherical cells, which resenille micrococci. These cells constitute a means of reproduction, for when replaced in the cultivations of pure brath they reappear as normal bacilli, and produce pyocyanine. These experiments show how far experimental polymorphism may be carried, and the variety of forms which the pyocyanine microbe may be made to assume. These forms, however, are but transitory, and the normal bacillus which produces the pyocyanine iuvariably reappears.

At the same meeting MiM. Cadéac and Matot gave an interesting description of their experimental reaearches on the transmission of tuberculosis by, the respiratory passages. Three series of experiments were made. 1. Porty-six animals (rabbits and guineapigs) were made to inhale a portion of tuberculous detritus; of this number two only lecame tuberculous: the respiratory passages of these animals were irritated ly inhalations of bromine. 2. The atmosphere in boxes containing rabbits was saturated with tuberculons fluid. All the animals contracted tuberculosis. 3. Tuberculous substances were introduced into the trachea of some rabbits ly means of injections; the animals shortly became tuberculous. MM. Cadéac and Malet conclude from their experiments that when the tuberculous bacillus enters the rcspiratory passages by means of an inert fluic, these passages constitute a favourable agent for the derelopment of tuberculosis. The bacilli are almost unable to introduce themselves into the respiratory passages when they are incorporated in a fine dust.
M. Bucquoy had a case of chronic farcy under his care. The patient was a man. aged 46, who had suffered from abscesses in the muscles and areolar tissues in different parts of the body for several months. The first of these abscesses proceeded from a wound in the hand, accompanied by lymphangitis of the arm, with suppurating glauds in the axilla. Iresh ahscesses appeared, the general condition beceme worse, and the patient died: At the necropsy a number of farcinous abscesses were found, two of them were intracranial, one in the meninges and another in the brain: the mucous membrane at the hase of the tongue and glossoepiglottic folds was ulcerated; this last symptom is regarded by veterinary surgeons as characteristic of glanders. The patient had driren a horse belonging to a stable in which several cases of glanders had occurred. While the patient was alive Dr. Bucquoy made inoculations and cultivations with the virus. He found that asses resisted the action of this virus. M. Bucquoy regards this as one of glauders. The farcinnus character of the affection and its marked appearance were probalby due to the quality of the virus, its mode of transmission, or the medium in which it developed.

## VIENNA.

[FROM OUH OWN CORRESPONDENT.]
lilorarpine in Bright's Discase. - Thoracocentesis in Entpyema.The Chair of Anrtomy in the University of Vienna.
Drs. D. Benezír and S. Csatary, assistants to Professor Wagner in the medical faculty of luda-l'asth, give in a recent number of the ILungarian medical periodical, Orvosi ILetilap, the following aummary of a series of articles gn the effect of pilocarpine chloride in Bright's disease, published in that journal: 1. The patients become areustomed to the pilocarpine, and even large doses, such as ficentigrammes, do not at a later period pmiluce such disagrecable after-effects as doses of I ceutigramme at the beginning of the treatment. The injertions of pilocarpine should not he discontinued in consecuence of stmutoms whirh had bopn con
sidcred as being dangerous. . 2. The effect of pilocarpine on the daily secretion of "saliva, sweat, and urine, as well' as on the daily oscillations of the amount of hemoglobin in the blood, is in most cases regulated by the stage of the disease and hy the quantity of liquid which had been taken. 3. The oedema disuppeared the more rapidly the larger the ilose of pilocarpine given, and the less the quantity of liquid which the patient has taken. 4. Pilocarpine considerably increases the density of the blood for from four to five hours. 5. The hydreemia in Bright's disenge does not depend on the ameunt of the cedema. 6. The quantity of hemoglobin in the blood diminishes, that is to say, the hydræmia increases when the general condition of the patient hecomes impaired during the course of the disease. 7 . When used according to the above-mentioned principles, pilocarpine will be found in most cases of Bright's disease, eren when hot baths and other diaphoreties prove useless, always to diminish dropsy to such an exteat that the patient is mere or less protected against dangerous uriemic suffocative attacks. In this way it may be possible to obtain a relative cure ; that is, in secondary granular contracted kidnejy.
Professor Wülfler, of Graz, recently communicated to the Society of Phyicicians of Styria a case of empyema cured by simple puncture. The empyema had developed spontancously, and was probably due to tuberculosis. Puncture was performed with a trocar between the sixtli and seventh ribs, on the left side, and the pus was eracuated by siphon drainage. The lower end of the india-rubber tulie communicated with a bottle filled with antiseptic fluid, and was left in till' no more pus escaped. 'Ifealing took place very rapidly, and this method was apparently preferable to extensive resections ol ribs. Profeseor Wölfer had lately successfully treafed three patients ly this simple method. Triey were instructed to carry the bottle, togetber with the drainage-apparatus, until no more pus escaped.
The professional,body of the Vienna Medical Faculty appointed, at a recent meeting, a committee to choese frem among the candidates one to be reconmended for the chair of Normal. Anatemy vacant by the death of. Professer r. Langer. The committee consists of the deam of the Medical Faculty (Professor Kundrat) and Professers Billroth, Abert, Meynert', and'Joldt.

## AHI. जi SAN. REMO. <br> [FTOX Qut OWN COMRESPONDENT.]

THE condition and urogress of the Crown Erince has been the one absorbing topic here for the past teri daye. The dyspricea to which 1 alluded in my last letter increased so much on Wednestay night, that on Thursilay morning sir Morell. Mackenzie reqnested Dr. Bramann to perform traclieotomy. Dr. Braman asked that a few hours shoull he given in, erder to see whether the breathing might not become less cmbarrasséd, and Professor ven Bergmann, according to arrangement, was telegraphed for. During the day, however, the stridor increased, and at 3.30 the operation was skilfully performed without any complication occurring. 1 undersitfod that Sir Horell Mackepzie was opposed to the administration of chloroform; but finding that Dr. Bramann invariably used this, anæsthetic he advised the crown Prince to submit to it, ko that the statement telegraphed by the Berlin correspontent of the Times that "the Crown Prince consented to take chloroform-In spite of the-opposition of Sir Moredl Mackenzie", is quite Nitliout foundation.

The after-treatment has been entirely in the hands of the rerman surgeons l'tofessor ron Bergmann and Dr. Bramann. It is suid there has been great -liffienlty with the canmulas, several, different tubes haring been tried, lut, all of them cansing irritation of the mucous membrane of the trachea and, "ID to the present "time" the mincots" discharge contintes to be tinged with blood, but the physieians in charge are very reticent on this point l There is a good deal. of coughing at night, che to tracheal irritation and naredics are administered, but they, are not altogether effertial; so that the Crown Prince has all the disadrantages of this class of remedies mithont the usmal benefit, In thit way it is feared his general health may suffer, and the recdery from the operation may be long and totions. On chosing the cannth the wreathing is found to be mich thore free than before the operattor" The voice also is considerably stronger. The patient Is nerer left without a medichl man', Sir M: Mackenzie and Professor von Wergman taking their


The Crown Prince rises at 11 o'clock and remains up until 0 , and is frequently to be seen at the window of the villa bowing to the peeple. His appetite has quite returned, and he hias shown throughout this trying time, with the Crown Princess, the greatest bravery and fortitude.

At the frequent consultations that have been held the essential nature of the malady from which the Crown Prince is suffering bas never been made the subject of discussion, so that the supposed differences between the English and Gerinan medical men on this point have no foundation whatever.
Sir Morell Mackenzie is remaining, at the urgent request of both the Crown Prince and Princess: but his position at the present mement is more that of a spectator than an actire participator, and it is stated that he is net at all satisfied.

The Grand Duke and Duchess of Baden (sister of the Crown Prince) are staying here.

The I'rince of Wales arrived on February 20th at the Fictoria Hotel, and San Remo is very full, never certainly having had so many Royal and distinguished visitors at one time before. The picture painted by the Crown Princess and sold at the recent art exhilition for the benefit of the Home for inralid ladies, realised £6.5, and Was finally perchased by Dr. Schidrowitz, the Lendon correspondent of the Berlin Tageblatt. The institution benefited to the extent of over $£ 100$ by the exhibition. After over a month of fine weather we hare had a short spell of sharp cold, but it is now warmer, and, heary rain having fallen, the early Italian spring is to be anticipated.

## SWITZERLAND.

## [From ouk own corrbspondext.]

## Raihway Medical Sertice.-Students' Duels.

As the Intelligenzblatt fibr Stadt Bern (February 3rd) says, all the stations' on the Amalgamated Swiss Railways (Vereinigte Schueizerische Bahne) have recently been supplied with the socalled Samititsslisten (manufactured at the well known International Dressing Materials Factory.at. Schaffhausen), that is, with cases containing all necessary articles: (bandages, splints, drugs, etc.) for firstaid in cases of accident. Each case also contains printed directions how the appliances are to be used. Practical instruction has also been given to the offcials-at each station.
The absurd and-barbarous custom of duelling, which still survires with astonishing pertinacity amongst German students from onegeneration to another, has receitly given rise to twasad aecidents in Berne. One of the combatants had the whole of his nose slashed off, rhile another, who was on the point of taking his M.D. degree, had his right arm so entirely disabled by a foil that his medical career has come to a premature end. These accidents, however, did not prevent another suries of duels, Thich took place on February 4th (that is a conple of days after the above mentioned accidents), in Berne, between several members of the Cbrporation Helvetia, and as many students from the Eniversity of \%arich, who had come to Berne expressly for the purpose We leara from the Berner Stadiblatt' of debruary 7th, 1888 , that this time no nosps were lost and no limbs were maimed, though a good-many tlesh woiuds were inflicted. The police!'acting on "information thés had received, 1 succeeded! in surprising one set of combatants in the morning, and in confiscating the weapoins and other fighting gear. This did not, however, cool the ardour of these noble "sportsmen," who managed to liring off some exciting "evehts at another place the same afternoon.

## CORRESPONDENCE.

. THE ELEETRICAL TREATMENT OF CTERINE TUMOURS.
Sh,-In the last number of the Birmingham-Medical Revietc. for Hehruary, 1888 , there is a report of a meethig of the Midiand Medical Society, at whieh Mr. J. W. Taylor read an important paper on the tae:df Electricitr' in Gynecology'. A 'hischission followed, in which, as a matter of course, Mr: Latron Tait made himself couspictous: 'i Taking it for granted that his prejudiees Were realities, and jealous that any one should mak an adrance in gynecology heyond hid ön standpont withdut' his "sanction or askistance, he Mutiched out into a' reiteration of assertions about my treatnent of uterine tumonts, in which eatuming end
error are so intermingled that I feel obliged to coutradict and expose him.

1. Mr. Tait declares that my method "is full of dangers, and we shali hear in future of some of the disasters whieh are occurring from this treatment of to-das. Six deaths were known to have occurred in a single month in patients who were under Apostoli's care."
There is here as much misrepresentation as it is possible to put into so many words. In the mouth of August last, I gave, at Dublin, a full and complete account of the statistics of my practice. Not one case was omitted. I may safely aflirm that since then, the innoxiousness of my treatment, as 1 have carried it on myself, has been uninterrupted. Not a single "disaster," so far as 1 am a ware, has happened. I call upou Mr. Tait to bring forward proof of what he says.

I wish that the fullest light should be thrown upon the unwarrantable insinuation, which I defy him to sulstantiate. And, that he may have no excuse on the ground of imperfect information, 1 offer to present to any honourable and competent delegate he may choose to send over all my patients withont exception, and to facilitate in every possible way any researehes he may wish to have made, so that he may obtain an independent report upon the results of my practice from the year 1882 to the present time:

Science is never advanced by equirocal statements. Incontestable facts are what is wanted, and on this score 1 am conscious that I stand upon unassailable ground.
But how is it that Mr. Tait lets limself fall into montily selfcontradictions? On the loth of December last the honoured Thomas Keith announced in the Jourval that, following my example step by step, he had made no fewer than 1,200 applications of the electrical treatment of uterine tumours on 100 patients in less than fire months, with success. He finished his remarks by saying: "So strongly do 1 now feel on this subject that $I$ should consider run the risk of her lifo-and such a risk-before having given a fair trial to this treatment."

Mr. Tait's comment (Jovrsal, December 1:th, 1887) upon Keith's words is this: "That the great point of Dr. Keith's important paper is the evidence he gives for at least the primary success of Dr. Apostoli's treatment. With such a witness, the conclusion is inevitable that the treatment must be tried, no matter what difficulties may be encountered in the task."
On December 17th, then, he (Tait) must have been in total ignorance of my reputed "disasters" (the six cases of death in one month), which he brought up in array on January 29th, 1888, as an utter condemnation of my system-the same system which a month before he had pronounced it to be an inevitable duty to put on trial.
His attack upon me personally thus refuted, Mr. Tait would probably fall back upon a denouncement of the treatment as practised by others. But who will believe his prognostications of danger, when it is known that my method has been adopted and applied aome thousanda of times by the most enlightened British gynæecologists, who are not unknown to Mr. Tait and among the McGennis (of New York), A. H. Juckmaster (of Brooklyn), W. Baker and John Ilomans (of Boston), Franklin Martin (of Chicago). J. II. Kellogg (of Montreal), and many others whom 1 might mention.
Assuredly everything badly done in medicine is dangerous, and women have died after uterine or even vaginal examination. But is this equivalent to saying that such practiees are lethal in themsel ves? My cauterising operations are much the eame thing as massage or scraping of the uterine mucous membrane, everyday performances not in the least jeopardising life. Will any one presume to characterise them as ipso facto dangerous operations?
Yes: such they may be, aupposing them to be done by dirty and unskilful hands.

Would anyons in his senses think of holding me responsible for all the atupidities done in my name? I have written and laid down rules for the practice of my method; they ought to be observed, If, from ignorance or wilfulnees, they he neglected, neither I nor the electricity ought to be blamed. On thia question I think my long experience of so many thousand cases gives me a right to apeak with some authority.
However, if Mr. Tait still remains unconvinced, I will give him another means of calming his unnecessary fears. He shall have another means of caming his unnecessary fears. Je shail have
particularly in Fingland, to whom my clectrician, M. Gaiffe, has supplied batteries and instruments. It may be concluded that by this time they lave put them to use. Let Mr. Tait inform himself of the consequences of what they havo done. There may have hecn some malpractice, but 1 am persuaded that, upou a review of the whole of the skilled work, Mr. Tait will be forced in honour to admit that he has exaggerated the perils of my pro-
cedure. J expect ent as to whether more than this, and I certamy am indifferrepentaut conviction of the excellence and all-sufliciency of my methorl.
Perfection does not exist in medicine, and 1 , at least, haro no such exalted notions. 1 am modest enough to be satisfied, and shall feel myself fully compensated if I see eleetrotherapy take an honourable place in gynecology side by side with the knife.
2. Mr. Tait adds a reproach which 1 need only mention to show its absurdity. Ile ironically says that, till the present time, 1 and my system were unknown to my compatriots. It is true I have never sought an illegitimate notoriety, but have contented myself with seientific approbation. If Mr. Tait's "leading Parisian Eynecological entertainers" refrained from mentioning my name in his presence, knowing the susceptibility of their guest, it is only a proof of their tact and good sense, and shows that neither 1 nor they were offensively fussy. But, after all, what does my obscurity matter? What was known of Mr. Tait fifteen or twenty years ago? It would have been inexcusable if I had prematurely asked for adhesion to my views.
3. "Skilled electricians assured him (Mr. Tait) that the galvanometers used by Apostoli are absolutely worthless as indicators of
dosare." dosage." This is really frivolous, and Mr. Tait again shows how easily he can be led into error. The galvanometers made by Caine, medically speaking, give an exact dosage, with an outside
deriation deriation of from one to five milliampères, which actually is of send the pral importance. If my word be not sumcient, I will own "skilled electricians."
4. Mr. Tait repeats the old tale of Dr. Althaus having practised my method before my time. Really there are some blunders which are irrepressible. 1 thought that my letter (Joursat, November 26 th, 1887) to Dr. Althaus, whose merits in electro-therapeutics all acknowledge, was conclusive. Not so, it appears, to Mr. Tait, though it is for me, seeing that Dr. Althans (the imputed though ailent father of the electrical method of treating uterino fibroids) has publiely (Journal, Deeember 3rd, 1887) waived his claims to the said priority, and admitted my priority in this particular application of electricity in gynecology.
In all the correspondence on this subject, the contrndictions of Mr. Tait and. Dr. Althaus stand out most prominently:-(a) 11e (Mr. Tait) maintains that he and Dr. Althaus employed a current stronger than any I name. Dr. Althaus denies this (Jovrsal, 29 th October and 3rd December, 1887), pointing out that his (b) Mr. Tait pretends that the practice of Dr. Althaus was better than mine. Athaus again deposes against his own colleague, and admits that his method was imperfect and fell short of mine. "IIe candidly closes lis observations ly an assurance that "if
should by the use of details, prove my case to the satisfaction of the profession, no one would be more delighted than myself." Dr Apostoli is now before your readestion bet ween Mr . Tait and your readers. Let them.
Paris, February 20th.
G. Aposroit, M.D.

VENTRAL NEPHRECTOMY FOR IIYDRONEPIROSIS.
Sin, - In answer to my criticism on the abore ramed cose, wherein I suggested that the patient ahould first be allowed the chance of recovery by simple aspiration, and illustrated it by the usual practico in liydrocele, Mr. 1lunter replies that "t there is no analogy between lydroeele and hydronephrosis, either in their sinee both affections have been known to be permanently cured by aimple tapping, and I carried the analogy no farther.
As regards pathology I did not suggest analogy, but whero the resemblance breaks down the advissbility of tapping a hydronephrosis becomes the more apparent, for in this affection we are tapping gives a chance for the temporary obstruction to be removed. That such an operation is harmless, and that it has
proved effectual, shonld be a strong argument for its adoption as a step preliminary to nephrectomy.

I am not one to decry operations, however complicated or severe, provided the ends to be obtained justify the means employed. But it is scarcely reasonable to pass through the peritoneum to reach an organ that lies altogether behind that membrane if the organ can be removed through the loin. That the latter is the safer operation recent experienco abundantly proves. Mr. Hunter thinks his case could not have been removed throngh the loin, but the report of the case does not convey to me that impres-sion.-I am, etc.,

18, Finsbury Square, E.C., February 20th.

## "THE O.ITII OF IIPPOCRATES."

Sir,-In a book entitled Uriconium, by Thomas Wright, F.S.A., I have found a translation of a remarkable oath preserved in Greek, and attributed to Hippocrates, which in early times all students were obliged to take before they were allowed to practise. Do you not think it would be a good thing if we were obliged to subscribe to some modified form of this onth? Would it not perhaps prevent that colnmn of complaints about medical etiquette which appears weekly? If you think it is of enough interest, I shall be glad if you would print it. - I am, etc.,

Frank Broadbevt, M.D.

## South Collingham, near Newark, February 10th.

"I swear by Apollo the Physician, by Esculapius, by Hygeia, and Panaceia, and all the gods and goddesses, calling them to witness that I will fulfil religiously, according to the best of my power and judgment, the solemn promise and the written bond which I now do make. I will honour, in the same degree as my parents, the master who las taught me this art, and endeavour to administer to all his necessities. I will consider his children as my own brothers, and will teach them my profession, should they express a wish to follow it, without remuneration or written bond. I will admit to my lessons, to my discourses, and to all my other methods of teaching, my own sons, and those of my tutor, and those who have been inscribed as pupils and have taken the medical oath, but no one else. 1 will prescribe such a course of regimen as may be best suited to the condition of my patients, according to the best of my power and judgment, seeking to preserve them from anything that might prove injurious. No inducement slaall ever lead me to administer poison, nor will 1 ever be the author of such advice; neither will I contribute to an abortion. I will retain religionsly the purity and integrity both of my conduct and of my art. 1 will not cut anyone for the stone, but will leave the operation to those who cultivate it. Into whatever dwellings I go, I will enter them with the sole view of succouring the sick, abstaining from all injurious views and corruption, especially from any immodest action towards women or men, freemen or slaves. If, during my attendance, or even unprofessionally in common life, I happen to see or hear of any circumstances which should not be revealed, I will consider them as a profound secret, and observe on the subject a religious silence. May l, if 1 religiously observe this oath, and do not break it, enjoy good success in life, and in the practice of my art, and obtain general esteem for ever; should I transgress and become a perjurer, may the reverse be my lot."
** Although this so-called Oath of Hippocrates is in many respects a most excellent one, we do not, recomnend its compulsory adoption by the General Medical Council. The day of Test Acts is past, partly becanse the feeling of the age is against such compulsion, principally because they have been found utterly inadequate to accomplish their aim. The man, for instance, who wonld perform any of the dishonourable actions mentioned in "the oath," would not hesitate to take it without the least intention of keeping its promises. The only persons who wonld olject to it are those men of tender and morbid consciences, who would be quite incapable of wrong-doing, but who would scruplo to take

We regret as much as our correspondent the unsatisfactory relations too often existing between members of the same profession, Who should be as brothers. But we see the remedy for this condition of things, not in oaths and asservations, but fin the cultivation and inculcation of a noble spirit of mutual trust and toleration, which we trust will be impressed upon the students of the coming generation by their teachers, both in word and example.
In proportion as homoeopathy and other quackeries are relegated to olscurity ; as every member of our profession devotes himself
to the cure of disease, rather than to pleasing his patients; as we loecome men of science and gentlemen, an end to squabbles and disputes will be found. Meanwhile, how far courts of honour, subscribed to by members of our profession, before which cases of difficulty and wrong conld be brought, would be of use is a matter for controversy. We recommend rather the old-world precepts for the conduct of members of our profession: To love one's neighbour as oneself, and to do to all men as we would like them to do to us.

## TIIE APPOINTMENT TO HAYFARD'S HEATII ASYLUM.

 Sir,-Both your correspondents have failed to grasp the true significance of the recent appointment of medical superintendent to Hayward's Heath Asylum, and I think that your note appended to H.'s letter is quite aside from the question at issue. I appeal on behalf of the asssistant medical officers of English asylums against the insult inflicted upon them by the gross injustice of this appointment. Although the terms of the advertisement excluded a large number of otherwise good candidates, still there were several who possessed the necessary qualifications, and these gentlemen, from want of personal influence with Chancery Lunacy Commissioners, hare been superseded by a candidate whose only recommendation, if we except his age, was the energetic support of certain Commissioners, no part of whose duties consists in active interference in such appointments. There is little encouragement in the results of this appointment to men who are devoting the best part of their lives to obtaining a practical knowledge of insanity and the management of asylums if such appointments, for which they are most eligible, are to be given to men with no such experience. It is gratifying to note that the Medico-Psychological Association intend taking the matter up and hare called a special meeting to discuss the question in all its aspects. 1 am , etc.,Sir, -With reference to your editorial note underneath a letter referring to the above matter in the Journal of February 18th, 1 should, with jour permission, as a matter of simple justice to the present generation of assistant medical officers, like to point out that at least six of their number (all of whom were candidates) actually more than satisfied the exceptionally restrictive requirements of the Sussex committee as to medical degrees and qualifications. A list to verify this statement accompanies this letter. A public announcement that these men included those who have had many years' experience at such asylums as Bethlem, Colney Hatch, Rainhill, Northampton, and Deron is sufficient answer to any statement as to the age of the present regulations, and it is surely all that is required in the way of criticism as to the extraordinary nature of the recent appointment.-I am, etc.,

A Member of the Dritish Medical Association.

## February I8th.

RULING OF THE JUDGES IN CASES OF IN゙SANITY:
Sir,-Having been subpenaed as a witness during the past week in two murder cases in which the plea of insauity was raised, it might be interesting to state the different vier entertained by the two judges who tried the cases.
I attended at Maidstone on Thursday, in the Ramsgate shooting case. Mr. Justice Mathew presided. The medical men who tendered their evidence were asked whet her at the present time the accused was of sound or unsound mind? On their answering that he was of unsound mind and unable to plead, the jury so found.
On arriving at Leeds the same evening, 1 fonnd that Ir. Justice Day had refused to allow the experts to state whether they considered the prisoner of unsound mind; he said they could only state facts, and that he would not allow any medical expert to usurp the functions of a jury. The jury were, Mr. Justice Day remarked, the proper persons to decide this questiou. Such contradictory ruling makes it awkward for those professional gentlemen whoare summoned as experts, and there should be a meeting of the judges, as in Macnaughten's case, to decide what questions a medical expert might answer in a conrt of law.-I am, etc.,
L. Fonbes Winslow, D.C.L.Oxon.

70, Wimpole Street, Carendish Square, W.
Scceessfel Vaccination.-Mr. T. Garrett Iforder, L.R.C.P.Ed., has received the Government grant for efficient vaccination in the Cardiff "District of the Cardiff Tnion. - Mr. W. Duncan, public raccinator for the Nunney District of the Frome Union, has received the Government grant for efficient vaccination.

## MEDICO-PARLIAMENTARY.

HOT'SE: OF I,ORDS.-Thursday, Febmary 16th.
The Pharmacy Acts.-The Earl of Militown presenten a Bill for the amendment of the lharmacy Acts, which whe read at first time.

Priday, I'ehruary 1irth.
The Safety of Thentres.-The Eurl of Strafforn, in asking the Government whether there was any objection to proluce the report made hy Cuptain shaw in 1 we ulnn the condition of the London theatres, and the ir prolable sately from tire, referred to the fact that there were 50 thentres in Loodon, with a holding capacity of $\overline{0},(400$ persons, and upwards of 475 music halls, 31 concert halls mul so-called palaces, with a holding eapacity of $4+5,000$. Within the last few yenrs there have been some terrible calamities from the burning of theatres; the Ring Theatre at Vienna, the Opéra Comique at laris, the principal theatre at Exeter, the Grand Theatre at Islington, the theutre at Bolton, had all suffered in this respect: aml it wns clear that better precmutions ought to beadopted for the semity of the andiences.-Lord Magierahonse, as Chairman of the Metropolitan Board, stated that every thentre in London lad been thoroughly and efficiently inspected. In his opinion the publication of the report wand produce unnecessary alarm, beeause it had heen considered and acted upon. and many of the defects which it pointed out had been remedied. Some thentres had been shut up hecuuse ther were not in a proper condition as to safety, and every new theatre had been thoroughly inspected. Many music halls hand heen dealt with, and others were still mador the consideration of the lioarl.

## Monday. February 20th.

Sanitary State of Dublin Barrachs,-Warl Bearcianp moved that the return of all cases of felrile disense in the Dublin garrison since Januart, 1881. ordered to be printel Sentember 9th, 1887, he continued to December 31st. 1887 . Taking the return for Rext, be found, in regard to enteric fever, that Dublin showed the greatest number of enses and the highest ratio of admissions to hospital per 1 ,fof men.-Lord Ilersciell said he had reason to believe that matters were not in the-slightest degree better during the last part of 1887 than they were during the earlier part of the vear. The fact that the remedy would he costly was no justification or excuse for stming men to a place where they must contract a serious amd dangernus disease.-Lord Harris said tha (thevernment dial not shat their eyes to the serious condition of thr barracks in Dublin. The report whieh had been received from f)r. Grimshaw and Sir C. Cameron showed conclusively in what an insanitary eondition the harracks, and especially the Royal Barracks. were, The Duke of C.anmidese thought it was possible to exaggerate the condition of these harracks. He land lived in them himself for years. Pinterie fever was exceptionally prevalent jhat now, aum bublin harracks were having a slare of it. He agreed, however, as to the importance of incuiry to see what was the reason why the harracks were less healthy now than thoy were formerly, and of measures heing takin to remedy tho evil nis for as possilhe. In future the diffientry would be met to somo extent by the new barraeks now in the course of erection.-Earl Bearchimp "xpressed his readiness to sulastitute in his motion the metical report for the return. - Lord llamers assured their lord-hips that the present Government, having the information of the experts, dian not intend to delay dealing with a matter of so muely importanee. - The wotion for the production of the medical ryport wha agreed in.

HoUse of Commons:-Thurday. Fobuary 16th.
Rahion in Jogn-Mr. Rercirte, rellying in liscount Ccrzos, said that the sulbject of rabies in dnge was recriving the attention
 in commumeation with souse lucal authorities with referenes to the restrietions which might len necessary in comeetion wilh it. If st shonld the encideret that further powiss were required, they would ber askell for. The average annual number of denthe in Fingland and Wales during the tom years referrell to was to, and the averate number in London frim $1 \times 7$ R to $18-7$ was 7 . The total numfer of denths in England and Wintes from hydrophulia in $1,2.5$ was (k), of whicl2 25 wrere in Lomdon; in $1 \times 86$ it was 26 , of which 9 were in London. The number of deaths in London in 1897 was 2 . It was unable to supply the tutul number in England and Wates for 1887.

Organisation of the Medical Department of the Army.-Mr. E. Seasirope, in answer to a question put by Sir $W$. Barttelot, said the whole question of the organisation of the Medical Department of the army had been engaging his enrnest attention. Several points of defail were still under consideration; and on introducing the Army listimates he would endeavour to explain fully the arrangements contcmplated.

The Safety of Thealres.-Ir. Matruews, replying to a question put hy Sir S. Nonticoms, said the Govermment had under their ennsideration the question of the greater safety in construction of theatres, both in London and the provinces, and the expediency of introllucing a Bill dealing with the subject.

## Friday, February 17th.

Taccmation.- Mr. Ritcure, in reply to questions by Mr. Bridlateir and Mr. l'terenseili, said that the Order of the Local Government Board dated October 31 st, 1874, relating to 1 rosecutions in vaccination cases, was not binding upon boards of guardians. The Order was merely a communication, and it rested entirely with boards of gardians to exercise their discretion in the matter.
Saving of Life at Ser.-Sir J. Fergusson informed Mr. M. VinCEMT that it was the intention of the Government shortly to introduce in the Jlouse of Lords a bill for the better saving of lite at sea.

## Monday, February 20th.

The Hater Supply of the Country.-Sir H. Roscoe called attention to the printed correspondence which has appeared from eminent authorities as to the possible danger of a water fnmine oceurring during dry summers, and neked whet her, in view of the vast importance of the question of the proper storage of water thronghout the kingdom, the Government would consider the advisability of appointing a Royal Commission to inquire and report on the whole suljeet.-MIr. W. H. Smith, in reply, admitted the serionsness of the question, but thought it impossible for any steps to be taken now which would affect the water supply of the ensuing summer. Looking to the fact that large sums of money had in late years heen borrowed hy local nuthorities for the purpose of providing water, the Government hardly thought a Royal Commission, such as suggested, advisahle.
Measles in the Island of Lemis.-The Lomd ADvocate, in replying to a question of Dr. CAMEnos, stated that in Stornoway burgh there were a large number of cases of measles, and 4 dealhs: Stornoway parish, many eases aml 18 deaths; Barvas parish, nearly 300 cases and 1 death; Lochs parish, 300 cases and 16 deaths: Uig. 2 cases and no death. The disense has heen on the whole of a mild type, and in all these phees medical attendance was given and the sick sumplied with medicine ant snch necessuries as were ordered by the medical men. Isolation, wherever practicable, was insisted upon.

Welnesday, Fehmary zind.
Police axi sanitany leimhatoos
On the motion of Mr. STUART-WORTLE: it was resulvet that the Committen Gelcetion do aphoint a Committce, not exceeding nine members, to whom

 rit fes. which regulations whith deviat irom, or are in extelason or athlls referred to the gemeral hw: that Standing Order li3A te applicable to ald hol persons, papers, satd Comnnit tre: that the Committee have pown to sen

## NAVAL AND MILITARY MEDICAL SERVICES.

prize oflered for public competition by her MAJESTY THE BMDRESS OF CBRMATY.
Os the oceasion of the fourth International Conference of Red Cross Socicties, which was held at Carlsrule last year, in the month of Septembler, the Empress of Germany genemusly phacel at the disposal of the meeting a sum of 6,000 marks (about. 2300 ). together with three gold and nine silve medals, to be employed as 1 rizes in any competitive undertaking which the conference might consider likely to be useful in promoting Red Cross work. After full diseussion of the subject, it was decided at the conference to devote Her Majesty's gift to a competition on "" the best interior arrangements of a portable hospital, that is to say an indication of the most suitable articles and the best meanis of procuring them, for furnisling and carrying on the work of a portable hospital calculated for a fixel number, of sick and
wounded patients." It was also settled that the Central Committee of the German Red Cross Societies, of which Count von Stolberg is the president, should undertake the arrangement and publication of the detailed programme for the competition. This programme has now been issued, and we are requested to make known the conditions agreed upon for the competition. They are too lengthy for us to publish them in extenso, but an indication of the leading points among them will suffice, as it is announced that information in all particulars regarding the competition may be obtained by inquiries addressed to the Central Committee of the German Associations of the Red Cross, No. 73, Wilhelmstrasse, Berlin.

1. It is assumed that hospital accommodation for 60 patients has to be provided rapidly, and that to meet this urgent need, 3 lunts have been erected, each 15 metres long by 5 wide, with walls 2.25 mètres high, and an elevation of 3.65 metres to the top of the roof. Each hut can contain 18 or, in case of need, 20 beds. One or two other huts, with interior partitions, are destined for the accommodation of a staff of 2 surgeons, 2 purveyors or stewards. 1 cook, and 6 attendants on the sick. The question is low to dispose of these erections to the best advantage, keeping in view the attention to begiven to the needs of the sick and wounded patients. All objects intended for the purpose named must be capable of being readily packed and transported, either by railway, or by country vehicles. Attention must, therefore, be given to reduction of bulk and weight as far as possible.
2. The objects above mentioned have reference to the bedding and all the furnishing of the space reserved for the patients, including the means of heating and lighting, the utensils for the sick, surgical iustruments, medicaments, bandages, linen, clothing, cooking utensils, table articles, and, lastly, aliments and beverages necessary fer three days. All articles must be furnished of their natural size, but oniy a single specimen of each. Models of reduced dimensions will not be almitted.
3. Each competitor will furnish a description of the objects he exhibits either in German, French, English, or Italian, and, if needed, explanatory drawings. / The description must include ( $a$ ) a plan of the constructions intended for the steward's duties; (b) a list of the different objects for the service, and an indication of the number of the sick and of the personnel they correspond to; (c) the precise cost of the varions articles, where they are procurable, how they are to be packed, and the cost of packing; and ( $d$ ) an approximate estimate of the number, dimensions, and weight of the packages, with a statement of the number of vehicles required for their conreyance.
4. Objects intended for the competition must be sent to Brussels before Augnst 15th, 1888, and should be addressed: "Au Comité Exécutif du Grand Concours International des Seiences et de I'Industrie, Rue du Palais 22, a Bruxelles." Each competitor must send to the same address a notice specifying the amount of space he will require before July 15th next. This space will be allotted free of cost.
5. An international jury will be appointed to award the prizes.
6. The exhibition of the articles sent for competition will take place in an annexe to the Brussels Universal Exhihition, and will last from September Ist to the 30 th, 1888.
It may be remembered that an international exhibition of lut portable hospitals took place in Antwerp in the autumn of the year 1885, in competition for a prize of 4,000 marks and a gold medal, which the Empress of Germany at that time placed at the disposal of the Red Cross Societies. The present competition, if it excites the same interest and attracts as many competitors as the competition of 1885 attracted, will complete the humane and valuable undertaking which was then commenced.

## AN゙ AMBULANCL COMPETITION TROPHY.

Tue suggestion made by Sir Guyer Hunter, M.P., at the Mansion House, last Saturlay, on the occasion of the distribution of certificates to the successful candidates of the Ambulance Department of the Volunteer Merlical Association, was one which if carried into effect would be likely to do much to create a healthy rivalry, and, as Sir Guyer IInnter observed." be of service in increasing ind making more perfect the work of the Ambulance Department." He expressed the hope that in course of a short tiue they might he able to obtain a shield, or some other similar object, whieli inight be as the Elcho Shield was to the volunteers. The suggestion met with ready approval, and the Lord Mayor testified his concurrencs by offering to give fire guineas towards the object, an axample which he hoped mould be followed by others.

Inspactor-Genpral James Micholas Dick, C.b., has theen appointeml Director-General of the Medical Department of the Nary. His commissionstaze thus dated :-Surgenn, Angust 17 th, 1853; Sta|r-Surgeon, Septemler 27th, 1861; Fleet-Surgeon, August 14th, 1868; Deputy Inapector-Cieneral, February 26th, 1880; and 1aspector-Ueneral, February 2ith, 1884. From the lroyal wavy List we learn that he was Assictant-Surgeon during the Russian war in $1854-55^{2}$, and served in President, flag of Rear-Admiral Price, being present at the attacks on Pet ropnnlowshi iny the combined English and French Squadrons in Angust 31st and september ith, 1854, when he was specially mentioned for bla care of the ancige number of wonnded. In Septernber, 1854 , he was also present at the capture of the Russian vessels, Sitha, of 10 guas, and Anadir. of 4 guns. In April, 1862, as Surgeon, was present in the loats of Flying Fish at the capture of a slaver in Rio Nunez, West Coast of Africa. In July and August, 1868, when in Satellite, was Scnior Medical Officer in charge of the naval forces and Indian troops : in the operation on shore against pirates iu the Nicobar Islands, Ray of Bengal. Was Seniar Naval Medifal OWcer during the Abyssinian war. 1867-68, and for his services was specially promoted to the rank of Fleet-Surgeon (Abyssinian nredal). During the civil war in Spain. when Flect-Surgeon of the Lord Warden flag-ship in 18\%3, he procueded into Carthagena during the bonabardment as a volunteer to assist the wounded. Received from the Admiralty an expression of their high estimation of the zeal. energy, and skill shown by him in the performanco of his duties in connection with the Royal Naval Hosital, Malta, of which he was the principal officer during the Egyptian campalgn, 1 s $\$ 2$.
The following appointments have been made at the Admiralty $=T$. $D^{\circ} A$ Bromlow. Fleet Surgeon, and G. T. Collingivood. Surgeon, to the imperieuse: W. II. OMEARA, Surgeon, to the Cambridge; J. II. Dawe, Surgeon, to the Grifon.
THE following gentlemen who competed at the examination recently held at Burlington IIouse, for appointment as Surgeon in the Royal Nayy, hare been granted commissions:

Acheson, J. H
Acheson, J. H Marks.


|  |  |
| :---: | :---: |
| $\ldots .$. | 3.130 |
| $\ldots$. | 3,130 |
| $\ldots$. | 3,100 |
| $\ldots$ | 3,015 |

Collingwood, F. W.
Levinge, R. T. . A. ...
Ferguson, J, C.
Mowrilyan, E. P. ...
Marks.

THE MEDICAL STAFF.
Surgeots P. J. B. O'Shatgemessy and J. F. McMillay, who are serting in Bengal, have passed the examination in Burmese by the elementary standard
the indian medical service.
SURGgox II. A. ShEpPARD. ol the Beugal Establishment, has been superseded for sisence without leave. He entered the service April ist, 1896.
Surgeon U. N. Mrekeri, Bengal Fstahlishment, is appointed to the officiating medical charge of the 5 th Native Infantry, vice Surgeon C. J. Bamber, who has been transferred to civil employ
Surgeon D. O. W\&rliker, Madras Establishment, has passed the examination in Burmese by the higher standard.
Surgeon-Major C. BomFord, M.D., Bengal Establishment, is directed to offciate as Secretarr to the Surgeon. General and Sanitary Commissioner with the Government of fudia during the absence on leave of Surgeon-Major A. Barclay, M.B.

Surgeon-1Yajor G. Kive, M.B., Superintendent of the Royal Botanical Gar dens at Calcntta, has leave of absence on private affairs for 213 days.
Brigade-Surgeou C. StBTHorpe, Madras Establishment. Fort Surgenn and Acting Surgeon at the General Hospital, is appointed to be Surgeon at the General Hospital.
Surgeen-Major II. Abzison, M.D., Madras Establishment, Assjstant-Pbysician at the General Hospital and Acting Fort Surgeon, is appointed Fort Surgeon. with fort and marine duties
Surgeon T. If. Pope, M.B., Madras Establishment. Civil Surgeon at Negapatam, is appoluted Assistant-Surgeon at the Geueral Hospital.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## CASEY V. TILE GUARDIANS OF ST. GEORGES-IN-THE-FAST. <br> (Before Mr. Baron Iluddefston and a special jury.)

Tris action was brought under Lord Campbell's Act by a widors for herself and her children, to recover compensation for the death of her husband. The case as opened by the counsel for the plaintiff was to the effect that it had become necessary to restrain the deceased, who was at the time an inmate of the workhouse infirmary, but that, the straps not being properly fixed, he got loose and threw himself out of the window. The case for the plaintiff was that the guardians were guilty of negligence by their servants in not having the deceased properly secured in the condition in which he was known to be at the time.-Mr. Baron IIuddleston asked whether the point raised in this case had not been before him previonsly:-Mr. Finlay replied that it was before his lordship sitting without a jurs. The Court of Appeal thought there was no case of negligence made out against the guardians.-Mr. Baron Huddleston: 1 thonght there was.-Mr. Finlay: Yes. Mr. Baron lluddleston: That was the ease of a window not being properly barred? Ml. Finlay assented. The question of law as to whether an action would lie in such a case was not decided im
that care. Lord Justice bowen anid the question was one of rery great ditheulty. It had feen decided in the Irish ease of "Brennan v. the Limerick loor Law Union." The decmsed had in that caso been suffering from delirimu tremens. The decision showed that no action lay against the guardians, on the ground that they were acting ministerinlly in the unatter, and that by the loor Law Acts such a linbifity is not imposed upon them. There was, he supposed, no substantial differenee between the Irish and the Finglish Poor Law.-Mr. Bamn Iluddeston said that ease was not quoted when the poitt was previonsly before him. - The evidence of some of the nurses and doctors haviag been henrd, the learoed judge ruled that there was no ewidence of negligence in this ense, and by his lordship's direction the jury formd a verdict for the defendauts.

## MEDICAL AID SOCIETY

A CokRraponnext writes to us with regart to the action of the Medical Ald Soclety at Ilanley. In the Jovrsat. of January lith we gavo our oplaion of the charinter of this Soclety, and aivised medical practitioners desirous of mainatinlag the dignity of the protesslon to have as Ittile to do with it as tossible.
Coniplaint has also reached us as to the system of "touting" for patients nlleged to to practised by agents of the London and Manchester and other Insurance socleties; it is stated that they not lufreqnently dall on the insurance somertes of enent practitioners and persuade them to leave their orn mepotients of atiserent practitioners sud persuade them and to eunploy the services of the medical men of their socicty for a small additional premium payment.
It has always lwen conainkered legitimate for insurance agents in the way of busivess to call on members of the public in the hope of getting them to take policies in thelr respective offices: but it, under the'pretence of bond fide Insurance buainess these societies aro through their agents simply carrying on o wholesale traffic in cheap medical attendance, we cannot but think such fractlees warthy of the strongest reprobation af tho profession.
W. J. B. - Our correspondent was well advised in leaving a situation inr which he was almittedly unqualified, and continuance in which would probably Lase brought him into difficuley. Withouk n intl report of the proceedings we are unable to form an opinion whether the decision of the county court julge was right or mot. The solieitor, if properly retained, might be liable for negligence in failing to appear to conduct the case.

## INDIA AND THE COLONIES.

## NIXETEESTIE AYNUAL REDORT OF TILE SANITARY COMMISSIONER FOR BEAGAL. (DEpUTY SumgeonGeneral Ir. Lidderdale, 3l.d.) FOI T'ie YE.LR 1836.

1s the year under revicw there was a marked reduction in the prevalence of cholera, as compared with its incidence in 1885. In 1886 the deaths from this disease amounted to 118,363 persons, nmong a population numbering $66,163,8.54$, that is, at the rate of 1.78 jer 1,040 ; while in $1880,173,767$, or 2.132 per 1,000 of the population perished from this cause. The disense attacked 21,567 villages, or 9.33 iner cent. of the total number of villages in the province, ngainst 29,239 , or 12,61 per ceat., in 1855 . In the urban cireles $9,0,25$ persons died of the disease, at the rate of 4.12 per 1,000 of the population; in the rural districts 108,433 , or 1.70 per I,000 of the population. As usual, the rainfall exercised n powerful influence on the prevalence of cholora. In 1885 the province was severely inumlated, so much so that n large portion of it was kept under water to a late periol; this, in the epinion of the Sinitary Commissioner, las the effect of materially reducing the usual severity of the winter prevalence of eholera in that year, and this abntement was prolonged into Jauaary nad February of lise. The first four inonths of the year had a rainfall below the average of several preceding years, but this was not followed hy any marked exacerbation ahove the usual seasonal inerease of deaths. Mareh, April, and May have a smaller mortality than 182.).

There was heavy rain in May, June, July, August, and September, attended by a vers considerable diminished mortality, but the winter prevalence of the disense was high, and culminated in severity in December.

It appears that the Government of India directed a table to be preparel, showing the meteornlogical peculiarities whichobtained during defined periods of efolern outbreaks in certain selected thanns and towns. The Sanitary Commissioner does not seem to think that mnelh, or indred any, useful information has resulted. Ile thinks the wholo subject has already been exhaustively considered by Drs. Lewis and Cunningham, and he adils the following significant paragrayh: "We alrendy know the conditions which
foster the disease, and what the Sanitary Department. requirea is mor and moro money to remove them, leaving to savants to puz\%le out the problem of causation, while in the ineantimo we giver useful lives." it is eertain that until the health oflicers, of Calcutta and the other great cities have oither " more powers" to deal with the known causes which foster cholera, or the obstructive municipalities aro ly some means mado to cease from obstruction, the death-rate from this disease will coutinue to be what it is, and Calcutta will continue to be what is is -a terror to Continental nations. Aguia and yet again we havo warned the Government of Inclia that uuless some stringent measure in the direction indicated is taken, Continental Governments will take steps to protect themselves by international action that will affect the commerce of India very seriously. : At this time a measure of municipal reform from Bombay is under consideration there, and it is a lamentable fact that great pressurc is being brought to bear on the Government by nearly the whole of the wealthy nad educated native community to emasculate the measure, by striking ont the clauses which are intended to promote the health of the community, or indirectly to effect the same bad end by restricting the power of health officers. Cities that have grown up, no matter where, without knowledge of the laws of health, can only be made even tolerably wholesome to live in by a considerable expenditure of money under the supervision of sanitary engineers, and this is exactly what munieipal bodies in India, under the almost sole guidance of wealthy but, as regards sanitation, ignorant native gentlemen will, not permit. Has, the governing race lost, the art of governing? Ilas it become so emasculated in india that it must "lie low" at the bidding of the ignorant gorerned?

## REGISTRATION IN CEYLON.

A Registered Practitioner writes: In the Journal of January Tth it appears that an Order in Council has been published extending the provisions of the second part of the Medical Act, 1886 , to Ceylon. That this is a step in the right direction is unquest tionable, but, at the same time, I renture to hope that the privileges which are nssociated with the act of registration will be extended to us in their entirety, and that thereby we shall be enabled to overcome satisfactorily tbe present unjust and undignified restrictions that are imposed upon the medieal men of the Ceylon Jedical Service by the Government in the matter of.feecharging. At the present moment, no medical man in charge of an out-station is permitted to demand a fee from any Government servant who draws a salary under $£ 25$ a month. The largest number of my patients consists of Government servants with salaries ranging from $£ 10$ to $£ 22$ a menth, and the majority of them are, in addition, landed proprietors, and yet, by'reason of this grossly unfair ordinnnce, 1 am forced to attend upon them and their families without the smallest remuneration. Now, why should this be so? The "free" patient and the medical ofticer are both servants of one and the same Government, with the importint difference though that, in my case, I am registered, hold a british qualification, and am privileged to claim a monthly salary of $£^{2} .4 s$. only. This being the case then, wherein lies the neces: sity or the justice of drawing this fine distinction?
It strikes me very foreibly that the "free patient" derires a considerable amount of gratuitous benefit by this curions arrangement. Withont entering into a lengthy recital of the wrongs that are thus inflicted npon medical men drawing a meagre salary, I may mention that any number of instances could be cited where medieal oflicers hive had to go some distance to attend Government servants for fractures, typhoid fever, ctc., and who, on forwarding their account for pnyment, have received the terse and pithy reply of "1 am a Government servant." It is therefore only to be hopeld that the Council will take into consideration the existing state of matters, nnd that, before extending the Act of Registration to Ceylon, it will exert ita morrerful influence to amend the anomalous position which medicul men in the island are forced to occupy.

Tur Indian Medical Gazette states that Sir James Hanhury K.C.B., will shortly be gazetted I'rincipal Medical Officer, Madras, and will probably be tho successor of Surgeon-General Madden as Chief Medienl Oliticer of the Forees in India.

Medical Magistrate- Surgeon-Major Keogh, J.P. for Co. Kildare, has been placed on the Commission of the l'eace for the Queen's County.

## UNIVERSITY INTELLIGENCE.

## UNIYERSITY OF OXFORD.

Maintenance of the Physiological Deramtmint.- it a mecting of Convocatiou held on February 2lst, the ordinary motion was made to continue the grant of $£ 500$ per, annum for the expense of the Physiological Department, a minimum which Professor Fowler said Dr. Burdon Sanderson liad eked out hy an annual payment of $£ 100$ from his private purse. l'rofessor lireeman opposed the grant as an antivirisectionist; so did the Bodleian Librarian, who reviewed the history of the contest oyer the Physiological Department, and complained of the inequity with Which an important minority had been treated. Mr. Macray said that he and others would feel bound to rote against grants to the department so long as the University left the question of vivisection unrestricted by its statute. The grant was carried by 102 rotes to 22.

## UNIVERSITY OF CAMBRIDGF.

OUR Cambridge correspondent telegraphs:-The following were, on Fehrnary 23 rd , admitted to the degree of M.B.:

Harrison, H. L.; H.A. (St' John's) ; Light, E. M. (Clare). Mr. Light was also admitted to the degree of B.C.

## UNIVERSITY OF BRUSSELS.

AT the recent February examination the following gentlemen, having passed successively the first, second, and third Doctorates Lxaminations required by the University, were admitted to the degree of M.D.
Des Yoeux, H. A.. M.R.C.S.Rng., L.R.C.P.. L.S.A. Drer, S. G.. M.R.C.S.
Eug., L.R.C.P., L.S.A. Mubbard, W. L., M.R.C.S.Eng., L.L.C.P. L.S.A.; Mathews, W., M.R.C.S.Kag., L.R.C.P.Ed., F.R.C.S.EA.

## OBITUARY,

## PROFESSOR WAGNER.

The death of Professor Wagner, the distinguished pathologist, on Februatry 10th, is announced from Leipzig.
Professor Ernst Leberecht Wagner was born in Dehlitz in 1820, obtained his degree at Leipzig in 1855 , was made extraordinary professor in 1859, and in 1863 ordinary professor of general pathology and pathological anatomy. After Wunderlich's death Wagner took over the direction of clinical medicine in the University of Leipzig. 1lis profound pathological acquisisitons were exidenced by numerous publications $\rightarrow$ for example, On Uterine Cancer (Leipzig, 1858), On Fatty. Metamorphosis of the Heart (186t), On Lymphaderoma Resembling Tubercle (18it), and these labours throw his clinical activity into higher relief than is usually the case with physicians, "Of lis many-sided and profound knowledge of patioiology" (Berliner Klinische Wrochenschrift, February 20th) " his distinguished exposition of Bright's disease is a witness; of his compreliensive medical eulture liis ITandbook of General Pathology, a truly classical work, of which Uhle was coeditor. Subsequently to 1860 Wagner edited thee Archive der IIeil-
Kunde, which in $15-\sigma$ kunde, which, in 1878 , ,gave place to new undertakings. Wagner was distinguished as a diagnostician and teacher, and in general clasracter, and his work will ever, be remembered far beyoud the scene of his activity."

## PUBLIC HEALTH

POOR-LAW MEDICAL SERVICES.
REPORTS OF MEDJCAL OEVICERS OF HELLTUI.
Withington Unban (Population, 21,000).-Dr. Railton's account of the incidence of epidemie disease during 1886 in the four townships comprised in this district is very interesting. 'The year's mortaity was low, although two rather extensive epidemics of fever preveriled, which, but for the miller extensive eopidenicici of
liare proved the disenst, might liare proved very disastrons. Measles also prevailed to a great extent in Chiorlion-cum-llardy in the eerly montils of the year, and especially in the month of April. Six cases of diphtheria were reporteil, and of these 5 proved fatal. They were quite

of bis report to a consideration of the mortality at the rarious age periods. Deaths of infants were at the rate of 3 per cent., which is slightly lower than in 1885. All the deaths from diarrheea occurred in children under 5 years of age. The genetal death-rate was very low-12.0 per 1,000 .

- Kensington (Yopulation, 173,500). -IFospitals of Asylums Board: Notification of Disease: Disease in Post Office Officials.Dr. Dudfiell's annual reports may be regarded as exhaustive treatises on sanitary science, of which ho not only expounds the theory, but relates the practice. His influence and interest are widespread, and acting under. his advice the vestry of St. Mary Abbots, has become a real power in promoting improvements, and in controlling sanitary legislation. Dr. Dudfield has always attached the greatest importance to the work of the Metropolitan Asylums Board in connection with hospital accommodation, and may justly claim credit for originating many useful features of its present system. IIe for many years contended for the free admittance' of all infectious cases upou the application of sanitary officials or of registered practitioners, and it was mainly at his instance ${ }^{+}$also! that the plan of removing small-por patients out of London Fas adopted, and that the hospitalships were instituted. His report for 1886, especially that part which 'deals exclusively with the prevalence of zymotic diseases in the district, shows that there was not a great deal of epidemic sickness during the year. Measles, whoop-ing-cough, and diarrhœa were the most fatal, but the number of deaths in each instance was below the decennial arerage. Diphtheria was the only one of these diseases which showed a mortality in excess of the average. This increase, Dr. Dudfield thinks, may be apparent rather than real, and is possibly. due to greater accuracy in diagnosis. The deeline in the prevalence and fatality of certain diseases is taken as evirlence of the beneficial results of the system of voluntary notification. The action of the postal authorities in reference to the notification of sereral cases of scarlet fever in the families of letter-carriers, etc., did not quite satisfy Dr. Dudfield's requirements, information having been withheld until the services of the disinfecting staff were called into requisition at the termination of the respective illnesses. The deathrate for the whole parish was 15.9 per 1,000 , compared with 15.5 , 15.1, and 16.1, in the three preceding years, being 1.4 per 1,000 helow the decennial average, and 4.0 below the metropolitan rate. The infant mortality was lower than in some recent years, the number of deaths under one year of age being 656, or 15.4 per cent. of the total registered births.

Chelsea (Population, 97,716),-Diphtheria: Typhus Fever: Conviction for Careless Dispensing.- The number of leaths registered in this parish during 1856, including the three subdistricts, was 1,909 . The death-rate, therefore. was equai to 20.4 per 1,000 . No deaths were recorded from small-pox, and there were only 7 deaths from scarlet fever. Dr. Edward Seaton states; as a curious. fact, that exactly the same number of scarlet fever deaths occurred in each of the two preceding years. Diphtheria caused 28 deaths -a high mortality, as compared with other urban districts. Dr. Seaton's experience leads him to: the conclusion that defective house drainage has very little to do with the production of this latter disease. "lt is beyond question," says Dr. Seaton, "that' many outbreaks of diphtheria, like scarlet fever, have been traced to milk, and it is also beyond doubt that in these cases the milk las not become contaminated by human agency; or by a polliuted water supply. As in the case of scarlet fever, thereare facts which point to a disease of the coir as the source of the mischief." People are careless about measures of isolation and disinfection in conuection with diphtheria; but Dr. Seaton insists very strongly on the need for treating the disease as one of an infectious character. Some cases of typhus fever occasioned considerable anxiety. oecurring as ther dirl in a court occupied by poor people. necessarily living under unfavourable sanitary conditions. The utmost precautions were taken, and the patients removed to the hospital, and 1)r. Seaton procured the assistance of the guardians and of other charitable societies in relieving cases of distress, which would otherwise dave fallen ready rictims to the disoase. The new disinfecting station afforled valuable help, and its usefulness is becoming more generally recognised. One of the chief erents of the year was the successful prosecution of a chemist and druggist for carelessness in dispensing a medicine.

Poplan (Population: South district, 58,530 ; North elistrict, 115, (000),-I'revalence of Measles and Diphtheria: Cutting off

Water supply.-Measles was the only zymotic discase that was seriously epidemic during $188 k$. In thell division the deathas are repirtal to have been excessive. So prevalent was the disease in the sonth district during the manth of December that Mr. Ciomer cansed a special inspection of houses to be made, with tho view of ascertaining if defective house sanitation were contributing to the fatality. The results, however, showed that such was not the case generully. 1)r. Russell Talbot's explanation is, perhaps, more probable: that sufticient means for isolation were not available. No denth occurred from small-pox during the year, and only 6 cases were recorded. Diphtheria and croup were fatal in $3 t$ instances in l'oplar and 14 each in Bow and Bromley Bad storage of water, the presence of sewer gas in houses due to faulty drains and tlttings, wnit of water to closets, and defective or absent traps, were not infrequently found in connection with the cases. In a fatal case at Millwall the suspicious connection of want of water and diphtherin was shown. The premises had been without water three days, the company having cut off the supply to enable alterations to be made. Twenty-four deaths occurred from enteric fever, 10 in the north and 9 in the south district. One death, undoubtedly due to defective sanitary conditions, was specially lamentable, the rictim, the head of the honse, having, on entering it nine months previously, expended
money freely with the object of securing a healthy home: a daughter, who sickened later on, nearly lost her life. The denths in Poplar were 1,043, and in Bow and Bromley 2,481. Diarrioea prevailed but little during the summer.

Healtit of Exglish Torss.-During the week ending Saturday, 18th Febmary, 5,516 births and 3,764 deaths were registered in the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons. The annua rate of mortality per 1,000 persons living in these towns, which had been 21.9 and 22.2 in the $t \pi 0$ preceding weeks, declined during the week under notice to 20.9. The rates in the several towns ranged from 14.1 in Birkenhead, 14.2 in Sunderland, and 15.4 in Bradford and in Cardiff, to 26.7 in Norwich, 26.8 in Preston, 29.3 in Manchester, and 29.4 in Wolverhampton. The mean death-rate in the twenty-seren provincial towns was 21.2 per 1,000 , and exceeded by 0.6 the rate recorded in London, which was 20.6 per 1,000 . The 3,764 deaths registered during the week under notice in the twenty-eight towns included 405 which were referred to the prineipal zymotic diseases, against 507 and 401 in the two preceding weeks; of these, 170 resulted from whooping-cough, 61 from searlet fever, 40 from "fever" (principally enteric), 38 from measles, 37 from small-pox, 35 from diphtheria, and 24 from diarrbea. These 405 deaths were equal to an annual rate of 2.2 per 1.000 ; in London the zymotic death-rate Tas 2.6 per 1,000 , while in the twenty-seren provincial torms it a veraged only 2.0 , among which it ranged from 0.2 in Bradford and 0.3 in Hull, to 3.6 in Sottingham, 3.8 in Oldham, and 6.0 in Sheffeld. Mcasles caused the highest proportional fatality in Wolverhampon, Nottingham, and Plymonth; searlet fever in Halifax, Oldham, l'reston, and Birkenhead: Whooping-cough, in Brighton, Salford, and London: and "fever" in Nottingham and Norwich. The 35 deaths from diphtheria in the trenty-eight towns included 18 in Lonilon and 5 in liverpool. Of the 37 fatal cases of small-par reeorded during the week under notico 30 occurred in Shenlicld, 2 in Bristol, 2 in Leeds, 1 in London, 1 in jotals enam, and 1 in Manchester. The Metropolitan Asylums llospitals eontained 6 small-pox patients on Saturday, February 18th, also conthad been admitted during the week. These hospitals also contained 1,395 searlet fever patients on the fame date, eleven preceding weeks: there were 104 admissions during the week. The denth-rate from diseases of the respiratory organs in London was equal to 5.9 per 1,000 , and was slightly below the avcrage

Mfaitil of Scotcil Towas.-In the right principal Scoteh towns, 781 births and shis deaths were registered during the week ending Saturday, lelomary 18th. The anmual rate of mortality in these towns, which liad been 22.4 and 22.5 per 1,000 in the two preceding weeks, ras again 2,5 during the reck under notice, and excecded by 1,6 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns, the lowest rates were recorded in Greenock and Leith, and the highest in Chlasgow and I'aisley: The 508
deaths in these towns during the week uder notice included 62

Which were reforred to the principal zymotic diseases, equal to an nnmual rato of 2.5 per $1,0(0)$, whel slightly exceeded the mean zymotie denth-rate during the week under notice in the large English towns. Tho highest zrmotic rates were recorded in Glasgow, Perth, and Paisfey. The highest proportional fatality of whooping-congh occurred in Gilasgow, and from measles in Dundec. The 13 deaths from diphtheria recorded in these Scoteh towns included 6 in Glasgow and 5 in Edinburgh. The mortality from diseases of the respiratory organs during the week under notice in these towns was equal to 6.5 per 1,000 , against 5.3

## in London.

Heatiti of Imisu Towns.-During the reek ending Saturday, February 18th, the deaths registered in the sixteen principal town districts of Ireland were equal to an annual rate of 28.3 per ,000. The lowest rates were recorded in hikenny and wexford, the principal zymotic disenses in these towns averaged 3.1 per 1,000, and was highest in Belfast and Newry. The 175 deaths registered in Dublin during the week under notice were equal to an annual rate of 25.9 per 1,000 , which showed a marked declino from the high rates in recent weeks. The 175 deaths included 17 from the principal zymotie diseases (equal to an annual rate of whooping-congh, 2 to " fever," 2 to diarrhoa, 1 to mensles, and 1 to diphtheria.

## REPUDLATION OF OVERSEER'S ORDER BY A DOARD OF <br> <br> GUARDIANS.

 <br> <br> GUARDIANS.}Countra Mfmafr writes: On October 12th last a boy was brongle to me chffering from extrensels severe lacerated wound of lund, densanding imme sufferng from extrention of tbumb. The operation satisfactorily coucluded, the diate amp the child informed metlat neither she nor her husband were in, motiton to pay for a medical nan: so I told her she must get me a note position to pay for amedical nan ef Union for which I nct as medieal officer; rom the parish authorities of the comon this was brought me the following morning in the the lionrd of Ginardinns order. fortuigha severity of the injury, about ten days or a week ago.

I hear nothing from the Board on the subject till I send in my bill at Giristmas, when I am informed llat they refuse to pay memy fee (E2) for Christmas, when 1 am informed on my denanding the rensons subsequently attentance that "thev consider A. W.'s case was one in which the overseer should not lave given the order, and they dechine to contirnit. Can they do so?

*     * Our correspondent should inımediately lake out a summons against the Board of Guardians, when lie will we promptly informed by the county court judge that the Board of Guardians are, under the special circumetancea lable for tho claim, and cannot dispute the legality of the same.


## CLRTIFICATES OF SUCCFSSFUL VACCINATION.

M.B.. C. Af. asks: Can I, after having vaccinated a child brought to me from a distance, subsequently sign a certiticate of succeschild? I am practising in a of the mother, , thout having mygen seenly bronght to mo tor vaccination country district, and claildrent are trequettly bronge trongly object to bringing from a distance of six or eight miles. The parents sirongy ing bis time of he child back for examination on account of the distance, athd (at bis time he rear) bul weather. Similarly they object on the score of expense to my making a risit. for the umpose of seeing whether the vaccination be succes ful or Ilitherto I have refused to certify; without secing the child, and in consequence have roused the indignation of one or two patients for having, as they sald. "refused to take their word." A bron in the habit of certifying without seeing.
** The intention of the Act is that the veccination shouke be insnceled. It is only by such means that the onerator can be certain of certilying cor rectly. Ilead Ferin (A) in the Sciseduic, Vaccination Acts, $186 \%$ and 1871.
AnममA. -The duties of medical officers of health and of inspectors of minances have been detined by the Local Government Beard, and an
Board would. donbless brocure for yon their nenorandum.

MFDICAL OFFICFR OF HEAT.TIT.-The best book is, we think, Wilson's Ifand cook of ISygiene. lut we are not jrepare

AT a mecting held on February 16th, 1888, the Wigan Aedica Society unanimously passed the following resolution:- That is inndvisable amongst members of the medical profession to issu circulars or to use asystematic canvass for club appointments.
TIfE LATE Proffsgon Bons.-Dr. Il. Bohn. Fxtraordinary Iro
 Jiseases of the. Month in Children, Mandbook of Iaccincetion, th Deseription of the Leute lisantluenanta in Gerlardis IIandhook Childrens Disprses, and mumerous contributions to the Jahrbue fïr Kïnderheilfunde. Althougly J3ohn Ind to work inder unfarom able conditions, withont adequate climical materiul
theless produced scientific results of permanent ralue.

## MEDICAL NEWS. <br> medical vacancies.

The following Yacancies are announced:
BIRMINGHAM GENELAL HOSPITAL,-AssistantHouse-Surgeor. Applicatlons by February 25th to the liousc Governor.
BRISTOL DISPENSARE゙,-Surgeon. Applicatious by March 8th to E. Stock, Esq., 5 ; Queen Square, Bristol.
CANCER HOSPITAL, Brompton.-Registrar. Salary, £50 per annum, with board and residence. Applieations by Mareh fth to the Secretary.
CBNTRAL LONJON OPHTHALMIC IFOSPITAL, Gray's Inn Road, Ẃ.C.Two Assistant Surgenis. Applications by Marcli 6th to the Secretary.
COTON HILL LUNATIC IIOSPITAL.-Assistat Medical Officer. Salary, £loo per annmm, with board, cte. Applications by March loth to the Medical Superiateudent.
DEWSBURY AND DISTRICT GENFIRAL INFIRMARY. - House-Surgeon. Salary, £30, with board, etc. Applications by March 6 th to the Chairman of the House Committee.
FHENCH HOSPITAL. Leicester Square,--Resident Medical Officer.
£bo per annum, with board, etc. Applications to the Secretary.
LEICESTER INPIRMARY AND PEVEIt HOUSE.-Assistant House-Surgeon Salary, £50, wirh board, etc. Applications by March Ioth to the Secretary, 24, Friar Lane, Leicester.
LINCOLNSHIRE COUNTY ASYLCM, Bracebridge, near Lincoln.-Assistant Hedical Offcer. Salary, £150 per annum, with board, lodging, and washing. Applications by February 25 th to J. W. Marsh, Esq., Superintendent.
METROPOLITAN HOSPITAL, Fingsland Road.- Junior House-Surgeon. Salary, £40, with board, ete. Applications by February 27 th to the Secretary.
MOUNTMELLICK UNION, Coolrain Dispensary,Medical Officer, Salary, ells per annurn, and fees. Applications to Mr. P. Kelly, Honorary Seere tary, Derryduff, Mountrath. Election on March 5th.
OUGHTERARD UNION.-Medical Officer, Oughterard Dispensars. Salary, £II2 per annum and fees. Applications to Mr. Robert Mons, Honorary Sec retary, Drumnakill Lodge. Blection ou Mareh 7th.
UUOHTERARD UNION.-Medical Oficer to the Workhouse, Infirmary, and Fever Hospital. Salary, £io per annum. Applications to Mr. J. Gillnore, Clerk of Cnion. Election on March th .
HOXDURGH DISTRICT ASYLUM, Melrose.-Assistant Medical Offieer Salary, $£ \preceq 0$ per annum, with board and residence. Applications to Dr.
Johnstone.
ST. GEORGE'S AND ST. JAMES'S DISPENSARY. - Physician. Applications to S. L. Bumnett, 60 , King Street, Regent Street, W .
TARBAT (ROSS-SHIRE).-MEdical Officer. Salary, £1I5 per annum. Applications by February 29th to Finlay Munro, Erq., Roekfield-by-Fearn, N.B.
UNIVFRSITY OF GLASGOW. - Fonr Fxaminers in Medicine. Annual fee,
C40 or £30. Applieations $\mathbf{C y}$ March 5 th to the Secretary of the Unirersity
Court, G. D. MrLellan, Esq., 145, West George Street, Glascow.
WEST BIROXWICII DISTRICT HOSPITAL--MIOuse-Surgeon. Salary, fso
Eer annum, with board. Applications by February 25th to William Bache,
ORK COUNTY HOSPITAL.-Senior House-Surgeon. Salary, £I00 per annum, with board, etc. Applications by Mareh Ist to the Seeretary.
ORK DISPFNSARY,-Three Reaident Medical Oficers. Salary, £130 per annum, with Iurnished apartments, etc. Applications by February 29th to S. W. North, Esq., 81, Micklegate, York.

## MEDICAL APPORNTMENTS.

AsEirky, S. D., M.R.C.S., appointed lesident House-Surgeon to the Brixton,
Streatham, and Herne IIIll Dlspensary, vice A. G. Peacock, L.IE.C.P., M.R.C.S., resigned.

Galvert, James, B.A., B.Sc., M.D.Lond., M.R.C.P., M.R.C.S., eppointed As-
sistant-Phrsieiau to the Royal Ifospital for Diseases of the Chest, City
Hoad, London.
biffitirs, T. JR., apmonted Clinical Assistant to the Bimmingham Bonouch Asylum, vice R. J. Fox., resigned,
AITPs, D. G. Clements, C.M., M.D.EAI., appointed Consulting Surgeon-Oculist to the Redland Braneh of Clifton Dispensary.
Westarn Lhord, M. M., C.M.. R.A., appointed Junior House-Surgeon to the Western Dispensary, Marylebotic Road, N.W.
LUFF, A. P...M.B., B.Sc.Lond., M.R.C.S., appointed Assistant-Ehysieian to the North-West London Hospital, Kentish Town Hoad, vice T. Glover Lyon,
M.A., M.D., resigned.
owfle, H., L. R C P Fi.
pensary, Nenarph Union appointed Medical Officer to the Silrermines Disgoney h. Nemayth Union, vice J. II. A. Hall, L.K.Q.C.P.1., resigned.
the Birkenhead Borough Hospital, vice S. Hughes, M.B., C.M.ES.,M.M.C.S., resigned.
Taom.ıs, J., M.I.C.S.Eng., L.R.C.P.Load., appointed Iouse-Surgeon to the Alamnrgan and Monmouth Infirmary and Dispeasary, vice Douald Paterson,
Presentation to Dr. F. ErNest locock.-At the lalf-yearly vlinner, on February 16 th, of the Brussels Medical Graduates Association, Dr. Ifenry Lewis, of Folkestone, President, in the clair, a handsome illiminated address, mitli a gold repeating watch and massive silver centre-piece and soup tureen, was presented to Ur.
ciation for nearly ten years. The presentation was made jointly loy Dr. Jervis, the president, and Ur. I. Beresford Ryley, the founder of the Association, both of whom spoke in the warmest and most cordial manner of the indefatigable energy and acnmen shown by Dr. Pocock in carrying out the work of the association. It was entirely owing to Ir. Pocock's efforts that the Brussels degree had been (under the recent Medical Act) placed upon the Medical Register. Dr. Pocock snitably responded, and thanked the association for tlieir kind recognition of his services. Dr. Bowles, F.R.C.I., of Folkestone, in replying to the toast of his health, said that Indiun medical students were at a great disadvantage in obtaining a degree in medicine, but that he hoped this was soon to be remedied. Among the other speakers were Dr. Danford Thomas, Dr. William Garton, Dr. Nix, Dr. Barraclough,
and Dr. Orwin.

THE WORKHOLSE INFIRMARY XLZSING ASSOCIATION.-H.R.H. Princess Christian of Schleswig-IIolstein, patroness of the Workhouse Infirmary Nursing Association, has written to the committee: "If I hare an opportunity, I will certainly urge the claims of the Trained Nursing Association in Worlhouse infirmaries. Lknow from personal experience what good work it has done." The eighth annual report of this association showed that there has been during the past year a steady increase in the demand for nurses trained by the association. Sixty-three have been appointed to twenty-two infirmaries. Seventy-three nurses, of whom fifty-four are in London and the remainder in the country, are now at work. "Four racancies were flled during the year at new infirmaries. Midwives from the association are at work at the infirmaries of St. Yancras, Camberwell, St, Luke's (Holborn), Marylebone, Kensington, and Hampstead. The Board. of Guardians of St. George's-in-the-East have consented to fill the racancies which occur in their infirmary with trained nurses, under the supervision of Miss Hughes, the matron appointed last year. Miss Louisa Twining has promised a donation of $£ 100$ towards meeting the increased outlay of the association in carrying out the work it las set to itself-that of abolishing the old system of pauper nursing, and replacing it by placing trained ladies and unrses in all our infirmaries. It is encouraging to find that fifteen boards of guardians subscribe to the society's funds.

Munterian Soctety.-The following officers of the Hunterian Society were elected at the ammal general meeting on February 8th for the ensning twelve months:-President: $\mathbf{R}$. Clement Lncas, B.S. Vice-Presidents: Mr. G. J. B. Sterens; Mr. G. B. Hicks; Fletcher Beach, M.D. ; Heinrich Port, M.D. Treasurer: II. I. Fotherby, M.D. Trustees: II. I. Fotherby, M.D. ; Mr. D. de Berdt IIovell. Librarian: Mr. T. Rowing Fendick. Orator: G. E. Merman, M D. Secretaries : F. Charlewood Turner, M.D.; Mr. John Poland. Council: Messrs. S. H. Appleford: T. E. Bowkett; P. L. Burchell, M.B. ; F. M. Corner; J. S. E. Cotman; H. Gervis, M.D.: Dundas Grant, 3.D.; W. Rivington, M.S.; Isaac Scartl, M.B.; J. H. Stowers, M.D. ; C.J. Symonds, M.S.; R. G.. Tatham. Auditors: G. F. Herman, M.E.; Messrs. Waren Tar, T. Rowing Fendick, J. S. E. Cotman. Library Sub-committee: IIessrs. F. JI. Curner, S. II. Appleford, Walter Rivington, M.S. : Heinrich Port, M.D. ; J. S. E. Cotman. In our notice of the dinner of this Society last week, the name of Buzzard was mispriated for that of Sir William Blizard, of the London Hospital, who in former years adorned the presidential chair, being the first president, and delivered the first oration.
The William F. Jenks Meyortar Prize.-The first triennial prize of 250 dollars, under the deed of trust of Mrs, W. F. Jenks, will be awarded to the author of the best essay on "The Diagnosis and Treatment of Extra-Uterine Pregnancy." The prize is open for competition to the whole world, but the essay must be the production of a single person, and must be written in the English language, or if in a foreign language must be accompanied by an English translation. All essays to be sent to the College of Physicians of Ihiladelphia, Pennsylvania, U.S.A., addressed to Eilwood Wilson, M.D., before January Ist, 1889. Each essay must be distinguished by a motto, and accompanied by a sealed enrelope bearing the same motto, and containing the name and address of the writer. The Committee will return unsuccessful essays if reclaimed within one year. If the suecessful essay be published, which the trustees have the power of doing, the distribution of it is to be entirely under the control of the trustecs under the deed. If not published, it is to he the property of the College of Physicians of Philadelphia.

OPERATION DAYS AT THE LONDON HOSPITALS.
MONDAY.......... 10.30 A.M.: Hoyal London Ophthalmic.- -1.30 P.Y. ; Goy's (Ophthahifo lirpartment.) ; and hoyal Weatminster Oplithat-mic.-E P.M.: Mctropollian Freo; St. Mark sitentral London Ophthalmio: Royal Orthopedic; anm 3.30 p.N.: Chelsin 1 lospital tor Women.

TUISDAY.........9 A.N.: St. Marys (Ophthamic Department).- 10.30 A.3. : Loyal London (ophthalmic.-1.30 P.M.: Guy's: St. Bartholomew'e (Ophthalmic Department) ; St. Mary's ; Royal Heotmingter Ophthalmic, - 2 P.N. : Wentminster ; St. Mark's; Central London Ophthalmic. - 2.30 r.m.; West Loudon; Cancer Hospilal, Brompton.-4 P.M. : St. Thomae's (Ophthaluic Department). 10 A.M.: National Orthoredic-10.30 A.M.: Royal Londom. Ophthaimic National Orthoredex-1.30 P.M. St. Barlisolomew's, Ophthalmic.-1 P.M.: Westminster Ophthalmic.-2 P.M. St. Thomas's; hoyal Westminster Ophthalmic.- 2 Orthern Londoo; University College ; Westminster G Great Northern Central; Oentral London Ophthaimle.-2.30 P.M.: Samartap Free Hospital for Women and Children; St. Yeters.-3 to 4 P. M: ; King ${ }^{\text {S College. }}$

TIIURSDAY ...... 10.30 \&.m. : Hoyal Jondon Ophthalmic.-1 p.M. : SI. George's - 1.30 P.M.: St. Bartholomew's (Ophthalmic Department); Guy's (Ophthalmic Department); Royal Westminster Ophthate Guys sophthalmic Charing Cross : London: Central London Oph-mie.-2 P.M.: Charing Cross ; Londod; Thrant; Mospital for thalmic; Klospital for Diseases Lendon; Chelsea 1lospital for Women.-2.30 p.al. : North-West Leado Women.
FRIDAF .... 9 A.M. : St. Mary's (Ophthalmic Department).-10.20 A.N.: Royal London Ophthalmic.- 1.15 P.M. : St. George's (Ophethat-
 thatmic.-2 p.M.: King's College; St. Thomas (Ophtlaninaic Department): Central London Ophthalmie; Royal south London Ophthalmic; East Loodon llospital for Children.2.30 P.N. - West London.

SATURDAY....... 0 A.M. : Foyal Free. -10.30 A.m.: Royal London Ophthalmid.I P.m.: King's College.-1.30 P.M.: St. Bartholomew's St. Thomas's : loyal Westminster Ophthalmic.-2 P. M.: Charing Cross: London i Middiesex; Royal Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Charing Cross,-Medical and Surgical, daily, 1; Obstetric, Tu. F., 1.30; Skin, M. Th. 1.30 ; Dental, M. W. F., 9.

Gux's.-Medical and Surgical, daily, 1.30 ; Obatetric, M. Tu. F., 1.30 : Eye, M. Tu. Th. F., 1.30; Ear, Tu. F., 12.30 ; Skin, Tu., 12.30; Dental, Tu. Th. F., 12. King's College.-Medical, daily, 2: Surgical, daily, 1.30; Obstetrio, Tu. F . S. ; 0, W Fi 12,30; Live M. Th., 1; Ophthalmic Department, W., 1 Ear, Th., 2; Skin, Th. ; Throat, Th., 3; Deatal, Tu. F., 10. Obstetric, M. Th., Londor.-Medical, daily, exc. S., 2 ; Surgical, daily, 1.30 and $2 ;$ Obstetric, 1 , Th., 1.30 ;o.p. W. S. 1.30 ; Eye, W. S., 9 , Lar, S. .9.30; Skin, Tu. ., $1.30 ; 0 . p$. W. S., Midplespx. - Medical and Surgical, daily, 1 ; Obstetne, Tu. "Dental, dalls. $\theta_{\text {. }}$ 1.30; Eye, W. S., 8.30; Far and Throat, Tu.. ${ }^{2} ;$ Skin, Tu.,
 o.p., W.S., 9; Fye, Tu. Th. S., 2.30 , Far, Tu.
2.30; Orthoprdlc, M., 2.30 ; Dental, M. T.'F.S., I: Obstetric. Tu. S., $1 ;$ n.p., St. Georges. - Medical and Surgical. W. W., Throat, 7 Th. 2 ; Ortbofredic, W., Tu.. 2; Fyo, W. S.2: Far, 1 .
2: Dental, Tu., S., 9. Th. 1. St. Marr's.-Medical and Surgical. dsils, 1.45 ; Obstetrie, Fu. .... Skin, M. Th.
 9.30 ; Klectrician. Tu. F.. 2 ; Dental, W. S., 9.30 ;

Operations, Tu., 1.30; Ophthalmic Operations, F, 9., 2 ; Obstctric, M. Th., 2;
 o.p., W., 1.30 ; Eve, M. Th., 2 ; 0.p., dally excpt 12.30 : Dental, Tu. F.. 10. Skin. W., 12.30; Thront, Tu. F., 1..10: Children. S., 12.30 : Dental, Tu. F.. 10.
 Throal, Th. 2.30 ; Dental, W., 10.30 .
Throal, Th... 2.30; Dental, Wedical and Surgical, dally, 1.30 : Obatetric, Tu. P..3; lije, M. Th., 2.30 ; Gar, M., 9 ; Skin, Th., 1 ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Communications respecting editorial matters should be udlressed to the Filitor, 29. Strand, W.C., Lonlion: those concerning busioess matters, non-dellvers of the Journar, etto., shonid bo addressed to the Manager, at the Office, $42 \%$. St.rand, W.C., London.
Is order to avold driny, it is particularly requested that all letters on the rer order (he ave
Jouraal, and not to hia private house.
Joural, Allitons desiring reprinis of their artheles publighed with the Manager, 129 , Jourral are
Strand, W.O.
Strand, W.O. Cobrespondeyts who wish notice to be taken of their commanientionalication. authentleate them with their names-of course not neceramiv Notices to Corre Corubspoxtiex ms nut answered aro
MAYUSCRIPIS FORWARDED TO THE OFFICE OF THIS JOCRNAL OLTNOT UNDFR AMT CIRCUSTSTAYCFS DE RETLTRSET.
Peircuartanct Dfisantmant.- We hall be much obliged to Medical Officers Pemfic ifealiti maphitm formarding their Annual and other Reparta, fuvouc us with Duplicate Copies.
",, ,

## RU'HREES.

Canls has a case before him now (lo aivanced life) where a simple enema, though satisfactory enough to ompty the bowal, leada to great acceleration of pinke, with loss of all rhythm and risc of lemperature. What is the explanation of this; does the injection reverge the peristalsls aud react upon
the heart?

A Member of tife Britisa Mrdicali Associatio. asks: What constitutes the National Dispensary?" A "cheap" (possibly "nasty" also) dispensary bas been opiened at Tunbridge recently as the "Tuabridge Branch" of the above.

## A Membrepply of Menicisfas for a Cebabitarle Ingtitution.

faning seveh alult female beda and ona cor a charitable inatitntion, con the supply of medicines?' Professional serices are given gratuitously. The cases admitterl are non-contagions and satacute ones. Each patient pays ss. a week towards her maint enance.

## ANSWERS

DR. A. has omitted to formard his rame or card.
T. L. L.-Dr. Alhin Meunier's products for the treatment of pulmonary affec tiens can be ohtained at Roberts's, 76, New Boad Street, Loudon. The general depot ia at Paris, Pharmacie Vicario, 1\%, Boulerard Haussmaon.
R. F. (Linfield). - Another point of view is that it is for the respective Colleges to enforce their own by-laws io respeet to titles, if they wish to do so, but any infraction of those by-laws should be brought before the properly consti-

Dr. J. N. Dean (Ardwick). - The case deacribed hy our correspondent ought also to be referred in the first place to Mr. East.

## Qifcerine as an Injection.

Da. C. J. R. McLean (Yeadon) writes, id reply to W. H. B., "I have given glycerine as a rectal injection in a number of cases with very satisfactory results with a common glase syringe such as is uaed for urethral injections."
Mr. Winlian Prowse states that glyeerine is quite as effectaal in stimu lating the rectum when it, is diluted with an equal quantity, (or more) pation; all that it roes is to causc a peristaltic cure for bahitual consti (the rectum) only, and certainly does not remore any can of the lower bowel (the rectum) only, and certainly does not remove any cause existing higher upi not even In the transverse or descending colon.. The injection can easily bemade with a small iodia-rubber bottle, taking care to wash it out and
drain. drain

Toleravee bf' Largie Dóses of Morphine.
Dr. Phintas Pitps langrord asks as to the quantity of morphine which may be given aubcutancously with impunil 5 in a case of carcionoma uteri. He has a case where injections bare been given since March last in doses rangiag from one-sixth of a grain to twelve grains daily. The latter quantity has been administered for the last three months, 20 minims of a 1 in 5 solition being injected thrice daily. During the last three weeks beneficial effects seem to have ceased, as far as relieving pain and obtaining sleep are concerned. Ten days since his patient made up hermind to give up the drug. as she seemed to obtain no benefit from it. Strange to say. she has not apparently suffered from its loss, and she is now better than she was two mooths since. lle states that she bas hat one bad attack of morphinomania which lasted she ceased having morphioe this last time she was sun was stopped. Before somiting ceaseding morphioe this last time she was suffering from iacessant has apparently no great prostration. The vomiting has now ceased; and elie has apparently no pain, and is sleeping well, and taking. more nourishment than she has done for some time past. She is very much emaciated, but her mind is clear and memory gond; no diarrhoea.
** It is difficult to frx with precision the degree of tolerance of opium. Idiosgnerasy and habit vary greatly in their influeuce.

Treis for Towns.
R. HUGMFs (Bala) asks what kind of trees are most suitalule for tawns, both for sanitary purposes aud heanty.
** The following is a list of trees and shrubs which lave been found to do hest in smoky districts, furnished us by Miss Wilkinsón, Hon. landscape gardener to the Metropolitan Public Gardens Assuclation, 83, Lancaster Gate:

Plane (one of the best for London,
but does not thrive in north country towna)
Poplars (very quifk growing)

## Ach

Sycamore
Silver birch
Lime (is often attacked by vermin)
Morse chestnut

## Beech

Purple beech
Tulple tree
Tul
If has been found by expericace that for London planting plancs, poplars willows, aad in some places eilver birch and flowering shrubs prow bett than any others. "\% places eilver birch and flowering shrubs grow bette

Appeals to the Refetoleat.
Drg. A. M, MacRaE and R. Ross (Stomoway):-The hetuefts of the Society for the kelief of Widows and Orphans are, we are' informed, confloed to subscribers. The case woult, however, probably come within the ecope of the

British Medical Benevolent Pund, and our correspondent had better in the first place apply to Mr. Bdward Fast, 16, Úpper Berkeley' Street, Portrian Square, London, W., Monérary Secretary for cases.

## Cngstipation durisg Preg.ascy

MR. Whllay Prowse, in reply to "Rholarh," who asks for is remeite for "co stipation in pregnaney. recommands the administration of 10 Prussian tincture of colocynth pulp. (with or without the aniseed) in the mineglassful of water at 'hedtime twieg' a week; it is the-best remedy, for strength of the patient, and care shomid be raried accoriltug to the age, and to produce one solid eqacuation, and not more not to overdose-sufficilut

Dr. W. Fussey writes : In reply to " Rhubarbi" I'vould airise him to try cabcara sagrada, twenty to thirty minims of the fluid extmet, two or three times of giycerine as an injection; 1 have ased it cannot epeak too highly of the use of giycerine as an injection; 1 have used it very freqnently of late of the use my first trial of it was two years ago, when 1 preseriher one dre, although diluted with a tablespoonfin of water, and used every one drachm-with a little water, and u日e a syringe of palcanite harrel : this holda about hall an ounce ; thringe of valcanite with a'glass shape to that on a child's bali an ounce; fo this a bone rozzle, similar iry least two and a half inches in length; an ordinary The, pozzle should be at

號
ca. gr, ii-jil, as he hagate) reconmends: ext, casears gagrada with pil. thei ca. gro ii-jii, as he has found it most bedeficial against obstinate constipation
in pregnancy.

Dr. Spencer SmyTH (Forest Iill) recommends a pill containiag cascara, capricum, and nux vomica.

Dr, D. A. Fraser (Totnes) thinks "Cont Praccuce,
geon's combination chair, made hy' Mr. W. Harris, cabinet maker, Espr's surBurnham, likely fosoit: ; complete £5 Ja. in oak or mahoganyser, Esplanade.
T. H.-Duelaux on Biskra Pustule (Bubletine de.

Chantemesse (Anricles de l'Institut Prastcur de la . Sociele de Biologie, 1888) November, 188\%:
C. J. R. M.-If our tacrrespondent refers to licence for carriage and man serrant, there is no exemption by reason of thelr being decessary to practice. This is one of the hardshlps of the carriage tax, as one of the hardships of the inhahited house duty is that full duty is charged on a house where a profession is carried oo. whereas two-thirds of the duty only, ars parable where there is a shop. - If he allodes to income tax the expenses of his, carriage horse and man-serrant are a professioval expense, aur as such may be deducted. See for further particulars Cbapman's Income tax: How to get it Refunded, to be obtaitied st 25, Colville Terrace, W. To send. in his accounts to the surrejor, he shoald get forms for balasce, sheets, aud three years're-
turos at the same address.

## "PseṫDomayia."

ALETHES (Cambridge) : Lying, hike theft, may he a symptom of insanity Either of them must be taken in conjuoction with other sympitoms, and the Whole condition and all the circumstances of the individual crse be talsen into consideration. Lying alone, or theft aloue, would not constitute insanity.
Prichard and others hare described cases of so-called "moral iusauity" (not $a_{\text {n }}{ }^{\text {happily chosen name), to which lying (unusual to the patient) was one }}$ among other symptoms.

## NOTES, LETTERS, ETC.

## Reciprocity of Peictice

Dr. EDwafin Drummond (Romé) writes I very much doubt if ay gool is likely to, arise from a petition to the Swiss Federal Goverinnent on the'subject of permission being given to Euglish medical meu to practise in Switzerland,
I. had a correspondence some years ago with tlie Swiss autheritics at a fire when I thought of alternating my winter work in Rome with summer practice in the Engadine. Although influeutially supported by our own embersy, I found that, if I practised in Switzerland at,all, it onust be sub rosa, which my ewn dignity forbade.
I had a like difficulty ahout Homhurg, where may narie wis not allowed to appear in the Kurliste, aud where my right to practise was denied unless I passed a "Staats-Examen." The late Lord Ampthill did his best to procure me a pecial permission, but in rain, although the shrewd Teutons vid not disdaia in advertising Homburg to refor to $\mathrm{m} \boldsymbol{\mathrm { J }}$ artieles on the baths, ellamato. etc.
It is not sufficient to have ohfaiued a German dagree. The Stants-Examen is essentlal, and yet half the prosperity of Homburg is due to English money: Foglish visitors wnuld prefer an Euglikh plysician, but he can only practise ouder penalty. The Germati physicitu practisiag in Bingland can easily obtain snma sort of diploma on easy thrms froa ono of our own'corporations. and if hedid not he would not bo likely to be nolestert.
The Italian law seems to me the frost equitahle: No one, can attenil Italians in Italy without a degree frotin an IaMan inniversity, but any medical man of a foreign nationality can attend foreigners in Italy, provided that be shows himself to be legally qualified to practise iu his own eountry when calted unon by the anthorities. To this is due the circumstance that whereas whed rcme to Rome 1 was the fourth English physician, there are now eight or nine. Still 1 feclisire the I Ialian Iaw is. the best snlution of the difficulty,
and might very well be adopted at home.

## Tes Title of Dr.

llowrstas writes: Luur reply to "Anrtous One"." in the Jourksal. of February I1th. that the lioyal Collego of libysicians of Eilinburgh has aiways discourged lts Members and Lientiates from nsing tho titlo of Dr. Is quito erroneous.
la 1805. Dr. Grace, of Thornhury, wrote to the Secretary of tho College, nakling for Informuthou on thes subject. The ofticial reply was that "he was ras a Licentlate) lugally entitled (by the charter) to call himself doctor, and to add the prefix on his thor-plate, etc" (zee the Journag, February ith, 18s3). This sucretary was the aist hgushe
a member of the General Medical Counubity discourages the assumption of At tho present time tho College umbubtedly discourages the assumption of any other title than that of physidan by its ilceutiates, biterstand that the alter the fact that for many years it gave canthates to understand communiHeence carried with It a righ
catlons thil prefix was used. Members will make a note of the law as lalil down by tho College iu thulr letter to Dr. Grace.

A Sactety fur Sepplixy Clothfs to Cuildrex in IInspitales
Mrs, H, Goonwry Sthiptexson, Honorary Sepretary of tho Soclety for Making Clotties for the Stek Chitirea in London Hospitals, will be glad to receive Clotications for mombershlp, and to supply rules, patterns, and all further appriculars on recelpt of two stamps and a letter addressed to her at 26 , particulars on recelpt al now over 1,000 members of the society, and parcels Dorset Square. There are now to twenty-ive institutions in turn. Fixeh memof clothes are sent monthly to twenty-Lve insly, and to provide her own mateber is required to supply four garments yeary, and to provide her own mate rials, but no subscr
various hospitals.

Womex as pharmacists.
Mra, Isadel la S. Clark feer, herself a pharmaceutical ehemist, recommprds pharmace at an employment for women, in an interesting paper on the subjharmacy in Alanta for thla month. There are at present ten women pharmacists joct in Alaldnta for this month. There are aty present of the Pharmaceutical Society, whom are in husiness. on the registry of the Pharmaceutical of the othern, some hold appointments three in Fogland and one in Wales: of or two give private lessons in pharin hospi
macy.

## Cahriages for Removisg Invalids.

Messrs. M. and J. Peanimg, 14 and 15 , Iliding IIouse Street, Langham Place, London, write: We uotice in the Joursal of February 18th an illustrated article from Mr. Wichard Davy, of the Westminster IIospital, in the last paraarticle from .hr. Hichard "ays. of that lately no regard has been मiven to the graph of which ine slat," we may beg leave to mention, as must be known to most of your readers, inst for the last fifty years our invalid's cot carriages have heen used for that purpose, and with such gratifyiug results that not one single con for that purpose, and wita sueh graidyug resansit has been one single complaint of an lojury done to an iavalid during transit has been Scot land, and to the CoatIncnt.

Ootlard, andiages have the advantage of conreying an invalid from bedside to
edside without having to be moved off the couch, no matter how far the hedside without having to be moved off, which occurs in other carringes, of taking the patient out, and transfering him to a railway carriage or guard's taking the patient out, and transferring him whe the runs a great risk of taklug cold ang much sliakeo.
vag. where halso mention that we never have auy inconvenience with the railray companies; on the other hand, they laclitate our object by oven allowing our casriage to be placed in the middie of a train to lessen the little hip onf that may ensue ; but ns we madie of a train to lessen ecial mears of strapping our oration duced to a miolmum.
We shall have the greatest pleasure in showiug and deseribing our carHages to $3 f r$. Richard Davy or any other medical gentlemao laterested in the rageest of the removal of Invalids, nnd we are sure that we slanll conviace object of the removal of invalics, anderes all others, and will continue to them tha partronage hitherto lestowed on us by the profeasion.

## InIoshrcrisy To Quinine.

II. G. II. writes: A patimnt who consulted me the other day after I had preicribed for him suddenly asked me if i had oritered him "qu!nlne" in any form or other, and on hiforming him tinat I had not, I askod him the reasoni. "Why or well, he gaid. "I really cannot take it. I bave tried it several "Why? well, he said. " and every time it produces the same effect." namely, fintolerable ltch-
 ing all over thr body, hut more particularly the hands, hetween the fingers, which lasts for alout t wo or three hours. The first time he tried it was about nitue years ago, with the same result. then as now, and every time that hic takes it cunawares, of course, as he will otherwlse not take it upon any account) he lias this most fearful feching of which he complalned. In alt "Therapeutica" artleles upor quinine, ete., that I have read, I have not aeen this mentioned. I wanted him to iry a dose or two, with the intention ofen this merntioned. Intense lichlog: tut nothing would lnduce him to try it, nithough he said he wisheal so mich to be atle to take quinime.

## COMMUSICATIONS, LETTERS, ete., have been received from

J. Walters, M.B., Reigate; Dr. Longlord, London; Surgeon 1L. G. Wyatt, Curragh Camp; Messra. Ingramand layle, London; Dr, O. Coleman, Sur(woa; Dr. Webb, Neully-nur-Sutne; Miss F. Wilkinson, London; Mr, 12. II. Johnston, Bungay: Mr. J. M. Balfour, Moniaive; Mr. S. J. Liliey. Ieleester; Mr. T. J. Verrall, Mrighton: Dr. A. M. Pdge, Maru hester: Mr. H. Williams, Liverpool; Dr. J. Wight, Aberdeen; J. Ferguson, M.B., Perth; T. II. T. Pullin, M.B., Sidmouth; Dra Eiwarder, London; Mr. A. W. Mayo Robeon, Leeds: Mr. A. Jurey, Paris; The Secretary of the income Tax Repayment Agency, London; Mewsrs. Pally, Kelly and Co., Redruth; Mr. M. Sharman, Lelcester; Mr. W. V., Bridge P, Purandhec, near Moona; Mr. I. V. Kally, London: Dc.D. A. Friarr, Totnes; Mr. W. Berry. Wigan: Our Swlss Corroapondent; Veslcal Calculus; Mr. J. G. Horder, Oardifi Mr. T.
S. Filis, Gloucester: Dr. D. A.C. ILood, London; Mr. J. H. Thomas, Wol-

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## REMARKS

## ALBUMINURIA A FREQUENT RESULT OF SEWAGE POISONING.

Bx GEORGE JOHNSON, M.D., F.R.S.<br>Emeritus Professor of Clinical Medicine ; Consulting Physician tolking s<br>College Hospital.

It is notorious that a great variety of diseases may result from drain poisons. With our present system of drainage a town sewer may contain, not only excremental mátter in various stages of decomposition, but with this may be combined the specific contagia of such communicable diseases as cholera, typhoid, scarlet fever, erysipelas, diphtheria, etc. That typhoid fever, some forms of diarrheen and dysentery, diphtheria and varions forms of sore throat, not presenting the specific characters of diphtheria, may result from defectise drainage is a matter of daily observation. I have seen several cases of profuse purulent discharge from the inflamed mucous membrane of the fauces demonstrably the result of septic semer poisoning. In other cases, with less apparent inflammation of the mucous membrane, the lymphatics beneath the jaw have become swollen and painful, and in one case this resulted in an abscess.

Pleuro-preumonia is another form of acute disease which not' rarely may be traced to the same cause. I have seen many instances of this. Last summer 1 was asked by a friend to see his groom in a mews at the West End of London. The roung man had been in good health until the day before, when, without previous exposure to cold, he tras seized with a rigor. I found him with a temperature of $104^{\circ}$, the pulse and breathing were rapid, and he had pain in the right side of the chest. Although the physical signs had not then become developed, I felt sure that the disease would prove to be pleuro-pneumonia, and I at once sent him to the nearest hospital, St. George's, where, under the care of Dr. Whipham, the disease took the usual course, and ended in a speedy and complete convalescence. He had come up from the country with the rest of his masters establishment a fortnight before, and bad slept in a room close by a filthy untrapped closet. Looking upon this as the septic source of his disease, 1 had a double reason for insisting upon his prompt removal to the hospital: first, that he might have hetter attendance; and, secondly, that he might escape from the poisonous atmosphere in which his disease had been contracted.
The coachman, who had come up at the same time, and who occupied an adjoining room, after feeling unwell for some days, got an abscess in one eyelid.
The coachman's mother, who was acting as honsekeeper and nurse, immediately after the removal of the groom, had a rigor, follower by severe pain in the limhs; temperature, 1020 I sent her at once into King's College Hospital, Where, in a fer days, the pain consed, the temperature becanie normal, and, she was convalescent.
There can, I think, be no question that these three distinct forms of illness, occurring within a ferr days of each other, were the result of septicamia, from the one common source of drain poisoning; and the master, on being informed of the insanitary condition of the premises occupied by his servants, at once gave orders for the defective drainage to be made good.

In addition to nther forms of disease, the result of drain poisoming, I have met with a number of cases of alluminuria which hare theen clearly traceable: to that cause, and the main object of this communication is to direct attention to the fact that amongst the many causes of blood contamination and cousequent albuminuria, Fewage poisoning is a by no means infrequent one.

The orcurtence of a case of typhoid or diphtberia in in house would, as a matter of course, excite attention to the drainage and the water and milk supply. 1 am anxious to show that, in the absence of other probable exciting canses of alluminuria, the possibility of sewer poisoning should be constantly borme in mind. It is needless to insist upon the practical importance of discorering the exciting cause of a disease and thereby enabling the patient to aroid continked exposure to the morhific agency.

Case $1 .-$ The following typical case mas sean by we with Mr. Galton, of Brixton, and Dr. Langford, of East End, Finchley; on January 3rd, 1887. Mr. L. H., aged th, had heen ailing on anit off since August, 1886, but he had been worse diring the last month. There had been soreness of the throat and neck, with occasional rigor and a temperature of $102 .^{\circ}$. A week before mt visit the urine had been tested and found highly alhuminous. it was now turbid with urates; specific gravity 1030 ; contained (as ascertainerd by Esbach's method) 7 grammes per litre of albumen, and when cleared by warmth many small hyaline casts, with some epithelial and leucocyte casts, were seen. The urine was scanfy. the palse full and throbbing; on cedema. The patient ras of temperate habits, he had not been exposed to colld, and in the absence of other apparent exciting' cause I expressed my conriction that drain poisoning had been the cause of the sore-thrnat, occasional rigors, and albuminuria. On subsequent inquiry; it mas found that serrer gases had been escaping into his honse from two untrapped waste pipes. one connected with a washing basin in a lavatory, the other with a bath, and linth going direct 'into the drain. At the time of my risit the patient was staying at the house of a relative, and he remained there montil he recorered. He was treated in the usual way by rest in bed, milk diet, warm baths, and purgatives. In abont a week the albumen began to decrease; in three weeks it had entirely disappeared. and it has not recurred. I saw him in May last rear and in January of the present year, with Mr. Galton, for another complaint, and on each occasion the urine was found to be quite normal.

It is highly probable that if the canse of this man's illness had not been discorered and removed, continhed exposure to the sewer poison would hare resulted in an incurable disorganisation of the kidners, as it had done in several cases that have come under my observation.
I mill now give an outline sketcle of three of these cases, omitting dates and details, the publication of which miglat give pain to the relations and others connected with the cases:

Case II.-A national schoolmaster consulted me at my house. He had been out of health for a vear. For six months the urime had been hlond-tinged. Now specific gravity 1010 , slightly H bodtinged, albumen 3 grammes per litre, many epithelial casts, and some blood-tinged. Thére was a double aortic murmur at the base and a single systolic mitral at the apex. A miodified collapsing pulse (see Chapter xxiy of my Merical Lecture' and Essay. "On the diagnosis of co-existing aortic and mitral incompetence"). The legs were nedematous: there? was much dyspnoea!' he mas pale and emaciated, and hopelessly ill. It is prohable that the double valrular disease was a result of uræmic endocarditis. He was living in the basement of a schoolhouse, where there was 'conclusire 'evidence of a blocked drain in the fact that after a rainfall tlie area was always flooded. His wife had suffered from dysentery foon after they entered the house four years before, and ofteli since from diarrhoea. The doctor who attended her for the dyseritery said they ought not to remain in the all-drained honse. I winte to the clergrman who sent lim to me, and expressed my conviction that the illness of his schoolmaster was cansed by the insanitary condition of the schoolhouse. The poor man wasi total ahstainer, and had been exposed to nn other probahle exciting cainse of disease.

Case mí-Mr. W., aged 35, had enjored unintemnpted good health until, two years before 1 saw himi (in Decemlver, 1897), he went to live in a recently bnitt honsé a few milés 'from 'London. From that time he began to suffer from disoriler of the stoniach and bowels, with almost constant diarrhea. On two occasinns, in 1886 and 1887 , while he was amay in Scotland for three'reeks. these troublesome sympthins entirely passed a way, hut they reappeared within a fetr days after his ret imm linme. Six wẻks hian fore $\mathrm{m}_{\mathrm{y}}$ visit general dropsy appeared, and then the urine. Fhich had not hefore heen examined, was foind to contain a large amount of albumen. It was of the rather light colour indicătire of chronic disease, specific gravity: 1020, and contained fifteen grammos of albumen per litre-the largest amount I hare ever found. It deposited a eloudy sediment montaining numerous hyaline and nily casts, with seattered nily cells, -In the absence of other probulbe exciting cause of the perial disease, I inquired about the drainage. There were two clhsets in the small house - one on the ground flonr, the ot her on the first Hoor near the patient's tredrom. The patient's sife had ocensionally noticed a had smell, and a friend two often visted them had complained of an unpleasant "parthy smell" Whenerer he
nteral the house. A case of typhoid fever had recently occurred on the prennises. 1 expresed a decided opinion that a drain noieon was the rause of the remal disense, and advised that the condition of the drainage should be thoroughly investigated.
-I have since learnt from the gentleman whom I met in consultation, and from the patients wife, that after my visit the Irainage was examined, with the following result. Ceppermint water having been poured into the upstairs closct was at onco Wetected by its odour in the hall; and beneath the hall floor thare was found a defective joint in the soil pipe from the closet, so that rewage had escaped into the earth upon which the floor f the hall rested. The sitting room, which was generally occudied by the patient and his wife-they have no children-opened uto the smail hafl. Here then is the explanation of the "earthy sinell" which had often becu noticed; and I hare no doubt that ihe chronic diarrhea and the albuminuria were directly due to the same cause. The fact that the health of the patient's wife, who had been even more continuously exposed to the same poison, had not apparently suffered, is quite consistent with this explanation of the hushand's illness. We have frequent opportunities of observing that out of a number of persons exposed to the same morbific acency, only a small proportion become seriously idl. Additional evidence that the diarrhoa was excited by the serer poison is afforded by the fact that this symptom, which had continued until the time of my visit, and for some days afterwards, ceased almost immediately after he left home to stay with a friend for five reeks. The defective drainage was made good during his absence, and during the fortnight since his return home there has been no return of the diarrhoes. His general rondition, too, is reported to have improved, and the albumen has diminisbed by one-third.

Case ir.-Miss B., aged 35, had been more or less ill since she had undertaken the management of a country hotel six mouths hefore I saw her. During the last six weeks the urine, which had not before been examined, was found to be blood-tinged. At the time of my visit the urine was brightly blood-tinged, specific gravity 1012, contained albumen ( 8 grammes per litre), and deposited aranular and hyaline casts and oily cells. The secretion was rery scanty. The patient was very pallid and feeble; there was frequent vomiting; temperature $10^{\circ}{ }^{\circ}$; much dyspmoa, with a rapid and feeble pulse. The prognosis was most unfavourable. When I baw her a second time three days later, the symptoms were worse; there was almost complete suppression of urine, and she died on the following day.
This lady was in good health when she took up her residence in the hotel. The drainage was found to be bad, and the drains were apened and repaired while sho remained in the house. I have no doubt that the illness, which commenced soon after, and which culminated in fatal degeneration of the kidney, was the result of frain poisoning.
The medical attendant who sent me the rccount of the defective drainage which was discovered in connection with Case 3, ended his report by aaying: " 1 very much doubt whether the profession at large is sufficiently alive to this subtle cause of albuminuria."

It is hoped that the publication of these illustrative cases may serve to direct more general attention to this frequent, though often unsuspected, source of renal disease.

In connection with this subject, it is not without interest to remark thet amonget the numerous diseases which may result frmm deffective drainage and consequent sewage poisoning, dipht,neria is, in a very large proportion of cases, associated with Hlbuminuria, a fact which Dr. Wade was the first to nake known.
The history of such cases as have been here briffly recorded serves to illustrate a principle which cannot ho too mueh insiated upm, namely, that the treatment of eymptoms by drugs forms lut a small part of the art of healing, and that nup of the main nhjects of rational medicine is to trace disease to its caune. What a melancholy exhilition of unscientific impotence is the attempt io arrest hy opiatea and other astringenta a diarrhoca, the result of perpetually inhaling a septic drain poison:

It can scarcely be douhted that the diarrhomand the alhuminuria having such an nrigin are the result of a physiological effort ly the howel and the kidney to aject the poison and ite noxious liroducts from the eystem; and it is obvious that an essential condi*ion of succasaful treatment in such cases is the discovery and remoral, or aroidance. of the exciting cause of the symptoms.

## SI. Thomas's Hospital was risited by the Queon of Sweden on Tucsday last.

## LECTURES

## SUPPURATION, AND SEPTIC DISEASES,

Delivered at the Rpyal' College of Surgeons, February, 1858. By W. WATSON CHEYNE, F.R.C.S.,

Hunterian Prolessor: 'Surgeon lo King's College Hospital, and to the

- Paddington Green Cbildren's Hospital; Examiner in Surgery
at the Untversty of Eainburgh.
Lecture 11.
We have thus found that these pyogenic cocci are constantly present in snppurative affections; that they, can cause suppuration both in animals and in man, as evidenced by experiments; and also by the microscopical observation of the changea which occur at the seat of infection; and, further, that true acute suppuration does not occur naturally when these organisms are absent... It would therefore appear as if, with, the discovery of the pjogenic organisms, the etiology of acute suppurative affections was satiofactorily sottled. This, howerer, is hardly the case, for the followingi considerations, among others, render it crident, that in most cases other factors in addition to the micro-organisms must come into play. Thus we find a great variety of morbid processes caused by the same organisms. The staphylococcus pyogenes aureus can set up a superficial inflammation of the skin, a boil, an abscess, acute ulcerative, endocarditis, or even pyxmia; and the streptococcus pyogenes causes rometimes phlegmonous inflammation, sometimes peritonitis, sometines puerperal fever, and sometimes pyrmia. Then, adain, we have the fact, on which 1 have not as yet dwelt, that, in order to produce these suppurative affoctions in animals, various conditions, such as the injection of large numbers of the micro-organisms, are essential.
That these organisms are not of themselres able in most cascs to sct up these suppurative diseases is evident also from the fact that they are frequently present in the blood without produciag any suppurative affectious. Thus Ogston states that in cases of septicxmia in man the micrococci are present in the blood, and are excreted in a living state in the urine, and he makes, no mention of the occurrence of, secondary abscesses. Ogston's statement has been, confirmed by von Eiselsherg, who examined the blood of almost all cases in Billroth's clinigue who were suffering from septic fever, and was able to demonstrate the. presence of staphylococci and, streptococci, most frequently of staphylococcus pyogenes albus, in the blood; and yet apparently no abscesses formed. In the case of acute osteo-myelitis also Garre has found the pyogenic staphylococci in the blood, although the patients did not suffer from abscesses in more than one situation. In connection with acute osteo-myelitis, perhaps the most interesting observations as showing that these organisms may exist in the blood without doing any. harm are those in which children have been born suffering from this disease while the mothers, through whose blood only the organisms could have come, have apparently been in good health. As an example of this I may mention a case published by Rosenbach in a paper on acnte osteo-myelitis.
E. A., aged 30, was delivered of her fifth child in June, 1858; she had been married ten years, and all her other children were living and healthy when born; she whs not aware of having suffered nny fright or injury to account for the disease in the child's leg. The latter, a full-grown boy, was lorn dead at full time, and had apparently been alies quite recently. Altention was at once drawn to the right Ieg, which was swollen and showerd distinct fluctuation both in front and behind. Immediately helow tho patella there was, a bulla on the skin; the whole leg had a marked erysipelatous claracter, and on making an incision a large quantity of pus was evacuated, and it was then found that the greater portion of the soft parts of the leg was destroyed, and that there was scarcely any muscular aubstance to be seen. Further investigation showed that almost the whole of the periosteum of the tibia was detached and the bone was in a state of necrosis. At the lower part a small portion of the periosteum was inflamed, but still adhering to the bone; at the upper part the epiphysis of the tibia was almost entirely separated from tha
ahaft, and was only connected with it by a few membranous threads.

Then we lave a very interesting paper by Escherich on the presence of pyogenic eocci in the milk of women suffering from puerperal fever. In a considerable number of these cases be demonstrated the presence of the same pyogenic cocci in the milk from both breasts, and in these cases there was every reason to believe that the organisms had reached the milk from the blood; more especially there was an entire absence of any disease or ulceration of the nipple; and yet in these cases there were apparently no abscesses either in the mamma or elsewhere. Escherich's observations have been confirmed by Longard, and both of these investigators have made experiments on animals which had just brought forth joung, which show that very shortly after the injection of these organisms into the blood they appear in the milk.

These pyogenic cocci have also been found in the blood in various febrile diseases, and not necessarily in association with suppuration. Thus, in searlet ferer Loefller found the streptococcus pyogenes, or an organism indistinguishable from it, in the diphtheritie membrane in eases of scarlatinal sore-throat, and lie observed that in some cases these organisms penetrated from the surface into the body. Fränkel and Freudenberg hare also investigated the organisms of searlet fever, and lave found that the streptococcus progenes is present in the blood in a considerable number of cases, without, howerer, apparently giving rise to any suppurative or septic affections.

I need not go into further details to show that these microorganisms do not necessarily of themselves set up suppuration and septic diseases when present in the body; in the following considerations sufficient evidence of this will be brought forward.

## Conditions Necessary for Infection.

The conditions which are neeessary to emable these organisms to live and act in the body may he considered according as they ehiefly affeet the body, or according as they chiefly affect the microbe. We hare also some conditions-such as temperature, season of the year, locality, moisture, etc.-which must be grouped under a third heading; for, with regard to these, we do not know whether their influence is due to some action which they exert on the body, or to some effect which they produce on the microbe. In considering these conditions, it is not possible to draw a sharp line between the rarious groups, beeause a number of these conditions are almost always combined in the same case; but I shall, as far as I can, endearour to aroid repetition, and at the same time to treat of the rarious facts under their elief headings.

Had time permitted, I should have liked, before entering on the consideration of these conditions, to hare traced the fate of the pyogenic organisms in the body when they fail to get the upper hand. And we should hare found that these organisms disappear in a very remarkable manner from the blood; that they are, in fact, apparently rapidly killed in the blood. or deposited from it in various tissues and organs, or possibly exereted through the various excretory glands. The rapidity with which some organisms disappear from the blood is very remarkable; it is in many cases a matter merely of minutes, certainly of an hour or two ; and this disappearance of the orgauisms from the blood must be due to an aetive destructive action of the constituents of the blood on them: mere unsuitability of soil is not sufficient to account for the rapidity of the phenomenon. We should also lave seen that there is good reason for believing that these organisms may be excreted by the rarious exeretory glands, although this is a matter about which there is still considerable dispute. That they are so excreted by the kidneys is shown by various observations; and this is an important point to remember, as probably explaining certain eases of pyelitis occurring in pationts who have never liad any instrument passed, and whose urethre and bladders are perfectly normal, the oceurrence of these cases being explained on the suppposition that the organisms had entered the blood in a living state, were excreted by the kidneys, and afterwards, as in the example of which I showed a drawing at last lecture, found a suitable pabulum in the urine and grew in the pelvis of the kidney. As regards excretion from the mamma, I have referred to the observations and experiments made by Fscherich and Longard: and these facts are of interest in connection with mammary abscess, as slowing that the organisms which set up these abscesses may arrive at the gland from the blood, and either grow in the tissues or in the acini of the gland after exeretion; although without doubt the great anajority of abscesses of the mamma are
caused by the spread of the organisms inwards, either along the milk-ducts or from cracks in the nipple. We should also have seen reason to believe that the salivary glands, more especially the parotid, occasionally take part in this exeretion of pyogenic organisms, thus again offering a possible explanation of the not infrequent occurrence of abscesses in the parotid gland after suppuration elsewhere.

The study also of the exact mode in which the body carries on the battle with the microbes, more especially the study of the inrestigations which hare been set on foot as the result of Metschnikofta experiments on phagocytosis, would have furnished ns with much interesting and suggestive material for consideration, and we should have seen what an important part the leucocytes play in the destruction of miero-organisms and in the limatation of inflammatory affections, although the evidence does not as yet seem to be sufficient to support Metschnikoffs idea that these cells act by taking up the organisms into their interior, and there killing them.

I must, howerer, omit the consideration of these matters, and pass on to the discussion of the conditions which enable or hinder these organisms to act; and the first condition, and an essential one, which we have to notiee, is that an opportunity must be afforded to the organisms of resting for a time in the part in which they exert their action. If they are floating in the blood current they must be arrested at some part, and not only must they be arrested, but, as we shall see, they must find, at that spot, conditions suitable for their growth.

Embolism.-Such mechanical conditions, causing the arrest of organisms, are brought about by embolism, thrombosis, injury, etc. The importance of arrest of organisms has been beautifully shown by Ribbert in some experiments which he performed with a pathogenic species of mucor. When the spores of pathogenicaspergilli are injected into the blood, deposits are formed in various organs, and also in large numbers in the rarious muscles. In the case of mucor, however, Ribbert noticed that while the spores, when injected into the blood strearn, gave rise to deposits in various organs, the muscles remained only slightly or not at all affected. On looking into the matter, it was seen that the spores of mucor were very small, much smaller than tliose of aspergillus: and Ribbert thought it possible that the reason why masses oecurred in the museles in the latter case and not in the former, was that, on account of the larger size of the aspergillus spores, they were canght in the capillaries of the muscles, while the mueor spores passed through them. He therefore sought to increase the size of the mucor spores before their injection into the blood, and this he did by keeping them for a short time in a nutrient fluid, at the temperature of the body. As a consequence, the spores swelled up and commenced to sprout, and when he found, under the mieroscope, that this had oceurred, he injected the material into the circulation. The result corresponded entirely to his expectations ; in eontrast to the control experimente, he found that in these cases fairly numerous deposits of fungi were present not only in the organs but also in the muscles of the baek and extremities.
Referring, however, more especially to experiments with the pyogenic organisms, we hare several facts of a similar nature with regard to their action on rabbits. The injection of moderate quantities of staplyylococcus pyogenes aureus int the circulation of rabbits is followed, as a rule, only by alscesses in the kidneys, the other organs appareutly remaining uuaffected; but a number of experiments which have been made, among others by Ribbert, on the production of myo- and endocarditis in these animals, hare shown that abscesses can be set up in other organs if the pyogenic cocei are attached to gross particles, which eannot pass the eapillaries of these organs. Thus, Ribbert was able to produce myocarditis hy using a cultivation of staphylococeus pyogenes aureus on potatoes if he took care, in removing the cultivation from the surface of the potato, to scrape off also the superficial layer of the potato itself. If this mixture of potato granules and organisms was rulbed up with water, so as to form a fine emulsion, and then injected into the cireulation, the result was the production of deposits of organisms in the museular tissue of the heart, as well as in other organs, leading to nyocarditis; if the particles of potato were very fine, only inyoearditis resulted, but if they were coarser, endocarditis occurred as well.
Bonomé inrestigated nine cases of gangrenc of the lungs in man, and found in three of them staphylococeus pyogenes aureus alone, in fire staphylococeus pyogenes albus alone, aud in one both organisms together. He tried to set np gaugreue of the
limg-in ribits lne the iujection of these organisms into the circulatfon, but he failed to do so if only the cultivations of thes nyganisms were employed. He'succended, howerer, by taking pieces of tha pith of the elder tres, breaking them up into verr line fruguents, mixing these fragments with the cultivation of the progenic organisms, and then injecting this mixture inte the jugular rein. The result was mumerous deposits of frocer in the lungs, leading, as shom in the last lecture, to extenHive eougulation necrosis of large tracts of these nigans, and, as a conserphence, to extensive gangrene. Injection of the fragments of pith alone cansed no effect.

In the aance way luijs fomm that if he injected a small quantity of a fund cultivation of staphylococcus pyagenes aureus into the cuningural byes of rabluits smppuration did not result, and he couchatel that the reason was that the cacci were carried away too 'guickly hy the lymph stream; for if we soaked sterilised cotton threads in the oultivations, and then intrnduced portions of these theneds into the anterior chamber of the cye, suppurative panophathalmitis nccurred.

The last experiment that I shall mention is ono hy lawlowstry, when fonnl that, by the simultaneous injoction of sterilised cinmahar, amb of cultivations of slaphytocuccus pyogenes aureus into The circulation, he promeed nlucesses in various organs-infact, the typical picture of pyemia.
The great importance of these facts in oxplanation of the etiology of promih will be at once crident. Whether cases of pyamia vecur in man, like those described by Koch in the case of rubbits, as the result of the growih of cocci in the bloof, their entanglement of homb-corpuscles, and the conspptent formation of emboli, we do not know ; but it is very doubtful if this takes place, for the samo cocci which suem to be the canse of pysemia may, as me have said before, be -riten present in the blood in considnablo numbers without causing ahapess or embolism. It is easy, howerer, to understand that the orlimary progenic cocci matr canse pymain if they enter the Inoon attached to portions of hloal-clot, or other'solid material. This. in facl, is erident from llu experiments mentioncd, and thus the impertance of thrombesis und ombeliem as factors in the production of pyemia is clearly ustablishel. These emboli are not always necessarily embolicomposed of detached portions of bloodclot ; in some casps, probably, especially where the streptococous byogenes is the active agent, the organisms grow in the lymphatio ressala, and the emboli are formed there and arrive at the blood with the lymph stream. Troluhly in pyomia other factors also depraseion of vitality, possibly also greater virulenco of the gerganistn: but it is evident from these considerations, and 'from the clinieal amd pathological facts, that embolism must play an import unt lart. I'yremia must thus be clearly distinguishod from multiju ahocesses, the eo-cullel chronic pyrmia, where embolism does nint probably play any part but where tho cacci are able to circulate in the blood and Rre deposited in some part weakened hy injury ir other depressing eaner.

The mere arrest of these pyogenic organisms in the circulation, although an important fuctor, is $n \boldsymbol{n t}$, howeser, as $n$ rale sumbient of itanlf in lead in the proluction of disease. This is rury well senn in the mase of rablints. Inject a considprable number of promenic cocci into the circulation of a rabhit, and kill it within twent r-four honrs, it will he folund that massen of organisms art? preant in the capillaries of the hungs and other organs of the tmo linurd, and it will be sem, on killing it, thot tho organisms have dianlyparel from treerurions nerahs, wifh the exepption of the kidneys (libbert). Here we have evinence that, ult hough theorganisma had bean alle to stick in the tarious argans, the othur conditions were not favonrable for their griowth and action; and in the cuse of embolism it is prohalon that the material to which the cocci ates aftached of itsolf sids lhair growth hy causing injury to the endothelium of the blowl-resonle, and this landing to the produc tion of a weak spat: in the casm of umboli compmed of bloon-clot the embloli are saturated with the products of the eocci, and are thus atill more likely to injures the part. We must therefore pass on to the consideration of ither conditions which aid the action of these organiams, and the chit-f of these li what we may raguely term genernl anil local depressinn of vitality.

Gemeral anel Incal Depression of Vitality.-That general depression of ritality can emable these organismis to live in the blood for a consideralile time has heren shower ly a number of oxperiments. For ixample, I fourd, in experiments on the presence or
ahsence of orgnisam in the living tisgues, that while organisms rere absent when tho animal was in a good state of health, yet if the vitality of tho mimas was depressed-any, by alministering large doses of phosphorns for sorne time-nrganisms could be found at times in the hlool and tissues of the body. The samp conclusion must be drawy from tho following experiment. If of s putrefying thuid moticontaining pathogenic. urganissns, varying quantities aro injected into the oirculatiou of animals, it will generally ho fond that after twenty-four hours the organisms have entirely died out in those animals. which received a small dose, while in those in which a larger quautity-say, 1 cubie wis depressed was iajected, in, other worduction, at the same time, of a quality of tho poisonons chemical products of these bacteria, organisme may still be found alive. This is a faet which has been coutirmed by a number of observers; but as I shall have again to refer to experiments from which similar conclusions may be drawn, I shall pazs on to what is much more important for the matter under discussion, námely, the result of local depression of vitality.

A number of experiments show that when tbe ritality of a part has been lowered by cutting off the blood-current for a comparatively short time, organisms grow in that part much more readily and luxuriantly than if the bldod stream had not been interfered with. To mention oue or two examples: according to Cornil, a septic nephritis is readily obtained hy ligaturing the remal arteries for some bours. and then, after romoval of the ligature. injecting pyogenic organisms into the blood-Menbuer's experiments on the artificial production of diphtheria also show, in a very marked manner, the effect of local-depression of vitality as the result of cutting off the blood stream temporarily: Henbner arrested the circulation in the fundus of the bladder for two hours by the application of a ligature to the resical arteries. Ifter removal of the ligature there resnlted inteuse congestion and oedema of the submucous tissue, while, at the same time, as the conseqnence of the temporary inanition, the epithelial cells died; after the cir culation tras amain sestored, there was a groat exudation of blood phasma and cells, in fact, coagulation pecrosis occurred on the mucous surface. Heubner found that if, at the same time that the circulation was restored, sejtic bncteria were injectel into the blood, thoy accumulated in large numbers in the affectelt part of the mucous membrane of the bladder; and set up extensive discase.-In order to obtain these results, it is, howeror, necessary that large numbers of bacteria should be present in the hlood, and this factor can only very rarely come into play in Nature, where the number of bacteria is'seldom sufficiently great: Thus, in ths case of strangulated hernia, evon where the circulation has been arrested for a considerable time, comparatively litth harm is done, and unless actnal gangrenco the bowel wall has ocenrred, bacteria are very seldom formd in the fluid contained in tho sac of the hernia, nor does bacteric peritonitis occur.
In conclusioni, I may mention an experiment of Cornits, whe states that. if a slight nfphritis is sot up. either, ly cantharides or in'some other say, and if then pyogenic orgamisms are injected into the hloorl, a septic nephritis occurs. This hast experiment foals us to the consideration of a very important factor in the froduction of local ilepression of vitadity-mavelv: in llammation. dismosing enuse of theso suypurative tionensa looked on as a prehold that intlammation leads to the formation of 'as weak spot Whire hacteria can setthe and develop; and that, while inflimmatime can lif set un by other causes than micro-orgunems, tho pyogenic cocri are verre apt to become adhed to it, aut then smppuration results. - On the other hand, in ald times, when wounds were allowed to hecoum sontic, it was semerably hehl that the pationt was sufer when the surface of the wound hal become covered with granulafions than before pramulation lad taken place. Whe Jave also sepn, in combilering the anatorny of ahsenss, that as the granulation tissun incrased in amount, sis the penperation of the orginismis into the houly was rendered more diflente, ant they reminad mores and mbre limited to the intariar of the alosess. in the case of arysipelas, the cessation of the inflammation sumem to stand in some relation to the accumulation of lomencytes in the part. In the case of tubercles, also, which consist of a central thas nf epithelioitt cells mul an onter robll of leucocytes. I believe
that the extemal citcle is purely an intlaramatory cirela; Trat importance incle imiting tho eprend of the cubele, and is a that preliminary immamation is not essential to enable tha pill. genic organisms to act is shown by many facts, such as fors and lookhardt's experiments on thomselves, ani' aimilar experi-
ments performed by Grawitz with reference to acne contagiosa of horses, where the organisms which are the cause of the disease produced it when rubbed into the skin.

To explain the facts of the case, I must shortly recall the chief points as regards inflammatinn. Inflammation which has gono on for some time may be divided into thuree stages. In the first stage We have the preliminary dilatation (or it may be, in some rare cases, contraction) of the ressels, the increased flow of blood through the part and along with this, increased flow of lymph, soon followed hy slowing of the circulation, and ultimately by inflaminatory stasis, with, at the same time, exudation of blood plasma and corpuscles. In the second.stage the irritation is continued, and the tissuo originally attacked by the inflammation is remored and its place taker by granulation tissue. In the third stage the irritation has ceased, and retrogressive changes oceur, leading to the formation of a scar.

If we consider the state of the tissues in these threo stages Fe sce that in the first stage, as was long ago pointed out by Sir Joseph Lister, the vital activity of the tissue is suspended, the functions of the tissues are, sof to speak, paralysed; in other words, the tissuc has become an extremely weak tissue, and one unable to resist in any way the entrance of the parasites. In the second stage this meak tissue has been removed, and its place has been taken by young, vigorous, healthy granulation tissue, which has probably great power in repelling the attacks of the organisms. Lastly, in the third stage this granulation tissue is getting older, and becoming converted into less actire tissue. The first stage of inflammation is partly defensive and partly reparative, and always oceurs after every injury. The second stage may be looked on as a purely defensive stage, the irritant still continuing to act. In the third stage the irritant has gone, and processes leading to permanent repair take place. The relation of inflammation to infection may perhaps be best illustrated by regarding it as an instance of instinctive action. The first effect of the irritant is to damage the part, and the first result is dilatation of the blood-vessels and increased flow of blood and lymph; the part, in fact, is flushed with blood, as if an attempt Were being made to wash away the irritating cause (Landerer). This is a process which is probably constantly occurring in our bodies with satisfactory results. If the irritant continues to act it is very sonn found that these attempts are ineffectual, and the nest instinctive method of protection is to get rid of the injured tissues and to supply their place by young, strong, henlthy tissue -granulation tissue. Finally, wlien the irritating cause has been got rid of, the vigilance of the part is, so to speak, relaxed, and the tissues proceed to develop into a less active and less vigorous tissue, namely, fibrous tissue.

Clinically, the organisms enter during the first and last stages, more especially during the first, and not, as a rule, during the intermediate stage, unless, indeed, while growing outside the new tissue, on the surface of the wound, they can so injure it as to reduce it again to the position of a weak tissue-to the first stage, in fact. This is very well shown in a series of experiments mate by Iluber on the localisation of virus. Huber performed his experiments on rabbits, and set up inflammation in one ear by rubbing in croton oil, the other ear being left intaet for purposes of control; the infectire material employed was virulent anthrax bacilli, and these were introduced into the body as far as possible from the seat of inflammation, namely, at the root of the tail. According to the stage of intlammation which le desired to study, Huber applicd the croton sil before or after the infection with anthrax bacilli. The result of these experiments was, in tho first place, that the bacilli were not found outside the vessels in the tissnea of the inflamed part in any stage of the inflammation; and, in the second place, that their presence inside the vessels was dependent on the stage of the local affection. Thus in the first stage, where there was inflammatory odema, this stage reaching its leight in about seven hours and a lialf. there was a very marked increase in the number of the bacilli in the capillaries of the inflansed part, as compared with the number which were presont in a similar part of the opposite ear. As the inflammation passed intn the second stage the number of lacilli in the capillaries of the inflamed part gradually diminished, till, when this stage was at its height-after forty-eight hours-the bneilli had completoly disappeared, althongh they were present in large numbers in the capillaries of the other ear. During the third stage, where the inflanmation had subsided, and where new tissue was being formed, bacilli again appeared, and were found in cousiderablo numbers in the newls-formed ressols: Ultimately, when the
scar had been formed, there was no difference as regards the number of bacilli in the capillaries of the scar and the number in the capillaries elsewhere.

It has been found, as regards the pyogenic cocci, that if they, are circulating in the blood, the induction of a severe inflamman tory action does not lead to their depasit in the part, while if the inflammation is leas severe, they can apparentls pass out of the blood-ressels and set up suppuration. Thus, linne coneluded. from lis experiments on suppuration that a riolent inflammatory action did not produce a lucus minoris resistentia, but that the slighter injury caused by the chemical products of the bneteria themselres sufficiently weakened the part to enable the organioms to grow in it.

Acute osteo-myelitis and local-tubercular diseasea frequently stand in some relation to injury, but they are not, as a rule, attributed to severe injuries, but usually to some slight blow or sprain. In a phthisical individual fracture of a bone or some other severa injury is not followed by the development of a local tuberculosis, whereas a slight sprain is very commonly mentioned as the exciting cause of such a process, the probability being that the severu injury sets up too great reaction to enable the organisms to act, while the slighter injury simply weakens the heart.

Cold.-Another point which has been much discussed, in relation to inflammation and suppuration, is the effect of cold. It is generally assumed that cold is a frequent cause, or at least a very predisposing cause, of inflammation, as, for example, in the production of pneumonia. That cold may play an important part as one of the tactors in that disease is very probable, but it is needless for me to say that we are constantly subjected to violent changes of temperature withont the production of inflammatory disease, so that it seems as if when a result is obtained some other factor comes into play.

That cold can cause inflammatory affections where the conditions are suitable is evident as regards the external surface of the body from the production of chilblains, the tissue thus weakened being brought into a condition rendering it rery liable to attack from organisms.

As regards the effects of cold on the internal parts of the bouy, some rery interesting observations have been made by Lassar. í number of rabbits were shaved, or deprived of their hair in some Way or other. These animals, when kept at a suitable and equable temperature (about $20^{\circ} \mathrm{C}$.) and well fed, remained in goo ${ }^{3}$ health. But on being taken out of the warm room and plunged into icecold water for from one to three minutes, then dried carefully, chafed, and warmed agaiu, they almost alwars, in the course of one or two days, showed albuminuria, increasing at a later poriod, often to a great extent, and accompanied by the presence of hysline cylinders in the nrine; at the same time, the rectal temperature was as much as $1.5^{\circ} \mathrm{C}$. ahove the normal. These auimals often recovered from the albuminuria, but were again similarly affected when again exposed to cold. On microscopical examination of the organs, they were seen to be in what Lassar terms a state of "interstitial inflammation;" the organs chiefly affected being the kidneys and liver, but also in some cases the lungs, muscular tissue of tlye lieart, and the slieaths of the nerres. In the organs it. was seen that there was uo degeneration of the interstitial tissues, but the blood-vessels, t'specially in the lungs and lirer, were often enormonsly dilated, the arteries filled with thrombi, and large numbers of leueocytes in the tissues in the neighbourloond of the reins. The effect of cold in these expesiments seems, in fact, to he the production of what is probably a weak tissue, and one therefore ljable to attack from organisms.

As to the relation of pyogenic organisms to animals acted on by cold, I only lunw of experments by Grawitz on the relation of peritonitis to cold, but his experiments are not eufficiently satisfactory. The shaved the skin of the abdomen in young animals. covered it for from half to one hour with Farm compresses, and then, suddenly removing these, allowel a dranght of ice-cold air to play on the part for twenty to forty minutes. This caused mo had effect on the peritoneum, nor was any bad result produced on that membrane when orgumisms were simultanoously injected into the intestinal canal or into the blood; and in one experiment the cocci were injected directly into the abdominal cavity, also without setting ul peritonitis. "In the last experiment, however, the cocci were injected three-quarters of an hour before the commencement of the exposure to cold: and it is highly probable that, under the cirmmstances, they hat died or had been removed by the healthy peritoneunn hefore the application of the cold, and this is the more likely to have beon the case soeing that the
activity of the feritoneum was probably increased ns the result of the warm compresses applicd to tho skin over the abdomen.

Injury--An important cause predisposing to the occurrence of suppurution is injury, which probably acts in two ways; in the hrst piace by setting up the early stage of inflammation, and in the second place hy leading to effusion of blood, and thus enabling out of the wence which way be circulating in the hoon to pass for their development.
The effect of injury is well slown in experiments which hare leen mate on the production of acuto endocarditis. In order to induce this disease in animals by jujection of the pyogenic coeci into the hood, it has been found either that the number of eocei employed must he very large, or that they must be attached to gross particles, as las alrealy been mentioned, or that some injury must be callsed to the valres before their injection. Wyssokowtsch and others have performed experiments of this kind, and have found that, by intraducing a rod into the jugular vein, ousulere able to cause laceration of the valves, and that then, ousubsequent injection of staphylococci into the blood ulceratire is no doubt necurred. Tho eftect of the injury in this instance is no donbt chiefly to lead to loss of resisting power in the endo-
thelial and connectire tissue cells, as the result of the early stage of inflammation infuced by it.

The relation of injury to certain inflammatory diseases in man is generally accepted, and I need only instance the case of acute osteo-mjelitis, which is frequently attrihuted to an injury In experiments en animals, on the production of acute osten-myelitia, it is, as a rule, necessary not only to inject the pyogenic orIf this is done, especially where large numbers of cocci are introduced into the circulation, the animals generally die in from twelve to fourteen days, much emacraterl, and showing pus at the seat of fracture, pus in the medulla, and necrosis of lone, With regurd to man there are several cases on record in which the reIation of injury to this disease is rery strikingly shown, and the fact that the disease necurs much more often in males than females, and especially in yonng males, is usually attributed to the fact that injuries are sustained more frequently by boys than cirls. At the same time, the number of cases of acute osteo-myelitis in man, in which the direct relation to an injury can he satis jury, though it plays a part in sone instances, is not an essential condition for the production of the disease is shown by its occurrence after acute fevers, and also by the fact that it is limited, as a rule, to certain favourite seats. When, however, the disense affects bones, or parts of bones, which are unt usually attacked, a history of injury ur cold can generally be obtained to explain its
recurrence in theae abinmal situntions.- ln the case of wounds also we must not forget that the injury doue to the surface of a wound during an operation ly the knife und the manipulations sets up the early stage of inflammatinn, and that thus the surface of a whund is, for a fuw hours at any rate, a weak surface, and unable to resist attacks from orgnnisina.
That one great explanation of the value of injury in aiding the occurrence of suppurative diseases is the extravasation of bloon from the wessels is shown in a very striking manner hif experiments on srmptomatic anthrax, u disease to whe that this disease is allude in detail presently, I may say loere that this disease is into the circulating hood; in ordor to produce it the hacilti must act in the eellular tissue. After injection of the organisms inta the bloor the animals remain well, and tha hacilli very snon disappear: if, linwever, shorty after the injection of hacilli into the honat, a bruise tis produced in some part of the boly, the lacilli fhood, istic tumours, the apread of the disunse, and its fatal termination. -In man it is amrtimes seen that brises in weakly individunls are followed by suppuration, and l have already published the erse of a drunkard who had abluminuria, and was in a very low atate of halth, and who, whenever he received a braise, deyeloped an abscesa at that part. In his depressed state the juygenic cocci were probably able to live in hishlood, and the injuries, by setting up the early stage of inflammation, and thus furthor weakening the tiasurs, and also by leading to the effusion of blond containing the organisms, gave risp to the formation of abscesses.

Irritating Chemical Substances.- Incther important cause of depression of vitality is the action of irritating chemical sub-
stances. The effect of these clemical substances is probably that when concentrated, they destroy the vitality of the tissue by their canstic effect, and, when more dilute, they set up the early atage of inflammation, which also occurs in the former case in the ricinity of the dead part.
The effect of thesesubstances in procuring.a weak spot at which the organisms can develep is, no doubt, the explanation of Kocher's results with regard to acute osteo-myelitis in dogs. He found that if digestive disturbances were induced by the introduction of large quantities of septic material into the intestinal canal: and if, at the same time, a bone was injured by the injection of ammonia, or other irritating chemical substances, into it, acute osteomyelitia occurred at the seat of injury; while the injection of the chemical substanco alone ouly produced temporary reaction. These experiments, however, were only few in number, and are not completely satisfactory because it is possible that the organisms spread in along the needle track, and did not reach the part from the blood.-It has also been found that if irritating chemical
substances are injected subcutaneously into rabbits, the same time large numbers of aneously into rabbits, and if at the same time large numbers of pyogemis cocci are injected into
the suppuration frequently occurs at the seat of injection, the suppuration going hand in hand with the derelopment of the yogenic organisms which have reached the part from the blood.

Many of the former experiments on the production of suppuration by means of irritating chemical substances which frequently resulted in growth of micro-organisms in the part and, as a consequence, the occurrence of suppuration, show how the presence of irritating chemical substances placed the parts in a condition which diminished their resisting power against the action of micro-organinto - Crawitz and de Bary found that if croton oil was injected into rabbits subcutaneously, it caused inflammation and sometimes
suppuration; if, however, the suppuration; if, however, the pyogenic organisms were also pre-
sent, suppuration always occurred; altheug these sent, suppuration always occurred; although these cocci alone in
small numbers are subeutancous tissue of do produce suppuration in the normal If 1 mny venture to apply rabbits.
wounds, it seems to me that if the views facts to the treatment of to develop as to the importance of a granulation wall attempted against micro-arganismis are correct, it is questionable whether in the case of wounds which have become septic, it is well to wash them out with irritating antiseptics, as is so often done at present That it is well to remose the decomposing discharge, both by free drainage, and also by washing out the wound in some cases, is of course evident, but, where strong, irritating antiseptics are employed, unless they are able to kill all the micro-organisms present in the wound, and thas render it aseptic, the result of lation injection might be, 1 think, that they will injure the granulation wall, and thus produce a weak spot in which the pyogenic may be able in the wound can develop, it has been found that in cases of tubercular disease of joints and bones accompnnied by suppuration, general tuberculesis-more especially tubercular meningitis-occurs by far most frequently where the simuses have become septic, and more especially when, in addition, these septic Hence it seems to me that, excent by futile antiseptic injections. able ground for believing that the injection of these antiscputics into septic wounds will completely eradiente the organisms, it is better in a moid the use of irritatingantiseptics suehnscarbolic acid,
und it in und if it is thought well to wash away the discharge
snme fluid which will not injure the granulation wall

Except in the case of wounds, the ehemical substances which aid in cmabling the bacteria to gain a foothold are the products of the organisms themselves. That various bacterial products are highly poisonous is now well known, and in the ease of putrefactivo and pyogenic organisms, these products are able not only to canso local trouhle, but also to set up fever, to depress the vitality of the patient, or, it may be, even to cause death. With regard to these general effcets of the chemieal products of bacteria, it is unnecessary for
me to enter me to enter into further detail, for the fact is now so well kuown that in most books on surgery we find, in addition to septicsemia ant pyemia, a third group of general septic diseases due to the
action of these producta described cation or, as Dr. Muthews Duncan has termed it, "sajuremis" may therefore at once pass on to the local effects of the products of bacteria and their action in enabling the organisms to live and multiply in the part.
In some experiments which I performed recently with an
organism described by Hauser, under the name of protens mulgaris -an organism not uncommonly present in putrefying materialsI diluted the growth in gelatine, with a certain amount of water before injection. In some cases, however, I used for dilution, instead of water, boiled meat infusion, in which the same organisms had been growing, that is to say a fluid containing the products of the growth of these bacteria, and I found, for example, that while子 cubic centimètre of the mixture prepared by the addition of water never killed the animals experimented on, where the dilution was made to the same degree with the boiled meat infusion, they died from the same dose after about forty-eight hours. In the second case a larger quantity of the products of the bacteria, these products being very poisonous, was introduced than in the first case, and to this we must ascribe the difference in the result.-In experiments on guinea-pigs with the cholera bacillus, Hueppe has found that infection occurs more certainly, and with less material if there has been preliminary action on the intestine of the poisonous products of the cholera bacilli, or even of the ptomaines of other bacteria; and Flügge and Wyssokowitsch hare shown that bacteria which are not usually pathogenic in the animals emploved for the experiments can penetrate into tissues previonsly weakened by bacterial poisons.

Among the products of the putrefactive fermentation, there are two substances which have been found to be highly irritating, namely, cadaverine and putrescine, and I have previously referred to the experiments made by Grawitz and Scheuerlen, which show that, as the result of the injection of these substances, inflammation and suppuration may occur, according to the strength and quantity of the solution employed. Grawitz found, further, that suppuration certainly occurs if, at the same time that a comparatively dilute solution of cadaverine is injected, pyogenic cocci are introduced.-The chemical products of the pyogenie cocci are also. according to Grawitz, irritating to the subcutaneous tissues of dogs and rabbits, when introduced in sufficient quantity and concentration. Thus, he found that if sterilised cultivations of pyogenic cocci were injected in large quantities into dogs-for example, 4 cubic centimetres of a sterilised cultivation of staphylococcus pyogenes aureus-suppuration occurred, the pas being free from organisms.
As regards the products of these pyogenic cocci, Brieger, who is the great authority on this subject, states that he has been unable as yet to obtain any toxine from the cultivations of these organisms. Cultivations of staphylococcus pyogenes aurens on moist 3 taphylococcus pyogenes albus; the latter produces, in addition, considerable quantities of trimethylamine. Streptococcus pyogenes likewise produces ammonia and trimethylamine. That the ammonia must irritate the tissues is, of course, evident, and it is probable that in the nascent state it is still more irritating; while as regards trimethylamine, though it is not an alkaloid, it is in Brieger's opinion probably a descendant of, or very closely related to, the ptomaines, and, when present in considerable quantities in tbe body, is very hurtful to it. These organisms also prodnce a peptonising ferment, and can thus peptonise and dissolve coagulated albumen, and this property is of great importance in suppuration. When sown in milk they rapidly set up a pure lactic fermentation, leading to the production of large
quantities of lactic acid, as the result of which the mill conguquantities of lactic acid, as the result of which the milk coagulates if kept for some days at the temperature of the human body. This prodnction of lactic acid is an important fact, as it probably also takes place sometimes in wounds, causing acidity of the discharge, and in abscesses causing the well-known watery pus. Whether ptomaines will yet be found in the case of pyogenic cocci we cannot say: but the occurrence of ferer in suppurative
diseases may possibly, as Baumgarten suggests, diseases may possibly, as Baumgarten suggests, be explained
simply liv the increased tissue change, as the result of their growth, the products thus formed requiring increased combustion, and perhaps also stimulating the thermic centres, and lience causing elevation of temperature: and in support of this view Baumgarten refers to the fever which occurs in trichinosis, where there is no idea of any action of ptomaines.
Seat of Invoulation and Anatomical Arrangement of the Part. -Much depends also as regards the effect of these organismar, on the seat of inoculation and the anatomical arrangement of the part. These conditions are of importance in two ways. In the body, they will only grow in certain tissues: and in the-sccond body, they will-only grow in certain tissues; and in the sccond
place, in some cases-especially in the case of the pyogenic organ-isms-the resultiug disease varies chiefly according to the anato-
mical arrangement of tho part in which the organisms are growing.

Some organisms, such as the higher fungi, seem only to be able to act if they are present within the capillary blond-vessels or large serous sacs; the bacillns of malignant oedema acts only in the cellular tissue; the micrococcus of erysipelas possibly only in the lymphatic ressels. As this is an important matter, I may refer in some detail to a few examples which show the great influence which these conditions exert on the development and the character of the resulting disease. In some experiments which I performed with Ilauser's proteus rulgaris, I met at first with some very interesting difficulties. I injected the cultirations into the backs of rabbits, and I found that the results obtained varied in a manner very difficult to understand. After considerable inrestigation I found that the differences depended on the seat of inoculation; that, if the material was injected superficially to the muscles, a different result might be obtained to that which followed injection into the substance of the muscles. Thus quantities of a cultivation which, introduced into the subcutaneous tissue, would only hare caused a large abscess, were followed, when injected into the muscles, by the death of the animal; and, further, a small dose, which monld have been without apparent effect on the subcutaneous tissue, was sufficient to produce an abscess when injected into the muscles. What the explanation of this difference is I am unable to say. It is possible, however, that some chemical substance in the muscle is readily broken up, and readily gires rise to poisonous compounds; and that this substance does not exist, or is present in less amount, in the subcutaneous tissue. Similar differences, according as injections were made into the subcutaneous tissue or into the muscles, were noticed in the case of sereral other bacteria.

Perhaps the best example of the great influence exerted by the seat of inocnlation and anatomical arrangement of the part is furnished by the disease known in this country as "black leg." in Germany as Ratschbrand, and in France as symptomatic anthrax. This disease has been incestigated by a number of observers, chiefly by three French ohservers, who have worked together, namely, MM. Arloing, Cornerin, and Thomas. The disease affects chiefly cattle and sheep-more especially cattle-and is characterised by the rapid appearance of irregularly limited swellings of the skin and muscular tissues, these swellings being at first rery painful and tense, but rapidly becoming painless and crepitating. Tbe disease is accompanied by fever, which is often very high, and it is almost always fatal, usually after a duration of from thirty-six to forty hours. The cause of the disease has been demonstrated to be a bacillus which grows without oxygen, and thus belongs to Pasteur's class of anaërobes. These bacilli are remarkable in rarious ways, more especially in the conditions nnder which they exert their pathogenic action. In order to cause the death of the animals, the organisms must be introduced either into the subcutaneous tissue or into the muscles; if they are injected into the reins or into the bronchi they do not cause the death of the animal: but apparently after a time die out, leaving the animal, however, protected against the disease. And $\bar{I}$ hare already mentioned that if, after the rirus has been injected into the veins, a bruise is caused in some part of the body, the organisms reach that spot from the blood, grow there, and sct up the disease. If inoculatious are made quite at the tip of the tail in cattle, the result is only a moderate amount of reaction, even when large quantities of tho material are introduced; the more proximal on the tail is the seat of inoculation. the more readily is a result obtained. The explanation of this fact is apparently partly the dense nature of the connective tissue at the tip of the tail, and partly also the low temperature of the part. That the density of the tissue in the tails of cattle interferes with the spread of the infection is evident, becanse sheep, at the tips of whose tails the cellular tissue is loose, react markedly on inoculation in that part. As regards the temperature of the part, it has been found that if, after moculation, the tail is wrapped in -bad conductors of heat, the local temperature cau be so raised that considerable reaction occurs, and vice versâ in the case of sheep. if, after inoculation, the part is kept cool by the application of ice-bags, the riolence of the local reaction is much reduced.
As regards the pyogenic organisms, most of them act in the cellular tissue to which they gain access, as a rule, after the destruction of the epithelium. The gonococcus is, so far as we know, the only pyogenic organism in man which is able to penetrate uninjured epithelium ; and with regard to the gonococcus, it is very striking that it only attacks certain mucous membranes,
and npmarently cannot derelop in any other tissuo of the body, unless, perhnps, in the joints in which, according to Kanumeror, it is present in some cases of gonorrhoeal rheumatism. (It must bo said. however, that some investigators have failed to confirm this ohsurvation.) Bumm states that pure gonorrhceal pus may be injected into the subcutnmeous collular tissue without causing any reaction, and that if, after twenty-four hours, an incision is made, and some of the pus which was injected is removed. it will be fonnd that the cells are still in good condition, but that the cocci lave disapheared; this fact is of interest also as showing that pus, apart from the microorganisins which it contains, does not exeft any pyogenic action. Atso, as 1 have previously said, when suppurntive bubo occurs after gonorrhoe, the staphylococcus pyogenes aurous or albus is present in the pus from the gland, and not the gonococcus; suppurative bubo being therefore the result of a mixed infoction, and not a necessary complication of gonorrhera. The samo is the case in abscesses outside tho urethra in conncetiou with gonorrhea.

Kitt has found that, in the case of the coccus of mnstitis in cors. the organisms only exert their pathegenic action when they are jresent in the ducts or acini of the mamma; if injected directly into the tissue of the mamma they cause no suppuration.

The anatomical nrrangement of the part is probably a very important factor in the production of acute osteo-myelitis. This disease is, as we havo seen, due to the action of the pyogenic cocci, and it not unfrcquently stands apparently in some relation to nn injury. But the injury and the presence of the cocci do not explain the whole of the etiology of the disease, more especially they do not oxplain why it is that the disease is almost entirely limited to certain bones and to certain parts of bones. Not that most of the bones in the body mny not, under certain circumstances. become the seat of this affection, but as a rule the disense has certain very farouraite seats, such as the femur, especially its lower end, "tho upper and lower ends of the tibia, the upper and of the humerus, nnd the radius. Now these are the bones rhich grow most rapidly, and in them the diseaso commences during the period of growth, and most usaally in the neighbourhood of the epiphysial line, where the growth is of course most active. Thus the fact that the bones are growing helps apparently to determine the seat of the disease, possibly because there is $n$ large amount of young indefinite tissue at these parts, possibly also because there are plenty of blond-vessels, and also perlinps becauso the circulation in the ends of the bone is apparently luss rapid than elsewhere (Neumann). It is interesting also to note, as ahowing probably the inflnence of similar conditions, that when this disearo attacka infants, it is usunlly limited to the neighbourhood of the epiphisial lino. giring riso to acute epiphysitis. At the same time, the nnatomical peculiarities will not suffice to explain all the facts because in growing animals, belonging to species not insensitive to this poison, the disen8e is not produced by injection into the circulation, unless some other determining cause, such as injury, comes into play: and becnuse also the discase not infrequently occurs after acute fevers, sach as typhoid fever. As regards the nnatomical arrangement of the part in its relation to neute osteo-myelitis, all that we can say therefore is that there is some peculiarity in growing bones, not necessarily limited to the growth at the epiphysis, which has an irapertant infuence on the production of the disease.

## PLACENTA PREVIA.

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Tue theory ntil treatment of placenta provia have benn so frequently the subject of discussion, that it may scem to require an ayology for bringing it before the Section. Wut it must, I think, be conceded that the conflicting idcas or dogmas urgel as to the proper treatment prove that the true theory that can alone govern a rational schome of treatment is not yet fairly recognised.

It will be may endenvour to put this fundamental point in a clearer light. I cannot better expose the unsettled and irrational practices that prevail than by brichy stating some of them.

[^36]Some still adrocato the old "accouchement force," puro and simple, or with slight mitigation, and these have tho recent authority of Spiegelberg.

Schroeder, perhaps the greatest representativo. of modern German obstetric science, sums up the treatment thus: "Rupture tho membranes, draw down a foot, aud wait during extraction."

Some conterd that the whole treatment consists in bimanuel turning. This operation finds, as l long ago pointed out, useful application (Iancet; 1861); but it is really the "accouchement furce," mitigated. Some think the whole treatment consists in plucging.
The following criticism by Ludwig Miller in his work on Placenta Pravia (1si7) is, with few exceptions, singularly just: "Smellio did not follow any one method cxclusively, but acted according to the indications of the case in hand. In this ho made a step in ndvance, which places him higher than all his predecessors, and many of his successors."
lt may bo urged generally against tho more rapid or forcible methods that they are fraught with danger to the child. Following the practice of the elder Slmpson and of some of the older teachers, those who advocate these methods assume that the conditions are so perilous to the child that they are justified in learing the child out of consideration, well aatisficd if they, can save the mother
I cannot atop to discuss the fallacies which entangle this argument. I will simply state, as the result of extensive clinical experience and anxious casuistical analysis, that those methods which are the most successful in saring the mother are often exactly those which give the best chance to the child. Here, as -in other of the great clinical problems in obstetrics, the guiding principle should be to seek for a solution which offers the greatest security for both mother and child, not condemning either.

It is no longer permitted to us, without ample proof of clear necessity, to sacrifice the child in order to sare the mother. The cases in which the two lives are supposed to stand in antagonism are vanishing before the light of modern science and skill. And in no conjuncture is this more true than in the treatment of placenta previa. Countless infants have been sacrificed on the altar of false theorics. Hy own experience gives 33 per cent. of children born alive; and that, concurrently with a larger saring of mothers than has been secured by other methods.

1 gross fnllacy, which ritiates the teaching and practice of many men, is to regard the particular manipulation which they most affect as constituting the whole treatment of placenta previa. If they had grasped the true theory, and had the faith that lends to action, they would have scen that there is no one method of treatment, but that severnl operations come into use in accordance with the stage of the labour, and the partioular conditions of the case in hand.
Sinco 1 first sketched mer theory of placenta provia in the Lancet in 1847, and especially since the publication of my Lettsomian Lectures in 1857 , the leading idea of that theory has been largely recognised. Thus it is now ndmitted that there is a welldefined boundary between the. lower zone of the uterus' and the body of the utcrus proper; and that the lower zone is distinguished from the upper zones of the uterus by peculiar attributes.
The theory of placenta previa, developed from mroriginal conception is depicted in the following diagram, (No. i), and is summarised as follows:
The pregnant uterua is divided into three zones: the upper or fundal ( $f, z$, , Diagram 1) ; the equatorial ( $e . z$ ) and the lower (l.z.). The fundal zone is divided from the equatorial by an imaginary line (1-2), the upper polar circle. This line has not been anatomcally demonstrated, nor has it been recognised by anyone but myself; but it serves to mark a distinction, which I belicve is real, between the properties of the upper and the equatorial zones in their relations to placental attachment and to hamorrhage.
The equatorial zone is divided from the lower zone (commonly, of late, callod the lower uterine segment), by the line 3-1. This is Barnes's boundary-line (1847-1857), since then aometimes called Brauncea os intcrnum, Bandl's ring, or Schroeder's contractionsring.

The fundal zone (5) is the seat of fundal placenta, the region of safest rut most typical normal attachment. The equatorial zone (7) is the seat of lateral or equatorial placentn. It disposes, I 1 belicre, to what is called accidontal hæmorrhage, but may bo fnirly regardod as a comparatively safe normal attachment. . This is still more true when the placenta is attached sartly -in the fundal. zone and partly in the equatorial,
seen (6). Danger especially begins when the placenta descends partly into the, lower zone, as at $8-9$. This, constitutes partial placenta previa. The part of placeuta invading the lower zone is liable to premature separation. Complete placenta previa, or placenta previa centralis, occurs when all or the greater part, of the placenta grows within the lower zone, and covers the os internum.


Barnes's boundary line, L8ti-1.857; Brinne's of internum polar circlc is Barnes's boundary line, 1841 -1s57; Branne's os internum. 1872 : Bandl's
ring, 1876, more lately Schredter ring, 1876, more lately Schroeder's contractions-ring), f.. Fundal or
upper zone.' e.z. Equatorial or middle zone. $l$.z. Lower zone or lower upper zone.' e.z. Equatorial or milddle zone. I.z. Lower zone or lower o.e. Os exteramm. 5. Fandal or safe pina. ro $0, i$, Os internum uteri: centa. i. Lateral or equatorial placenta \& Partial pundolateral pla9. Placenta pravia lateralis. 10: Placenta previa centralis.! c.c. Conjugate diameter of brim. c.n, Conjugate diameter of cavity. c.c. Conjugate diameter of outlet. The thick interrupted line represents the position occupied by the fectal head presenting.
In such cases as the last the gestation may not inaptly be called ectopic, inasmuch as the orum, or an important part of it, is dereloped in the lower zone of the uterus, a region pot adapted by
Nature for the process, Nature for the process.
The thick interrapted line in the lower zone marks the position occupied by the feetal head. The boundary line $3-1$ nearly corresponds with the equator of the feetal head, and frequently nearly with the pelvic brim.
I think Bandl hasexaggerated the anatomical differences bet ween the middle end lower zones of the uterus. In specimens that have come under my observation [Drawings by Dr. Barnes were exlibited.] the course of the musculature is continuous, the wall not buing materially thinner in the lawer, zone before labour. of course, under the distension caused by the passage of the head, the lower zone and cervix may be, thined to the extent he
depicts. depicts
1 will
theories copitted as to the cause of the hremorrhage. I willionly.
state briefly some of the conclusions, more or less provisional, at which I have arrived. We may fairly start from two fundamental propasitions: 1. The source of the hæmorrhage is the uterine vessels; 2. These vessels are torn across by the detachment of placenta from its uterine connection. The difficulty is to demon-; strate what causes this premature detaclument. Is it contraction of the uterus, causing such a diminution of its area that the placenta cannot follow? If this diminution of area of the uterina wall be the cause, we must postulate active uterine contraction:s This is usually assumed to take place. No doubt sometimes it. does. I'ossibly the frequent peristaltic movement of the uterine wall may occasionally pass the normal limit, and thus a degree of contraction may occur sufficient to throw off adhering placenta. Possibly uterine contraction more active, even spaspoodic, may occur. But it is a matter of clinical observation that in many: cases hæmorrhage sets in before there has been any obvious contraction of the uterus. It comes on when the subject is asleep: she is awakened, not by pain, but by the flooding. The most fre quent time is at a menstrual epoch. One factor then presents itself: increased vascular tension. This tells upon, the uterineressels and upon the placental rascular system. This tension dist poses to rupture of the ressels. This rupture takes place at, the weakest part, that is, in the vessels running betreen the nterus and placenta.

Another factor cannot be orerlooked. The spongy cellular, structure of the placenta farours accumulation of blood in it. The uterine arteries continue to pump in blood, qut the return iby: the venous sinuses does not keep pace with the inflow. Henees: the rapidly distended placenta becomes larger in area than the corresponding area of uterus. Frequently the distension of the placenta is so great that its carernous structure gives may, andthere is bremorrbage into the substance of the organ. Thus ther placental bulk becoming suddenly too large detaches itself fromthe uterus. This process does not necessarily incolve, in the first instance, contraction of the uterus. Contraction is indeed, pretty likely to follow under the reflex irritation induced. But ift does not always follow, at least not to any appreciable degree. Why does the flooding so often persist? Because, contraction does not set in.

The form of contraction that precails in the lower zone or seg ment is retraction. Longitudinal muscular fibres are continuet ? $_{7}$ from the middle zone along the walls of the lower zone, even intion the cervis and vagina. Their action is to pull up or retract the: lower zone, opening the cervix, thas aiding the driving power of the body of the uterus and the abdominal muscles in canalising the passage and forcing the fotus through it. When this retraetion is retarded there is hæmorrhage; when retraction goes on. well hæmorrhage ceases. An obstacle to efficient retraction is the partial adhesion of the placenta. Detach this, and frequentlyn the vital power not being reduced too low, eflicient retraction sets ${ }_{i}$ in. This is a matter of direct clinical observation, that is, to those who haye the faith and courage to observe, not blindly thwarting Nature by rushing to the brutal expedieat of "forced delivery"." Those who intercept the natural order of a physiological process; are not entitled to give evidence in contradiction of those whon have watched the proeess throughrout. . They are out of court. inn
There is still another condition of the placenta that disposes to; self-detachment. This is alteration of its texture from fibrinous, indurations, fatty degeneration, or other condition impairing tho, natural homogeneity. Some such change is especially apt to occime in the previal flap of placenta. In my Obstetric Operations and in the Systen of Obstetric Medieine ands Surgery, written byil myself and Dr. Fancourt Barnes, I started another theory of the cause of premature detachment and homorrhage: this is that the placenta, growing more rapidy than the corresponding uterine, area, shoots out beyond this area, and so leads to detachment. At has been objected that there is no proof of this. It is truethere is no direct proof; but, on the other hand, it is not disproverl by simply denying it; and the argument from analogy with the historyl of tubal ectopic gestation is rery strong. In cases of this kind the rupture of the sac aud hromorrlage take place mainly becausin the sac is not adapted to keep pace with the rapid growih of thei ovm a bout the tluird month; the sae bursts, and there is effusiont of blood. Now I have slown that placentaprevio is a form of, ectopic gestation: It is a legitmatededuction that the processes of both are similar.
The case may be summed up in the following propositions:-TT 1. The hremorrange comes mainly from the bercduterine surface. and is arterial, (Simpson thought it was from placenta.)
2. In the progress of many labours, there is a stage when the thooding is spmemmously arrested. (The old dommans, that the hemorrlage was mavoilable, aml must go on until delivery; and this dogma still governs the practice of many men, precipitating them into rash action.)
3. This spuntaneous arrest does not depend upon total detachment of the placenta, nor upon death of the child, nor apon syncope of the mother, nor upon pressure upon the lower segment of the aterns bared of placenta, nlthough one or more of these conditions may favour it.
4. The constant conditions of this physiological arrest are contraction of the uterus, active or tonic, thrombosis, or clotting at the orifices of the vessels, and
5. The physiological arrest of flooding is neither permanent nor secure until the whole of that portion of the placenta which had adherel within the lower zone is detached, this being the portion which is liable to be detaehed during the opening of the lower segment of the uterus to the extent necessary to give passage to the child. The limit of dangerous placental atthechment corresponds to the equator of the child's head (vide Diagram 1, 3-1). Below it, the lower segment must dilate: above it the placental attachment is normal, and the uterine region need not and does not dilate. On the contrary, it contracts to foree the child into the lower zone, which undergoes canalisation, continued by the cerrix and vagina.
This boundary line, revealed to me by close clinical observation and physiological study, has since been demonstrated ly anatomical researeh by others. The illustrations exhibited show this. My boundary line, described in 1847-1857, and many times since, became Branne's os internum in 1872. Eandl's ring in 1876 , and more lately Spiegelberg's lower boundary of contracting part of nterus, and Schroeder's "contractions-ring." I think I am entitled to claim it as my discovery, if priority goes for anything. But 1 go further, and submit that these and other writers, although recognising this fundamental fact of a definite boundary line, and attaching their names to it, have failed to grasp its full significance. Had they formed a clear conception of its importance, they would have drawn the obvions therapentical deductions, and wonld have made it the guiding principle of treatment. Instead of this, their treatment remains simply empirical. Imperfect in physiological coneeption, it is barren in therapeutienl issue. Attempts have been made to define the extent of the lower zone by measuring the distance from the os internum to the boundary line. These are based upon the fallacy that all cases are alike. The uterus and the foetal-presenting part vary in absolute and relative proportions, according to the development of the uterus and tho size of the child. It is idle to pretend to fix a constant houndary line, roeasured by tape or rule. My estimate is based on the observation of enses at term, and the measurement of fotal heads at the equator. Tho true limit is the height from the cerrix to the equator of the foetal head.
6. When this stage of detachment has been reached, by Nature or by art, there is no physiological reason why nny further detacliment or flooding shonld take place natil after the expulsion of the child, when, and not till then, the remainder of the placenta, which altheres to the middle and upper zones of the uterus, is cast off, as in normal labour. This presersation of the connection between placenta and tho hody of the uterus is commonly enough to preserve the child. It is chiclly in the extreme eases of central placenta procia, in which the placenta is in greater part or wholly within the lower zone, or when as not celdom happena, labour sets in prematurely, that the child's life is compromised.
7. Alhesion of the placenta over the os uteri internum impedea the regular dilatation of the part; and, consequently, whilat such alhesinn lasts, the ordinary course of himur is hinilered or perverterl.
8. Injury and inflammation of the uterine structures, partienlarly of the eervix, are especially likely to ensue upon dinlivery in placenta presia. One of the purposes intender hy Nature, in fring tho seat of the placenta in the fundal and equatorial zones, is the preserration of the parts, rempered lighly vaseular by connectinn with the placenta, from distension and contusion attending, the pasange of the child.

The treatment logically flowing from the foregoing fhysiologienl propositions is set forth in the following therapentical propo-sitions:-

1. The greatest amount of flooding frequently takes place 'ct the commencement of labour, and frequently even before there is
any clenr indication of honor; generally at what would have been a menstrual period. The cervix is always, from its being near the seat of placental attachment, highly raveular, and is frequently at this stage very rigid. Any attempt to force the hand through this structure at this stage, to detach the whole placenta or to deliver, must be made at the risk of injuring the woub. The dragging the child throngh the cervix, even when it has not been necessary to pass the lanul into thenterus, is a proceeding affording slender chance of life to the child, and fraught with peril to the mother. llenco the indication to pursue a course of treatment as free from violence or precipitation as possible.


Diagram 2-Showing a flap of pracriat placenta, and the demarcation between the provial and equatorial portious of placenta, correwpondiag with the uterino boundary live. The finger shows how the pravial thy can be detached from the lower zone.
2. The entire detaclument of the placenta is not necessary, and is not to be depended upon, to arrest the hremorrhage. (Since my demonstration of this point, Simpson, 1 believe, abandoned the practice, and I do not think anyone now advocates it.)
3. Sinco the dilatation of the cervical portion must tako place in order to give passage to the child, and since during tho earlier stages of this necessary dilatation hemorrhage is liable to oceur, it is desirablo to expedite this stage as much as possible, ayoiding violence.
4. In eases where labour appears imminent, with considerable
iole hemorrhage, whilst the os internum uteri is still closed, tho arrest of the flooding and the expansion of the os may be promoted by rupturing the membranea and the use of teuts.
5. Since a cross-presentation or other nnfavourable position of the child is apt to impede or destroy the regular contractions of the uterus, which are necessary to arrest the flooding, it is mostly desimble to deliver as soon as the condition of the os uteri will permit. -
f. In some cases the simple use of means to axeite contraction of the aterus, as rupturing the membranes or tho employment of galvanism, may suffice to arrest the hemorrbage.
7. In some enses in which it is observed that the os uteri has moderately expanded, or to a diameter of 1.25 ineh or 4 centimetres, the placenta being felt to be detached from tho lowerzone. and the bomorrbage baving ceased, it is not necessary to interfere
with the course of labour, now become normal. Hæmorrlage rarely persists after full canalisation of the passage.
8. At the critical period, when the total detachment of the placenta or forcible delivery is dangerous or impracticable, the introduction of the index finger through the os, and the artificial separation of that portion of the placenta which adheres within the lower zone, is a practicable aud safe operation. This proceeding is illustrated in Diagram 2, which represents the foetal surface of a placenta drawn from Nature. The flap at the lower part was previal placenta. The shaded line exactly corresponds to the uterine boundary line. The flap itself corresponds to the lower zone of the uterus. It shows the compression of the fotal head. I have introduced the index finger to show how it is made to sweep behind the previal flap to detach it as far as the boundary line.
9. The artificial detachment of that portion of the placenta which alleres within the lower zone will at once liberate the os internum from those attachments which impede its equable dilatation; and, by facilitating the regular contraction of this segment of the uterus, favour the arrest of hemorrhage, and convert a labour complicated with placenta previa into a natural labour.
10. The immature uterus, partly paralysed by loss of blood, cannot always be trusted to assume the vigorous action necessary to effect delivery ; it is, therefore, necessary to aid canalisation by dilating the cervix artificially; this can be done safely and quickly by my caoutchouc water dilator. This has come into general use, and the testimony in its favour is conclusive. But one or tro German teachers say it is not effective. The bags they have tried must be bad specimens, or skill in using them was wanting,
11. Sufficient dilatation being obtained, delivery may, if necessary, be accelerated by forceps, by turning, or by embryotomy, according to the special indications dictated by the condition of the child. If turning be resorted to, I insist strenuously upon the importance of delivering the after-coming lead by the forceps, if there be any difficulty or delay in the passage of the head under manual traction. The forceps so applied takes off the constriction of the imperfectly dilated cervix from the child's neck; and traction hearing upon the head, facilitates moulding, and takes off all strain from the neck; axis-traction also is to be observed. In my hands, this proceeding has contributed materially to the saving of the child.

The measures that come into successive use are:-

1. Rupture of the membranes.
2. Apply a firm binder over the uterus.
3. A plug may be nsed to gain time, but it must not be trusted; watch closely.
4. Separate all the placenta that adheres within the lower zone, and ohserve closely. If no hæmorrhage, wait awhile. The uterus may do its own work; if not, dilate the cerrix by the water bags. Again pause and observe. If Nature fail to deliver, we resort to the forceps, which gives the best chance to the child, or turn.

In following this order of procedure, we strictly follow the law of physiology. We do not force Nature, but obey her. Current medical literature is full of examples proving the value of these precepts, and not a few cases published as illustrations of the success of other methods, especially of turniag, are more correctly explained by the fact, probable in many, certain in some, that in carrying out the operation of turning, the placenta had boen detached from the lower zone. Where the principles enunciated by me have been thoroughly and intelligently observed, as has been done on a considerable scale, as by Dr. Murphy, the success has been unexampled.

An emphatic illustration of the treatment adrocated by me is found in the following summary of the experience in plaenta previa in the practice of St. Thomas's Mospital for 1587 (St. Thomas's ILospital IReports) by Dr. Cory:-"Five cases occurred during the year. In one case there are no particulars ; in two the placenta was partially scparated, and delivery effected by forceps; buth children were saved. In two the placenta was partially separated; version was performed, and the children were lost; all the mothers recovered." Dr. Cory adds:-"The lessou to be learued in these cases is well sliown, namels. never attempt rersion if the head is presenting, and homorrhage has been stopperl by the partial separation of the placenta."

Longinity in Imeland.-Among the deaths registered in Ireland for the December quarter were the following:-Two at 100 years, tro at 103, tro at 10 f , ons at 110 , and ons at 111 years respectively.

## PATENCY OF THE UTERINE CANAL AS AFFECTED BY FLEXION OF THE UTERUS.

By GRAILY IIEWITT, M.D., F.R.C.P.,

Emeritus Professor of Obstetric Mellicine, University College; Consultiag Obstetric Physician to University College IIospita!.

The effect of flexion of the uterus in interfering with the patency of the uterine canal is a subject on which a diversity of opinion cxists. la the healthy normal uterus the tissues surrounding the uterine canal are of considerable strengtl and thickness, and under such circumstances a great degree of bending of the uterus does not occur; but when circumstances are otherwise, and the tissues are soft and non-resistant. possibility of severe bending is greater. When flexion is present, the thickness of the walls of the canal tend to preserve the patency of the canal, but it is evident that the calibre of the tube will be more likely to be diminished if at the same time the walls of the canal are relaxed, soft, and wanting in tonicity.


From the rarious conflicting descriptions of the state of the os uteri internum in cases of flexion, it is dilficult to arrive at decisive conclusions, observations by means of the sound being difficult: tolmake in a sufficiently uniform manner, and the sound itself being liable to alter tbe conditions actnally present.

The following, as a piece of pathological evidence as to the condition in regard to patency of the canal in a case of anteflexion, may be considered worthy of attention.


In the Musenm (f University College there is one of the ferr existing preservel sp ecimens of aeute antetlexion of the uterus. This specmen 1 had before described. Five jears ago the speci-
men in guestion agaiu attracted my atwention, it having becu muanwhile bistcted antern-posteriorly so as to show tho caual. Atr. Silcock kindly had plotographa of the specinuen taken for me so as to exhibit the condition of the canal more completely. The fccompanying druwiugs are the result.

Fig. I exhibits tho bisected antollexed uterus as it hangs susnended, the eavity of tho uterine body being vory evilent, so, nlsa, tho envity of the lower jurt of iho cervix. But the upper part of tha cervical canal for a length of threa-juarters of an inch is baraly risible, and it looks as if obliterated at this situation. In I'ig. 2 is shown the same specimen, bit cords have been attached to the two sides of the apparently closed part of the cervical canal, and it is now seen that the cervical canal is only potentinlly, but not actmally, closed. In point of fact the canal is really excessively compressed in the nntero-posterior direction, the anterior closels in contact with the posterior wall (as shown in Kig. 1), and until opened out by the stretched cords,' was virtually much blocked. It must further he noted that the section of tho caual, which no doubt was intended to be made exactly in the middle line, was renlly made a little to the left of the middle line. The view of the interine of the canal of the cervix in Fig. 2, thertfore, slows considerably more than half of the width of the canal. The shaje of the canal at the virtually occluded part is not circular, but very much llattencl from before backwards; in this case the slape of the canal, indeed, resembles very much the shape of a small, thin, india-rubber tube, compressed at a particular spot between the thumb and finger, and the result is that there is very sreat narrowing in one direction, but a widening in the opposite direction. Comparing, scuiu, the uterine tube with ane of india-rubber under compression, it is evident that the incrensed width of the thbe is of no service so far as patency is fonccraed, so long as the compression in the opposite diameter continues to be exercised. It will be furtler obvious that, so long is the cervix continued flexed, as in Fig. 1, there would be an imparment of patency, which would be reliered or diminished by taking off the compression in the antero-postcrior direction. This might bc done in the way shown after death; during life the straightening of the: canal hy a sound, or a dilator or a tent, would The cffectunl in procuring a free passage ont of the uterus. It is also evident from inspection of the drawings that a forcible expulsive force, that is, uterine contraction, acting on fluid contained in the uterine eavity, would or might be sufticient to npen out the canal at the compression-narrowing spot, and thus to secure an outlet for the retained fluil. It is also evident that any increase in the degree of flexion present would tend to still further close the canal.

Nathing is known of the history of the above specimen, but it "ridently belungel to a rather young woman. The slight indenta(ions in the hody of the uterus are accidental, and due to pressure' of a piece of glass placed so as to expose the interior of the boly of the uterus.

The specimen undoubtedly farours the opinion preyously expressed on the subject, that the pratency of the nterine canal is liablo to be greatly affected by preseuce of marked flexion of the uterus.

## ELECTRIC HLLUMINATION OF THE MALE UREOTHRA BY MEANS OF THE NEW INCANDESCENT-LAMP URF゙TIIROSCOPE. ${ }^{2}$

BE I. IHURRY FKNWICK, F.JR.C.S.<br>Asslutant-Surgeon to tho Lonilon Haspleal and to St. I'eter's Ilospital for Slune und other Urinary Dlacases.

Siscf, April, $1887^{2}$ a simple, practicul, und nost whicient urethroscopo las lacen placenl in tlie liands of the profession, by menns of whime the entire urethra can be brilliantly illuminatemp so that those djseasns of that canal grouped for eonvenience undur the term "glent," which snmetimes proveso rebellinus, and are offen ohscury in their causes, can now lue as scientifically stuelied as they can ho -ffectively Ireaterl.
l have used the instrument in over flfty cases of creet and stricture, and believe it to be the best and the most gene-

[^37]rally useful of any endoscopo yet inverterl, for it can be alapted to every orifice of the body, even to tho cesophagus. The instrument has been inventerd by Leiter, of Vienna, but it is only fair to explain that it combines, in reality, those various additions to Bozzini's "light conductor" of $1800^{\circ}$, which mark tha successive epochs in the developuent of urethral cntoscopy. Thus its general construction is somewhat similar to tho now twenty-five years old endoscope of Desormeaux-Cruise, ${ }^{2}$ but insteal of the lot and cumbersome paraflin lamp of that periol, or the still hatter and more complicated Nifze-Ieiter urethroscope of 1879,4 Schall, of London, las substituted the incandescent lamp. Leiter has simplified the entiro instrument, and has furthermore cleverly adapted a concave non-perforated reflector, which is the bone and marrow of tho lnuovation. Although much good and sound work has been done by Oberlander by means of the Nitze-Leiter urethroscope, oyet that instrument has never found farour or been in general uze, beeause of its costliness, unwicldiness, and complication.


Leiter's Electric Lindoscone for Urellaral Examination.
Construction.-The incandesennt-lampi uretliroscopo is made up of three pieces, $\mathrm{D}, \mathrm{B} \mathrm{C}$, and T . These pieces may be describity as follows: 1. The handle $D$ is made of caoutchonc, and carrices on its upper end a small ineandescent lamp, which is connected with the two binding screws which project from its lower end. A lirht steel spring forms the key. The handle fits into the bottom of tho laninem BC. 2. The lantern BC is a rootless gutter-shaped box, carrying atone end a fixed, obliquely-placed, concare mirror a for retlecting light along the urethral cannula $T$, and at the other the nozzle e for fitting on the urethral tuhes. Two additional and important items of the lantern consist in small perforations around the lamp for ventilating off the heat, and a small morable lens $\boldsymbol{B}$ for myopic or hypermutropic obserrers, 3. A series of urethral cannule $T$ of rarious sizes and longths. (Those supplied at present by leiter are nol long enough.)
A glance at the figure will show that the light from the lamp is cast directly along the tube, nud that the observer's eye, which is pheed at 13, is shielled from the blinding light emitted ly the famp. It is worked hy a small plunge bittery of four cells.

Jirections for Use.-Sclect a long camnuln, and of a size suited to the meatal calibre. Use glycerineas the labricant. I'ass the caunula up to the hilt after infecting n few drops of a 4 per cent. solution of cocainc. livery part of the urethra can now beexamined as the cannula is withdrawn. If the ennoule are marked in inches, a noto of the exact position of tho diseased mueous membrancenn be made for future reference. frequently a (lrop) of mineus, glect, or the: lubricant will obscure the surface of the nueous membrane: a puledget of cotton-wonl on a stylet removes it, hence it is wise to use as little glycerine as possible. Shoult the wool slip off the end of the stylet it will be passed on urination, or may lie remored by a hook-ended stylet applied throngh the canaula.

Capabilities.-The illuminating power is very considerable.

[^38]Esery section of the urethra can be thoroughly examined, and erery detail of its surface can be as easily studied as if the canal were exposed to hright sunlight. Any change can, with practice, be detected immediately: But more than this; every diseased patch can be treated topically without withdrawing the cannula, for the reflector is so deeply placed in the lantern that bougies, on stylets armed with wool or medicaments, can be passad over its summit (Fig. I A, after twisting away the lens $\boldsymbol{s}$ ), and down the cannula in the rery axis of the light. Thus, as in the DesormeauxCruise instrument, the abserver can gorern the mothod and extent of his treatment, and watch the effect at the same time: The urethroscope has never been a popular instrument, and I beliore it is due to this fact that so many of the long-standing, neglected gleets lapse into stricture. It is certain, however, that with a simple and practical urethroscope such as this is, and a greater visual knowledge of urethral disease, we shall have fewer false diagnoses of strieture; and, doubtless, fewer instances of normal urethra "worried into stricture" by unnecessary and harmful instrumentation.

## ABSTRACTS OF THE MILROX LECTURES SOME GENERAL CONDITIONS WITH REGARD TO, EPIDEMICS.

Delivered at the Royal College of Physicians of London, February and March, 1888.
BX ROBERT LAWSON, L.R.C.S.Ed.,
Inspector-General (Retired) Army.

## Lecture I.-Epidenic Inflitences.

After thanking the President and Fellows for the honour done to him by selecting lim to give the first series of lectures under the bequest of the late Dr. Milroy, the lecturer quoted two paragraphs from the testator's "suggestions for consideration by the Council of the Royal College of Physicians in relation to his bequest." In one the opinion was expressed that no question of medical doctrine stood " more in need of strict inductive examination than that of determining with accuracy the part which con-tagion-the communicability of disease from the sick to the healthy-plays in the development and spread of rariousmaladies. ..The correct solution of this problem thus becomes one of supreme importance in State medicine. This cau only be effected by the patient investigation of numerous verified and autlienticated facts in various localities and regions, and under different circumstances and conditions, apart from and previous speculation
and any mere traditional
on and any mere traditioual or cistomary beliefs." In the other a strongy desire was expressed "that more biligent and continued
antentiou may he paid than lins yet becu attention may he paid than has yet becn attempted in this
country to the study of the accurate geograyhy of disenses country to the study of the accurate geography of diseases, together with the exaet chronology of the appearance and persist-
ence of those diseases which are of ouly opecainanal anil temporary ence of those diseases which are of ouly occasional and temporary occurrence; also the exact date of each epidemic prevalence or extra severity of the ordinary endemic maladies in different countries and localitios, together with a brief notice of any exceptional feature or peculiarity claracteristic of each aggrirated manifestation of the malady in question, so that some record of its varring natural history may be preserved for the benefit of future timcs."
Passing then to the subject selected, the lecturer said that the tenns "epidemic constitutiou," "epidemic infuence," "pandemic infuence," were merely conrentional expressions embraing tloose factors which ted to the difusion and intensification of disease
from time to time whlich were not referwbe trom time to time which were not referchbe to the indixiduals
who suffered or the localities in wh icl they
 the statistics proiled by the Medical Department of the army
showed that thoulgh canses of insalubrity were more or less per-
manentl yroent h manently present at rarious stations, severe epidemics of ferer appeared at interrals only, learing the respective stations comparatively healthy duringt the intermediate years, thus indicating the operation of factors during the epidemic yenrs which were in abegance during the intervening periods. From this it was Concluded that the epidemic factor embraced large portions of the earth's surface at the same time, and that recorls of disense orer nus equally extended surface, and for many years iu suc-
cession, were required to indicate the course these factors pursued.

A study of a large collection of notices of the occurrences of epidemics of fever and several other diseases led to the conclusion that in the case of fevers these outbreaks, besides embracing a considerable space in longitude, gave rise to epidemies in tlie respectire localities they inraded, for the most part in a year with an even, or odd number. This conclusion was illustrated by quotations chiefly 1 rom the reports of the Army Medical Department. In Jamaica, for instanee, the number of deaths from ferer in the odd years (I8I7, 1819, etc.) was far greater than in the even years ( 1818,1820 , etc.), while the reverse held goad in Ceylon.

An eramination of the large body of evidence collected led to the further conclusion that epidemics of fever, which became dereloped at various paints, from time tortime, passed uniformly to the northward until they finally disappeared. The length of the course of individual epidemics varied much, but the disease generally appeared in each locality in the odd or even year which characterised it. From the combination of several details the period occupied in passing from the Cape of Good Hope to this country Was found to be about six years.

A large mass of statisties was quoted in farour of the lecturer's views, and the general conclusion drawn was that there is a factor concerwed in the production of fever which determines its appearance at points more and more to the northward in successive years; that this factor revives periodically every second year, or at some multiple of two Jears, passing like a series of waves over. a more or less extensive portion of the earth's surface. These waves can be traced from Buenos Ayres and Cape of Good Hoje in $35^{\circ}$ south, to northern Europe and Iceland, and in longitude. from Ceylon and China to the west coast of America. To distinguish these I hare named them pandemic waves. Of their intimate nature nothing is known at present, but as their position from year to jear seems defined, approximately at least, by lines of equal magnetic dip, it is inferred they may be dependent in some way on that force."

## THERAPEUTIC MEMORANDA.

## SYRUP OF TAR IN WINTTER COLGGII.

TAR is undoubtedly one of the best remedies for chronic bronchitis and winter cough, but the difficulty is to know how to give it. In an article which appeared in the Jocrancl in 1875 I recommended that it should be given either in capsules or in pills made with lycopodium. Both these methods have their disadrantages, and I now use the syrupus picis liquidx of the United States Pharmacopeia prepared as follows: "Tar, six parts; cold water, trelve parts ; boiling distilled water, fifty parts; sugar in coarse powder, sixty parts, to make one hundred parts. Lpon the tar contained in a suitable ressel pour the cold water, and stir the mixture frequently during trenty-four hours; then pour off the water and throw it away. Pour the boiling distilled water upon the residue, stir the mixture briskly for fifteen minutes, and set it aside for thirty-six hours, stirriag occasionally. Decant the solution and filter. Lastly, in forty parts of the filtered solution dissolve the sugar by agitation without heat."
It is stated in most of the dispensatories that the syrup contains six grains in the drachm, but Mr. Tanner, of the Westminster Hospital, tells me that in reality it is not much stronger than the old-fashioned tar water. This, howerer, is a nuatter of little importancc. for by the addition of a few drops of ammonia or other alkali it can be prepared of almost any desired strength. I usually give it in dases of from two to four drachms every three hours, or even oftener. It is by no means disagreable to take, but should the taste be objected to it can be flavoured with syrup of Virginian prune made according to the following formula: "Wild cherry in No. 20 powder, twelve parts; sugar in coarse powder, sixty parts; water, a sufficient quantity to make one hundred parts. Moisten the wild cherry thoronghly with water, and macerate for twentyfour hours in a close vessel; then pack it firmly in a evlindrical class percolator, and gradually pour water upon it until thirtyfive parts of percolate are obtained. Dissolve the sugar in the liquid by agitation, without heat, add the glycerine and strain." The tar is an excellent stimulating expectorint, whilst the wild cherry is not without influence in allaying cough. The efficacy of the combination may be greatly increased by the addition of a little apomorphine. 1 use the 2 per ceut. solution of the Britich

Pharmacoperif，and find that six minims may ho given frequently without exciting maser．Many patients take ten minims per－ fectly well；but in a fes cases，in delicate women especially，it induees somiting．During tho last two years 1 have used this method of treatment in nearly at hundred cases of ehronic bronch－ itis and winter cough，and linve every reason to bu satished with the result．The cough is relieved，＂xpectoration is rendered easier， and the patient usmally sleeps well the very first night．Tho syrup of tar alone without the ajomorphine is admirably adapted for the treatment of the conglis and colds of children，and has none of the disndvantages of preparations enntaining opiates．

Weymouth Street，W，
Wilifar Muriele，M．D．

## CLLNICAL MEMORANDA．

OPIITLALMOPLEGIA FATERNA DUE TO ALCOIFOL．
The common causes of ophthalmoplegia externa are locomotor ataxy．syphilis，diphtheria，and exposure to cold．Though para－ lysis of the ocular museles has been observed in chronic alco－ holism，I num not aware that the condition to whieh the term ophthalmoplegia externa is applied has been met with，and its oceurrence would seem to show that it may be produced by lesion of the nerves as well ns by lesion of the nerve nuelei，aleoholic paralysis having been proved to depend upon peripheral neuritis．
The following ense of chronic alcoholism，with ophthalmo－ plegia externa，is at present under my care．

J．B．，a man，agel 50 ，was admitted into the workhouse in－ firmary on January 2 ath．Ilis relatives stated that he had been drinking henvily for some years；and my friend，Mr．Newton， who attenter him before his admission into the workhouse，tells me that he has been elrinking for years，nnd that the dropping of the eyelids cume on about a month ago，the patient having eom－ plained for some weeks presiously of paius and cramps in his legs．The patient，on almission，was incolserent，constantly ask－ ing for drink，and unable to tell where he was or to give any ac－ count of himself．He was unable to raise bis eyelids，there being dropping of both cyelids，the left leing less affected than the right．There was slight extermal strabismus of the right eye．He was unablo to rotate his eveballs either upwards or downwards， but could move them readily from side to side．The pupils re－ sponded to light and necommodation，but sluggishly，and were small．The knee－jerk was lost on both sides，the plantar reflex increased．There was no paralysis of the legs or arms，but the calf muscles were exquisitely tender on being grasped，and pres－ sure along tho course of the posterior tibial nerves elicited great pain．He could point his toes，and there was no marked weak－ ness of the extensors of the wrist or leg．The first metatarsal bone was fraetured，and he saill this was due to a chair falling on bis fout．The museles of the legs responded normally to faradism and galvanism．Ilis memory was much affected，and he did not linow where he was；he had no knowledge of time or place． When asked if he had been ont he always responded in the affirm－ ative，cleclaring that he had been semral miles．and that he had land several glasses of whisky；in fact，he talked of nothing but drink．He tonk his medieine readily on loing told it was whisky， though he thought the taser of it was very jeculiar ；in fact，lie． thoroughly illustrated the truth of the provert，＂In vino veritas，＂ lis spuecli betraying his previons labits．

Since his admission the patient has mueh improved，being now able to open his eyes，and the lids noly droonine slightly．There is still considerable restriction of tho inovements of the eyeballs， but this is daily diainighing．The patient has had no alcohol sine arlmission．

Birmingham．
C．W．Secklinu，M．D．，M．L．C．l＇．

## SURGICAI，MEMORANDA．

DISLOCATIOS゙ OF THE IUADIUS AND ULS゙』 INWARDS． An example of thls comparaticmy rare aecident seems worthy of leing recorded on account of the clearness of the signs and sym－ ptoms，and more particularly of the methol of its production． A young man，in triving a trap too eharply round a enrnce，capt aizelit，anf was thruwn ont of it on the convex side of the enrye． lie alighter on tha decranon of the left side．The forearm luing thus arrested ly contart with the gromnl，while the rist of his budy，including the left humerns，whs still in projectiln forco，the humens was curried biynad the forearm bonełtowards tho outer
side，leaving the latter bones dislocated inwarls．As usual，the dislocntion was incomplete．Tho following signs were noted： Tho forearm was in a state inidway botween pronation and supi－ nation，and llexed ut tho elbow to an anglo of $135^{\circ}$ ．There was marked bonding of the forearm to tho ulnar gide，giving to the outer border a strongly convex outline，an appearance largely flue to the prominence of the external condyle．This process，with the greater part of the capitellum，was casily felt from tho surface， and so extensive was the laceration of the ligaments on the outer aspect of the joint，that the head of the radius could be separated from contact with the smooth ridge between tho trochlea and eapitellum to the extent of half an inch by forced ulnar llexinn． The head of the radius lad an inclination to displacement for－ wards，and the freedom of its movements was such as to suggest considerable yielding of the orbicular，as well as the external lateral，ligament．The greater sigmoid cavity of the ulna articu－ lated with tho under aspect of the internal condyle，which process whs buried deeply．Very severe pain was complained of at this spot，intensified by pressure and movement，evidently due to the ulnar nerve being pressed．The olecranon，though prominent behind，was not raised above the iuter－condylar line．There was no fracture of any of the bones，and passive movements were not so restricted as in some other elbow dislocations．
Reduction was easily effected by the usual method of placing the knee against the upper part of the forearm，and first extend－ ing，then flexing，the joint，at the same time that the forearm was lifted outwards．When splinted it was thonght desirable to place a pad on the front of the head of the radius to overcome the slight tendency to displacement forwards of this hone．

Thos．Shinchair，ML．D．，F．R．C．S．Esg

## Professor of Surgery，Uneen＇s Collige，Delfast．

## REPORTS <br> 0

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN，IRELAND，AND THE COLONIES．

## BRADFORD INFIRMARY．

A C．ASL OT HYDROPHOBIA TREATEN BX TUE BUIESON JIETHOD． J．D．［Under the care of Divid Goyder，M．D．］
Joor aged 49 ，farmer，a quiet，sober man，had always enjoyed
good health．Abont the end of Angust， 1887 ，he was litien by a strange dog on the outer angle of the left orbit，just under the a of the eyebrow．The dog was killed．Another dog，bitten end just previously，was isolated，but had since shown no signs of rabies．The wound was not canterised，and healed readily in a few days．On October 30 th the patient eomplained of a cold in the head and running from the cyes and nose，but did not com－ plain of these symptoms afterwards．On this day he first noticed a slight pricking censation in the seat of the bite，and complained of＂neuralgic yain spreading from it，and also of headnche on the left side，and spreading across the forehead．＂There wins also some main deep in the neck．immediately hehind and below the left mastoid process，and a stiffuess of the nech about this region and downwards from it．These sensations continued up to 4 pas．of whilst the pricking sensntion became less marloen almost constant． ing of Nosember lst the pritient felt＂cold and starved，＂and in the ovening his wife noticed a strange look in lis eyes，which seemed＂standing out，＂anel also that he was continually＂rasp－ ing＂and drawing in his breath．He described his wall：home that evening as terrible，having to＂cover up his head and walk backwards＂to avoil the effects of the wiad，which＂stopped his broath．＂He exhibited slight spasms on taking somo brandy－anl－ water，and subsequently refused his ten，snying he could not swaltow．In the night he once swalluwed some brandy－and－ water without diffienley；Shortly afterwards he started ur，say－ ing ho folt＂so low and rueer，＂aidding，＂I believe 1 am going to ｜rave you； 1 feel such a vanting here，＂pointing to his chesi， Some warm mitk was offerel to lim，when he gut ularmed，and several titues nttempled to jumy out of bed．

In the mornine hereurel some india－rubler tubing，and throngh this srallowed half a cuy of milk in about half ary hour． Dr．llirst saw him at II A．M．，amb，recomising the nature of his． ctse，allised his removal to the Uradford Inlirmary，where he vias
placed under the care of Dr. Goyder, and of the house-physician, Dr. Vauglan. Dr. Merbert Major and Dr. Mine kindly lent their valuable assistance. It was decided to give the sweating method of Buissou a thorough trial.
On the patient's admission into the ward at G.30 p.m., on November 2nd, an attempt was made to sponge his face, but the pouring out of the water into the basim, as Dr. IIirst had already previously observed, brought on a spasm, and he begged so earnestly to have the jug and basin removed from the room, as he could not bear the sight or suggestion of water, that his request was acceded

Ie complained of "catches" in his breath, and a feeling of suffocation from the slightest causes, either from a draught of air or the attempt to remove his clothes. Whilst being carried into the ward he exlibited this peculiarity, frequently giving vent to a high-pitched cry of a very suggestive character. Swallowing liquids, except in very small quantities, through his india-rubber tube, produced a sense of choking, and was dreaded by him. Solid food he masticated and swallowed without difficilty. He complained of throbbing in his chest, and of a sense of sinking in the precordia. There was no priapism or salivation. 11 lis face and conversation were of a depressed character, his mind clear. Pulse 100, temperature $100.5^{\circ}$. Face anxions, pupils dilated, the right more than the left; skin moist nad warm; ;eneral manner nerrous. The application of a cold hand to the cicatrix on his forehead produced a sudden violent shrinking and a deep inspiration, almost spmsmodic in character. A whiff of air blown on his face caused him to spring up from the lying to the sitting posture; then followed a prolonged, strong, and spasmodic inspiration, during which the jaws were set half 'open, the angles of the mouth drawn down wards and ontwards, the eyes staring, the facial expression entirely changing to one of great distress and wildness; he hands were doubled and frrmly clenched. This spasm lasted a few seconds, during which the pupils were extremely dilated, and assumed their more contracted condition after the spasms were over.
At 8 p.a. a combined steam and vapour bath was applied. On remoral of the shirit a spasm was caused. During the bath trwo or three spasms were brought on by water dropping on to the body off the blankets. There was profuse perspiration during
the one hour and a half the the one hour and a half the bath lasted. He was then rubbed dry
with warm towels He with warm towels. He perspired gently for some time, expressing great satisfaction at the bath.
Bet reen midnight and 24 A.r. one grain of morphine was given hypodernicilly toproduce sleep and to allay the frequent spasms, but without effect. The pulse was then 120 , temperature $98.5^{\circ} \mathrm{F}$. Thirty-grain doses of chloral were then given erery hour until A.x. of Rovember 3rd, but without any visible effect whatever, although 240 grains were administered.
At $10.45 A$ A.... balf a pint of coffee was fairly well swallowed through the tube. The combined bath, aided by pilocarpine hypodernically, was then repeated, and also in the afternoon, producing as before profuse perspiration. About 3 p.... the spasm appeared to bo less frequent, and the restlessness not so great. he temperature was then $95^{\circ}$. Solid food was eaten, and enjoged in the course of the day. During the enight three-quarter-grain
doses of mornhine were twice siven doses of morphine were twice iviven hypodermicalls, and seemed to produce a little sleep towards morning.
 increased. At 11 A.x. the temperature, which had risen to $100 . \mathrm{z}^{\circ}$ the night, measured $103^{\circ}$. The pupils were now equal, and mansured one-eighth of an inch in diameter. Thick, ropy saliva appeared at first excitedly rubbed off the tongue, with a
handercrife, at terwards violently hawked up. The patient now pot out of bed, put on his drawers nnd trousers. He said he felt stiff, and that he was, groing to die. When spoken to he answered rationally, tut when left to himself he rambled and muttered.
 puse irregular in force and volume. Although hat lightly clothed,
 pasm. At 1.0 p.M. he walkel to a clair, talking pleassnty to

He tried to swallow some beef-tea, which broughit on a deep, eppasmodic inspiration, accompanied by an expression of
 Cupec a mouthful down. This was repeated, the swallowing
being accompanied by a kicking-nut of the legs. At 1.30 he ticcame violent, suli vating freely, and excitedly rubling away the saliva. Three-quarters of a grain of morphine were injiected At 2.50 the pulse was 150 and weaker, temperature $104.4^{\circ}$. Sixteen
ounces of clear urine were passed, specific gravity 1024 , and pale yellow. Four minims of tinct. strophanthi were giren. At 3.5 he was so excited that three-quarters of a grain of morphine were again given. At 3.18 and 3.40 there were outbursts of riolence, but withont spasins. At 4.10 a grain of moryhine was injected. D. now became more and more violent, spitting in his attendants; faces, and at 4.40 he became so nncontrollable that chloroform was administered, under which he rayidly fell asleep. IIe died quietly at 6.55 , baving had one or two spasms at about 6.30 , and one shortly before death. At 7.10 P.am. the temperatare was $101.8^{\circ}$. and at $8.10,103.8^{\circ}$

In commenting upon this case, Dr. Goyder remarked that as Pasteur's method was here out of the question, the case had seemed to be a favourable opportunity for trying the so-called "eliminative" treatment of Euisson, although this treatment had already failed in the hands of some of the staff of Guy's Mospital. If the treatment consisted in producing diaphoresis, this had been essentially fulfilled, for from the commencentent of the treatment until death the most profuse perspiration was present, not only during the batis, but also in the intervals betweerr them. It bad been objected that the Russian method advocated by Buisson had not been carried out, as the patient had not been sponged with cold water afterwards. Dr. Goyder submitted that this would hare been impossible to carry out on account of the intense dread of water-"hydrophobia" in every sense of the word-exhibited by D., and he thought that no man who had seen a case of true hydrophobia would propose such a thing. Je was reluctantly obliged to question the value of the Buisson method. The character of hydrophobia itself rendered it doubtfnl whether perspiration, however produced, could eliminate the poison, as it seemed to show an elective affinity for the nerres and brain, whilst zymotic poison generated and culminated in the blood. The outset of D.'s case illustrated this peculiarity. It began with pricking at the site of the bite; the irritation spread along the nerves, evidently towards the spine and brain, after which followed the spasms, directly proceeding from the medulla along the nerres of respiration and deglutition. The poison thereafter seemed to exhibit a stationary character, for a time at least, ns the spasms were confined to the face, thront, and chest. During this interval the temperature sank to normal, then the patient began to be restless, the temperature gradually rose, the nervous system, though getting excited, was at first only pleasantly exalted, and at last, when it would appear as if the poison had spread to the universal cerchral structures, general, maniacal. and destructire excitement set in, rapidly speeding on to a fatal termination. This elective affinity for the nervous structures, in which the poison seemed primarily to generate, killing the patient by its excess of action, did not, it appeared to Dr. Gorder, offer a sufficient interval of time for its elimination by diaphoresis. The patient was practically beyond hope long before the first natural eliminative efforts-that is, the secretion of saliva-were estatblished. Still, Dr. Goyder thought the Buisson method ought not to be decisively condemned before more exhanstive trials.

As to the post-mortem appearances, although it seemed so natural to assume that such violent spasms could not be produced without observable abnormality in the medulla, the most careful observation by Drs. Major, Vaughan, Mime, and Goyder bad failed to detect the changes in the medulla recorded by Dr. Clifford Allbutt. The microscopical examination of portions of the brain and medullaconducted by Dr. Major, whose large experience in this branch was a sufficient guarantee for its value, revealed no observable changes.
London Sanitary Protection Assoctation.--The report of this Association, presented at its annual meeting held on February 25th at the Society of Arts, showed an increase of members orer last year of 108. The number of inspections made during the year also showed an increase, the total being 1,488 , including 451 firstinspections and 602 anmual. It is satisfactory to learn that the condition of the louses inspected for the first time showed a lower average than usual, the percentage of bad (rather had and rery bad) being 65 , whereas on the average of the preceding six rears that percentage was only 56. The treasurer's report showed a small balance of income over expenditure. Regret was expressed that claaritahle persons and public bodies liad not made more use of the Association as a means to the improvement of the sanitary condition of working-class dwellings, a work in which the Association would be always willing to co-operate. It was remarked that large houses were often found to be more defectire than small oncs.

## REPORTS OF SOCIETIES

## HOYAL, MEDICAT, AND CLIALROICAT, SOCLBTY. <br> Tyfanhy, lebrealiv 2sth, 1888.

F. D. Follock, lisy., F.li.C.S., I'resident, in the Chair. Some Remarks on the Radical Cure of Hydrocele, with Notes of Two Cuses of Fixcision of the Tunica Taginalis, follored by Fiecurrence of the Hylrocele.- Jlr. Hesiby \$lomus read a paper on this sulject. The history of hydrocele and its radieal treatment wera brielly refered to, ha showing the frequent alternations between what might he called the "closed" and "open" methods of treatment, wamely, iajections on the one hand, and tents, setons, cansties, incision, and cxcision on the other. To be quite certain of a permavent cure the raginal cavity must bo entirely ohliterated, either by frm universal adhesion of the two surfaces of the asc, or lyy the filling up of the sac by granulation tissue; but there was reason to believe that permanent cures had heen effected by a simple change in the secreting capacity or character of the membrane. Althengl, on the whole, a more satisfactory mode of radical cure did not exist then the injection of small quantitiea of some irritating thud, iucision or excision was preferable under certain conditions. From a comparison of cases there did not seem to be much to choose, either as to duration of treatment or certainty of result, between injection on the one band, and incision or excision on the other. The comparative values of injections, and of incision or excisiou, were alluded to. But it was pointed out that there was no methorl of radical cure set devised which was not liable to accasional failure. The circumstances under which incision or excision was to be preferred to injections were the following: 1 . When we were in doubt as to the precise nature or relations of the bydrocele sac, for example, whether the tumour was a congenital hyilrocele, or a hydrocele of a hernial sac. 2. In some cases in which hernia complicated a bydrocele. 3. When a foreign body in the tunica vagimalis was the cause of the hydrocele. 4. When wo had reason to think that the hydracele was caused by; or associated with, a diseased condition of the testes, for which castration would be the right treatmeat. 5 . When, as in a case lately under the aithor's care, a vaginal hydrocele was associated with an encysted hydrocele of the cord and a bubonocele on the same side. The anthor's treatment of the cavity after incision was described. In conclusion two eases were related of recurrence of the hydrocele after excision of the sac. -The President observed that the behaviour of these casos of hylrocele was often capricious. In one case which he had long watched there had been no recurrence after one tapping. On the other hat, another had been twice tappod, and twice injected with iodine, with cunstant recurrence. I silser wire was then introduced for three weeks, with ample suppuration, but no permanent reonvery; the sac was finally laid open, and lint put in day by day for a fortnight, and still, though it bealed rery well for the time, it recurred later on, until the patient finally declined any further treatment than simple tapping.-Sir Josmpy Fayren aaid that during the years ho had been in India hydroceles had come very frequently under his hunds; they were not only much commoner than in England, but also much larger and with thicker walls. He had been inclinal to consider them as part of a constitutional state, as being at least connected with, if not cansed by, malaria! fever. They were frequent precursors of elephantiasis. He hail never remorel ascretal tumour withont finding some liytrocele tluid. The sac was sometimes rigid, with cartilagineus plates, and bone was necasionally found in them. The thid contamet in such cases Wiat full of plates of cholosterine. It was sometimes pale; sometimes ernmus and mixad with llood. For these no trentment availed to prevent recurrenco except excision such as Mr. Morris had lescribed. Itis master at Edinburgh, l'rofessor Syme, had slonw how necessary it was to use a strong injection of iodine, and to bring it in contact with all parts of the interior of the sac ly mnnipulation. Some pain and thickening of the walls occurrmi, but cure at the time followed, and a recurrence was very rarely noticed. He was atrongly of belief that the injection of iwo drachms of tinct. ionli, mndiluted, wonld cure very nearly all simplo hylroceles. That certainly ahonld be first tried; and of nther injoctions, of which he had tried gany, none was nearly go seorl: for many casta ono tapping was sufticient; and some Indian cases got well in lingland withont any operation.Mr. Wicistr had brought up a patient to show tho society in whom, as in Mr. Morris's case, operations had not led to cure.

He was a man aged 21. who harl got ligdrocele of the left side after a fracture of the thigh and a blow on the scrotum about two years age. 110 was at firat simply tapped and relieved for a time, then 2 drachms of tinct. ionli were injected undiluted inte a sac containing a, certaimamount of thid and well diffused. Thia vas followed by $a$ good deal of intlamuation and by temporary relief, but eubsequent return of the hydrocele, and this treatment was repented three times'at intervals of about six months. On his proseutiog himaelf for the fourth time it was determined to excise a portion of the tunica vaginalis; the tumour was grasped, an incision made, some 3 ounces or more of hydrocele thuid escaped, but it was found that the cavity was completely obliterated, and that the fluid had come from the meshes of a buboid growth. An attempt was made to peel off this buboid tissue, but its adhesion was too complete for that; it was broken down, and tho wound closed.-Mr. Bryant remarked that, there conld be no doubt there was not much unanimity in their treatment of hydrocele. It had been the unirersal custom in former days for all operators to inject iodine, and the questions then raised were
chiefly as to the strength which it was bost to employ. In bis own practice he generally used 2 drachms of an oqual mixture of the tinctura aud liquor iodi undiluted. I He advised that no fluid should be left in the aac before injection, for that was equiralent to dilution, and dilution to an unknown degree. Under thesc conditions he had had rery few failures as far as bo knew. He did not wish to be harsh on the plan of excision, which was becoming more popular with the growing confidence in the treatment of wounds. Ile deseribed one case of incision and one of excision in which those perations had failed to bring about a radical cure, but injection with iodine subsequently had succeeded. Still excision was useful in some old cases of hydrocele with plates of cholesterine in the fluid. Next to iodine for injection he should choose hot water, which he had employed at someane else's suggestion, and had found to cause suppuration and radical cure by granulation tissue.-Mr. Waldett asked to he allowed to observe tbat the fluid left in the sac in his case before injection of iodine was not left in accordance with his orders. He thoroughly agreed with Mr. Bryant in advising the injection of a strong solution of iodine into an empty sac. In reply to further questions he said that raicroscopical examination had done no more than show tbat the buboil tissue he had described was fibrous.-Sir J. Jayner observed that he had sereral times found similar tissue, and had peeled it off if possible, or else excised it.-Mr. Bryant thought it was prohably organised lymph, such as he had found in some elderly subjects after operation.-Mr. Cripps said he was quite unfamiliar with the irritant notion of hot water, and was inclined to attribute it to something otber than the water.-Mr. Tuerbs
wished to express lis opinion that Mr idsed to express his opinion that Mr. Morris had been of considerable service to the profession in calling attention to the fact that there was no safe radical cure for hydrocele, which they Tere a little apt to fancy that there was, unless they took a good deal of tromble in following out the histories of their jatients. He had
been in the habit at the London Hospital of using for injection been in the habit at the London Hrospital of using for injection a
solutine known as Curling's, which was stronger than the tinct. iodi, B.P., and of leaving two Irachms of that than sac. Ile had followed out a great many of these cases, an in the failure, that is, subsequent recurrence, in at least 25 per cent of cases of incision and excision which had been tracel, he had found about the same percentage of failures, and he confessed that he thought that would be a not unisual percentage if the cases were thoroughly well followed up. He knew of no adequate explazation of the supposed curative virtue of incision or excision, if they were practised in a truly antiseptic manner, and little disturbance consequently involved. They conld cure only by the accidents of wounds. llis present practice in relapsing
cases was to open the sac and have it all swabled out with nearly pure carbolic acid. Hyen in these cases the part of the sac covering the cpididymia and testis remained untreated. - Mr. Walsmask had noticed failures cure was only possible ly graumation-tissue, and that any operdtion involving that was tog serious to be risked in may opera especially among the working classes, considering that they had the alternative of getting the tumour safely lapped overy six months or so, and of sufforing very little inconvenience mean-time-Mr. Sinkiss remarked, i mropos of the yollow flaky tissue Which Mr. Willett had deacribed himeelf as finding, that ho should expect it to be aimilar in origin and character to a substance
which he had sometimes found in other serous carities, such as the pleura and peritoneum, and had taken to be an unusually good specimen of fibrin. If hydrocele fluid and serum were mixed in a giass, a similar specimen of fibrin would be obtained. -Mr. Mforris was glad to think the subject had not been too corumouplace for discussion. The capricious character of hyydroceles, as the President had remarked, had been widely recognised, and had caused much oscillation in the methods of treatment even in one man's practice. Ite had himself scen one case in which no obvious change was produced immeriately by an injection, and in which cure nevertheless resulted. Mr. Willett's case he took to be probably an exaggerated instance of trabecnlar adhesions rendered cedematous by hydrocele fluid. In using liquor iodi for injection, the increased strength in iodine was counterbalanced by the loss of the spirit as compared with the tincture. He had not any explanation to offer of the action of hot water. He had been much interested by Mr. Treves's experience, as he had not found $a$ record of a case relapsing after treatment by excision

## Clinical society of loxdors. <br> Friday, Febnuary 24th, 1888.

W. II. Broadbent, mi.D., F.R.C.P., President, in the Chair. Sequel of an Old Case of Ligature of the Carotid.-Mr. Holmes furnished these notes. The case was published in the ninth and tenth volumes of the Society's Transactions as one of distal ligature of the left carotid for aortic aneurysm. The patient survived the operation: for twelve years, and then died of phthisis. On post-mortenn examination it proved that the thrill, bruit, and pulsation, which were thought to be caused by aneurysm of the aorta, depended on stenosis of the valves of the pulmonary artery, with dilatation of its left branch. There had been weakness and occasionally total absence of pulse in the left arm ; but the cause of this was not explained by the post-mortenv examination, which had been somerwhat hurriedly made. The norta and its branches. were bealtby as far as they were examined. The left carotid was obliterated in its whole extent. As the case had been used in discussing the propriety of distal ligature in aortic aneurysms, it was thought, right to publish this correction.-Mr. Christopher Hesth said that he took particular interest in this case because he had ligatured the carotid for the first time a year or two before. When he saw Mr. Holmes's case he certainly was doubtful as to its being an aortic aneurysm, though be was unable to suggest what else it might he. There was a distinct pulsating tumour after ligature. On the other hand, the age of the patient and the duration of the disease militated agrinst tbe hypothesis of aneurysm, though the relief which followed operation might be thought to point the other way. IIe said there were no cases more dificult to diagnose than those of obscure tumours low down in the neck. He quoted a case which had been diagnosed. as innominate aneurysm and turned out to be purely aortic. He hoped that a.drawing would be made of the specimen, for insertion in the Transactions, before it was put in a bottle.

Laceration of Axillary Artery.-Mr. Iolsmes describel the case, which was that of is man, aged 54, in fair health. with no symptom of disease of the ressels. There was a systolic bruit. He had dislocated the left shoulder three weeks before. Attempts were made-
(January 2 tht 188 . to redue (January 24 th, 1887 ) to reduce the dislocation by manipulation, by the kinee in the axilla, and by extension vertically upwards. This
was followed by the nupearrent was followed by the appearance of a large blood tumour. The progress of the case showed that this extravasation must have beenc eaused by the rupture of some large ressel, though there was no loss of pulse at the wrist, no pulsation in the swelling, aud no bruit. An operation was proposed, but the patient would not consent. Ultimately he began tosink rapidly, and died ou April 23 rd . appareutly from septicernia. Post-mortem examination showed no serious risceral disease, and only slight atheroma of tho ressel itself- seem small hole existed in the axillary artery. Tho probably the first in which the lesion had proved fatal from re fusal of operation, and in which the parts liad been obtained. It showed the great importance of timely operation in all cascs where the extravasation went on extending, though there was no reason why so small a hole as existed in this instance might not close spontaneously, and similar symptoms had been present in cases which recovered without operation-Mrad Lewy alluded to o case iu which he had lacerated the axillary artery in an attempt at passive motion in an ankylosed arni. Soon after there was pain
and swelling in the axillary, with all the symptoms of ruptured vessel. Matters remained quiet for a day or two when suidenly the arm swelled up, and the pulse on that side ceased to be perceptible. He then cut down directly on the tumour, but not being able to control the hemorrhage he amputated at the shoulderjoint. The patient never rallied from the operation. At the postmortem examination they found a great hole in the axillary artery. Although he had been blamed for doing so, he had jubllished the case at the time, beeause he thought that they had often learned much from unsuccessful cases.- Mr. Stephex I'Aget mentioned a case which had occurred in Sir James Paget's practice. The patient. was a lady, who had a stiff arm, the result of rheumatism. For this, rubhing, galranism, and passive movements were employed; after sereral applications morement was largely restored, when one day, to test the strength of the recovery, the patient rested her elbow on the mantelpiece, and threw the weight of her body upon it. She was soon after seized with pain in.the axilla, with swelling. It soon became necessary to do something, and Sir James. Paget cut down and found a rent, a quarter of an inch in diameter, in the long axis of the vessel. He ligatured the artery above and below the seat of injury, and the patient made a perfect and uninterrupted recovery.--3r. Holmes, in reply; said that Mr. Paget's case served to show how little violence sufficed to cause this grave injury when the parts had been matted together by past inflammatory changes. The noteworthy. feature of his own case lay in that it was the only case on record in which the injury had been allowed to run its natural course in consequence of the refusal of the patient to be operated upon.

Ligature of Superficial Femoral Artery for Popliteal Aneurysm. ucithout Rupture of the Coats of the Tessel.-Mr. J. R. Lews gave particulars of this case. He said tlat the researches of Messre. Ballance and Edmunds on' the subjeet of the ligature of the arteries. Which were puhlished in Vol. 69 of the Medico-Chirurgical Society's Transactions, clearly demonstrated that it was unnecessary and inadrisable to rupture the coats of a large artery if it were desired to ocelude it in its continuity. Ie determined, therefore, to adopt the method which was shown by the paper to be as efficient as, and apparently more safe than, the usual practice of dividing by the ligature the internal and middle conts. The question of the ligature of completely divided ressels, such as the main artery in an amputation stump, was quite another matter." He had usually employed catgut for large arteries, but in Messrs. Ballance and Edmunds's paper it was shown that even the best catgut might not hold for more than a few days when subjected to an environment of living tissue; and, on the other hand, that kangaroo tendon suitably prepared would resist the absorption process for two months, and also in other respeets was admirably adapted for use in the operation of ligature in continuity. C. Wr., aged 45, widow, by occupation a needlewoman, was admitted in May. 1887. into St. Marylebone Intirmary, Notting Hill; with pulsating tumonr in the right popliteal space. No history could be obtained of a blow, strain, or syphilis, etc. The urine contrined no albumen. She noticed a pulsating swelling about the size of an egg behind the right leg, in the popliteal space, which gradually enlarged. and she mas obliged to give up her work. The circumference of the pulsating tumour measured $16 \frac{1}{2}$ inches. After giving a fair trial to different methods of trentment, and having failed to make any impression upon the aneurysm, it remained only to advise the patient to submit to the usual operation of ligature of the superficial femoral artery, which she consented to. The usual antiseptic precantions were taken. When the sheath of the artery was opened, the vessel wall was noticed to be of a tallowy colour, and not the usual pinkish tinge of health. Wishing to try Mr. John Smith's suggestion, and ligate the vessel with a clove-hiteh, and as Mr. Ballance had had some experience of the clove-hitell in his as yet unpublished experiments on the carotids of horses and asses, Mr. Lunn asked him to pass the kangaroo tendon, and occlude the ressel by means of a clove-hitch without rupturing the coats. This he did. The pulsation of the tumone was arrested immediately, and the woman made an uninterrupted and perfect recovery. The patient was kept in bed for seventy-two days after the operation. The case was offered to the Society as a contribution in aid of the adrance of knowledge of the surgery of the arteries-Mr. Heath pointed out that they had two cases in which the clove-hitch with kangaroo tendon bad been employed, whieh was a surgical norelty, in rolving as it did occlusion of the vessel without dividing the conts. -Mr. Keetier quoted the case of a man, aged 27 , who came to the hospital with aneurysm of the fomoral artery in the lower part of

Scarpa's triamgle, abont 4 inches long. He hat only zot'ced it a fert nght hefore, ant it rapidly inerensed in sizc. The upper jimit of it enne within 3 inches of Ponpurt's liganent. Not wishing to tie the external iline, he ligaturel the common femoral with kangaroo tendon, using a elove-linth, with a reef-knot to fix it. The operation whs performed on Junuary $2+t h$, and there had been no return of pulsation, and the mun was doing well.-Mr. Tcreser mentionell a case which occurred some three years since, in which he had ligutured the common femoral artery with conimon catgut, dividing the conts of the vessel. The artery had pretiously Twen ligntured with a silk ligature, which, in coming away on the sixteenth day, had given rise to profuse hemorrhage. The man made a grod recovery. The cases which had been brought before thens showed that it was possitule to deal with a vessel which they were formerly forlidden to touch.-Mr. Heary Monris said the question wonld require some time lefore it could be authoritatisely settled. It had yet to be proved that the method of ligaturing nrteries without dividing lie coats of the vessel presented any advantages. He thought that experience might show indeed that it was not as reliable. He mentioned the case of a man under his care who came to him in August with a tumour in the popliteal space of sudden onset, and rapidly increasing in size. There was pulsation in the arteries below. He cut down and turned out the clot. The artery whs soft, and a good deal of arterial blood eseaped from between the ressel and the bone. Ligatures of chromicised eatgut wero applied, and the man did well. Some days later pulsation returned at the apper part of the popliteal space, and that time he ligatured the femoral artery in two places with kangaroo temlon, disiding the artery between. He did well, but bis leg became contracted, and he was subsequently anesthetised to straighten the limb. No unlue force was used, but within two or three days gangrene set in, and amputation was performed. Fixamination sliowed that the ligation was satisfactory in both eases. He called attention to the fact that pulsation was felt although there was considerable extravasation. He approved of ligaturing the vessel ahove in some cases in preference to opening up at thr site of extravasation.-Mr. Thonthy Ilolmes said he always lolieved in lignturing the common femoral instead of the external iliac artery, and he thought the prejudice ngainst the emurse was lased on a mistaken idea. He expressed himself in favour of the old-fashioned practice of tying a stont ligature tightly, so as to rupture the coats of the aftery. The method of compressing the vessels was as old-at least-as John Ilunter. In any case the a Ivantage of such a mollification was not obvious.

Amputation at the Hip-joint for Sarcoma of the Femur: Stcondary Ilcomorrhage: Ligature of the Common Femoral: Recovery.-Mr. Beanand litis described the case. R. Ti, a draper, uged 30 , came under Mr. Pitts's care in St. Thomaáa liospital on August 19th, 185\%, with a hard tumour firmly nitached to the left femur, at the junction of the middle and lower thirds. The tumour was first noticed four months before, and was then only as large as a pea; its mensurement in August in the long diamoter was lint when four and live inches. On August 24 th, after an exploratory incision, a circular amputation was performett, and the limb removed just below the lesser trochnnter, four inches clear of the periostenl growth. Whilst the vessels were being secured a longitudinal section was inade through the removed bone, and the tumour showed the typical appearance of an osteoid ararcoma. The medullary cavity was involsed as far uprrards ns within one inch of the lesser trochanter. An incision was then made on the outer side of the trochanter, and the remainder of the bone rapidly and easily disarticulated. The patient progressed well titl the fifth day, when secondary hromorrhage occurred from the stump. The blecding into the dressings was considerable, and the patient was greatly exhausted. Finding that pressure on the common femoral controlled it. and since the patient would certainly have died if the flapa had been operned for a search for the bleeding ressel, a clove-hiteh of kangaroo tendon was placed rount the cornmon femoral just below l'oupart's ligament, and ahove the frofunda. No return of hemorrlage toek place, and the patient made a grod reenvery, and left the hospital quite well parly in November. Mr. Pitta, in his remarks, advocated the F'urneaux-Jordan methol of amputation, both on account of its cafuty, and also becanse it enalled the surgeon to stop slort after the high amputation if the patient's condition, or the nature of the tumour. required it, and he proposerl the following rule, namely, that in any periosteal sarcomil of the lower half of the frmur, to amputate high in the thigh, and well clear of the discese; to hare a longitudinal section of the femur made whilst
the ressels were being secured: and if it were found that the medullary cavity was infected, to remove the remaining portion; at the time, if the patient's state permitted, but, if not, at a subsequent operation. Mr. l'itts then stated the reasons why ho had departed from the usual practice of opening the flaps when the secondary hemorrhageoccurred. He thought that ligature of the common femoral might now be safely tried, and the old fear of hemorrhage at the seat of ligature was not felt by a surgeon who placed a flat tendon ligature on the vessel, and did not divide the coats, but merely closed the lumen of the vessel. Reference wasmade to tbe experiments by Messrs. Ballance and Edmunds, which so clearly proved that such a method of ligature was efficient. In conclusion, a case was referred to. A boy, aged 13, was brought last August to the hospital with a fracture of the thigh and a rupture of the popliteal artery. The effusion of blood had extended to Scarpa's triangle, and the boy was almost moribund. Mr. Hitts tied the common femoral with a flat ligature, withont rupturing the coats. The boy died the next day, and at the postmortem examination it was found that the artery was impervious to water, although the coats were entire. The ligature was placed on the ressel in order to gire the boy a chance of recoverMrg from his collapse, rhen an amputation was contemplnted.child's femur for a sarcoma in the popliteal space. The mother refused to allow amputation to be performed higher than just above the seat of disease, and subsequently tho disease recurred high up, where intervention was impossible. He advised remoring the whole of the bone but learing the periosteum.-Mr. Curistopher Ileatu recalled a case already published in the Transactions, in which he had tied the femoral artery in the early days of eatgut ligatures, und in a few days pulsation returned. This was by no means the only case on recoril, and they tended to show
that it was not safe to rely on anything less than the rupture of the coats. He surgested that it would less than the rupture of artery hetween two ligatures in some situations, and mentioned a caso where this had been done in respect of the subctaved with death from the slipping of the knot. He expressed surprise that the question of the knot had not been discussed. Personally, he would prefer a reef-knot to a clove-hitcla. He pointed out that Jordan's operation was not alwars applicable. Hle observed that present-day surgery was apt to be rather slorr, surgoons not attributing sufficient importance to mere loss of blood.-Mr. IIesiny Mormis pointed out that his remarks as to dividing the artery between two ligatures only applied to the limbs.-Mr. Lusw, in reply, thought that in old people the employment of the broad ligature obviated the danger of tearing the coats of the artery.-
Mr. Bersard be inclined to divide the common iliac between two he would He was satisfied that absolute security resulted from the changes Which took place consequent on occluding the lumen of the vessel. The principle of surgery was that when the same result could be achieved with less damage, then it was to be preferred. ne objected to leaving any periosteum when removang a bone for Jordan's as it would facilitate recurrenee. Ite did not advocate of the cose.
Living Specimens.-The following were exhibited. By Dr. Bar1, Ww: Case of Cured Sulclavian Aneurysm.-Mr. Sincock: Case of Laretais Operation on the Stomach was perforned two won ago.-Mr. J. T. Morgas: Case of Lymphangiectasis of Ulyme Lip.-Mr. Marsir : Case of Ifriry Mole.-Dr. Broadient : Case of Subclavina Aneurysm cured by Pressure.

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& \text { Medical society of londory } \\
& \text { Monday, Frareary } 27 \mathrm{TH}, 188 \text {. }
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J. Ilcoumnus Jackson, M.D., F.R.S., President, in the Chair. Clinicar Evenina.
Care of syphilis..-Mr. James Brack shomed a woman who, after twilve miscarriages due to syphilis, bore a healthy child under mereurial trentment.

Bilharzinl lipirystitis.-Mr. IUnry Fenwick showed a patient, aged :3), who had suffered from Cape hamaturia for five years, and who had come under ohservation on September 23rd, 1887, with symptoms of cxtraperitonenl perforation of the bladder of nino
days duration. Ten lays previously, after patient suddenly passel large quantities of blood, and was seized with extreme auprapubic pain. The abdomen was tympanitic in
its upper two-thirds, but absolutely dull in tho suprapubic region. The dulness was not removed by catheterism of 8 ounces of clear urine. The entire recto-vesical pouch was found to be filled with a softish foetul-lead-sized mass. Ife belicved that pericystitis had been set up hy incomplete perforation of, and leakage through, the posterior wall of the bladder, and that epicystitis and adherence of the intestines had resulted. A suprapubic incision was made for drainage purposes, but the prevesical space was found, on examination, to be free. The swelling in the recto-vesical pouch was gradually absorbed, and the patient récorered. Ile still passed Bilharzial ova. Electric illumination of the bladder revealed multiple punctiform hæmorrhages of the base.-Mr. Bersard Pitts asked whether any collection of blood was found on incision, and whether any oozing took place afterwards.-Mr. Fenwick, in reply, said the dulness he found was due to matting together of the intestines.
Two Cases of Friedreich's Disease.-Dr. Orarerod showed a boy and a girl, the subjects of this peculiar form of hereditary ataxia. Both children walked imperfectly nad awkwardly, and the patellar reffexes were, wanting. Speech, vision, and hearing were apparently normal. A sister was quite healthy. Father asthmatic, and formerly a drunkard.-Dr. Jacksos asked whether any choroiditis was present. A patient of his own had nystagmus, and the pupils did not react to light.-Dr. Ormerod, in reply, said he had not thoroughly examined the eyes. There was no history of syphilis or nervous affections in the parents.

Case of Ununited Fracture of Mumerus.-Mr. Marmadeke SHEiLD showed a lad who had sustained a compound comminuted fracture of the right radius, from which pieces of bone had been at various times remored. No union had taken place, in spite of reiterated efforts with that object in view. The lad could use the hand fairly well, and Mr. Sheild insisted on the desirability of avoiding amputation in injuries of this sort in young people.-Mr. Turner mentioned a case in which transplantation of medullary membrane was tried in a similar case, but without success. He mentioned that out of 48 specimens of false joints iu the London museums, 16 were of the humerus, and 14 of the femur. -Sir Wa. Mac Cormac thought, from the atrophied condition of the bone in this case, that efforts at inducing union would probably not he successful. Ife expressed a desire to see an attempt made with transplantation of bone, that being the only possible way of bringing about union. - Mr. Sheun, in reply, asked Mr. Berry, under whose care the patient passed immediately after the injury, whether thic fragments had been wired-[Mr. Berry replied that he thought not]-because he thought that this ought to be done in such cases. He was afraid transplantation would be difficult to, carry out successfully. lle attributed the frequent occurrence of false joint after fracture of the bumerus to the employment of four short splints, thus allowing considerable morement. 1fe allutled to the danger of opening up the wound to secure union from the matting together of the nerves, vessels. etc.

Congentital Cysts in Mouth and on Chin.-Mr. Bervard Pitts showed a boy, aged 14 , with fluid swellings, one in the middle line of the chin, and the other in the floor of the mouth. The cysts had been tapped, lut refilled, and he indicated the necessity for more radical measures of treatment.
Loose Bodies in the Knee-Joint.-Mr. Sheile showed a man, with a history of syphilis two years previously, who had lonse bodies in the knec-joint, one of which was the size of a filbert, causing continual irritation. It was suggested that the bodies might be ossified gummata, but he thouglit they were more probably synovial outgrowths, and ndrocated their removal. l'rofessor liumping agreed with the latter suggestion. He expressed himself sceptical with regard to the possibility of detacliment of portions of thearticular cartilages, and thought that the depressions found on the articular cartilages simulating the site from which such pieces had heen detached were in reality due to absorption from pressure.-Mr. EDMOND OWEN asked whether there had beeu any synovial intlammation prior to the sypliilis; also whether the patient was gouty. IIc mentioned two cases in which he had succesifully effected the removal of similur bodies, without the spray, merely washing out the joint with sublinate solution--MIr. Sheiln, in reply, said lie regarded the spray as an additional safeguard. There had been no prior synovial inflammation, so far as he could ascertain.
Case of Limited Itrophy of the Face--Dr: A. Garrow showed a girl, in whom, after a period of great anxicty, epileptic fits had supervened. with a curious atrophic condition of the forehead.
Spamodic Tritehiny of the Lurss.-Dr. Eapiop showed a rery
remarkable casc of spasmodic twitcling of the ears in a young girl, consecutire to general chorea. The twitching was rhythmical and persistent.-Dr. Jacksos said it was is most curious case, and he had never scen anything resembling it before.

Discase of the Nails.-Mr. SHEILD showed a case of disease of the nails, modified by treatment.

## ROYAL ACADEMY OF MEDICLNE IN IRELAND. <br> Obstetrical Section. <br> Friday, Febrtary 10th, 1838.

John Rutherford Kirkpatrick, F.K.\&.C.P., I'resident, in the Chair.
Specimens.-Dr. Colclough IIoer exhibited specimens of mole pregnancy and foctus compressus. In the latter specimen the foetus seemed to have reached about the fourth and a half month of utero-gestation. It was expelled a short time after the birth of a full-time child and before the expulsion of the placenta. The whole specimen seemed to be notbing more than a mass of adipocere. There mas no trace of an umbilical cord, but the placenta was very large and apparently healthy-Dr. S. M. Thompson exhibited two large calculi which he had remored by dilatation from the urethra of a woman 52 years of age.-Dr. MACAN said the stones were the most remarkable he had ever seen. Their extreme smoothness was most striking; they ought to be examined for the purpose of ascertaining of what thes were composed. Professor Simon, of Heidelberg, had shown that, after the dilatation reached 2 centimètres the operator was on rery dangerous ground. If he (Dr. Macan) had to deal with such a case, he would rather extract by means of an incision in the septum.-Dr. Macan showed four specimens. The first was the head of a child born a few days before in the Rotunda Hospital. The woman had been undergoing a rery protracted labour, and was brought into the hospital. On examination the head of the child was found to be encompassed with an elastic tumour filled with blood, and so disposed that it was dificult to detect the child's hair. Before delivery the child was known to be alive, although the foetal heart could not be heard. The child was delivered with some difficulty with forceps, and was a rery large one. The whole surface of the tumour was then of a bright crimson colour. Next morning it was incised, and the hair underneath Was found to be cut off as sharply as if it had been shared; he had never before seen anything exactly like it. The labour lasted twenty-four hours. While examining with his finger before delivery, the epithelium of the ragina came off under his finger. which he heliered was due to an acrid secretion. The second specimen was an ovarian tumour, which was removed from a girl. When she first came she wrs in the serenth or eighth month of pregnancy, and had a rery large abdomen. The tumour afterwards got smaller from day to day, and when he (Dr. Macan) first saw it, it was not the size of his hand. He thought this might have resulted from a rupture of a cyst, and the absorption of contained fluid. The next time he examined her, the tumonr was almost as big as erer, and he diagnosed that another cyst. had dereloped. When he operated he found an extremely short pedicle. The next specimen ras a tumour remored from an unmarried woman, which had been eight or nine jears growing. On the morning of the operation her temperature was $10 \ddot{8^{\circ}}$, and she had great pain in the abdomen. After making a large incision he first got hold of an enormous tube, from which a quantity of pus escaped, and then the opening was closed by a wisp, of hair, which showed the tumonr to be a dermoid cret. She got on very well for some days, until suddenly ono rozing her temperature rose to $103^{\circ}$, her pulse being ouly 88 , and a great swelling appeared in the right parotid region, from which it was obvious that she liad parotitis on that side. This was an unknown complication to him until his attention was drawn to the Jourial of December -tth last. containing an account of seventeen cases, collected by Irofessor Bumm, of parotitis following ovariotomy. In nine out of thirteen of these cases suppuration followed, in two death resulted from inflammation, and in two others inflammation contributed to a fatal result. He (Dr. Macan) was unarare of the complication until Dr. Kidd told him that he saw the same thing after the operation of ovariotomy. The girl had since been going on extremely well, and that day slie was up. but that eveuing lee temperature was $101^{\circ}$. for which he failec! ${ }^{\prime \prime}$ recognise any cause. The remaining specimen was an ovarian tumour, which he removed on the preceding day from a woman in the Rotunda l!ospit:1!. The diagnosis was very difficult, and
the operation was approached with great doubt．She was exa－ mined uader ether，und the justerior wall of the nterus fonnd to be rery thin，hut the tumonr could bo separnted from the uterus with the souml．There was grent dificully in getting the tumour out through the pelvis，and there was an enormons pediele，part of which was left belind．It was a ligamentous growth．There सras a considerable guantity of pus in the tumour．Up to the pre－ seut the woman was going on very well，the only danger being that some change might take place in the position of the pedicle that had been left tellind．
liemooral of Fihroid－Dr．MMonnis read a paper on the suc－ cessful removal of a large filiroid tumour．－Dr．Atthilis，Dr． Macan，and Dr．Barbolr，of wdinburgh，took part in the discus－ sion．
Report of the Rotiunia Mospital．－Dr．Smitis read the report of the Rotunda Ilospital for 18\％\％．The gymecologienl wards contain thirty beds．Four hundred and lifty patients were received during the year，being an increase of 100 over the previous twel ve monthas．It was remarkable that retro－uterine hematocele oc－ curred eifght times，carcinoma thirty，and serions tubal disease anly once．All the cases of carcinoma were too far advanced on admission into hospital to justify nny radical operation．Nothing was left to be done except to palliate by thorongh enretting and the application of Taquelin＇s cautery．The treatment in incom－ plete ahortion and endometritis consisted of curetting down to the muscular coat of the uterus，and injecting equal parts of the liniment and tincture of iodine．Abdominal sections were per－ formed eight times for the removal of ovarinn tumours，once to remore the ovaries in a casc of uterine fibromyoma，once to per－ form hysterotomy，twice for the radicul cure of hernia，once for the removal of a double orarian abscess，and onco in a case of peritonitis，which proved carcinomatous，making in all 14，with 4 deaths．The uterus was curetted 105 times，including ineom－ pleto abortions 15 ，carcinoma 30 ，and endometritis 57 ，witbout any reaction following．showing that wheu properly performed this operation was entirely devoid of danger．The bimanual methou of examination was practised and taught，with the patient in the dorsal josition on a Scluroeder chair．The nterine sound had been found most nseful during the year as an aid in diagnosing many disenses of the endometrium．It detected with accuracy the patulons condition of the internal os，whether the nucous membrune were hypersensitive，thickened，or roughened， and it would demonstrate its tenlency to bemorrhage，if that condition were present．Schultz＇s pelvic diagrams were used to encourage accuracy of chagnusis，and Wyder＇s transparent plates as illustrations of pathologicul conditions．Antiseptic solutions were only employed where the hauds or instruments had been en－ gaged in septic casns．The stages of disinfection practised were， for the lands，1st，thorough scrubbing for a couple of minutes with carbolic soap and a nail－brusht in a 5 per cent．carbolic solu－ tion：2nd，rinsing in fresh carbolic solution：3rd，sonking for one minute in 1 in 5 m）corrosive sublimate solution．All instruments were disinfected ly boiling in a 5 per cent．enrbohe sohntioy．For some time past irrigations of ordinary farty nterus and vagina such as cur－tting in the case of incomplete abortion，nuil as yood results had been obtained as when solutions of carbolic acid or corrosive sublimate were used for this purpose．－－Dr．Atrininit said the proprertion of cases of hrematocele appeared to be an－ usually large．He was glad to find that enses of ablominal sec－ tion wrres incrensing in number．Ne would not say that in nuy of the 105 cases recorded the curette lad leen used injudiciously ： but his thought th．re was a tendency to resort to it too ofter． If：thonght that in cases of uterine cancer it marely aggravated the symptoms，and in sone cassra neculerated death．For the pur－ pose of washing out he thought that Vartry water was ne kood as the solution of carbolic acid．－Dr．Mradas sairl，as to curetting，be thought that，in casers of hemorrhage with fotid contents of the uturus，the metherl，from its expedition，had a decided advantage over dilatation and removal by the tinger．He ondy regretted that he had not heen more energetic in the use of the curette in enses of enncer than lee hal been，becmuse of the improved condi－ tion anul ease it kase the patients before they died．The mortality in cases of hat matocule hail been incruased ly the inclusion under that head of eases of＂xtra－uterine futation．
Guy＇s Inspital－The Treasurer of Guy＇s llospital received last week an anonymous donation of $£ 1,000$ from 11 ．A．N．towards the Guy＇s Ilospital special appeal．

ぶOTTIN゙GIIAM MEDICO－CHIRURGICAK，SOCIETX． friday，Janvanx $20 \mathrm{TM}, 1883$.

## W．II．Ransom，M．D．，F．R．S．，President，in the Chair． Mydatid of liver．－Mr．Preces showed a case of hydatid of the liver in a man aged 56，which was associnted with a separate tumour of the abdomen due to the same disease．

Communications．－Dr．Bider read notes on－（1）A Case of Missed Labour，and showed tho patient；（2）Remoral of the Breast for Intractable Eezema－Mr．OIDDINGs read a payer on the Medicino of the Hippocratic Era．

Specimen．－Dr．Eider showed：（1）Ovarian Tumour；（2）En－ chondroma：（3）Vesicular Mole．－Mr．King dor showed a micro－ scopic specimen of the Dacillus Anthracis．

## Friday．Febrtart 3ed． <br> Th．II．Ransom，M．D．，F．R．S．，President，in the Chair．

Necrosis of Bone．－Mr．R．C．CHIICKEN showed a young man on whom the had operated for diseased bone．From the humerus be had removed a sequestrum 41 inches long，involving in half its length the entire thickness of the upper third of the humerus． From the internal and external condyles，cuboid sequestra had been extracted．The elbow－joint was limited in motlon owing to thickening，but a strong useful limb was left．From the right foot of the same patient the internal and middle cuneiform bones were excised，and two－thirds of the first metatarsal bone．The arch of the foot was supported by an accurately fitting cork．He had free morement of ali his toes，and conid walk＇long distances． The next ease was a sequestrum from the middle and lower third of the femur， 5 inches long，involving the entire thickness of the
shaft．The sinus occupied the line usunlly taken canal．The femora\} artery could not be felt; it was probebly enclosed in new bone．The case was of eight years＇standing．The patient made a good recovery．In both of these cases amputation had been recommended．Mr．Chicken pointed out that in opera－ tions on large diaphysial necrosis of the femur there were thre
points points which might prove sources of failure：1．The met hod of
operating．Two ways offered themselves；the removal of the sequestrum entire，or its division in situ by an oblique operation， and withdrawing in two parts．This might he called the＂button－ hole＂operation．The first required the cutting away of a large portion of new bone and a rery large incision through the soft
parts．The seeond method required only a small incision parts．The second methou required only a small incision，and the
sequestrum could the removed through a rery small openi new boue．2．The drainage of the wound was often a song in the great trouble．Sometimes the operation to establish drainare a small exfoliation of the femur was more formidable than the re－ moral of the bone．If the patient lay on the side opposite to that operated upon，and then flexed the hip－and knee－joints，causing fect and the emur to cross the sonnd limb，the drainage was per－ could not be performed except mith instrnments which would divide the sequestrum as it lay imbedded in the new bone．The chisels of single bevel and the bone－forceps as supplied，were utterly inadequate．The great orjection to the use of even the in est tempered double herelled chisels was the injury caused by the hammering to the henlthy bone．Mr．Sntton，of Yottiugham， had made（from Mr．Chicken＇s design）a pair of cutting bone－ forceps which divided a femur with ease，and were therefore cap－ ahle of dividing any sequestrum．They wero forged with caro from the finest steel，and tempered most accuratels，the parrot hrak slipued easily around the dead bone，and held it whilst it bit．The screw gave any power required．The holes in the handles were romy and smnoth，to give play to the screw．
Matighmet Disense of Laryn．x．－Mr．Jospeph Wuite related two cases of carcinoma（one intrinsic，the other extrinsic in its origin） and drew attention to the intluruce of locality in its bearing uloon
the compnter the comparative malignancy of this disease as originating in the
upper or lower part of upper or lower jart of the larynx；and poimted to the greater
ralidity of growth，grenter tendency to involve the neich glands and other tissues，and more speedy ternination in death， of extrinsic as compared with intransic carcimma．He related
oth other eases，showing the frequent ohscurity of this disense in its earliest stages．He then discussed the question of operative treat－ ment，and came to the conclusion that in cases of sarcoma，re－ moral by operation wns indiented；in intrinsic carcinoma this might also be tried，but not in the extrinsic form．Both in sarcoma and carcinoma，early tracheotomy might le very beneficinl．

MIDLAND MEDICAL SOCIETY.
Wednesday, February 8 th, 1888.
W. Ross Jomdan, M.R.C.S., President, in the Chair.

Papillome of Bladder.-Mir. Jordan Lloxd showed a specimen of papillona of the bladder removed from a man, igged 51, by suprapubic incision. The first symptom was slight hrematuria with clots occurring during perfect health more than two years before. He remarked on the diagnosis of bladder tumours, and thought that spontaneous hrematuria with clots in an apparently healthy man beyond 35 years of age, recurring from time to time -without vesical symptoms of any kind, and without any abjectire evidence of other disease, ought to suggest to us the presence of reaical papilloma. Such growths could often only be discorered by suprapubic incision, which ought to be performed in preference to perineal incision.

Specimens:-Dr. Hogben showed some specimens of Cirrhosis of Liver in 'a Yonng Child, due to Alcohol.-Dr. Sucking specimens of Trichocephalus Dispar.

Communications.-Mr. Bradex read a note on the Treatment of Tinea Tonsurans by Hot Oil.-Dr. Holmes Joy read a paper entitled Notés on Puerperal Septicæmia.

Ataxia in a Brass-worker:-Dr. Sugking showed a case of ataxia in a brass-worker. The patient was a man, aged 54 , who for many years had worked at bronzing. During the past eighteen months he had suffered from numbness of the feet and hands, and unsteadiness of gait. He had suffered also from attacks of romiting, and:shooting pains in his legs. He was very unsteady in walking, especially on turning round, and static ataxia was marked, for he could not stand with his eyes shut, swaying about and falling on closing his eyes. The pupils were unequal; but responded to light and accommodation; there were no changea in the fundus oculi. There was no decided anæsthesia or analgesia of the extremities, but he stated that he felt as though he was walking in mool. The knee-jerk was diminished, but conld readily be elicited by Jendrassek's method. The man 'gare' no history of syphilis, but there were pigmented scars on the legs. There was no green mark on the teeth, and he had not suffered from attacks of sweating or catarrh. Dr. Suckling pointed out that ataxia with numbness of extremities had been observed by Schloehow in workmen at zinc foundries, the ataxia being due to loss of muscular sense. The muscular sense in the abore case was decidedly impaired, for he was unable to distinguish any weight less than four ounces suspended from the toes, and he could not distinguish between a four-ounce and an eight-ounce weight. He had decidedly improved under the administration of iodide of potassium.

## BRADFORD MEDICO-CHIRURGICAL SOCIETY. Jañary Meeting. <br> T. W Hime, B.A., M.B., President, in the Cha:r.

Retinoscony.-Dr. J. Jounston read a paper on retinoscopy, déseribing briefly the history of the test, the method of using it, and its'adrentages as a qualitative and quantitative test, especially in dealing with children, and in determination of astigmatism generally.- Remarks were made by Drs. Govnen, Ilonrochs, IImid, and Bell.

Destructive Discases of the Bye.-Dr. Bell read a communication on some destractive diseases of the eye, with special reference to iritis. He stated that iritis was not common during the middle period of life, and that its causation was either traumatic or depended on some dyscrasia. He then showed how various classitteations of iritis might he made, and mentioned sereral ; at the aame time, many of the different forms of iritis reacted on each other in such a way as to render the symptoms distinctive in only a few eases. In children under 6 months, and in certain rare cases where rusty kots appeared on the iris, the iritis was always due to syphilis, while serous iritis was alroys accompanied by white spots on the posterior lajer of the cornea. The other symptoms of iritis which might or might not be develonped, but whiel were common to all its forms, were a vascular zone on the sclerotic, change of colour and immobility of the iris, muatilness of the aqueous humour, pain and impairment of vision. With respect to treatment. special attention was drawn to the frequent use of atropine until the pupil was fully dilated, while mercury alone, or combined with iodide of potassium, was useful in all forms of iritis, with the exception of the traumatic.
Mydrophobia Treated by the Buison Method.-Dr. Goyder re-
ported a case which will be found in this day's Jocrnas at page 464.-Drs. Iime, Bella, Whalley, Vavghar, and others took part in the discussion.

## MANCHESTER MEDTCAL SOCIETY

## Wednesday, february 15tif, 1884 .

Julice Druschfeld, M.D., F.R.C.P', l'resident, in the Chair. Tanthelasma.-Dr. Leeci ahowed a case of xanthelasma
Forcible Feeding.-Dr. Basir described several methods of forcible, feeding. He thought that if it were resorten to as' intelligently in general practice as it was in the hest asylums, many cases would he greatly henefited by it. Such conditions rere typhoid states in many of the continued fevers, prelonged coma in diseases not necessarily fatal, after some operations, especially those about the mouth, in cases of delirium. severe chorea, etc. Many forms of insanity could be treatel at home if the general practitioners were to resort more ofteu to the use of the stomach-tube.

Treatment of Phthisis.-Dr. Ransome presented some notes on the treatment of phthisis by pure axygen and ozone. Pure oxygen prepared by Brin's process had been supplied by that company, aud had been Iargely administered, but without very definite results until it was ozonised and administered under pressure by means of Waldenburg's apparatus. Beneficial results had then been obtained in three patients who carried on daily inhalations for from three to fire weeks.

Sarcoma of Choroid.-Dr. Hill. Griffiti showed a patient with intra-ocular sarcoma of the choroid, and read notes of a case of sarcoma of the choroid growing from and confined to the central region of the eye, and exhibited the specimen. Dr. Griffith also made some remarks on the diagnosis of the affection, and illustrated his remarks by preparations.

## LEEDS AND WEST RIDING MEDICO-CTIIRURGICAL SOCIETY. <br> Friday, February 17th, fses.

J. Spotiswoode Cameron, M.D., Vice-President, in the thair.

Incision of the Cyst in Hydatid Disease of Liver.-Mr. Miro Roeson described the ease of a patient admitted to the Leeds lnfirmary under the care of Dr. Churton, with a history of a swelling in the abdomen of fourtcen days duration, with pain for the last fire days. He was looking ill and anxious on admission, with a temperature of $101^{\circ} \mathrm{F}$., and there was a tumour in the abdomeu yielding an impulse on percussion. The cyst was exposel by an incision outside the rectus muscle, and a multitude of small eysts were withdrawn through a trocar, the whole contents amounting to 120 ounces. The edges of the sac were stitehed to the almlominal wound, and the cyst was irrigated and drained. The patient made a good recovery. Mr. Robson referred to the various -methods of treating this condition, namely, simple puncture. puncture with the injection of a solution of mercuric ehlorise ( 3 ij of $\Omega$ I in $\mathbf{5 0 0 0}$ solution) as adrocated by Dr. Senmett, incisiou $\grave{a}$ - deur temps, and opening by means of caustic paste. He preferved in such a case as above, when the symptoms were urgent, to incise the cyst in one operation, and clear out the daugliter cysts.Dr. EDDison thought it was very important to know whether secondary cysts existed, as, if not, recorery would follow tapping. Even if the daughter cysts were killed by puncture they would remain as foreigu hodies.-Dr. MLajon thought that " hyditid fremitus" was rare and fallacious.-Mr. Mayo thought there was danger of the eseape of fluid after simple tapping.-Dr, Giriffitu had seen many cysts aspirated, but even when the Huid was very thin there had been no extravasation. IIe had seen only two cases of suppuration after tapping.-Mr. Macile adrocated tapping as easy and safe. He hat tapped one cyst six times. The severer operation could be done afterwards if necessary. In doing the operation described by Mr. Robson, he would prefer stitching up the peritonemm before the cyst. Mr. Mayo Robsos, in reply. said he would always tap in non-urgent cases. He liad seen serious syoutoms from drawing off small quantities of fluid.

The Treatment of Eimpyema of the Maxilhary Simus-Dr. A Dolf bronner descrifed this condition as liable to be produced hy disease either of the teeth or nose, but iu most cases he thonght it was secondary to a condition of hypertrophic rhinitis, the disease of the teeth being secondary to this. In all cases of uniflaterul recurrent chronic rhinitis, this condition should be suspected. He preferred the method of opening from the midule
meatus of the nose by mons of instruments devised for the purpuse by Dr. IIartmann, of berlin, and by Dr. Krause, which he exhibitem. The usual plan of perforating through the alveolar process had the advantuge of allowing good drainage, bat there was a constunt dropping of pus into the month, and food penotrated from the month into the eavity. He described four cases in which tho antrum was opned from the nose, and washed out with boric acid or mercuric chluridn solution. In one cuse the sense of smell returned after leing lost for sixteen years. - Mr. Trasas said bo has heen treating chronic diseases of the mucous membrane of the nose by more vigerous measures than he used to adopt, namely, forcible scraping.-Mr. Jusson had been using the curette inucli of late, operating With the patient's head hanging down. 11e referred to a case of lupus in which he had scraped $n$ large amount of periosteum from the hard palate, but a complete covering to the bone was reproduced. He said that a similar condition might arise in the nose after forcithle abrasion.-Dr. Jacon preforred the galvane-cmntery to the curette in hypertrophic conditions of mucons wembrane.

The Prevention of Ophthalmia Vomatorum.-Dr. Belle, after reminding the Society that 72 per cent. nf the bliad in England were so from this perfectly pre rentable condition, and that there were 10,000 1,lind in the country, urged the Society to make some organised attempt to stay the spread of this disense. The affection occurred mostly anneng the children of the poor, attended by isnorant midwives. Intiseptic midwifery had reduced the mortality in lyingin hospitals from $\&$ per cent. to 1 in 500 , and a similar result might he obtained ly applying the same principles to the prevention of nphthalmin. A petition from the Ophthalmological Society to the Government that the registrass of births might disseminate the information had leen referred ou the seore of the expense which would be incurrell ; hut this was much overrated. The Committee of the Bralford Eye and Enr Hospital supplied the registrar of births with slips of paper on which were printed plain directions, which he gave to ench person registering a birth; and the total cost for the liradford district did not exceed 25s., At this rate it wouk cost hut $£ 30$ for the whole of England.-Mr. Jpasan?, Mr. Mayo Ronsox, and Mr, l'rint made some remarks
Infholngical Specimens.-1. Killners: Suppurative Pyelitis with Dilated Creters: Bladjer with slight Enlargement of Middle Lobe of I'rostatr. E. Donblo Orarian Cysts removed from a Pregnant Woman. 3. Oraries and Tubes showing early Broad Ligament and Parovarian Cysts.

Apparatus-1)r. Tempest Asinfersos: 1. A simple Eye SpecuInm:*. A Bench for Operations on the Eyes of Children; 3. $\Lambda$ varying Cylindrical Lens.

## REVIEWS AND NOTICES.

The Dispases of tife Breast. By Tmomas Bryatt, F.R.C.S., M.Ch. (Ifon.) Royal I'nisprsity of Ireland: Senim Surgeon to, and Lecturer on Surgury at, Guy's Hospital: Vice-President, Chairman of tho Court of lixaminers, and IIunterian l'rofessor of Surgery, Royal College of Surgeous of England, etc. London: (dassell and Co., Limited.
A mastraf, written by an experiencel hospital surgeon must nerassarily bo of ligh malne and interest, more especiully when, as in this case, the author has already shom literary capacity in the same department of medical mulueation. A goorl surgeon and locturer cannot always tench hy his pen. hat Nr. Busant is enlnwerl with that talent. In this work, the nuthorlins epitomised has clinical and surgical knowledge, whilst he has been aided in preparing the scientitle department by 1r. Gonelhart and Mr. C. Sivmonda, likewise mang full use of the researclins of Creighton, patlin, and many other british and foreign pathological authoritiea. It the same time it imst he understood that fhiseraces of the lircast is easentially practicul rather than scientilic. The right pages of chromo-lithographs show, hy the excellence of their "xecution and the truthfulness of their colouring, how greatly this branch of art has improvel in this country: Mr. Bryant's subject iannt the most difficult to demonstrate by the resources of the ioneil and paint-lirush, but diacasml hreasis have often bern very hanly arawn, whilat in thia work they are thelineated and coloured with great care. There are but thirteen woodeuts, all cither Ifotvings of disensed breasts and nipphas or of the microscopical proarances of tumours, with the solitary exception of lig. 6 ,
which represents the operation of excision of the breast. Operations on the breast, it is trn', are not readily explained by drawings, but a fow sketches explaining the devices for retaining drainage-tubes and other technical details would have been advisable. No instruments are thgared, but in the surgery of the breast spocial apparatus is hardly ever employed.
A manual on Ar. Bryant's subject must be chiefly devated to tumours, for obvious reasons: still we are glad to lind that nearly one-tifth of the 351 pages of Diseases of the Breast includes descriptions of the mature and treatment of other morbid conditions. The management of abscess, and the prevention of suppuration in the enrly stage of inflammation, are subjects of the highest importance to practitioners. Mr. Bryant has quite rightly allowed an entire chapter to supernumerary breasts and nipples, not omitting the remarkable milk-producing tracts of integument or axillary lumps described by Dr. Champneys. Any medical man may come ncross pathological curiosities, and therefore naturally expects to find some account of them in his manuals. He has not always the time or opportunities required for searching for desired information in archives of learned societies. Mr. Bryant has not overlooked this truth. The latest researches have been noted, as, for example, the facts brought to light during a discussion on galactorrhoea, at the Obstetrical Society, in Febrnary, 1887. Anongst rarities which are particularly instructive, we may quate the author's remarkable case of syphilitic disease of the breast, which was infiltrated with gummata and sloughed out entire within two years. Mr. Bryant has not overlooked the singular cases of inflammation of the breast which last for months without suppurating, and where the chief symptom is codema.
The chapters on thmours, however, are the most important in this book.. Clinieal facts in relation to the subject, very abundant as we all know, are well condensed, and the cases which illustrate the history of special tumours and special symptoms are carefully selected, and reported in a readable and instructive form. Mr. Bryant directs, in his description of the operation for the removal of a benign tumour in a young woman, that the growth should be shelled out of its capsule after a free incision of the latter. He apparently does not believe in nuy attempt to remore the tumour elegantly, with capsule uncit. He notes that large benign tumours, even up to seven pounds, may be removed from a gland, the breast thus left intact being capable of performing its true functions, and, that, under these circumstances, it is the surgeon's duty to atterupt to save the gland, even when it may appear hopeless, especially in the case of a patient still in the child-bearing perion of life. Mr. Bryant publisbes cases which illustrate the frequency of enlarged axillary glands in association with adenofibromil, the cnlargement disnppearing after the removal of the tumonr.

Mr. Bryant writes, in his first chapter on carcinoma: "All evidence tends to show that carcinoma of the brenst, as of other parts, is in its origin more a local than a constitutional disease, and that. It becomes a general one in a secondary way by what has been described as 'local infection,' and ' vascular or secondary infection." The author tinds that out of his own 360 cases of cancer in women who had bornc children puerperal mastitis had occurred at some antecedent period in 80 , but it was almost impossible to make out that the cancerous tumour originated at the seat of scar or induration. Mr. liryant lias much to say on the obstinato eczema of the nipple which l'aget and others have described as the frequent precursor of cancer. In the 600 consecutive cases of cancer in the authors own practice (see table, page 149), he bas only recorted 3 cases of this form of eczena; but he also published notes of 3 moro which have occurred in his experience, 3 out of the entire fi proving their malignancy by a fatal termination withont any operation being performed.
In conclusion, we may note that some instructive obscrvations on the curious perlunculated papilloma of the nipple are to be found towards the end of the volumnt and in the same portion of the work are some valuable clinical reports in cases of galactocrle. and a useful "Summary of tho Diagnosis of Tumours of the" Breast.

Tnfatment of Ilvintib Cysts.-l'rofessor liaccelli, of Rome, recomments that a merasured quantity ( 10 centigrammes) of fluid slould be withirnwn witle the aspirator, and a corresponding quantily of a 3 per I, 0\% solution of corrosive sublimate at one injecteri into the cyst. In two crises in which this plan was adojetal, the tumour gradually diminished till it almost entirely disapp ared, and in tem days the patients were able to get up.

Euthanasia; on Medical Treatment in Ain of an Easy Deate. By Willias Mune, M.D., F'S.A., Fellow and late Senior Censor of the Royal College of Plysicians, etc. London: Longmans, Green and Co. 1887.
When the medical art can do $n 0$ more to arrest the progress of discase, and when metlical science can but sorrowfully attempt to estimate the short span of days or hours yet remaining, it is too often assumed by the laity and accepted by the professien that the physician las no further duty towards the patient. How erroneous this opinion is it does not take much cxperience of medical practice to learn, and most physicians worthy of the name will have learnt for themsclves the lessons which Dr. Munk has to teach in this essay on the means for procuring an easy death. The term "euthanasia" has been somewhat narrowed in its meaning during a controversy which took place in the magnzines a few years ago, and is often made to signify the procuring death by easy means, whereas it ought to be nnderstood to mean easy nr painless dying.

The means for procuring cuthanasia are well worthy of study; but therc is one objection which may fairly le urged against this volume, namely, that the subject is not one which permits of being' treated in a detarhed essay. Dr. Munk limself observes that "the process by which death is brought about varies greatly in different instances, and this according to the disease or the organ of the body from which it essentially results;" and we confess to being of the opinion of Sir Henry Halford-""a master," says Dr. Munk, "in all that concerns the management of the dying"-whe by his example showed that the suljeet ought to be considered in relation with each type of risease, and consequently made his observations "iucidentally in the course of his varions essays.

Apart altogether from any ohjections which may be urged on general principles to the selection of the topic, the book is disappointing in its performance. A lively recollection of Dr. Munk as the reviser, annotator, and continner of the Gold-Headed Cane led us to take up his new rolume with expectations which have not been fulfilled. An unnecessary amount of space is given to the quotation of authorities to prove that the last few moments of the death struggle are not attended by pain; in a work addressed to physicians, as may be presumed from the anthor's official connection with the Royal College of Physicians this is, it was hardly pecessary to discuss at snch length a matter about which there is very little question, even in the minds of the laity. Chapter I, on the Phenomena of Dying, and Chapter II, on the Symptoms and Modes of Dying, consist of little more than a long string of quotations from the published works of Sir Henry Halford, Sir Benjamin Brodie, Sir Thomas Watson, and other writers who have treated of the phenomena of death in its various forms. We obscrve incidentally, as an instance of the great advance which has been made in the education of the profession, that it is hardly possible to imagine any practitioner of medicine in thia country at the present day falling into the mistake attributed to a enllcague by Sir Henry Halford in a passage quoted at page 38.

When at length we reach, on page 65 , the real anbject of the book, we find the author, when he has to put before us kuowledge which he has really assimilated, capable of many judicious observations; he comments, for instance, on the mistaken kindness of administering food, except in small quantities, adapted to the diminished digestive powers of the stomach; on the value of aleohol, especially of madeira, tokay, and brandy when taken with food; of elampagne as a rapidly diffusible stimnlant; of oplum for the relief of pain, or of the sinking feeling in the epigastrium ; snd of ether in dysponea.

In conclusion, we may quote with approval, if not the English, at least the opinion expressed in the following sentence: "The ferrer the drugs and the less of medicine we can do with in the treatment of the dying the better."

The volume is well got up in the old-fashioned style dear to xsthetic poctasters. Is a matter which also concerns the pullishera as well as the author, we may mention that the volume contains too many examples of bad reading, as, for instance, on page 92, lines 1 and 2 .

Consumption of Aquavit and Beer in St. Petrrsmerg.In 1S8f the inhabitants of St. Jetershurg (about 930, mo) have consumed $1,951,701$ velros ( 1 vedro $=2.7$ gallons $=12.3$ litres) of spirits $\left(40^{\circ}\right)$, or 2.1 vedros per person; and $3,236,305$ vedros of beer, or 3.5 vedros per one inhabitant. (Iratch, No. $4,1888,1$, 77).

The Year-book of Treatment for 1888. London: CaseelI and Co.
Tire contribntors to this Iear-book of Treatment undertake cach a department, and as they are twenty in number, and each of them competent for critical discrimination of the matcrials of the year, the result is the production of a conrlensed and handy hook of about 334 pages, which affords a very useful retrospect, As is convenient in a book of the kind intended for English readers, a good deal of attention is given to foreign periodicals; and as cnttings are more easily made from Amcrican papers than from those of which the extracts need to be translated, the American journals come in for a rery full share of attention. It would be idle to attempt to reriew a book which is itself made up entirely of small abstracts, but after careful examination we can say that the work is very well done, and we would select for esperial commendation the articles of Dr. Mitchell Bruce, Dr. Goodhart, Mr. Arthur Cooper, F.R.C.S., Dr. Berry Hart, and Dr. Charles Henry Ralfe. That of Mr. Edmund Owen is somewhat diffuse, imperfect, and not altogether free from egotism. The section contributed by Mr. Reginald Harrison shows indications of haste and is not very complete. There is a very useful index of subjects. It may be a matter of some interest to the readers of the Jocrnal to learn that, as might have been expected, the immense sourees of information and mass of original matter contained in its volumes are laid heavily under contribution, and that the aeknowledged extracts from our pages are more numerons than from any other periodical. Moreover, it is noticeable that a considerable number of the articles referring to papers read at the annnal meetings of the Association and of the Societies are really quoted from our pages, though not so credited, and 80 with varions articles from Swias, German, and Rnssian sourees. It wonld be more judicions and more correct if in all cases the double reference were given.
As in most compilations of the sort, there is a notable deficieney of the sanse of proportion; thus, while some subjects of little moment are treated at great length, especially in the department of surgery, it may be noted that in more than one instance the leading subjects of the year are either passed over almost unnoticed, or but slightly developed. This is especially notable in the surgical parts of the book. Thus, to the work of Lawson Tait there is only one reference, the name of Apostoli oceurs only once in the index of authors quoted, the name of Spencer Wells only onee, and the name of Victor Horsley not at all. To those who are competent to form an opinion of what have been the chief surgical work of the last twelre months, this speaks for itself. Georgi finds a place fonr times and Fränkel six times, Senator three timea, Cohn three times.
It would be well if the editor of such a book were to make up his own mind what were the principal subjects of the year, and to give his departmental compilers instrnctions accordingly. It is one of the disadvantages of a book of this sort that in respect to really moving topics of the year, as to which, of course, it should be the most useful, it is out of date almost before it is published, Thus Apostali's treatment, which receives sueh a meagre notice, is dealt with in a way which gives no idea of the present position of the queation, which has been so much influenced by the experience of Keith and others. Little insight can be gathered from this year book into the achierements of grnaccological surgeons, or of the surgery of the nervous system. Still, taken as a whole, the book is interesting and instructive.

## NOTES ON BOOKS.

Animal Magnetism. By Arfren Braet and Charles Feré, Assistant Physician at the Salpêtrière. (London; Kegan Paul, Treneh, and Co.) 1887.-This work is an addition to that valuable collection, the International Scientific Series, and deals in a popular and untcehnical manner with the history, progress, and phenomena of the condition which, under varions names, has been exploited by charlatans and, more recently, investigated by scientific men. The authors, in their descriptions, apply to facts observed in the Salpêtrière IIospital, in accordance with the method inaugurated by M. Charcot. to whon we are indebted for so much of what we now know of the recondite phenomena of lyypnotism and suggestion. The reader is warned at the outset that the work only aims at giving an account of special researches, whieh, notwithstanding their number and rariety, will not justify general conchusions. The earlier history of mesmerism is toler-
ably well known, hut tha subject has not been serionsly studied so far in this conntry, althongh one of the earliest adepte, Mr. Jmmes Brad, was a surgent practising in Itanchester. Jle it was wha, at a time when the matter was practically given uy' to yuacks and momntebands, directed the gutstion into its projer feld-that of obevation and experiment. With all lis ardoner and success. howerri, hraid left no successor wortly of the mane, and it remmined for I'rofessor Charcot to take up the subject, und investigate it on seientific principles. A chapter is devoted to the application of hypnotism to therupentics, but it would not seems that any services are to he anticipated from it except in the treatment of symptoms which, for want of a better expression, it has inen arreed to call "hysterical." There is much reason, inded, to crelit lypuotism or its collateral conditious with the curatibe results which follon jilgrimages and the operations of "faithhealurs," A far more scrious and thorny guestion is that which hears on the medico-legal asject. The impuirment of wolition which resulta from repreated induction of this condition is a finctor of which the law ought to take cognisance, though at present our knowledge is not such as to warrant in didactic treatise of jurisjrudence hased thereon. The book is well written and exceedingly intereating rud instructive, but the subject is not altogether adesiruble one for perusal hy the general public.
:-Ahothis: a Satire ors Modern Medicine. By Thomas C. Minor. (Gincinuati: Robert Clarkes and Co. 18s\%.)-This satire, conceived sumbeccuted in a style which is wow fortunately out of date, introluces to the notice of the reader Doctor Paulus Androcydes and him fet cat Anubis, the latter being in reality a certain litypitim, dihothis by mame, who dated from forty-five hundred years before the dawn of Christianity. Out of gratitude to the destar for having restored to him his hmonn and corporeal being ly the aid of divers incantations and uncanny gestures, after Eo nuny centuries of metempsychotic rieissitudes, the Egyptinn rellinina furthwith dislocated his benefnctor's soul from his body: sall took him (or, rather, that part of him) off on a jannt round the city. jeering on their way into the modern sickrom, in, which they found much to excite their ethereal hilarity or, us, the author expresses it, they indulged in "ripples of spiritiaa langhter." We need not follow the unhallowed couple an their runut, which comprised risits to the motern consulting-room, hospital, and pharmacy. Wherever they went and whatever they saw afforded them an apparently much-relished opportunity for saying disngreeable things about the preseat condition of the art and practice of medicine. Among many valuable discoveries, they found that the modern hospital was run in the interest of the doctor rather than that of the sick, and that the label on-a loptle in a modern pharmacy was no sure guide to its contents. Natwithatanding the largo demands which the author makes on our literary credulity, the book is uncommonly dull reading, and the auther's friends should dissuade him from carrying his observations in this direction any further.

## REPORTS AND ANALYSES

DESCRIPTIONS OF NEW INVENTIONS,
IN MEDICISE, SURGERE, DLETETICS, ASD TME: ALLIED SCIENCTES

FORCEIS JOR POST-NASAI, CROWTIS.
Wumst removing post-nasal growths with löwenberga forepps and the several modifications of it, I hase found a certain defect in connection with all these instruments. This is that owing lis the ahary cley only occupying a portion of the end of the instrument, it is frequeutly iuppssible entirely to cut off the piece of growth held between the blades, the portion not cut of having to bo born away, thus produciag, in cases where the growth is thick and tough, more subsequabt inflammation thau would otherwise have resulted from the operation.

The renson giren for the cutting edge being made only on the uplur and posterino part of the instruments is that the grow ths are usunlly attached exchavively to the upper and posterior walls of the nasi-pharyux, and that, tlaerefore, a sharp edge is only required in those situations. Although what is thas stated with regard to the usual position of the growth is a fact, the deduction is pirumeons, because the piece of growtl grasped ly the forcejs,
is frepuently larger than the end of the instrument, and has an nttnchnent greater thas the length of its cutting edge, and a harger surface from before backwards than that covered by the hades. It is evident, therefore, that the instruments hitherto employed cannot remove such a piece entirely by cutting


In the instrument which thas been made for me by Meyer and Meltzer, of 7I, Great Portland Street, the defect mentioned above has been remedied by the entire circnmference of the blades being made sharp, so that the piece of growth hetween them can be cut out completely. To further ensure the piece of growth which bas heen seized being thoroughly divided, one blade of the instrument has been made to pass inside the other, after the manner of punch forceps. The end of the instrument has also been fenestrated, to prevent a thick piece of growth interfering with the complete serering action of the blades.
The edge of the instrument has been made only moderately sharp because I have found that when the cutting edge of the forceps is very keen, the hemorrhage which follows the operation is more profuse than when the blades are blunter.
The instrument was exhilited in the Anmual Musoum at the late meeting of the Association in Dublin.
3, Mansfield Street, W. T. Mark Havtll, FII.C.S.Ed.

## AUTOMATIC APPARATUS FOR DISINFECTING AND DEODORISING SEWER-GAS AND SEWAGE <br> (R. HARRIS REEYES'S PATENT)

Thes is an apparatis for the evolution of sulphurous acid gas and oxygen by means of an automatic mixture of strong sulphuric acid with a solution of permanganate of 'soda. The apparatus is placed in a chamber under the roadway, which is in communication below with the sewer by a rentilating shaft, and above with tho external nir by a grating. The sewer air, in its ' passage through the chamber, is deodorised by the sulphurous acill and oxygen before escaping into tho outer atmosphero. The solution, formed by the mixing of the sulphuric acid and permanganate of soda, which contains a considerable percentage of pormanganic acid, is allowed to orerflow into the sewer bolow, where it becomes mixed with the sewage, and-if employed in sufficient quantity-deodorises it.
A very large number of processes for deadorising sewer air are now known to the sewage engineer, but very few have been found to he practically useful. Putrid sewage which gives oft foul-smelling gases is iudoubtedly a dangerous nuisance, but the proper remely is to improve the construction of the sewers and form proper gradients, rather than to allow the nuisance to arise and then seek to remedy it by chemical disinfecting agents. l'revention is better than cure in sewerage as inil other watters, fund is also in the end a great deal cheaper. To deodoriso putrid sewage or foul-smelling sewer air successfully, enormous quantities of chemiculs must be need, at a proportional cost, or the result is not satisfactory. It is far hetter to replace the old sowers of "stagnation and deposit" by sewers? constructed on modern principles, which convey everything away from the town in a fresh and undecomposed state. If this is done, sewer ventilation loses nuarly all its difficultios. Mr. Ilarris Reeres also claims for his system that the solution containing permanganic acid, which overtlows into the sewer, acts as a precipitant as well as a deowlorant. It appears to us that it is not wise policy to add precipitnting agenta to sewage at a distunce from the outfall and suthing tanks. Such a proceeding, except in good sowers of rapid gradient, is likely to lead to deposit of sediment in the

Preserss, Chmetiais paid a visit to the London IIospital, Whitechapel, on Supday afternoon, walking through several of the wards and to the nursing bome.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscriptions to the Association for 1888 became due on January
1st. Members of Branches are requested to pay the same to their respective Secretaries. Bembers of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Office, High ILolborn.

## The Gritish ftedical 3ournad.

## SATURDAY, MARCH 3RD, 1888.

## ABERNETHY ON TUMOURS.

IT is a tault of the present age to ignore the work of preceding generations. We imagine that discoveries we have inherited from our fathers are really to be placed to our own credit. Thus a writer in a modern System of Surgery says of tumours: "Their anatomical classification was, a few years ago, little more than a suggestion." ${ }^{\text {"1 }}$ Yet eighty years before this was written, John Abernethy had published in his monograph $O n T_{\text {umours }}{ }^{2}$ a new classification, which was a purely anatomical one, carried to as high a degree of perfection as was possible with the inferior histological knowledge and appliances at his command.
His system was eagerly adopted by his contemporaries as a great advance orer all preceding ones. Even his initial definition of the word "tumour," though by no means perfect, was a real improvement over that of any previons author. They understood the word in its widest meaning of "a swelling," and included in their descriptions diseases of arteries, veins, glands, tendons, joints, and bones, which had really nothing in common save the one feature, with what we understand to-day and what Abernethy, understood by the word "tumour."
So widely was Abernethy's system accepted by his contemporaries, that it was not until many years after his death, and then only by a gradual process of replacement, that a clinical classification drove his anatomical one out of the field, to be in turn discarded in our own day in favour of an anatomical system not differing materially from his own.

Abernethy's theory of pathology was complete and attractive enough in itself; and it was perhaps the requirement of this theory which originally led him to attompt an anatonical classification of tumeurs. He began with an observation of John Hunter's,' "that the cavity", (of a certain aidomen) "b being opened, there appeared lying on the peritoneum a small portion of red blood recently coagulated. This, upon examination, was found connocted to the surface upon which it had been deposited by an attachment half an inch long, and the neek had been formed
${ }^{1}$ Holmes's Systom of Surgery, third edition, I, 243.

- "An Attempt to form a Clarsification of Tumours according to their Anatomical Structure"' (Aberviethy's surgical E'ssays, 1804, I, I.
g "Such swellings as arise fronr gome nen" productlou which made no part of the original composition of the body. Abernethy. loc. cit.
- Related by Sir Evorard (then Mr.) Lome (Tramsactions of a Society for the Improvement of Medical and Chirurgical Knowledge, 1, 231).
before the blood lost its red character." From this $\Delta$ bernethy concluded "that there cau be little doubt but that tumours form everywhere in the same mauner, the cosgulated part of the, blood being either accidentally elfused or deposited in, consequence of disease, become afterwards an orgauised and living part by the growth of the adjacent vessels and nerves into it. When the deposited substance las its attacluments by a single thread, all its vascular supply must proceed from that part, but in other cases the vessels shoot into it irregularly at various points of its surface. Thus an unorganised concrete becomes, a living tumour, which has at first no perceptible peculiarities as to its-nature. Though it derives a supply of nourishment from. the surrounding parts, it seems to live and grow by its own independent process. And the future structure which it may acquire seems to depend on the operation of its own ressels." Abernethy goes on to remark that the tumour is in structure sometimes like, but more frequently unlike, the part near which it grows; and on this ground he comes, to the same conclusien as that set forth in the last paragraph, mamely, "that in many, cases the nature of the tumour depends on its, orn action and organisation; and that, like the embryon, it-merely receives nourishment from the surrounding parts."

He explained malignancy by the following theory:-" The effused coagulable part of the blood," which on his hypothesis, was the origin of all tumours, might be deposited from the effects of accident, or from a common inflammatory process, or on the contrary it might be the result of some diseased, action of the surrounding parts and vessels, which would influence the organisation and growth of the eonsequent tumour. In the former events he saw the origin of all innocent tumours, in the latter of malignant ones. Innocent tumours did not returu after operation, becanse the parts surrounding, being merely the source whence the new growth procured its nourishment, had ne power of reproducing it when once it had been remored. While malignant tumours, being originaliy produced by the diseased action of neighbouring vessels or tissues, was, upon remoral, owing to a continuance of the same action, at onice replaced by a second unhealthy effusion, which had in general the further development into a fungrous growth.

Misled by the classificatory craze of his day, which saw no difficulty in arranging the morbid products of disease, in as complete and interdependent a system as that introduced by Linneus into the kingdom of Nature, Abernethy classified tumours as follows:-
Class:-Local diseases.
Order:-Tumours.
Genera:--I. Sarcomatous, tumours. II. Encysted tumours. III. Osseons tumours. IV. Cartilaginous tumours.

The first genus (sareomatous tunuours) he subdivided into. eight species: 1. Common vascular, or organised sareoma. 2. LAdipose sarcoma. 3. Pancreatic sarcoma. 4. Cystic sarcoma. 5. Mastoid or mammary sarcoma., 6. Tuberculated sarcoma. \%. Medullary sarcoma. 8. Carcinomatous sareoma.

[^39]Ry "sarcoma "and "sarcomatous," Ahernethy of course only indientes tumours having a firm or fleshy feel, and these terms ano most noarly represented in modern nomenclaturo by the exmession "solid tumour." They hear the rolation to modern sarcoma of an original term of widest signification narrowed down in course of timo by a gradual procoss of elimination, to a special significance which etymologrically the word was never intendod to bear.

Of Abernothy's "sarcomatous tumours," the "common vascular or organised sarcoma is represented nowadays by the word "fibroma," and his clinical description of the kind is admirably truo and graphic. He believed this to be the original form of tumour producod by the organisation of an effused elot, and was ovon inclined to think that all tumours are, in the first place, of this structure. His second species "adipose sarcoma," is of course tho samo as the modern "lipoma."

It shows how far Abernethy was in adranco of his contemporaries and successors in close and accurato observation, that Chelius should write, so lately as 1847: "Tho pancreatic and mammary tissues are to beconsidered as accidental modifications of the modullary." This is no doubt true of Abernethy's mammary sarcoma, hut in his pancreatic sarcoma ho was evidently rescribing "adonoma," the following characteristies being decisive. It was, in the first place, liko the pancreas in appoarance of strncture, generally occurred in young adults, and most frequently in the femalo breast; although it sometimess caused lancinating pain and enlargement of neighbouring glands, ${ }^{\text {a }}$ it was most amenable to treatment, did not recur when removed, was encapsuled; while any onlarged glands at once subsided nfter the tumour was operated on.

Abernethy draws a clear and just distinction between cysts and cystic dogeneration, making of the formor a distinet class, and placing the latter as one of the species of his solid tumours under the term "cystic sarcoma."

It is almost certain that, in his tuberculated sarcoma, ho anticipated Wilks by nearly fifty years, and that this species is the samo as Horlgkin's disonse. Hut hy Abemethy's immediato successors, it was compared with quito other and distinet pathological conditions; they were not sufficiently observant to accept at its full valne his careful diagnosis.

His remark on medullary sareoma could be inserted in the most modern work (but only in tho most modern work) on tumours: "The term cancer is objectionable, because it conveys an crroneous idoa of tho nature of modullary sarcoma; for this disease, though perhaps equally destructive, will bo shown to bo unlike cancer in its nature and progress."

Abernothy, then, desorves credit for having worked out an anatomical classification of turnours, which was far better than any which had preceded it, or rathor was the first intelligent step in such a direction; and it was also a griant step, for his system will bear a vory farourablo comparison when rioword by the light of modern research with that of his successor South, or of Liston,

[^40]and, indecd, comos"neuror to our present classification then any previous one wo know. His clinical observation was most accurate, and, with one oxeeption (that of mammary sarcomat), overy ono of his species is nccepted as a distinct one, eran in the present ficrec light of new histological processes and morles of research. His opinion that malignant tumours wero of local origin is also in advance of his age. Yet fow anong us recogmise this of Abemethy; we know"him as a distinguished surgeon in his day, celebrated for brusqueness and impationce of -manner, but"occupying a larger space in our jest book thean our system of surgery.

And this_ is the one great loss we have, sustainod by modern methods of original obscrvation and rescarch. Up to the time of John.Hunter, men were obliged to. road and quote the works of deceased lauthors, 'back to 'tho very' earlicst age, in order to procure acceptance for their own views and discoveries. This was destructive of all originality, but proserved from oblivion the name and fame of the mighty dead. To-day we noglect the works of our fathers in"favour of those of our own contemporaries and immediato prelecessors. Our students grow up with a pitying contempt for the benighted conviction of the elder writers on' disease. They are accustomed to rely on original observations for knowledge and for success. And so science is the gainer, but the individual is the loser; our discoveries are either falsified or forgotten whon we dic, and our very name slips into the sea of forgetfulness.

Who will undertako the great task of research required to bring out the great succosses of our forefathers, to write a history of medicinc, if only in unfinished portions, and to replace such men as John Abernethy on the podestal they ought to occupy in the Temple of Fame?

## TIIE METROPOLITAN WATER SUPPLY.

The somewhat unceremonious rejection by the House of Commons on Tuesday last of the Bill promoted by the Grand Junction Watorworks Company, is not a causo for ummixed satisfaction; but if, by the attention tlus drawn to the matter, tho settlement of the important question of the water supply of the metropolis gencrally can bo brought a stago noarer solution, Londoners are to be congratulated. We havo long insisted upon the incroasing unsuitableness of the Thames as a sourco of domestic water supply. At present tho supply for moro than half tho inhabitants of " Greator London," that is to say, some two and a half millions of souls, is drawn from the Thames after that river has rocoived tho crudo sowage of Staines and other towns, as well as such polluted tributaries as the Woy. It has been estimator? that tho sewago of some 70,000 persons entors the Thames above tho intakes of the Metropolitan Water Companios. Wo would havo boon glad, therefore, looking at the matter simply from the point of viow of the sanitarian, if tho first real inclication of an effort to obtain a purer supply had been allowed to receive a fuller and more scientific consideration than could possibly be given to it on a motion for the second reading of the Bill.

The course of the discussion seemed to show that the Houso
was not acquainted with all the circumstances. The Grand Junction Waterworks Company have at present power to draw $20,000,000$ gallons of water daily from the Thames, and this limit has not yet been renched. For this privilege they pay an annual rent to the Thames Conservators. Formerly' they took all their supply direct from the river, but in 1882 they obtained permission to construct works at Hampton, by which they were enabled to intereept the pure spring water to he found in the gravel beds in that neighbourhood before it reached the Thames, and also to utilise those heds as natural filters. The good results which followed this experiment led other companies to take a similar course ; but recently the progress of building operations in the vicinity of the works, and the erection of houses draining into cesspools, have seriously endangered the purity of the subsoil water. Hence the proposal of the water company to obtain their supply farther up the river, and to adopt the plan, advocated in 1884 in an interesting but neglected report by Mr. J. Thornhill Harrison, C.E., one of the engineering staff of the Local Government Board, of tapping the chalk and gravel beds in the neighbourhood of Dorney and Windsor, where vast quantities of pure water are obtamable.

The opposition to the scheme is based on the assumption that, if adopted, the volume of water in the Thames would be seriously reduced, that the mud would silt up, that even the foundations of Windsor Castle would be affected, and that the trees in the Park would be injured. It is urged that the beauty of the river would be impaised, and that the pleasure of a number of people would be interfered with, whilst the river would become dangerous to health in its upper reaches. If these consequences were certain to follow, no arguments could justify sanction of the scheme; but they are disputed by the promoters of the Bill, and Mr. Ritchie, with his official knowledge as President of the Local Government Board, could not accept them as proved. As Lord Randolph Churchill observed, it is a scientific question, which eauld only be satisfactorily ventilated before a Select Committee.
It is unanimonsly admitted that at some time, which has already been too long ilelayed, and which at tho present moment scems as remote as it has seemed at any period since Sir R. Cross's ill-fated scheme fell to the ground, the water monopolies must disappear, and the ratepapers must take the matter into their own hands. It is very necessary, therefore, that Parliament ihould continue to look jealously on any tendeney on the part of the water companies to inerease the value of their undertakings. But, although the companies deserve little sympathy, their powers of supplying wholesome water must be the first consideration for sanitarians. We hope that ere long the whole question of the London water supply may be fully investigated by a Special Commission.
Meanwhile, the legal proceodings instituted by the Thames Conservators with the view of putting a stop to the discharge of the unpurified sewage of Staines into the Thames have receired a eheck. The Local Sanitary Anthority contend that they de not own the sewers in question, and that they have no power to
prohibit the diseharge of the sewage. The question is to be argued in the Queen's Bench Division on some more or less remote date, and, pendinio the legal decision, London must continue to wait and endure.

## PECENT RULING AS TO EXPERT EVIDENCE.'

A recent ruling by Mr. Justice Day, at assizes in the NorthEastern Circuit, will searcely commend itself as a means hest tending to the promotion of equitable verdiets in criminal cases; when the plea of insanity is raised on behalf of the prisoner. In the case referred to, a prisoner having been indicted for the murder of two indiriduals, a jury was empanelled in order that it should be ascertained, in the first place, whether he was or was not in a fit condition to plead. A medical witness being asked the question whether, in his opinion, the prisoner, when examined by him, was sane or insane, it is reported that the learned judge would not allow the opinion of the medical witnesses to be given upon that point, and restricted their ovidence to matters of fact as to what they saw or heard, in their examination of the case, bearing upon the question of sanity, which the jury were sworn to try, and with regard to which counsel were not permitted to elicit the expression of medical opinion. Practically, this ruling reserved to the jury, and to the jury alone, the right to express any opinion in the court-any opinion, that is, having influence on the trial-as to the existence or non-existence of insanity, that is to say, of a form of disease. The importance of this ruling is magnified, and not lessened, by the fact that the judge is stated to have expressed his intention to deal in a similar manner witl the eridence of scientific and expert witnesses in any and every hind of case, whether medical or other.
In the case affording the basis for these remarks, evidence was given as to the existence of numerous and extraordinary delusions; and, after an inquiry lasting more than threo hours, the jury found that the prisoner was fit to plead, and he was put upon his trial aceordingly. Eventually, the jury found the prisoner guilty, but also found that he was insane at the time he committed the acts, and he was ordered to be confined as a criminal luatic during Her Majesty's pleasure.
The ruling above mentioned is' all thelmore opon ta criticisim, as regards what its effect might be in certain eases, inasmuch as it followed immediately after a trial elsewhere, in which, as reported, the expression of medical opinion as to the sanity or insanity of a prisoner was permitted by Mr. Justice Mathow, and acted upon by the jury, under circumstances apparently quite similar to those under which the expression of such opinion was prevented by Mr. Justice Day, as we have already briefly recounted.

Earnestly desirous as the members of a jury are to hold the balances evenly, it is quite impossible that ther can form as accurately-grounded an opinion as a medical expert upon the frequently difficult and delicate question of the existence or nonexistence of insanity. For a man to have close and intimate ;
practicnal knowledge of some part of the field of soience is, in somo quartora, apparently a roason why his deliberately-fonned opinion on a subject within the aphere of his studies ahould bo suppressed in a court of law, and the point at issue be docided by untrainol minels. Carry this to its logieal eonclusion, and wo must sot up ignorance as a clief qualifiation of thoso fittod to decido sciontific questions !
In cases of the kind roforred to; it would bo well if indepeedent and expert medieal ovidence was secured by the initiative of some publio authority.

TIIF: honour of knighthood has been conferred upon Dr. J. W. Tyler, C.l.F., the well-known superintendent of Agra Gaol, Sir John Tyler's duties brought lim at the time of the Indian Exhibition, and again last year during the Jubilee, under the personal notice of the Queen, and it is, the Pioneer belieres, at Her Majesty's own wish and instance that the honour comes to him.

## THE LUNACY LAWS.

Ters Lord Chancellor's Lunacy Bill was issued on Wednesday last. In a memorandum it is stated to be substantially the same measare as that which prased the llouse of Lords last year.

RETREATS FOR DIPSOMANIACS.
In perpetuating the llabitual Drunkards' Aet of 1879 (limited to expire next year) a Bill introduced by Dr. Cameron, M.P., would enable the licensee of a retreat to appoint from time to time a deputy to act for lim during his temporary absence. Such an appointment, howerer, must be approred by the inspector of retreats. Another modification of the Act deals with the attestation of an habitual druakard's signature on his applying to be admitted to a retreat. The attestation by one magistrate is sulstituted for that of tro.

THE UNIVERSITY OF LONDON.
THE next meating of Convocation of the University of London will take place on March 6th. Mr. James Anstie, Q.C., Mr. E. H. Busk, and Mr. 1I. A. Nesbitt have been nominated for election to the Senate on that occasion, but the contest lies between the two first named. l'rofessor Silvanus Thompson has given notice of a motion requesting the Senate to consider whether it woull not be desirable to confer ad eundem degrees upon those graduates of other universities who hold professorships in University and King's Colleges, 80 that they might be admitted members of Convocation. Several motions referring to the achemes for reforming the unirersities and asking for further information or suggesting amendments also appear on the agenda paper.

## POST-GRADUATE LECTURES, CHARING CROSS HOSPITAL.

Tire secand course commenced on Friday last by a lecture, on Dyspepsia, by Dr. Julins Pollock. At the conclusinn the members held their business meeting, Wr. Walford in the ehair. The Secretary's report showed that 140 practitioners hind joined, and that, on an average, 75 had attended ench lectare. The issuo of coupons, which are available for twelve months, and give the members more than two opportunities of using them, han given great satisfaction to the memburs. The staff and governors had greatly assisted in promoting the auccess of the class. The Treasurer's report stated that, after paying all debts, there remained in hand sufficient money to cover all the coupons in the hands of the members. A proposal to publish the lectures had been warmly taken $u p$ by the class, and arrangements were being made for carrying it out. It was felt by all concerned that the provision of systematic post-graduate teaching was 2 great boon
to the practltioner of London and the aurrounding district. Yotes of thanks were passel to the goveraora and the staff for their assistance, and to the Secretary and Treasurer for originating and organising the courses.

## ROYAL MEDICAL BENEVOLENT COLLEGE.

Tir: May elections of the, Royal Medical Benevolent College at Epsom are once more at hand, and the governors and subseribers are being importuned to pledge their votes for particular candidates in whom the writers take a kindly anid special interest, and for whom they solicit support from their personal friends. Circulars, moreover, are being distributed with influential names attached to them specially to solieit such votes from the governors. Without any reference to any particular ease, it is our duty once more to express our regret at the disregard of the eorclusions arrived at after thorongh investigation and discussion at the meetings of the governors.- At these meetings it was resolred that, in the best interests both of the candidates and of the institution, such canrassing should be discontinued, and that the selection of candidates should be entrusted to a committee, who could carefully, and dispassionately weigh the speciai claims of one candidate against another. A system of canvassing by which the candidatees whose friends have funds at their disposal, or who may have the adrantage of the sympathies of a few influential persons, or of perzons attached to some especially large hospital or school, or have in other directions a large connection, ought to be condemned; by virtne of these quite adventitious circumstauces, auch eandidates acquire unjust advantage over others whose claims may be orerwhelmingly greater, but whose very neeessities and friendlessness, which should constitute their best claim, are thus turned to their disadrantage. Ereryone must desire that the election to the benefits of the College should fall to those persons who stand in most need of it, and not to thoise who are most influentially connected, or who have the largest command of funds for the costly process of sending out cireulars and of organising a canvass for rotes. We would earnestly recommend the governors to abstain from all promises, and to reserve all votes antil they have the opportunity of seeing the full list of applicants and the report thereon by the Committee of the Governors of tho College:

## WALSALL COTTAGE HOSPITAL.

The medical profession has ever recogniscd the great diseretion which nurses as a body have brought to the discharge of the important duties eonfided to them, and it is eomparatively seldom that any individual member orersteps the sphere of duty which properly belongs to a nurse. An instance has unfortunately recently been afforded by the "sisters" of the Walsall Cottage llospital. The sisters, we are informed, do nearly all the work of the out-patient department, and a recent inquiry has shown that they 'treat fractures without surgieal supervision, and it is reported that over a thousand fractures have been thus treated. A well-informed correspondent relates, the following ineident: "A lad with à fractured fibula was sent there by a medical man. Sēreral days after he inquired of the mother how the lad was: her reply was: "The sister aays it is not broken; it is only a bal sprain." He told her to bring the boy out again. He said at once it was broken, and ought to have been put up four or five days ago. These things are of daily occurrence. The sister in charge earries things with a very high hand, and gives the wretehed patients herrings on Fridays throughout the year, even if the doctor orders meat for them." : Such high-hended proeeedings only need to be kuown to be condemned, and it is not surprisiug to be told that the people of Walsall, for whose benefit the Cottage IIospital exists, are losing confidence in the institution under its present management. It would also seem to be desirable that the funda of the Walsall Sea-side Home should be audited and published,
and that this institution-now, we are informed, managed by "Sister Ellen," of Walsall-should be put under the control of a committee properly elected by the subscribers in the customnry manner.

## REFUSAL TO ADOPT PASTEUR'S METHOD IN NEW SOUTH., WALES.

Recentli representations were made to the Minister for jines, New South Wales, in farour of the introduction of disease amongst rablits with a view to their extermination. The proposal was regarded by Mr. Abigail with disfarour, and a notification has been published to the effect that heary penalties will be strictly enforced against persons who introduce, diseased rabbits, and that the officers of the department have been instructed to guard against, the introduction of such animals. The reception which awaits M. Pasteur's emissaries, who have just sailed for the colony in the Orient Line mail steamer Cuzco, is therefore somewhat doubtful. Most bacteriologists slare to some extent the fears of the Minister of Mines; it is felt to be doubtful whether we jet kuow enough of the potentialities of this minute organism to render such an experiment justifiable. M. Pasteur himself las done more than any other investigator to teach us how profoundly their virulence may be modified by ensironing circumstances. It is impossible to foresee what may be the ultimate consequences of the experiment which it is proposed to make on so gigantic a scale. The mere fact that the microbe is capable of producing fatal disease in two animals so dissimilar as domestic poultry and rabbits ought to serre as a warning tliat it may possibly develop into a pestilence affectiug other :species of animals, and even man himself; for it ought to be remembered that, once the disease is introduced into the rabbit warrens, it has passed beyond human control.

## THE MEDICO-PSYCHOLOGICAL ASSOCIATION.

The quarterly meeting of the Medico-Psychological Association was held at Bethlém Hospital on Friday, February 24 th, at 4 p.m. The chair was occupied by the President, Dr. Needliam, and there was a very full attendance. Dr. Hughlings Jackson read a paper "On Post-Epileptic States." A special general meeting mas subsequently held to consider the recent appointment at the Hayward's Heath Asylnm. Letters expressing great indignation were read from Drs. Clouston, Yellowlees, Brushfield, and others; and a petition, numerously signed by assistant medical officers, was read, protesting against the circumstances of the appointment. Resolutions were passed, "That this Association is of opinion that it is highly desirable that medical superintendents of asylums should have spent, before their appointment, some time as resìdent medical officers in asylums, or in the study of mental diseases in these institutions;" and "That the qualifications in medicine and surgery required for the medical superintendent of an asylum should not be such as to preclude the application of a large proportion of suitable medical men engaged in the department of mental medicine."

## THE EDUCATION AND REGISTRATION OF PLUMBERS.

Lamge and representative meetings have been held recently at Edinburgh and Dundce in connection with the national movement for the education and registration of plumbers... This movement is now spreading extensively over the United Kinglom, and we are glad to learn that at botli these meetings, at which the trade, the medical profession, and the public were well represented, resolutions were passed such as those which have beeu passed in so many other great cities of the kinglom, warmly approring of the scheme, and appointing. representative persons identified with health and public interests as well as the plumbing . trade, to form local councils: The Edinburgh meeting had the
great advantage of the presidency of Sir Douglas Maclagan, than whom no person is better qualified to form a judgment on the subject, or possesses more entirely the esteem and confidence of his own profession, and of the public generally. It is obvious that the system of examination must be arranged so as to secure au adequate minimum; and the advantage of having representative local councils in each of the great cities acting together, and in cooperation with a central body on which they are fully represented, is rery considerable. This is, indeed, the only condition under which public confidence can be secured, and a downward competition prerented. The petty local morement which has been started in Edinburgh will not, we are convinced, receive serious consideration when the true bearings of the question are generally understaod, and we are glad to see that Sir Douglas Maclagan, as well as the plumbing trade generally in Edinburgh, fully appreciate the importance of establishing the movement on a national basis, while leaving adequate local freedom to the local councils.

NEW WING OF THE HOSPITAL FOR SICK CHILDREN. A special court of the gorernors of the Hospital for sick Children, Great Ormond Street, was held on Wednesday, February 29 th, under the presidency of Lori Aberdare, for the purpose of sanctioning the commencement of the construation of a new wing when the building fund amounted to, $£ 15,000$. It was pointed out that the fund had been found insufficient for completing the new hospital proposed in 1870, and that only a part of it was finished in 1874 , since which erery effort had been made to secure funds for carrying on the work. They were enabled to raise a fund of $£ 6,000$ last Jear, and $£ 10,000$ was now available for the building. The Council had fixed on $£ 15,000$ as the sum, necessary to hare in hand before proceeding to build further structures. The meeting was asked to sanction expenditure for constructing the foundation and drainage of the new wing, and to authorise the commencement of the new wing when the building fund amounted to £15,000.

## HOW TO SPREAD SMALL-POX.

Mr. Merrisg, of Leeds,' continues his efforts at Sheffield for the special treatment of small-pox and the stamping out of the epidemic." The "stamping out,"process is illustrated in the contents of the advertisements calling bis meetings. At one it is advertised that "several cured patients will givetheir experience,", and that at another " a number of persons benefited by their treatment will be present and testify." In adrertisement in the, daily, papers of February 25th appeals to the public for funds to " meet the necessary expenses of a treatment which has done and is doing so much to rid the town of the disease." It states also that it is three weeks since the man Herring came to the town, so that the dangerous condition of at least some of the people advertised to attend and testify at his meetings on February 16th and the later one may be realised. Is it any wonder that infection spreads: especially when the character of the gatherings he calls together is considered?

## ST: JOHN'S HOSPITAL.

The Editor of Truth, in a characteristically bold and fearless maiutenance of public rights, has taken up the case of the alleged mismanagement of St. John's Hospital, as to which statements of considerable public interest hare recently been made. The Duke of Northumberland and other leading persons connected with the hospital having resigned in consequence of the refusal of the Board to permit a full inquiry into the management on behalf of the subscribers, the Editor of Truth has repeated and ra-enforced a challenge, and applied for permission for an independent investigation in the public interest. This having also been refused, he
now summarises scrinus chargea of mismanagenent: and, after Fiaftrming them in ocategorical and aggressive form, he challenges an issue at $\operatorname{lan}$, and invites those who have refused the inguiry to a legal investigation hy the ordinary course of legal action. It remains to he seen whether the managers, after refusing investigation by a committee on lehulf of their subseribers, will submit to the imputations of mismanagement thus publicly made, or whet her they will take action for their self-rindiention.

## GALLANTRY REWARDED

Mr. Iffanmey llame, student at the Bristol General Hospital, has been presented by the Mayor of that city with the Stanhone gold medal of the Royal Hamane Society for having performed the most meritorions and gnllant rescueduring the year. The circumstances are worthy of record. Leaping into the Avon at Clifton Bridge Station on October 1Sth last, he, under most difficult eircumstances, rescued a young girl from drowning, and, though greatly cxhansted by his efforts, brought her ashore, and adopted prompt measures to restore animation. On being restored to consciousness he removed her to the Bristol General llospital, where, under the care of Dr. Newnham, she was ultimately restored to her friends and family:

## NEW MEDICAL CLUB.

A אew club, entitled the "Galen Club," has been founded at 30, Sack ville Street, l'iccadilly, in convenient quarters and a central position, for the purpose of affording to members of the medical profession the conveniences of a club-house, having the some adrantages of social intercourse as are attainable in clubs devoted to the political, literary, dramatic, sporting, and other classes. The Galen Club will be controlled by a committee of medical men of undoubted character, as is cridenced by the list of the first committee. The elnb will be provided with bedrooms, as well as the other ustal features of a London clubhonse. There is at present no entrance fee, and the annual subscription for town members is four guineas, country members two guineas. While the elub-rooms are being prepared, communications should be addressed to the secretary, Mr. Walter Paterson, 47, Albemarle Strect, Piecadilly.

## SEA-WATER FOR TOWNS.

AT a time when ominous reports as to the abnormally low condition of the water supply in many populous places are being published, It may be interesting to call attention to a propesal emanating from Mr. Ellis Lever, of Bowdon, near Manchester, who, looking to the fact that many of the busiest and most populons towns are within Afty miles of the sea, suggests that not only London, but other important towns, might luave a plentiful and nnfniling supply of sen-water brought in pipes from the coast, where it is clenr and free frem pollution. Mr. Lever recounts the many sanitary purposes for which sea-water can be used, and refers to its invigorating propertics; its use for watering streets; for closits, flushing sewers, and extinguishing fires, for which purposes it is more effectual than the ordinary watcr supply,

## COLOURED LIGHT IN THE TREATMENT OF INSANITY.

Dr. Ponza, medical superintendent of tho lunatic nsylum at Alessandria (Italy), reports some experiments which he has made on theeffect of coloured light on lunaties. The idea ras suggested to him by the nbservations of Kohert IIment on the favourable effect which light transmitted through violet-tinted glass haul on the development of nimals and plants. Ur. l'onzn selected rooms with as many windows as possible, and he had the walle painted of the same colour as the window-punes. A patient suffering from melancholia, who would not cat, was placed in a room with
bright red walls and windows; in three hours he became quito cheerful and asked for food. Another lanatic, who alwuys kept his hands orer his moutls to keep out nir and nourishment, was placed in the same room, and the next day he was much better, and ate with a hearty appetite. A violent manae was placed in a blue room, and became quiet in an hour. Another patient, after spending a whole lay in a violet-coloured room, was completely cured. Theoretically this appears to be a very interesting experiment, but we have gool reason to believe that in practice it is of little real service. It had one very good effect, wheh was that it inducud the madical men who were making the experiment to spend a good deal of time and attention on the patients who were under treatment. One German medical man. who risited Alessandria said it was " most excellent for the doctors." It is probable that in some future day electric light may be used for the darker parts of asylums, and then we shall be able to see whether electric light will serve to develop vitality in men as it has been proved to do in plants. In many persons of unsound mind the whole vital energy is defective, and the medical officers often feel a sad want of something which will produce energy. Stimulants of one kind and another are tried, and do some good; but we should welcome some more general natural means of improving the general health. The asylum physician looks to food, warmth, and exercise as his great assistants; and if electricity, or blue or yellow rays, can be added, so much the better.

THE ILLNESS OF THE CROWN PRINCE.
Wre learn ly special telegram from a most authoritative source at San Remo that the Crown l'rince of Germany is slowly improving, though he has not made such good progress towards recovery from the immediate effects of the operation as it is considered he ought to have done. There is still great irritation in the trachea, which is probably attributable to uleeration of its inner surface cuused by the tube, or to extension downwards of the laryngeal disease. We are deeply grieved to say that it oppears to be only too probable that the case has now entered on a phase which, unfortunately, gives grounds for the most serious apprehensions. Sir Morell Mackenzie is no dombt technically justified in declining to accept the diagrosis of cancer as proved until it has been confirmed by a microscopic expert of unimpeachable authority; but the hope that the judgment of men of such high scientific position as Professors Fon lergmaun and hinssmaul may be reversed on appeal is, it mast be confessed, very slender. It cannot be too much deplored that, in a case of sneh importance to the world at large, national jealousies should have been allowed to interfere with the harmonious working together of the medical men in attendance, and we cannot help feeling that the publication of their mutual recriminntions in the lay press is undignilied and injurious, not only to themelves, hut to their profession. Wo say this with the fullest nppreciation of the difficult and even painful position in wbich they have throughout been piaced, partly owing to the obscurity of the case itself, but mostly to the diplomatic reticence which has heen imposed on them. We do not feel it necessary to discuss the relative advantoges of Eighish and German tracheotomy tubes, nad we can only hope that the diffeulty of finding an instrument to fit comfortably has by this timo been happily surmounted. It is a curious commentary, by the way, on the "officious" denial which was given in the Times to the statement on this subject which was made in the Jouranal last week, that Sir Morell Mackenzie, after having had two different tubes sent out from lingland, is said to have been obliged personally to superintend the construction of a new one at San Remo. In connection with this matter, we may mention that Sir Spencer Wells, on rcading the paragraph referred to in the Jocrival. last Snturday, at once sent off to Sir Moroll Maekenzio by post some simple contrivances which he had snccessfully used
as substitutes for tracheotomy tubes more than twenty years ago. These are small dilators, of a shape which may be leseribed as something between an ordinary eye speculum and a serre fine: this is introdnced into the trucheal wound, and keeps its edges apart. Mr. Colding Bird, we believe, brought a somewhat similar instrument, designed for the same purpose, before the profession a few years ngo. We are informed, however, that it has not been considered necessary to use these instruments in the case of the Crown Irince.

## METHYLAL IN DELIRIUM TREMENS.

AN interesting note on tho volue of methylal, the new hypnotic described in these pages on October 22nd, 1897, in the treatment of delirium tremens, has been contributed to the Therapeutische Monatshefte (February) by Professor v. Krafft-Ebing, of Graz. Acting on the advice of Merck, the well-known pharmacist, he employed au aqueous solution of the strength of 1 in 10 as a hypodermic injection ; each injection contained 0.1 gramme of methrlal, and in this strength produced only slight and transient smarting. Thus administered it was found that the drug only produced its effect after an interval of about two hours; if sleep was not produced after between twe and three hours, the injection was repeated. Twenty-one persons were thus treated, about half the number being slight cases; in 6 instances sleep was induced by 1 injection, in 10 by from 2 to $t$, in 3 by from 5 to 8 , and in 2 by from 10 to 20 ; deep, plysiological, refreshing sleep, which sometimes lasted treuty hours, was then obtained; in other cases, the patient slept for two or three hours to wake again delirious, but the treatment being persevered with, the prolonged so-called critical sleep always ensued. Professor r. Krafft-Ebing considërs methylal to be the best sedative and hypnotic in delirinm tremens which he has ever used; it has no depressing action on the heart, but rather the contrary, and it is followed by no unpleasant aftereffects. He considers that it is likely to be. useful in insomnia and restlessness due to inanition or cerebral anremia, but that it is contra-indicated in cases where there is cerebral hyperamia. The very small doses which were found to be adequate give special importance to this communication.

## LORETA'S OPERATION ON THE STOMACH.

Digitar, dilatation for fibrous stricture of the pylorus, which wis first practised by Professor. I'. Loreta, of Bologna, in 1882, lias already in his hands giren most satisfactory results in a large number of cases. The Riforma Medica of February 18th contains an account of a caso in which the operation was recently performed by Dr. Loreta, which is of special interest owing to the detailed way in which it is reported. In January last a man, 54 years of age, but locking much older, owing to his wasted and careworn appearance, came under the professor's care with the following history:-lle had been excessively intemperate both in eating and drinking, and had suffered from severe dyspepsia since 1872 . In 1880 lie began to be troubled with romiting, which occurred regularly four or five hours after taking lood. The stomach was visibly dilated, and a splashing sound could be heard on succussion. Mieroscopic examination of the romited matters gave negative results; neither blood, starchgranules, nor sarcinæ conld be detected, No tumour could be felt in the lypochondriac or epigastric regions; the abdumen yielded readily to pressure with the hand, which, however, caused a slight amount of pain. At the place where this tenderness was most pronounced, a hard fibrous cord was felt at a point corresponding to the situation of the pylorus. On lannary 30 th, after washing out the stomach with an alkaline solution, Irofessor loreta nade an incision along the linea alba from the xiphoid cartilage to the umbilicus, and exposed the stomach, which was deawn partly out of the weund and opened about midway betwem the greater and
lesser curvatures. The index finger was then passed into the riscua in the direction of the pylorus, through which, however, it could not be pushed. A large-sized urethral hougie and afterwards an cesophageal sound were then passed through into the duodenum. By this means the stricture was so far dilated that the operator was able to get his finger through the pylorus and draw it over almost to the abdominal wound. The index of the loft hand was then also passed through on the right as a guide. The pyloric orifice was then dilated by forcible divulsion with the two fingers, a proceeding which the tightness of the stricture remulered very difficult. Finally, the wound in the stomach was closed by continuous, and that in the abdominal wall by interrupted, suture, and an antiseptic dressing was applied. On February 9 th the wound was healed, and the patient had completely got rid of his troublesome symptoms. Digestion was perfect, vomitting had entirely ceased, and the man had lost the look of suffering which had been so marked before the operation. Dr. Maurizio Bufalini, who reports the case, says that not a single instance. of relapse after. Loreta's operation lias yet been heard of.

## A MEDICAL ACTS AMENDMENT, BILL IN FRANCE.

The practice of medicine is regulated in France by a law passed on the nineteenth of the month Ventôse, in the year IX, otherwise March 10th, 1803; during the past five years a series of proposals liave been made by various individuals and societies for a new law. Two rival Bills, both laving some sort of official sanction, are now before the Chamber of Deputies; one of these, drawn up by the Standing. Committee on I'ublic Ilygiene, has been adopted by the Government; the other lias been drafted with mueh care, and after very full consideration of all the interests inrolred, by a Parliamentary Commission nominated ad hoc, on' the motion of Dr. Cherandier. Both measures maintain the distinction between the two classes of medical practitioners, the doctors of medicine and the officiers de santé, and the Government Bill would restrict the latter to practice in country districts and towns of less than 10,000 inhabitants. Dr. Chevandier*s Bill contains no restriction of this kind, and further, has a clause giving officiers de santé of two years' standing the privilege of obtaining the degree of M.D. after undergoing two examinations and presenting a thesis. Dr. Cherandier's Bill is framed in a much more liberal spirit, also, towards foreigners practising in France; it accepts the principle of reciprocity, and enacts that qualified foreign physicians, of whatever nationality, possessing diplomas which have been recognised to be equivalent to the French diploma, shall be authorised to practise. in France aud her colonies. Where reciprocity does not exist the candidate would be subjected to two examinations-would have to sustain a thesis; and to obtain a special dispensation. The Government Bill does not recognise the principle of reciprocity, and would require every foreign M.D. to submit to one or more examinations; Dr. Chevandier's Bill, moreorer, would empewer the Jlinister of Commerce to graut special licences permitting a person possessing a rucognised foreign degree of M.1)., who is in attendance on a patient to practise in a Frenel watexirg-place or winter resort. The regnlatious with regard to the illegral practice of medicine; of pharmacy ly a \$.D., or of midwifery by an uncertificated midwife, would be very stringent under either Bill: the chief difference is that the Government Bill would attempt to regulate the practice of dentistry, while the Parliamentary Commission thinks such provisions premature. A medical practitioner, whether M.D. or officier de sante, is under the existing law forbidden to dispense his own drugs, and this regulation would be fully maintaiued by beth Bills, the only exception permitted being where there is 110 plarmacy; within four Lilometres. Dr. Chevandier's Lill is framed in a wise and lideral spixit, and under it the position of linglish practitioners desiriug to practise in France would be greatly improved, since the aledical
$\therefore$ ct (1826) recognises the principle of reciprocity, and contains elaborate provisions for its application.

## SCOTLAND.

## EXTENSION OF ABERDEEN UNIVERSITY BUUILDINGS.

Intimation has heen given to the Sematus Academicus of Aberdeen University of the intention of the Goverument to offer a grant of $£$ i, 400 (subjoct to certain conditions) towards the carrying out of the proposed extension of the University Buildings. At a meeting of the Klans Committee of Aberdeen Town Council last week a plan of the proposed extension was submitted, but decision in the matter was deferted until a more detailed scheme has been formulated.

## the glasgow obstetrical and gynecological SOCIETY.

Tue fifth mecting of the present Session was held in the Faculty Hall on the evening of Vehruary $22 u d$, Dr. Abralan Waltace, Iresident, in the chair. Dr. Nigel Stark presented his report on the dysmenorrhoenl cast shown hy Dr. Yurk at the meeting of December 2Sth. He found it did not yield under the microscope any of the classical features of such membranes; it gave, for example, no eridence of utricular glands. Dr. Park then read a cllnical history of the case, which exhibited the combined phenomena of djsmenorrhoea, metrorrhagia, and hydrorrhcea, extending over a prolonged period. The patient was a lady, aged 36. Dr. l'ark also showed a number of specimens from çases of mucons disease of the colon.

ROYAL EDINBURGH ASYLUM, MORNINGSIDE.
-As nsual, Dr. Clouston, Medical Superintendent, Morningsido Asylum, Edinburgh, made some interesting observations in his annual report submitted to a meeting of the corperation of the institution hold on Monday, and presided over by Lord I'rorost Sir Thomas Clark, Bart. One obserration showed that, allowing for increasc of population in Stidlothian during the last ten years, there was only I per cent. addition to the insane admitted into the asylum from the county during that period. The death-rate was only 6 per cent. during last yoar in the asylum, and a large number of the deaths was of patients who had only been in the noylum for from three to six months. The gencral bealth of the inmates was shown by the fact that the mean age of death had risen during the last fifteen years; in the five Jears 1873-77 inclusive, the mean age at death was 49.4 ; in the next five years it rose to 51 , and during the last flve years it had risen to 52.4 , and last year it was 53. Dr. Clouston mentioued these facts specially in connection with the recent structural alterations, improved dictary, larger nursing staff, and new hospital arrangements, to which the results trere andoubtedly largely attributable. Of 282 patients discharged during tho year, 182 were recovered, 24 relieved, and 26 not improred. There had been an unusual number of cases treated where the mental condition was coincident with adyanced cardiac disease. The number of cases of gencral paralysis of the ineane kept low, and Dr. Clouston said there was some connection betweon this and tho anforced sobriety and better living of these mprosperous years, os compared with the years of pienty-and of inllated wagne, 1873-77. With regard to the total retnrns for the gear, it was stated that in the beginning of the year there rere 783 patients, and on Ducember 31st, 1887 , there were anf, inclulling 14 aboent on probation; there were 36.5 patients admitted during the yar , of whom 185 were men and 180 women; altogether there wore 1,158 patients under treat: rnt. During the year 222 had heen dischargeml, 184 men and 148 wron. The denthe numbered 70 , and were those of 47 men and 23 wemen. The average number of patiente resident was 803.

The number of admissions was 31 orer the average for the previons years, and had only onco (in 1878) been equilled in the history of the inatitution. Is to prirate patients, 104 had been admittel ; this was 15 orer the average, and the rate-paid class 367 , or 16 over tho average. Nore patients. from the higher classes had to be refused admission than in any previons year owing to want of accommodation. Dr. Clouston's report was farourably received, the Chairman speaking of him as undoubtedly the right man in the right place.

## IRELAND.

## DEATH OF DR. CHARLES CROKER KING

The illness of Dr. Croker King, Medical Local fovernment Comnissioner, terminated fataliy on Tuesday, February 28th. "IIe hat been suffering lor some weeks from gangrene of the foot; which followed the cutting of a corn. The appointment thus left vacant is worth $£ 1,200$ a jear. There are already several candidates, amongst whom are mentioned Dr. O'Farrell and Dr. Hamilton Burke, Local Government Board Inspectors, Dr. Archibald Jacob, and Dr. Henry Fitzgibbon.

DEATH FROM HYDROPHOBIA.
A deatir, reported to be cluo to hydrophobia, has occurred this week at the Mater Misericordie IIospital, Dublin. The patient, a woman uamed Mary Curtin, was bitten by a greythound on the lip about a month ago. On Febmary 22nd she had a shivering fit, and was remored to the hospital, where she died on Febriary 26th. The greyhound, it is said, dicl not exbibit any signs of rabics, but had strayed from its owner, and received no food. At, the inquest the jury found a verdict that death was oansed by hydrophohia.

THE IRISH CONJOINT BOARD.
ON Wednesday, February 29th, in the' Chancery Division, befare the Vice-Chancellor, Mr. Serjeant Hemphill applied, on behalf of the Attorney General, acting at the instance of the l'resident and Fellows of the King and Queen's College of lhysicians, for an injunction directed against the Covernor and Company of the Apothecaries' Mall, the College of Surgeons, and against Dr. Robert L. Ileard, Registrar of the Irish Branch of the General Medical Council, declaring that the Governor and Company of the Apothecaries' liall were not entitled to hold a qualifying cxamination under the Medicul Act, 1886, or to grant a diploma in respect of medicine within the meaning of that Ict, and also that tho Apotbecaries' Hall and the Collego of Surgeons were not entitled to enter into a combination for the purpose of holding a qualifying examination under the Act. The case is proceeding.

## MERCER'S HOSPITAL, DUBLIN.

Tree case of Mr. O'Grady v. Dr. Kinight and 'other Govemors of Mercer's Ilospital was again before the Vice-Chancellor on Monday, on a motion' to have the action dismissed for want of prosecution. 'It was brought hy the plaintiff for an injunction to restrain the defendants from removing him from his oflec of surgeon. The Vice-Chancellor decided that thero was a formm domesticum, and the inquiry was then held, the resnlt of which has been already reported in our columns. Mr. O'Grally now sub)mitted to the application of tho general hody' of frovernors that his action should be dismissed with costs, but resisted the apulieation for easts on the part of Dr. Knight. The Vice-Chancellor dismissed tho action in both eases, with costs. With regard to the case' of Dr. Kuight, it was admitted that the 'pinintiff had no intention of proceding with the action, and therefore, of course, an order to dismiss it for want of prosecution mist be madc. Hc regretted. hat he was obliged by the practice of the court
to arrard costs against the party whose suit was dismissed for mant of prosecution. Ile expressed that regret because lie thought it only just to the plaintiff to state that he considered that great public good had resulted from the aetion he had taken, although it.: appeared to have been in point of form, and in point of form only, a mistaken proceeding. IIe trusted that what had occurred in the case rould make a change in the way in which this Board of Governors had been acting in reference to the institution, a great part of them entirely neglecting duties which, Lby the fact of their being, Governors, they must be deemed to have undertaken, and others allowing mattera to go on in connection with that hospital which came out on the former motion. The result had been practically to aequit Mr. OGrady of the charges brought against him. In dismissing, the action against Dr. Knight, therefore, he dismissed it with £10 costs, to be paid by Mr, O'Grady in connection - with the injunction motion, and six guineas costs of the present application.

WESTPORT UNION: PUERPERAL FEVER.
Is the Achill district about a dozen deaths have recently taken plaee from puerperal ferer-a Iarge number considering the scanty population. The guardians consequently have requested the Local Government Board to send down Dr. Todd, their medical inspector, to investigate the matter.

## NAVAN UNION: SLANE WATER SUPPLY.

Dr. Richard Cronin, medieal officer of bealth, states, in a communication to the Local Government Board, that the water which is about to be supplied to the inhabitants of Slane for domestic purposes is quite unfit for use, and dangerous to health. The supply is fromi a disused quarry where eats and dogs are frequently drowned, and where liquid manure is drawn in from a large dung heap above the level of the quarry. Dr. Cronin, aithough the caedical officer of health, very properly complains that he was not consulted directly or indirectly in a matter of such importance. The only excuse the guardians have given is that they intend to filter the water.

## SCHOOL OF PHARMACY.

The directors of the Apothecaries' IIall, Dublin, announce the opening of $a$ School of Pharmacy in which teaching will be provided for students proceeding for licence under the conjoint scheme. The following is the course. I. Preliminary.-Pharmaceutical nomenclature and abbrevintions; the weights and measuresiof the Britich Pharmacopceiz, and how to use them; the processes and apparatus of the British Pharmacopeia, namely, filtration, maceration, percolation, trituration, pill-making, plaster-spreading, etc. II. Officinal Pharmacy.-Systematic exercises in the preparation of officinal eompounds, and the application of the Pharmacopaia tests for purity. 111. Ertemporaneous Pharmary.-The reading in full latin, compourding and dispensing of prescriptions, and the study of incompatibles. The fee for a three months' course will he f. 3 ss .

## BRAIN SURGERY IN DUBLIN.

IT a meting of the Surgical Section of the Royal Academy of Hedicine on Friday last three successful cases of trephining were reported, and the discussion upon tho papers was adjourned to a future night. These cases were all remarkable. Professor Thornley Stoker rearl particulars of a case in which a man fell from a cart while drunk. He came to the Richmond Hospital somo days later, rather stupid, and with some lightly-marked paralytic symptoms. It was not easy to determine whather he had not had an attack of apoplexy. The paralysis becoming more marked, Mr. Stoker trephined in the region of the Ifissure of

Rolando-there was no fracture-and struck the margin of a blood clot. IIe again trephined and more fully exposed the clot, Which was washed out. The area só compressed was about three inches, and the clot measured nearly an inch, in depth. The patient recorered and was exhibited. Sir W. Stokes read a paper on a case of successful trephining for cerebral abscess, and exhilited his patient. The man had been struck with a poker on the left side of the mesial line of the head, and about an inch anterior to the coronal auture. He was treated as an outpatient at another hospital, but viltimately applied at the Richmond, when he was admitted, sereral weeks having clapised from the date of the injury. He soon presented brain symptoms, became convulsed and comatose, and it was determined to trephine. A small fracture was found under the scar; the dura mater bulging into the wound, an exploring needle was introduced to the depth of an inch'and a-half, and pus ras at last found. The dura-mater was then incised, and one otnce, and a-half of pus was evacuated. The pationt completely recorered, and is now attending to his ordinary work. The paper noted eleren other cases of abscess mhich had been operated upon by various surgeons, and discussed the questions involved. The third case tras brought forward by Dr. C. B. Ball, of Sir Patrick Dun's Hospital, and the patient was also produced. The Iad had been struck with a small knife over the squamous portion of the -left temporal hone ten days before admission. The wound was healed, hut he had some aphasia. Pain in the head and ear superreued, and the aphasia increased. It was determined to explore. Me was trephined some weeks after the original injury. A wound Was found in the dura mater corresponding to the puncture of the - hone. A sinus forceps was passed in, the wound opened up, and some blood clot escaped. The patient was decidedly'better but next morning he was again aphasic. The wound was washed out, and more blood clot escaped. The a phasia almost disappeared, but two days later it returned, and the wound mas again washed. After this the patient progressed farourably, and is now rell. Dr. Ball pointed out the rôle of the brain lesion, as indicated by the various symptoms of aphasia. The group of cases was a very remarkable one, and the record of them cannot fail to influence the views of surgeans on the subject of brain surgery.

## THE SIR GEORGE BURROWS MEMORIAL PORTRAIT.

## President: Sir Whlitam Jenner, Bart., K.C.B.

 Committee:Sir IIenry A. Ritman, M.D.
Menry Monro, M.D.
Richard Quain, M.D.
William Munk, M.D.
John Wm. Ogle, M.D.
George David Pollock, Esq.
Sir Alfred IB. Garrod, M.D. Robert Martin, M.D.
James Andrew, M.D.
William Selby Church, M.D.
Trobert L. Bowles, M.D.
Treasurer: Sir Dyce Duckworth, M.D., 11, Grafton Street, Piecadilly, W.
Secretary: Edward Lireing, M.D., 52, Queen Anne Street, W.
The above Committee has been formed for the purpose of obtaining a replica or copy of the portrait of the late Sir George Burrows, hart., paiuted by G. Richmond, R.A., for presentation to the College of Physicians, London.

Subscriptions, not exceeding one guinea eaeh, may be sent to the Treasurer, Secretary, or any member of the Committee, who Will also be happy to receive the names of gentlemen wishing to join the Committee.
Tur, "Queen"s Register" is the title of the superbly bound manuscript volume containing the names of all donors and collectors of enrds received by the Central Committee of the Countess of Dufferiu's Fund in honour of Mer Majesty'a jubilee year, which, together with an address, has becn transmitted to the QueenEmpress.
money on tuition. All must spend their time, whieh is money to a young surgeon or his friends. As evirlence of this, we may say that last year of 142 candidates who presented thenselves for the first examination for tho followship, 67, or 47 per cent., were rejected; and of 58 who presented themselves for the final oxamination, 27, or 46.5 per cent., were rejected. All these candidates had gone through the special training required by the College regulations.
The "reply" then details the so-ealled privileges of Members. Most of these are merely the ordinary rights which no member of any society can be denied, of entranee into the common roems; and some of them (for example, admittance to the Museum) rest not on the pleasure of the Couneil, but on Act of Parliament. But as to the eligibility of Members, who are not Fellows, for the Lxaminerships, the "reply" is most misleading, to use no stronger term. It is true that certain of the Junior Examinerships have lately (and since the beginning of the agitation carried on by this Association) been thrown open to Members: but it is distinctly the reverse of the fact to say that tho Members are allowed admissions to all Examinerships except those for the Fellowship. They are not eligible on the Court of Examiners, the only body which admits to the Diploma of Member.
The authors of the "statement" to the Lord President made no complaint of the original creation of the order of Follows by election. On the contrary, we would remind your lordship that we merely gave a critical explanation of the trausaction, and expressed the opinion that no such order should be perpetuated now, but that the only entrance to the ordinary Fellowship should be by examination.

The next clause, which relates to the proposal that a Member should be qualified by a certain seniority before he can rote and before he can become a candidate for a seat in the Council, seems strange to us. Such seniority qualifications exist in the present constitution of the College, nud will continue to exist even if the modifications proposed by the Council are introduced into the charter. But the weakness of the argument of the "reply" on this particular is so obvious tbat we need not labour the point.

Still stranger is the clause about by-laws. The "reply" states that "delay and difficulty" would be caused in the passing of a by-law by an nppeal to the Fellows and Members. We say, on the contrary, that such an appeal need not involve one day's delay. In the rery " olaborate" process of making a sufficient for calling a general meeting so that no delay would occur if the Council close to eall this meeting iu the interral (at least a month) between the first vote at which the by-law is accepted and the next meeting of the Council to confirm this rote. That the proposal would entail "difficulty" in passing as "statement," we cordially on your lordship's consideration. Even, however, if the promess of new by-lats were to be somewhat slower, where would be the harm? The Council has had a working experience of 87 years and it is scarcely conceivable that any occasion should arise for the urgent and hasty alteration of a by-law. And we cannot forbear again to remind your lordsbip that the Fellows and Members are bound to observe the by-laws without at present the power of opposing nny addition or alteration made in them.
With regard to the election of President, we may say, without fear of contradiction, that the routine method uniformly followed up to the time of the first re-election of the present l'resident in July, 1886, is generally disapproved, and that the fact that the President las now been twice re-elected does not afford any guarantee that the former custom will not be resumed as soon as it is thought that public interest in the matter hao subsided. With regard to the ohjections to our proposal stated in the "reply," we answer (a) that while the great body of the Fellows mny never have been specifically consulted in the matter, the general principle was adopted at the meeting of pellows and Members held in 1884 , and liy every member of this Association: ( $b$ ) that the proposed arrangement is exactly that which prevails for Meminrs of council, and whieh has not proved an insurmountable obstacle to the present councillors coming forward as candidates. nor has the fact that the l'resident of the College of l'hysicians is elected by a general mecting of the Fellows preventen the most eminnt men in the profession frond coming forward for the presideney of that hory; (c) that if the Council are the best judges of the qualifications of their own Bombers for the presideucy;
they have never exercised any such judgment, but have, up to eighteen months ago, passed the office round in rotation; (d), (e), and $(f)$ that these supposed objections apply equally to the present mode of election to the Council, and from their not producing any of the supposed results, may be inferred to be imaginary.

We caunot but most earnestly protest against the assertion in the "reply" that the College is not a "political" institution. A body having functions and pririleges derived from the State, and laving such important duties, and responsibilities both to the public and to individuals, cannot be called private, and its wellbeing and good government are matters of general concern.

As to the results of the inquiries made by the Council, they are perfectly worthless for the present purpose, since the opinion of the Fellows was not asked as to the actual proposals of either the Association of Fellows or that of Members. Still, as we have shown to your lordship, the result was clearly to prove that the majority of the Fellows have expressed no objection to the principal claims of the Members. The number of the Members who have signed the petition presented to your lordship ( 4,665 ) is, if not a majority, we believe, nearly half of those in the United Kingdom who can be reached through the agency of the Post Office.

With regard to what in the "reply" is brought forward as an instance of the inaccuracy of our "statement," we are justified in retorting that the inaccuracy is not ours. We never said that the principle of a mion between the College of Surgeons and that of Plysicians had not been sanctioned by a resolution passed at a general meting. What we complained of was that the completed scheme had not been submitted to the whole body of the College, as it was to the Fellows of the College of Physicians; and that a portion of it so vitally important as the exclusion of the Society of Apothecaries had been insisted on, in spite of the protest, not only of the Fellows and Members (also assembled in general meeting), but of the Gencral Medical Council. It is, howerer, surprising to find the Council of the College now sheltering tbemselves under the authority of the resolution passed at the meeting in 1884, which was proposed without notice, and was carried by twelve votes against six, at the end of a long meeting, when the room was nearly empty, while they treat with entire indifference the resolutions lately passed with only either one or tro dissentients, at one of the fullest meetings that ever assembled in the Theatre of the College.

With regard to the proposal in the Council for admitting fifty Members a year to the Fellowship, it was no doubt never brought on for discussion-a result which we have reason to belicre was largely due to the opposition of this Association. But the fact that such a proposal was made, and (as we have also reason to belicve) that it was suggested to elect eren 100 Members annually to the Fellowship, shows how strong the temptation may be for the Council to resort to measures of this kind, by which the order of Fellows can be recruited without any regard to the "professional merit" of the persons elected. The present proposal of the Council is only somewhat less objectionable; and the "reply" of the Council itself tacitly admits that it has been emphatically condemned, by the roice of tbeir own Members, as inconsistent with the high olyjects for which, according to Sir B. Brodie, the Fellowship was instituted.
On all which grounds we submit to your lordship that the "reply" of the College leaves our "statement" entirely uurefnted, and confirms our contention that the petition of the Council for a modified charter should be referred back to them for recousideration and discussion with the general body of their constituents.
(Signed)
G. D. Pollock.

Postscript.-In order to prove to your lordship that our sentiments are not unrepresented on the Council of the College, we beg to call your attention to the following amendment, which was moved and seconded at the meeting of the Council at which their "reply" was settled.
(This amendment was published in the Journar of February $25 t h$.
Dr. II. C. Reid, of Contbridge, was recently presented by the Contbridge Foresters with an excellent life-size portrait of himself in oils.
Of the $10,65 \%$ students of the Unirersity of Paris, 3,696 are studying medicine, and 1,76 pharmacy. There are 167 female students -108 of medicine, 7 of scieace, and 1 of law. There are 593 foreign students of medicine, 58 of science, and 21 of phar-
macy.

## THE DUTIES AND PAY OF THE MEDICAL STAFF.

A correspondent, writing on this subject, has sent us some detailed remarks, of which we can only give a summary. His observations are, however, of special value just at present, becauso they bear directly on the line of attack which in all probability will soon be made on the medical vote by certain economists. He, in truth, but makes a little plainer what ereryone who cares to look below the surface already well knows, that the life of the army medical officer is anything but the one of ease and idle swagger which the enemies of the Department would fain lave the unthinking public believe. Neither are his functions merely those of the "goorl doctor," which even some who must know a great deal better are too fond of reiterating; but rather, and far more, those of the good all-round officer, whose well-performed duties are not only essential to the discipline, but to the very fitness of the army as a military machine. His duties, in fact, are essentially those of the thoroughly trained life-worker, and cannot be suddenly, much less systematically, assumed by any medical volunteer or tyro, however willing; still less auccessfully farmed out haphazard in casunl medical "contract."
When the fit of economy (which seems to recur regularly at interrals of years) recently set in, the medical vote, as on former occasions, was about the first attacked; not, indeed, in the "service" papers, which are posted up in the real facts, but in so-called "Society" journals, hitherto, at all erents, not distinguished for accuracy in military matters. Now, the medical vote may be a very bloated one; or, as we believe, only sufficient for the wants of a great and important army department; but, whether or not, We would not scek to defend it on narrow professional, but on broad public, grounds. We do protest, however, that, in discussing it, fairplay should at least be shown to the officers and men of the Medical Staff, and all unworthy and scurrilous detraction avoided.
The cry "Ye are idle" is as old as the Pharaohs; and it is not the first time it has been most unjustly resuscitated against medical officers; but now it is combined with another clamour, that these officers are overpaid both on pay and pension for the little they do! Let us remind virtuous economists why the present scales of pay and pension were granted; simply in strict obedience to the inexorable law of supply and demand, which, Whether they like it or not, gorerns the value even of medical as it does of all other work in a free country. It is quite useless for them to draw comparisons between, say, the British and German rates of army pay; it will be time enough to do that when the conditions of service in the two armies have any similarity; when, for instance, we adopt compulsory service, and the Germans, having acquired a great foreign empire, exact military service from their soldiers all over the world and in all climates.
It should be particularly noted that whenever an economical clamour has been got up against the Medical Department, it has always had reference to its peace duties, never to its functions in rar; indeed, this is very necessary to make the outcry any way effective in the all too forgetful pubilic ear. Bery reminder of war has to be avoided; the ugly word miglit recall Crimean horrors, the result of attemated and morganised departments; it might even straightway raise the question, how, from an attenuated medical list, Lord Wolseley's "two army corpls, always ready for mobilisation." are so suddenly provided with 400 trained medical oflicers fit to take the field. These are awkward questions, but we are not without indications of the sort of answer with which the shifty economists would try to mect them. They would, in effect, say: "Are there not plenty of medical rolling stones, clironic students, and women nurses to form a scratch medical service for the two army corps when wanted? Can we not, when in difficulty, play off (financially) the needy civilian against the greedy, haughty army doctor? Can we not leave things to chance, or boldy put up the lives and limbs of our soldiers, both in peace and war, to civil medical "contract'?" Fortunately, there are arguments probably sufticient to nip such happy-go-lucky proposals in the bud. Would the humanity and common sense of the country consent that the health and womds of our soldiers be left to such chance medical and surgical aid as can be hest pieked up by civil "contract"? Would our responsible military" authoritics accent for field service, without protest, a scratch medical service got together anyhow at the beginning of a great war? What if the soldier himself should resent a purely heart-

Iess eennomy which secks to plaee his life on the hattlefield in the bands of undiciplined and jeresponsible st rangers?

We think, therefore, that when the country is duly informed on this subject, it will not for a moment permit the Army Medical Departnient to be crippled or starwod to ment the exigencies of party politics. It is much minge likely to insist that a well manned and thoronghly organised medical service be maintained, even although it does cost money.
Our correspondent's remarks are almost wholly confined to the medieal dnties during pence. Even these can be shown to, be anything but unimportant, and just ns exacting and neverceasing as professional practice in civil life. It is well that those Who are ill informed, or perhays altogether ignorant of their nature, should know what they are. His olservations are limited to tho medical care of the army at home and in the colonies, altogether excluding the great interest of India, which absorbs one-third of the entire Medical Staff. We classifies the peace duties as follows:-
A. With recular troops.
B. With militia.
C. As officers of the Medical Staff Corps.
D. Miscellaneous.

Under $A$ he mentions :-

1. Attendance on Sick in Mospital.-1le states that in 1885 the sick (exclusive of India) admitted into military hospitals numbered 114,295 , and the arerage duration of the cases $\pi a s 182$ days. II points out that these sick are visited hy the medical oflicers twice drily, or oftener, if necessary; that prescriptions, diets, and "medical comfort." lane to te in the officer's own handwriting: that he is respousible for check and countercheck of all expenditure. Is this necessary? Boat assuredly, if the sick, on the one band, aro to have proper treatment, and the public, on the other, are to be safeglarded against inordinate hospital expenditure. The smallest reflection will show that unchecked and unauthorised hospital expenditure would speedily run up totals sterling which rovild make the economist stare, and beside which the mere sularies of the medical service, at which he grumbles, would look small indeed!
2. Drity Sick-Besides sick admittel. there are naturally and incritably a large number of men who receive slight treatment while remaining at their duty, but nevertheless involving conWhile remaining at their auty, let it be noted, the medical officer has not only to be careful that none really sick are refused admission, hut be has to diecriminate and checkmate schemers wishing. prohaps, in escape some unpleasant duty. Let those who grudge the medical oflicer hia pay, and snecr at or minimise the ralue of his services, consiller what would be the state of the daily sick lists, what the hospital expenditure, if there were no trainod, expert, and responsible merllcal officers kceping wateh, as it were, at the entrance to the wards:
Fot only are the medical nflicers coustantly on duty in relation in the patients under their immediate care, but in all the larger hospitals they hare bosides to take their turn, every third or fourth dny, on "orderly duty" for tronty-four hours at a time, lluring which they must not leave the precincts of the hospital. It is well known that medical offeers prematurely break down and die in a much greater proportion than any other class of army nficers, and we cannot help thinking the perpetual grind of ordinary duty erery day in tho week has more to do with undermined health than eren troing foreign service.
3., IRecruiting- - Our corresponilent statios that 72.249 recruits werc examined by army medical officers in 18.5 Thare are few more fatiguing and reaponsilhle mellinal duties than the thorough ramination of arecruit; it is truly the work of an expert, and should nonly be entrustect to officers of wide exprience. It is the medical offecr, and he almost alone, who ghards the portals of entrance into the service, and stanis between the Stater and numberless rectionls of chicanery and fraut ${ }^{\text {a }}$ all who have a monery intereat in the terrait are against him; the admission of unsuitstile man and framblent. re-eulistment, if not cliecked by the finesse and skill of the merlienl nficer, woulal cause enormons loss to the public. Bnaides recruits, all men re-engaging or passing into the Jeserve have to umforgo medical cxanination.
3. Paccination.-In 1895, we ary told. 39,433 men, whmen, and children wrer vaccinated or revaceinatml in the army.

Inspectinn of Prisnners. 1 lisf $n=2 \boldsymbol{m}$ minnr punisliments were in-

Now no soldier cau be awarded or undergoi any punishment without being previmusly medically examined and certitled fit ; and no court martinl can proceed without a metlical certitcate as to the prisoner's fitness or otherwise to underge inmprismmant, witli no without hard labour. Rever prisoner in coufinement must also he daily visited by $n$ medical oflicer. Are these unimportaut duties? It simply comes to this, that the wedieal officer playsa most important part in maintaining the discipline of the army. Without his discrimination, skill, and firmuess, the best commanding oflicer would he prwerless; the prisoners would laugh at his awards, and find menns of aroiding punishment.
6. Attendance nn Officers, their Wives and Families, Sercants, and on Soldiers Wives and Children.-This forms no inconsidem able part of a medical offieer's duty.
7. Boards.-These may be strictly professinnal, or mixed witly other branches of the service, on sanitary deliberations, stores, etc., all requiring technienl knowledge and training. How, we should like to know, are such duties to be carried out by civilians on "contract"?
8. Saritary Duties.-No duties of the medical officer are of more vital importance to the army than these; thorough and incessant sanitary supervision of harracks, quarters, camps, and their surroundings has to be kept up. Through unceasing watchfulness of this kind at home and abroad, the Medical Department has been instrumental in enormously reducing the sick- and death-rate of the army during the past thirty years at a saving to tha Stato many hundredfold more than any increase of medical pay and pensions. Such serrices may be conveniently forgotten when suitahle, but they stand recorded and cannot be ignored.
9. Correspnndence and Returns.-In a midespread army, and with a public demanding statistics and information of every kind, the returns are naturally of a comples and roluminous kind, requiring much special knowledge of the regulations. Would thls work be successfnlly handled by "contract"?
10. Responeibility for Public Property.-This is an important medical dutr, that might touch the heart of the virtuous econo-
mist, if mis, if nothing else would. The unthinking and uninformed hody must be responsible for hospital property, and if, somemerlical officar, then there must be some other well-paid ofticial introducing an ? additional and fresh element of expense the proper man is the medical officcr, who must be master in his own hospital, and in the interest alike of the patient and the public, unsheltered behind conflicting and divided responsibility. bedding, furnosed to put up the eare of much valuable hospital tract"? Or do the War Office authorities expect civilian "contitioners, or any others, will accept "financial responsibility" for nothing?
B. Duties rith Melitio.-As the nld militia surgeons have disappeared, their duties for years past have been assumed by tho army medical officer without alditional emolnment, with a consequent ensiderable saving to the State. The permanent staff of the militia are now attached to the various regimental districts, as well as recruiting and training.
C. Duties as Officers of the
the first importance, and ine Merlical staff Corps.-Theso nre of the first importance, and involve command, disciplina, interior sitate, also, a certain knowled e raining of 2,000 men. They neces-
and innocent civilians may ask, as certain and military lam. Certain like to deprive medical afficerstain jealous soldiors who would with a sneer, "Is this "doctors" work?" The anem and status do, out doubt one of a military medical officer's proper duties, is withto his training for peace and war, as well as for the due eserform ance of his daily work. Divided authority in a military hospital as in any institution, is wholly fatal to efleiency; and it is just as essential that the hospital servant and subordinate should look
upon the upon the medical officer as his real master, as the soldier in bartreks on the colonel as his commander. 1 The function of command of the Medical Staff Corps was at one time delegated to another had onlecrs, with the result
D. Miscellanmous Dutics.-Lnder thisheadour correspondent mentinns charge of such inatitutions as the Royal Militnry Academy, Troolwich: Military College, Sandhurst; military achools, Chelsea and Dublin: military prisons; Rnyal Arsenal, etc. ILe asks, what would rivilians expect for medical work of such an onerous and responsible nature as charge of these institutions? Could they be eafely- handed over to thio nearest general practitioner by " con-

Table showing the Daily Rates of Pay of different Branches of the Army taken from the Royal Warrant on Pay and Promotion of 1884.


From this Table it will be seen that medical officers (who are professional men) are paid very much at the same rates as the officers of other departmenta for which very little special training is required. It will also be seen that the Guards and Engineersare paid very riearly, if not quite, as woll as tho medical officers, and have other adrantages. such as mess allowances, etc., besides: The only real adrantage medical officers have is the higher rate of pension. Against this must be placed the forelga service and the mortality, which exceeds greatly that of any other branch of the army.
tract"? He should hare included also among miscellaneous duties attendance on inspections, parades, field-days, etc. We would ask, who but a commissioned, uniformed medical officer shouild or could perform such duties?

Having thus sketched out the multifarious duties of the army medical officer, which go far beyond those merely of the "good doctor" kind, our correspondent proceeds to estimate the mones value of these duties as measured by what civilian medical men would expect to get for their performance, supposing they could or would undertake them. We fear our correspondent here enters on a somewhat futile and unprofitable task. After what we have said, surely no reasonable man will affirm that the army medical officer's special training and skill can be bought readymade in the civilian market, whatever the price offered? It is no "doubt true that the sick soldier might, in certain places, be duly "physicked". in a civil hospital by "contract." But at what cost? The surroundings of such an establishment would speedily unsoldier him; unless the military discipline of the barrack and the parade follows the sick soldier to hospital, he Fould very soon become uo soldier at all. That would be one fatal result of a " contract" system.

But our correspondent-taking no acconnt of such trifles as command of the Medical Staff Corps, responsibility for equipment and stores, and the many miscellaneous duties daily performed by the medical officer-proceeds to work out the value of the merely professional treatment of the soldier at home and in the colonies. At the shabbiest rates of "contract," what would be the cost? Hc assumes as data 2s. for each day of each man sick; a lump sum for care of daily casual sick; a lump sum for militia, chiefly for recruiting; 5 s . for each army recruit passed; 2 s . Gd. fur each vaccination, and arrives at the following totals:-

> Attendance on sick in lospitals Treatment of daily casual sick uilitin


Total
245,017
We will not attempt to eriticise, much less verify or vouch for, these figures. They may be too little or too much, but as they stand are, at all events, no improrement, from an economical point of view, on the medical rote of $£ 246,000$, which includes proFision for all the duties.

But even supposing they represented a 'large peace saving, do they furnish the smallest provision for war? In army is no armyif unfit to take the field, and in these days no army dare talio the
field, witl any chance of success, unless thoroughly organised during peace. The truth is, the efforts to get rid of the medical officer by substituting ciril "contract," show the most lamentable ignorance of, or indifference to, the perfecting of military organisation, and a most misguided statesmanship.
Our correspondent concludes by officring some remarks on the pay of medical officers, and by way of comparison with those of other officers, furnislies a table, which we here reproduce.

From this it appears the mere pay of the medical officer is not much superior to those of other officers who bring with them into the service no expensive special education acquired at private cost. Then, again, medical officers hare few or no staff and other appointments giving additions to pay, such as the combatant officer can look to. TYe should like to know, what with frequent moves and the thousand and one expenses consequent on a nomadic sort of existence, how much a medical officer is expected to save from his pay for himself or family-if he has one? 1Ie, in truth, has nothing to look to but his pensiou, or more properly, deferred pay, an annuity which dies with him. Consider, also, the risks he has to run before he can get a pension. We hear rumours and threatenings, that in future a longer period of fullpay service will be 'exacted before he can claim pension; this, according to well understood actuarial calculations, would have the effect of increasing the risks, and lessening the value of the pension when obtained. A pension only held out to a man when years are on him and health has gone is but a lure and a snare: the odds against him rapidly increase, and become more and more in favour of those offering the pension. If tno vigorous conditions of full-pay service are cxacted, this ultimately may become so apparent, that double or treblo pay will be demanded, and pensions allowed to go by the board.

In conclusion, we regret wo cannot help thinking, that not zeal for public economy alone has prompted late unfair at tacks on the medical vote, but there has been mixed with it not a little hostility to the medical profession at large.

Heafith of Italian Troops at Massowah.- 1 correspondent of La Semaine. Médicale states that typhoid fever and acnte rheumatism are very prevalent among the ltalian troops at 引assowah; the number of sick is between twelve and thirteen hundred, and two or three deaths occur daily.
The Moscow Medical. Factlty in 1885-88.-According to the Jratch, No. 4, 1888, p. 55, on January lst, 18e8, the Moscow Luiversity numbered 3,259 students, 1,218 of whom belonged to the medical faculty. During 1857, :231 obtained the diploma of medical 1ractitioner (lekar).

## GREAT NORTHERN CENTRAL HOSPITAL.

O. Saturday, February with, the new huldings of this institution were shown to visitors ly the architects. Mr. Keith loung and Mr. Henry ILall, So far as at present construeted the hospital consists of three rectangular wards (twenty beds in each), one alove another in uthilding of three stories, with a block for administrative purposes, and separate buikdings for the ont-patient department and morthary chambers. It is ulso in contemplation to erect a block containing three circular wards (twenty beds in each), so that when the hospital is finally completed, it will be capalle of making up 120 beds, besides the recommodation of the special wards (one bed in each), and provision is also to be made for the recpption of 24 pnying patients. As at present arranged, each lred in the rectangular wards will have 127.5 square feet of floor space and 1,653 cubic fect of air space, cach ward having a length of 88 feet, a lirenath of 29 feet, and a beight of 33 feet The circular wards will have a diameter of 57.5 feet and a height of 13 fect, which will give practically an identical anount of floor space and air space to cach one of the twenty beds which they are to contain. It will thus be seen that when finally completed an interesting experiment will be carried on within the walls of this institution, which should go far to settle the claims made as to the rival merits of the oblong and circular ward systems.

It is, perhaps, needless to say that, in the general design, the best approvel and most modern principlés of hospital construction, ventilation, warming, drainage, and general convenience have been everywhere applied by the architects. The lowest ward is raised some fect from the cround by vaults open on each side for their whole length for thorough ventilation; there is, thus, no possibility of ground air gaining admission into the wards. The arrangements made for the ventilation of the wards are most complete. In winter fresh air is aumitted waraed by passing through one of 2 wo stoves (Boyd's IIygiastic IIospital Grates) placed in the centre of the ward; whilst in summer the outer air can enter in an upward slanting lirection by revolving on its lower border the apper frortion of cach one of the windows, and special fresh air Wall inlets are ulso prorided near the floor at the heads of the beds. For the escape of vitiated air there are four extraction shafts for eacls ward, which are kept warm by the llues of the stoves in winter and by Bunsen gas burners in summer. The wards can be hented as well by hot water pipes leading from a boiler house. Each warl is paved with solid wood-block llooring, and the leds are fitted with spring wire mattresses and movabie fracture boards. At the further end of each ward are the water closets, bath room, and slop sinks in a turret block scparated from the ward by a cross ventilated lobly. The roof of the building is flat, and is to be used as an exercise ground for the patients; there is besides a coverel balcony attached to each ward for the use of patients. The kitchens and sculleries are placed at the top of the building; all the conking is to be done by gas and steam. A very commodions operating theatre lighted from tho roof is in conriection with the first floor, and a hylraulic lift large enough to carry a hospital hed rums the whole height of the buidting from roof to basement. Attached to the boiler house is a small destructor furnace for hurning dirty dressings, poultices, bandazes, etc., which are usunlly relegated to the dusthole. The water supply and drainage applinnces are the best of their kind. Great care has leen bustowed on the ventilation of drains, soil pipes, and waste pipes, and we were glad to see that siphonage of water closel truys-a possibility often overlouked ly architects -is remelered well nigh impossible by the system of ventilation pursuel. The main drain is a O-incli pipo which is laill ontside the building, and is disconnected from the sewer in the usual manner.
The out-patient department has been designed to secure at once the greatesi amount of comfort to the patients fluring their long hours of waiting, as well as the requisite facilities for the outpatient surgeons and physicians in their examinution and trentroent.
It is only to he regretted that to such a hospital there is no medieal school attached, hut it is intended that the institution shall be open to medical practitioners in the neighhourhood, und it may possibly adn to its usefulness hy becoming an important post-graduate teaching centre for the north of London.

## ASSOCIATION INTELLIGENCE,

NOTICE OF QUARTERLI MEETINGS FOL 1848.
Mectings of the Council will be held on April 1Sth, July 18th, and October 17th, 1858. Candidates for eleetion hy the Council of the Assaciation must send in their forms of application to the General Secretary not later than twenty-one days belore each meeting, namely, March $28 t h$, June 27 th, September 26th, and December 28th, 188s.

## EIECTION OF MEMBERS

ANT qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any thrce members, may be elected a member by the Council or by any recognised Branch Council.

Candidates seeking election ly a Branch Council should apply to the Secretary of the Branch. Nomember can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Frasicis Fowere, General Secretary.
COLLECTIVE NNVESTIGATION OF DISEASE.
Tire Report upon the Connection of Disease with Habits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1887 , and a further portion of the Report upon Olis Age have been completed, and will shortly be published in the Journal.
Reports upon the tro remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distmibution of certain Diseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etiology of Phthisis.
A fresh inquiry into the Origin and Mode of Propagation of Epidemics of Diphtueria has just been issued.
Memoranda upon these subjects, and forms for recording observaInvestigation Committee, 429 , Strand, $\mathrm{H}^{-}$.C

## BRANCCII MEETISGS TO BE JIELD.

Sotth-Eastern Braxct : East Krat District. The next meeling of the hove District will be held at Ashford, on Thursday, Mareh 15th. Jr. Wilks in the chair. Anyone wishing to send communications should inform the llowo rary Secretary at once.-W.J. Txsos, 10, Langhorne Gardens, Folkestone.

East Serrat District: Soctr-Eastarn Rrancti-The spring meeliag if this Ilistrict will be held at the Quceris Irotel. Upper Xorwood, on Thursaif, March $8 t \mathrm{~b}$, at $4 \mathrm{P}, \mathrm{M}, \mathrm{W}$. F. It. Burgess. M.D., of St reathaw, ing papers hare Dinner at 6 P.M. charge, Js.exchnsive of wine. nise we, with fiagranme. 1)r. heen promised: Mr. Noble Smith: On ILip-jolut Disease, with fiakamiting or P T Dunean: On Simple Catarrhal Jiever. Members desirons of exhming. . Dubcan: On sos arc invited to communicate at once with the llonorary Sceretary, P. T. Déscas, M.D., Croydou.

Metropolitas Colxtis Branch: East Lnsmon asd Sotyg Resex Dis-Tkics.-The next mecting wilt be lielil in the Hackney Town Jiall, on Thiraday, March 15th. at $\$ .30$ P.M. A paper will bre reab hy. A. Jejp. Wi. Jivt, IConorary Evidence in Courts of Law. Visitors
Secrelary, 101, Qucen's Road, Dadston.
Solpti-Fastern Branch : Fasv asid Wfat Sussfat Districts.-a conjoint
 mectlag of the aimve distris. Shlmann, M.IR.C.S., will preshile. Mect ing at 3.30 Thurshay; Mareh $227 \mathrm{p} . \mathrm{M}$. cliarge bs., exclustue of wine. The following papers r.s. : dinner at 5.30 paM : charge of F'iboid lnduration of tho Stomach (with will be read: 1)r. Starling: A case of lecovery after Laparotomy for Intestlnal ngecimens). 13r. JIoward Marsh: liccovery anter of maklig any communfa Otustructlon: with ltemarks, Gemilemen desimons of making any commurieatlon to the meeting should write Honcomy Secretary, 9\%, Nonljellicr Joad, WOrthlng.一T. J Esiser VEuRALL,


Jirmisomam and Minland Countifs Braver. -The sixth genemal meetion
 der, Xtareh meth lasa The ehair will to taken by the l'reajrlent, Ifr. Iawoon Tait, at $3 \mathrm{r}, \mathrm{M}$. Flusiness: The following menter of the Asmociatinth will he proposel as a member of the Brameh: E. If. Wondhouse, N. B..
 mereting will he nomimated. Pagers: Dr. Suckling : Aleoholte Paralyis. mocr of merning who and Dr. Shacey Wilson: Treatment after Perforation from lacering J. W. Jaghor antic Comncil mecting to be held after the Jranch, tha lollowing Stormach. At the Comncs mectmaters of the Assewlation: James A. B. Thomp-
 sun, M.D.GAE

bers are Invited to exhibit patients, pathological speeimens, new drugs, instruments, and appliances at the commencement of the meeting.-ROBERT SAUNDBY M.D., 83A, Edmund Street; Jorday Lloyd, F.R.C.S., 22, Broad Street, Eirmiagham, Honorary Secretaries.

SOUTHERN BRANCH: ISLE OE WIGIIT DISTRICT. An ordinary meeting of this District was held at Daish's Ifotel, Shanklin, on January 26th, 1888. The elair was takeu by Mr Charles Merres.
New Members.-The following new mombers were admitted: G. Befnard Iloffmeister, M.D., Cowes; IIenry IIarland, M.D., Ryde.

The ILeart in Phthisis.-Dr. Robertsos gave notes as to the results of a careful physical and sphygmographic examination of the heart and pulse in fifty eases of phthisis.

Demanstration.-Mr. ELLis exhibited sections of a Carious Toath under the microscope, showing the manner in which, after erosion of the enamel, the leptothrix bucealis inserted itself, wedgeshape, and split up the tooth, allowing decay to progress rapidly.-Mr. Green exhihited Tinea Trichophyton, and also photographs of the diseased and natural hairs as seen under the microscope ; also Microsporon Fur-fur, Gregarines, the Lacillus of Anthrax, and Diplococcus of Pneumonia.

Antifebrin in Phthisical Pyrexia.-Dr. Sincharr Cogulll read a paper on this suhject. He began by reference to his previous paper on the Action of Kairin, Thallin, and Antipyrin. Ife had entirely given up the two former, but had continued to employ antipyrin, hut in eases in which that drug had failed to reduce temperature he had latterly employed antifebrin with much suecess; indeed, he thonght it preferable to antipyrin. It produced no unpleasant effeets, and seemed to be tolerated for indefinite periods. In commencing its administration it was as well to test the tolerance of the patient by giring a dose of 5 grains, but usually 10 grains would be found the best initial dose. The temperature should be taken every three hours, and a dose of from 5 to $7 \frac{1}{3}$ grains giren each time it registered abore $99^{\circ}$. Ine bad found the control of the pyrexial state, when treated by antifebrin or antipyrin, much aided by giving tincture of strophanthus in dases of from 3 to 5 drops three or four times $a-d a y$, to sustain the action of the heart, and reduce the rascular tension, which was certainly increased by the action of these drugs. From 5 to 10 grains of quinine should also be given as often as the temperature was found under $98{ }^{\circ}$ IIe also showed a chart of a case of enteric fever in which antifebrin had kept the temperature steadily under control.

Dinner.-The members afterwards dined together, and a pleasant erening was spent.

## NOVA SCOTIA BRANCH.

The third ordinary meeting of this Branell was held at the Hon. Dr. Parker's office, Halifax, on February I6th, 1888. Preseut: Deputy Surgeon-General MacDowell, C.B., I'resident of the Brauch, in the elair; IIon. Dr. Parker, Dr. Farrell, Surgeon-Major Bolster, A.M.S.; Dr. de Witt, Dr. Wiekwire, Surgeon Deeble, A.M.S.; Dr. Trenaman, City Medical Officer of Ifealth; Drs. Black, Camphell, Curry, Surgeon Forler, A.M.S.; Surgeon Grier, A.M.S.; Drs. Cameron, Goodvin and Chisholm ; and Dr. Tobin, IIonorary Secretary.

Injuries to the Eyc.-Dr. Tomin read notes of three eases of injury to the eye, involving the cornea and iris and the lens; in two instances lrodueing traumatic eataraet. In all, the wound was in the ciliary region or dangerous zone. In one the selerotic had been freely opened, and required a suture to retain the contents of theglobe; jet this ense had recovered with a fair amount of vision. In all an indelible cieatrix oecupied the area of the pupid, extending across the eornca, hat learing the rest of that membrune transparent. The eye, in all threc cases, had been saved, anl no sympathetic trouble had, so far, arisen though several months (in two of the cases) hat elapsed, since the receipt of the injury. The patients were brouglit in and examined by the nembers prescnt.

Proposed Public IIealth Act.-A letter was then hrescnted in from Mr. Bulmer, loarrister-at-law, asking the help of the Branch towards procuring from the local Legislature a Iublic Health Act, the same being much needed in this province. The letter was discusset, and a Committee appointed consisting of three eivilian (Drs. 'Trenaman, city medienk officer; Drs. Campbell and. Curry) and two military members (Surgeons Desble and

Gricr), to report upon the matter to the Branch at an extraordinary meeting to be hold a fortnight hence.

Appointment of Treasurer.-Dr. Tobis then proposed that a treasurer be appointed to colleet subscriptions from members for the British Medical. Journal, and to forward the same to the General Sccretary in England; also to collect the local subscription for the Branch. A motion to that effeet was mored and seconded, and earried, and Dr. Tobin was himself desired to aet as treasurer as well as secretary to the Branch. The meeting then adjourned.

## JAMAICA BRANCH.

THE annual meeting of this Branch was held at the Public Library, Kingston, on January 27 th.

Office-bearers.-The following are the office-bearers for the present year:-President: Hon. J. C. Phillippo. President-Elect: Dr. F. II. Saunders. Honorary Secretary and Treasurer: Dr. G. F. Da Costa. Members of Council: Dr. A. L. Saunders; Dr. J. L. Cox ; Dr. C. Gayleard; Dr. Plaxton; Dr. G. C. Henderson; Hon. C. B. Morse; II. Strachan; Dr. J. Scott.

Dinner.-The annual dinner was held in the evening at Park Lodge, at which eleven members were present.

ABERDEEN, BANFF, AND KINCARDINE BRANCH.
Tue February meeting of the Branch was held at 198, Union Street, Aberdeen, on Wednesday, February IJth, at 8 P.M., Dr. Urqu-
hart, in the ehair. hart, in the chair.

Minutes and Nomination of New Members.-The minutes of the last meeting were read and approyed, and seven new members were nominated for ballot at next meeting.

New Member:-Dr. J. Marshall Lamb, Borneo, was admitted a member of the Branch.

Medical Officer of Health for Aberdeen.-Dr. Wight proposed a motion that the Branch memorialise the Town Council of Aberdeen that the appointment of medical officer of health, at present vaeant, be filled up by a qualified medical practitioner, who shall be precluded from private practice, and whose whole time shall be deroted to the duties of the office, in terms of the duties of the medical ofticer of health of the city of Aberdeen, of date March 15th, 1886.-Dr. Urqueart seconded the motion.-Dr. Anges Fraser mored as an amendment that the Branch do not memorialise the Town Council, on account of being beyond its prorince. -Professor Stephenson seconded.-The amendment being lost, Professor Ogston proposed that the words following "private practice" in Dr. Wight's motion he altered to read "and who shall devote himself to sanitary and medico-legal work."-Professor Stephenson seconded this amendment, which was lost on being pitted against Dr. Wight's motion. The latter accordingly hecame the ruling of the meeting, and the secretaries were instructed to have the memorial prepared and submitted to the Town Council of the city.

## METROPOLITAN COUNTIES BRANCH: EAST LONDON AND SOUTH ESSEX DISTRICT.

A meeting was held at the Town Hall, Walthamstow, on Thursday, February 15th, at 8.30 P.M. Present, 21 members and visitors. Dr. ADAms, Vice-President of the District, was in the chair.

Pernicious Ancmia with Jaundice.-Dr. Bnistowe read a most interesting paper on Pernicious Anæmia with Jaindice, and Cases illustrating it, and he compared those cases with others of jaundiee which were not due to pernicious anæmia. A discussion followed. Specimen.-Mr. G. Weller showed a specimen of typhlitis due ta perforation of the rermiform appendix, and read notes of the case.

Iotes of Thanks.- Hearty rates of thanks brought the meeting to a close.

[^41]
## SPECIAL CORRESPONDENCE,

## PARIS.

[finu our ows comrpabontent] Tranemission of Human Tidicroubsis to a Cat.-Tiye Lesions in Ieprosig.-1'athogeny of Lright's Disease.-Treatment of Diph-
theria.-Local Ancesthesia.-Enlargement of Supractavicular Glands in Uterine Cancer.-Salicylic Acir in Phthisis.Iyridin Inkalations in Dyspmaca.- Preparations of Catyut. Intramuscular Injections of Quinine in Malaria.-Heart Disease àd Marriage.-Case of Narcolepsy.-Naphtholas an - 1 ntireptic.
Dri Lefor Pertr, at tho Sociéte de Medecine Pratique (Journal de Medecine, Jinuary 1st, 1883), lately described a curious case of prinonary tuberculnsis trammitted to a cat by human eputa. 31. Petit has alreadr obseryed two cases of tuberculosis transmitted to dogs hy human beings. cene a passion; the amimal fellowed the patients about, waiting for hem to expectonate; it used to dovour the, tuberculous sputa which had served for microseopical examinationt in M. 1'etit's Thboratory, After a timo the follarying symptoms were observed: the animal grew thin, its hair stoed erect, the eyes were blear. a mucous secrotion escaped from the nostrils: there were attacks of sueering and coughug, followed by remiting. Koch's bacillus was detected in the secretion frem the nose, which apparently preceeded from the bronchial tubes, At the end of two months aud a half a complete change toak place; the morbid phenomenn beoanne modifin, and the animal appeared as if she were nbont to reaver: ' She hail seven kittens, one of which she nursed for five nonths, during which time sle presented ne symptoms of after the kittens were boru the cat was killed.: at the necropsys, the bwer parts of both lungs shewed signs of congestien. Oricutting into the lung a small quantity of light, muco-sanguinolent fluid escaped. There was a collection ef small, hard, cretaceous lumps' in thed lewer part of tho lower lobe, which gave a rough surface to this rextion. ITluse little islots, which were of a groyish' hue, weere sorroundeld hy a donse pale tidsue. There were no lesions in the apex itor in the pleura. The peritaheum, intestine, mesenteric glands, kilneys, and liver were normal. Microscopical examinaTion reveiler alreoli in the iudurations abere described..' These takeoli were filled with flaments which containod. swollen and deformed opithelial cells. Elarlich's procoss revenled the presence - a a number of large biacill collected in the periphery nenr to the hepatised spot. A fert tuberculous bacilli were found in. the muco-sanguinolent fluid which exuled from the small bronchial tubes. The tuberculous nature of the affection was unmistakable. Pregnancy had caused tha apputite to return, and a consequent impruvement in the animal's condition. Mc. Petit believes that had the cat lived, the improvenent would have continued, "and recovery would have ensucl. It is aidmitted that the orgarisms of doys and cats reslst the intraduction of tuberculasis: it is therefore probable that they are equally refractory to the crolntion of the disease.

Professor l'oncet, of the Val-de-Grace, has lately stadied the lesions produced in the eye by tubercular leprosy. He examined in Hexico; a number of cases of leprasy, which he divides into three forms: the leonine, or tuberculons; the antenine, nervous or mutilating: and the macular, lazarine or ulcerated form. Ife has received from Dr. lambucco some water-colour drawings of leprous ocular lecions, and also two entire cyes or lepers. Dr. Poncet says, that in the eyclids the bacilli of eprosy smon teare the epidermis to attacle the decper parts. It is the same on the raded from priphery so centre, and the accumulation of microbes may canse absecsses. The microhus penetrate the back of the ceve through the zone of the pricornal circle; frem this point the parasite reaches the iris and the cilinry precesses, becoming more nnil more rare towards the optic nerre it seems, therefore, that the microlue of tuberculeus lepmesy seats itself in the conjunctival fissan, in the cells and sacs, after passing through the cutanceus ppithelium, ant penetrates but slowly into the special tissucs, sparing the glandular cpithclial elements, without taking the vascular or nerveus road. It forms at first a limited supericicial
lesion, and the tubercle may not be the sign of an affection already generalised. This view may be of capital importance in therapentics.
At arecent mecting ef the Société Mélicale des Hôpitanx, M. Gaucher read a paper on Bright's disease, in which he maintained that the ordinary pathogenic conditions which caused parcnchymatous epithelial nephritis were due to an excessive propartion of extractive principles in the organism. The epithelial form of Bright's discase might be caused by thesc conditions alone. If chronic nephritis resulting from some other apterior cause existed, the renal mischief' would be aggravated by defective climination of the extractive matter. From these facts M1. Gaucher deduced valuable therapentical indications; for instance, the danger of administering meat lireth to patients suffering from Bright's disease. Jle considerz that extracts of meat in different forms, besides containing toxic mineral salts, such as salts of petassium, contain organic poisons highly injurious to sick and eren to healthy persons.
M. Gaucher also read a paper on the treatment of diphtheria by remoring the false membranes, and cauterising the places from which thoy were taken with a concentrated solution of carbolic acid. He
dissolves 5 to hal, and adds 10 grammes of carbohe reid in 10 grammes of alcoa small quantity of oil. M. Gancher obtained excellent results with this treatnient in two cases. M. Joffrey stated that he emplayed chlaral as a lecal npplication in diphtheria. This sub-
stance had more powerful parasiticide properties than carbolic acid. M. Joffrey washed the throat with a 2 per cent. solution of chloral; he then applied a ene-fifth solutian to the false membranes, which disappeared; the throut remained ulcerated; the application of the solution was contimued. By this means diphtheritic angina was transformed into erythematous angina. This treatment could not be applied te children. M. Gaucher stated that he
had tried chloral, but had found carholic acid mere effichious Ma Blachez bora, but had found carhalic acid mere efficacious. M. Blachez beliered that false membranes might be destreyed in
a less painful manner with petroleum eil. M. Gaucher remarked that the special object of his treatment was to destroy the false membranes in order to prevent secondary infection. M. lichard stated that the addition of one half per cent. of tartaric acid rendered carbelic acid much more powerfully antiseptic.
The Gazette des Hopitaur of February and publishes a summary of a report made by M. Vidal at the meeting of the Academe de Médecine, on January slat, on a be by chloride of met conM. Bailly concludes, from numerous experiments, thas plugs, of which the centre is formed of dry cotton-woal and the periphery of fless silk, the whole surrounded by gauze, constitutes the best agent for imbihing and preserving the refrigerant liquid; twothirds of cotton-wool to one-third of floss silk are emplayed. By a prolanged application of these pings, saturated rith chloride and in 9 cases of facial neuralg out of 10 cases of sciatice, he obtained suecessful results in 8 . In 62 cases of different forms of neuralgin, recovery was almost invariably the result of this treatment. Of 16 cases of lumbage, if were rapidly cured. MM. Dieulafoy, Bucquog, Féreal, Lailler, and Pozzi bave cmplayed this method to soathe internal pains. M. Bouchard has found it efficacious in intercostal neuralgia, torticellis, muscular pains, lnmbago, toothache, and in one case of lead colic and one of gastric attacks of tabetic origin. M. Bouchard found tliat, at certain times it relieved dsspncea in an emplysematous, nsthmatic patient. M. Bailly has empleyed this method to obtain local anresthesia before opening abscesses, incising whitlows, removing formed ever 120 operations of different linds that he had jerinduced by M. Bailly's methoul, which was applied about 360 times in these cases in which the epration could ouly he completed in sereral sittings. M. Bouchard remarked that if. Bailly had perfected 31. Debeves method. M. Bouchard has substituted the reaction produccd by refrigeration for the netual cautery with addBesnier helicred that M. Bailly's methenl might prove of great scrice when applied to the rolicens membranes, but added that it would be adrisable to interpese a piece of plaster. A vote of thanks to M. Baily for haring perfected a valuable methor of local refrigeration was propos by mously adapted.
mously adopted. Hépitaux of January 2let publishes a report pri-
The Gazeftedes
sented by M. Troisicr to the Sociéte Ble licale des 11 ôpitaux. at $t 1$ e
meeting of January 13th, on M. André Petit's olsérvations on the existence of enlarged supra-clavicular glands in cases of cancer of the uterus. M. Troisier stnted that he had met with several cases of uterine and orarian cancer, accompanied by enlarged glands, in the suprai-clavicular region in which no intermediary glands conld be detected elsewherc. This symptom may also be met with in cancer of the abdomen as well as in cancer of the stomach or of tho thorax. It should be looked upou as contra-indicating surgical interference in such cases.
The Revue de Therapeutique of February 1st contains a note on pulmonary tuberculosis hy Professor Jaccoud. He regards it as an acuto infectious disease. The only effectual method of treatment is to substitute the form which develops slowly, and may, therefore, be arrested, for the form which develons rapidiy and quickly proves fatul. It is generally admitted that salicylic acid is the best agent for reducing the fever. which is the chief factor in prodncing the pulmonary lesions. This substance should be giren in doses of 2 grammes daily for three days, and in doses of
 pended for two days, after which they are resumed as before. If the ferer diminishes, 1 gramme of salicylic acid is then administered daily.

Dr. W. Relemen las observed the following results.in the course of his experiments with inhalations of pyridin. In nineteen cases of dyspneca caused by different lesions of the heart and lungs this remedy invariably produced beneficial results. Pyridin is an cnergetic anti-asthmatic agent, and is principally efticacious in asthma of nerrons and cardiac origin. In emphysema it acts merely as a palliative, its beneficial effects lasting from eight to twel ve hours.
At a recent meeting of the Surgical Society, M. Lucas-Championnière showed different samples of catgut, prepared in rarious Ways, some by the ordinary method, and others by a special process which renders it very resisting, even when dry. This catgut is made from three different kinds of sheep's intestine twisted together, and is far superior for ligatures to the mi fiddle string which is usually employed. M. Pozzi highly extolled the method of preparing catgut with oil of juniper wood, which renders it supple withont making it less resisting.
The Journal de Medecine states that hypodermic and intra-muscular injections of hydrocliorate of quinine are most effectual in obstinate cases of malaria, when internal treatment has proved inefficacious. One-third/of hydrnchlorate of quinine is mixed with $t$ wo-thirds of rater. The alkaloid is dissolved by the action of heat. A Praraz's syringe is' introduced perpendicularly in the
glateal region, and fifteen centigrammes of the salt ore injected Thiseal region, and fifteen centigrammes of the salt are injected. tissues.
With regard to the question whether young girls affected with an organic lesion of the heart should be allowed to marry, Professor Jaccoud, in opposition to the riews expressed ly Professor Peter, believes that ino absolute rule can be laid down. If the
ralvular lesion las nerer produced distrlle ralvular lesion has never produced distarmance, then niarriage is permissible, If symptonis of asystolin (especially in lesions of
the mitral valve) have been ohserved, then there is considerable the mitral ralves hare been ohserved, then there is considerable
risk in manrying. l'regnancy: would be rery dangerous, on nccount of the pulmonary congestion which it would canse.
A case of narcolepsy was recently treated at the llôpital St. Antoine, by Dr. Dienlafoy. The patient, aged 16, a waiter in a wineshop, complained of attacks of irresistible drowsiness, reclurring at short intervals, Ilis grandfather was asthmatic, and his father died of diabetes, hut there was nothing otherwise worlly of note in the family history: The patient was not a driuker, and had never had syphilis or malaria. He had a sister, aged 17 , who was decidedly lyysterical. From the age of 7 up to thic prosent year he had always suffered from a slight tic of the
hend aud neck, cansing him every now and then to raise the liead hend and neck, cansing him every now and then to raise the lead suddenly and truru it to the right, the monith being at the same time drawn the samo side. A short time ago he contracted itch, for which he was treated at the lôpital St. Louis, where he underwent the nuan " "scrubbing." Throe days afterwards the sulden attacks of slecp commenced. At any moment, while he was standing walking, even at maals, his eyes would suddenly olose, his head droop, and he would fall sound asleep for trenty, forty, or sixty seconds, sometimes longer: he wonld then as suddenly a wake and instantly. recover conscionsness. These attacks were more frecuent in the afteruoon and after menls; they amounted to seventell or twent in the course of an hour, nnd to upwards of foo during
the day, there being sometimes as many as three or four in fifteen
minutes. The attacks cquld altrays be hrought on volnntarily by inclining the head forward, and the patient could not pick up anything from the floor without instantly falling asleep and falling riolentl! forward on his face. His' sleepat might was natural and quiet, but onawaking he felt fatigued, and his limbs were heary. His health was otherwise good. The sight was goon, the hearing normal. Careful examination revealed a slight degree of aness
thesia on the arm and chest on the left side thesia on the arm and chest on the left side; on auscultation \& slight systolic soupfle of the heart, more distinct towards the brice,
could be heard. The urine slowed no trice could be heard. The arine showicd no trace of sugar or albumer: Dr. Dieulafoy prescribed 2 grammes of bromide of potassing daily, and cold shorer-baths every morning. There was rapid improvement; the attacks diminished in number, and 1he paticit was soon nble to resume lins occupation, which mas very fatiguivis, as he never got to bed till $2 o^{\prime}$ clock in the morning. and häd to get up again between 6 aud 7 . The trentment was continued for three months, when the bromide causing nausea, he ceased taking it, bमृं went on with the douches three times a week. The attacks ceased almost entirely, except in the evening between, 6 and $70^{\circ}{ }^{\prime}$ cock $^{2}$ before supper, when he still fell asleep suddenly, in whateret position he happened to be, remaining unconscious for about bàf an hour. On the days he had the douche this attack often did nót occur. In March, eight months after the first attack, he was almost cured; he seldom fell asleep, and could even stoop and pich up things from the floor without inconvenience. A year after the onset of the symptoms the cure seemed to be complete. There was still slight anesthesia of the left arna and on the left side, between the third intercostal space and a transverse line crossing the umbilicus. The cardiac sonffe was no longer perceptible. Dr. Dieulafoy belieres that the case was one of hysteria, probably
brought on by the "scrubbing" to which the enatient brought on by the "scrubbing" to which the patient was snbjected for itclh, and that it was a degeneration in the neuropathological sensé
3. J. Maximoritch has determined the antiseptic properties of naphthol by comparing fourteen different microbes in nutritive solutions, containing different proportions of naphthol- $x$, thus ascertaining the proportion of naphthol which retards or prevents the development of each microbe. In ordinary cultivation broth, 0.10 gramme of maphthol per 1,000 entirely prevents the development of the microbès of glanders, mammitis of sheep, chicken cholera, bacteridian ulcer, micrucoccus of pnenmonia, the two organismus of suppuration-staphylococens albus and staphylococcus aurens-the microbe of Biskra pustale, tetragenes, the bacilli of typhoid ferer, and pigeons diplitheria. Paphthol- $x$, in the proportion of from 0,06 to 0.03 gramme per 1,000, retards (from three to eight days) the deyelopment of the same microbes. and prevented it entirely in the cases of bacteridian ulcer, typhoid fever, and the two staphylococci of supprration. Though the same doses of naphthol-r in gelatine, as in broth, suffice to prevent the development of microbes, in gelose 0.12 gramme to 0.15 per 1,000 are necessary to prevent the development of those of mammitis of 'sheep and Biskra pustule. F'or the destruction of the other
microbes the doses are the same as those indicated for cultivation broth. In the proportions of 0.20 to 0.25 gramme per 1,000 naphthol-x entirely prevents thegermination of the tubercle lacillus: in the proportion of 0.10 gramme it retards it. In doses of 0.20 gramme and of 0.3 J to 0.40 gramme in solids, naphthol-r completely destroys the multiplying power of the bacillus procyaneus and bacillas chromogenes of MM. Charrin and Roger. Urine does not ferment when shaken up with naphthol- $x$, either in solation or in powder. Mumau feeces cause only a slight cloud in cultivation broth containing naphthol- $x$ in the proportion of 0.10 to 0.12 gramme per 1,000 . Naphithol- $x$ is nearly three times less poisonous than naphthol- $b$, and nearly geven hunidred times less poisonons than li-odurate of mercury. It would take a dose of 585 grammes of naphthol-2 to kifl a man. Albuminuria is produced ly subcutancous injection of 2 grammes in a saturated aleolvolic solntion; the injection of 3.5 to 4 grummes per 1 l . causes death. When injected into the portal system, naphthol- $x$ is not poisonous in different degrees, ns is the case with naphthol-b. These results. when compared with those obtained ly 31. Bouchard mith unphthol-b, prove the inferiority of the latter, which is more poisonous and less valuable as an antiseptic.

Thermal Springs of New Zealano. - The sum expended by the Government of New \%ealand for inprovement of the thermal springs was $£ 7,814$ in 1886, and $£ 3,200$ in $187 \%$; $£ 30$ will this yenr be expended, principally on the completion of the watersupply at Rotorua, and in the planting and improrements of the baths and grounds.

## SAN REMO.

[FRON OCR OWN CORRESPONDEST.]
Sisce mriting to you last the Crown l'rinco has made a slight improvement. The mucus is still tinged with blood, howeser, more so, I believe, than the physicians eare to admit. At the time when the slough sepnrated the expectoration was, as might have been expected, discoloured to a certain extent, but this tinging had ceased altogether for a week or two before the operation. Two days after tracheotomy had been performel great quantities of micus began to be discharged, tinged freely with blood. A number of tubes of different angles, curves, and lengths, have been tried, but slight hamorrhage still continves. It is stated that Professor IBergmann believed that a secondary deposit had taken place in the lungs; and, although Sir Morell Mackenzie would not agree to this view, he raised no objection to Professor hussmaul being called to determine the matter. The eminent professor of Strasburg University arrived here on Saturday evening, and a consultation wrs lield on Sunday morning. No disease of the lungs could be detected. I hear that Professor Fiussmaul takes an unfavourable view of the case entirely, from the microscopic examinations made at San Iemo. Sir Morell Dlackenzic, however, Without wishing to discredit theso investigations made by the Gcrman surgeons, naturally attaches more importance to the examinations made by Virchow, and is not prepared to assume a different nttitude in the case, unless a microscopist of equal standing to Professor Virchow (who is now gone to Lgjpt) states that he has found nest-cells in the deep tissues or an alveolar structure.

The last few nights hare been decidedly better-less coughing and more sleep-and the patient las been able to take some walking exercise on the balcony in front of the house. This he does (February 2\%fh) onenth and rigour, and as saw him to-day

## VIENNA.

## [FROM OUR OWN CORRESPONDENT.]

Gaseous Treatment of Linng Disease-ITygiene in Austria.Legacy to the Imperial Royal Society of Physicians.
Is a recent number of the Wiener Medizinische Presse Dr. Anton Karika gives some important details as to the treatment of pulmonary affections by inhalations of sulphuretted hydrogen and carbonie acid. He had used these inhalations in the case of pulmonary tuberculosis during several years. Ile had already, in 1887, reported the case of a girl affected with tubercnlosis, whom he tained the results desired. As to the results which he had obtained with inhalations of sulphuretted hydrogen, he could give the following particulars, basing himself on observations made on moro than fifty patients: 1 . In sereral cases the very first inhalations with sulphuretted hydrogen gave a certain amount of relief. The cough and dyspncer diminished, the expectoration became easier, and the patients felt refreshed and invigorated. In some this improvement took place very rapinly, so that after taree or four this result was obtnined much later, and in others not nt all. 2. A epecial alvantage of the inhalations with sulphuretted hydrogen consisted in the fact that the vital powers of the patients were not impaired, as was the caso after the use of anticatarrhal narcotics. 3. Noradical cure with these inhalations was observed in sny case. Among the tuherculous patients treated with sulphuretted laydrogen inhalations six years age, three were still liring, who were said to be healthy; among these was the girl referred to above. They were, hownver, also treated with other medicaments, and especially with antiphlogistic remedies. 4. Only the first inhalations produced any arpreciable goorl offect : after the aighth or tenth inhalation the condition of the patients underwent no change, 80 that it seemed to be uscless to continuo the inhalations. 5. In cases of re-lapse-namely, when the cough, ete., came on again, the inhalations generally dirl no good. F. The best effect with the inhalations was obtained in (a) rapid breaking down and suppuration of large tubercular foci in the lungs, (b) inflammatory irritation of the walls of the pulmonary cavities, (c) acute or chronie irritation of the bronchial mucous memhranes. (d) paroxysmal cough. 7. The suljhuretted hydrogrn inhalations diat goorl in about 60 per cont. of the patients thus treatel. It must, however, be added that the author had used this course of trentment
most frequently in severe and adranced cases of pulmonary tuberculosis. 8. The inhalalions caused patients no discomfort, and were well telerated by feoblo and sensitive women and children. These observations, in Dr. Karika's opinion, proved that sulphuretted hydrogen was not a specific romedy against tuberculosis; it was, however, an agent which sometimes producel excellent results in tuberculous persons, which we were quite incapable of obtaining by any other means. Tho obserrations showed, moreover, that (I) by means of sulphuretted hydrogen alone, without being mixed with carbonie acid, the same results could be obtained as thase produced by the intestinal injections recommended by Dr. Dergeon: (2) this offect could also be obtained by inhalations. The uso of this treatment would thus be more general and could be used without expensive apparatus, and without causing disgust to patients.
The establishment of an Austrian Sanitary Board ("Gesundheitsamt ") on the model of the German one, was, as is well known, proposed long ago. The committee to whom the preparation of the scheme wras entrusted receutly recommended to the Austrian Parliament the adoption of the following resolutions: The Imperial and Royinl Government is requested to: I. (a) Creato in each medical faculty specinl chairs for the tehching of hygiene and bacteriology, and to supply them with the necessary menns; (b) to issue a decree making the study of hygiene compulsory in future for ordinary students in the Anstrian medical faculties. 2. To improve the organisation of tho public sanitary service by increasing the number of State medical officers, and nominating saxitary inspectors. 3. To increase the inlluence of the landesstnitätsräthe (country sanitary councillors) and the oberstersanatatsrath (superior sanitary conncil) by the appointment of
well-known specialists in hygiene, architecture, statistics, 4. To give the public sanitary officers greater independes, etc. their relations with the political authoritics. 5. To moke adequate provision for the creation and endomment of laboratories for chemical and microscopical examinations. 6. To take care that the druggists should hare a more thorough practical education at the beginning of their career.

At the last meeting of the Imperial Royal Society of Physicians, the President, llofrath Bamberger, informed the members that, under the will of a Portuguese physician, the late Dr. Da Costa, the Society had received a legacy of 12,000 florins.

## SWITZERLAND.

[FROM OUR OWN CORRESPONDENT.]
Petition of the Enganine TIotel-keepers; Deoision of the
Federal Council.
The question relative to English practitioners in the Grisons (vide Joursar, February 18th, p. 374) has entered ujon a new and more important stage. The Vngaline hotel-keepers addressed n petition to the Grisons Kleiner Rath, requesting that Englisl medical practitioners settled in the Engadine who wished to obtain a Swiss diploma shonld be permitted to be examined in their native tongue. This petition was immediately referred by the Kleiner Rath to tho Bundesrath. We learn from an oflicial report in the Bund (February 25 th, 1858) that the Federal Council having duly considered the petition at their meeting on February 2 fth, flatly refused to comply with the request, for the following reasons: lirst, beeause such a permission would be a privilege granted to Laglish practitioners which is denied to the Swiss medieal man in Great lritain; and secondly, becanse, if such a favour were granted to Finglish practitioners, the Bundesrath would be logically bound to extend the same facilities to medical men of any other nationality or language, which would lead to obvious practical ineonveniences. In coming to this decision, the "Wederal fathers (Bundestacter)" hare not, perhaps, displayed their usunl sagncity. The
decision eannot possibly satisfy either their petitioners and the important seetion of the Swiss population connected with the "lootel industry" or, indeed, anyont of ordinary common senso outside official circles. Of course, it is a great pity that there does not get exist anything like an international right of medical practice; and that, amongst other things, the Swiss medical man, on his coming to England, is not even allowed to nass his examinations in his native (German, l'rench, or Italian) tongle. The Swiss Federal Council might find many less importnnt matters to oecupy itsulf with than. for instnnce, the initiation of a reform in this direction, as it lias already more thon once tried to do, with regard to the
international regulation of factory labour, and the establishment of an international standard of working hours, etc. lts present line of policy in relation to English practitioners appears to be purely vindictive. The attention of the Bundesrath ought to be drawn to the following simple facts: Their singularly beautiful and attractive little county, with its industrious and kindly population, is a conrenient and excellent health resort. (seo tho Journal. June 18th, 1857, p. I359), which does an immense amount of good to mankind, by giving year opportunities to legions on legions of people to restore their shattered physical and mental health, or to recruit their strength, exhausted by overwork. A very large proportion of the foreign visitors are English or Euglish-speakiug. The Bundesrath will probably admit that a well-organised medical service at every health resort is as essential and reasonable a condition as good sanitary surroundings. Patients, rightly or wrongly, prefer to be treated by their own fellow-countrymen, who know more of what may be termed their uational constitution, and are, therefore, more likely to select remedies suited to each individual case than a foreiguer, however learned and skilful in his profession.

In conclusion, we cannot help thinking that the fears of the Federal Council as to other nationalities claiming to be examined in their native tongues are quite groundless. A couple of years ago English medical studenta in Switzerland could claim to be examined in English, and even published their inaugural dissertations in that language. In spite of this "privilege" nobody-no Russian, Servian, Spaniard, or Chinese ever came forward to claim aimilar rights. We may assure the Bundesrath that if they had granted the prayer of the Engadine petitioners nothing of a revolutionary nature would have taken place in respect of medical examinations. The matter really concerns one of the three principal languages of this curious world, because everyone might naturally expect that such a highly educated person as a professor would know English as well as German and French. On the other hand, there does not yet exist any other human speech (except, perhaps, Volapiik) which can claim to be regarded in the same light as the three named above.

## CORRESPONDENCE.

## THE ELECTRICAL TREATMENT OF UTERINE TUMOURS

Sir.-Dr. Apostoli's wrath carries him far beyond the point up to which it is necessary for me to follow him after I lave said that you hare granted him most unusual grace in taking up a dispute from the columns of another journal; $[$, therefore, shall be brief.

I spent last Easter week in Paris as the guest of one of its most distinguished gynecologists, and during that time I met nearly all the gynæcologists of that city whose names were known to me. My astonishment was not small, therefore, when a few weeks afterwards 1 read in your columns such glowing account 3 of Dr. Apostoli and hia electrolysis, that I had never heard his name nor anything of his treatment from friends in Paris, who, one and all, erinced the utmost anxiety to show me everything worthy of notice.

On my return to England I wrote asking several of them if it Were worth my while to return to Paris to see about this new method of treatment. They all replied that it was not, and within a month I had letters indicating deaths traceable to Dr. Apostoli's treatment in six instances. I am not in a position to publish these letters, but that they exist is easily proved. You, Sir, have had at least two of them in your hands and hare read them.

I said (December 17 th) that the treatment must be tried. It has been, and I hare heard nothing yet tlat will induce me to gire it any countemance. It is a significant commentary on Dr. Apostoli's letter that by this morning'a post 1 have heen summoned to Paris to a patient "atteinte d'une tumeur fihreuse que la fait garder le lit depuis dix mois et la met dans l'impossibilité do la rendre chez vous. Elle est abandonnée de tous les médecins." Are Dr. Apostoli and his electrolysis still unknown in Paris, or what other explanation is there of this curious fact? - I am, etc.

February 27 th.
Latrson Tatt.
Sir,-As one of thee English surgeons who havo profited by M. Apostoli'a teaching, and as I have put the teaching into practice, I may be considered to bo in a position to say something on the question. In the first place, I hare seen no appearances threaten-
ing danger to life from the use of electricity, and I have now used it saxty-two times. Secondly, I have used it in seven cases of uterine myoma, and of this number three are already Iractically cured, the tumours being so much reduced in size as to have become insignificant. As I only hegan the electrical treatment in December, I claim that three recoveries out of seven cases in the short space of about two months quite equals the success obtained by castration operations. Indeed, I look upon the lat ter as regards the treatment of the tumours under discussion as dead as amputation of the finger for whitlow. Wiseman was a good surgeon, no doubt, in Charles II.'s time, and when he advocated amputation for whitlow, the treatment he recommended was right and proper, and remained so until a better hecame known. So castration for myoma was right and proper in its day, before the safer, quicker, and surer method introduced by Dr. Apostoli became known; but the former treatment by castration is now, as I said before, as much a thing of the past as amputation for whitlow.-I am, etc.,
J. E. Bearoy,

Liverpool, February 2rth.

## L.M. COOMBE HOSPITAL, DUBLIN

Srr,-lt is interesting to read together your leading article in the Jotrval of February IIth on the "Dublin Schools and their Teaching," and the paragraph in the Jocranal of February IEth, on the prosecution for illegal practice of the man Middlebrook, who sheltered himself under the Coombe IIospital, Dublin. But it is still more interesting to inquire about this hospital, which, according to the "master," gives a "qualification " of "L.M." to anyone "who attends thirty cases of labour in the hospital in a period of six months," and of course pays a fee and passes an examination in "midwifery and diseases of women and children."

The candidate need have no other qualification; more than that, he need hare had no other hospital training, need not know anything of anatomy, physiology, or pathology, and need nerer have dissected! What a farce this is !

It is all very well for the authorities of the Coombe Hospital to say, "the L.M. does not license a man to practise, as it cannot be registered," but they know that men do practise on it alone' and represent themselves to be qualified in virtue of the "L.M.,", and why do they not interfere to stop it? Is it because they are willing for a fee to act as cloak to unqualified practice?

In nyy own neighbourhood is a man, imperfectly educated and without any hospital training, who, having acted for years as dispenser and assistant, and haring been summarily dismissed by his employer, goes over to Dublin for six weeks (or less), takes his "L.M.C.H.," returns brandishing his "diploma," calls himself qualified, sets up for himself, is appointed "surgeon" to Farious friendly societies, raccinates, signs death certificates, and even gives evidence at an inquest! Is not this a case for the Medical Council?
If the Coombe Hospital would confine itself to reliering humanity and imparting special instruction to those qualified to learn, well and good; that is what the special women's hospitals and chest hospitals of London do, and do well, but they do not pretend to give "qualifications" (L.M.'s or L.Chests) to men without any training. That the Coombe IIospital should do this appears to me to be a great scandal, and one that calls for exposure and discussion in the Journal.-I am, etc.,

Pinxton, Alfreton, Derbyshire.
February 23 rd .

## PROTECTION IN THE STATES.

Sir,-A paragragh appeared in the Jocraval of January 21st, headed "Protection in the States," in which it was stated that there was a probability of Dr. Heneage Gibbes being prevented from taking up the engagement at the University of Michigan Which he had accepted. I am happy to say that I have received a letter from Dr. Gibbes, informing me of his safe arrival at the university, and of the kind reception he received. From this I conclude that no difficultry ras raised against his entering on the duties of Professor of Pathology-the chair to which he has been appointed.-I am, etc., F. De Mavilland IIall. 47, Wimpole Street, W., February 20 th.
Accident to a Medicai Practitioner.-Dr. Felson, of Belfast, by a fall from his horse while out hunting on Saturday, February 25th, sustained a frasture of the right arm.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## CHAlRGES TO RATHRSTS

T. I. S.-A rector in the position to matntain an establishment conaisting of e
 own statement to the enntrary notwithstanding) as a "jmor" clerkyman, nod sacuch, under tho "truo Bamaritan" rule wt the prolessian, entitted to a greater er less reduction of the usunl nielical feea, mach less to kritutious greaterai atteadance, as woold secus to have been the case in one or nuare fa tamces. Be that sa it nasy, an indnpentent examinazion of the respective theus anceifical io our correspondent ib statement of account, nad a subsequent
 comparlson with the fees sugkest upon our mind thit the changes madola the chses in question ara no doubt upon
very muderate. we think comeult with advantace the new edttion of the Modico-Clururgleal Tarifs, in which the question of charges to the elergy is rerlewal.

ASSISTASTS AND PARTNERS.
IV. Le 1). writes: I came here ar temponary assistant, and in doing so signed the usual boud not to practlsc within a certain distance for fire fears unless under writton authority. I am now to be adopted as part nor (paying lor my khare). If we sepnrate hy the present principal's dewire, say, after tive or six years. does the frond stlll hold gand lor a furt her period, or does the partnership deed absolutely set it ashie?
** Whant scelng the exaci words used in the bond, it is impossible to say whit it does or does not prohibit. The safo course is to havo werds jaserted In the partncradip deed puting an end to the previous agreement, and providing for what is to happen at the termination of the partnership.

## LFASES FOR LITES

Ax OLD Scbscriom writes: Is there any law to prevent one's life being pat on fomerty a cininst his consent? Thaddition to taking such a liberty some time aco, is mine is now the list life on very considerable and valuable property; i wat asked to sabmit to an exaraination by an insurance agent and nuedical man in order that $m y$ life uight be insured to compensate for the loss of property at my dmath. This I very promptly declined, but may death would mean tho falling to the lord of the manor (not too tich a man) of the valuable frojerty above Damed.

- We presume the question refers to a lease for lives. We know of no lavr to prerent the life of a stranger being inserted io such o lease; and the name of people of public position havo oftea been selected. The person whose umue is Inserted is. of course, under no obligation to submit to a medical ex amoluatina for the purpose of insurance. It has been proposed to forbid leases fur lives alfogether.


## GIRATUITOCS ATTENDANCE ON MILITARY MEDICAL OFFICERS'

 WIVES.4x Fix-Braxct-Prestdest writes: 1 am in consulting and general pmetice Pleaty to do. Have a gond reputation as a ohilful and successful acconchear. In consequence, I nm called upon to attend the wires of naval and military hospital mediral offcers herc. I have spent a whole dight in a boise, and coneludea labour twore dificultenceme aperation above the brim, anceess-
 fully all round. Dald cab-hire, bridge talls, tec. throuphont five weeks, more than once. Get veriabl thanks. One case is coming oft again I am told, and am anked to atiend. Ought I mot clearly to have a fee? The husbands, though medical men, are not civl practitioners, and therefore not abstetrielaos. It is a rery forlous matter to he detained from qrein patients, and have to remder skilled aid at auch a cost to one's self. It in civil lifo or circlea recornmeadation might result, but as it is, such runs on the same lines.
"- In reaponse to our correspondent's request, we would remark that, although it has always licen (so far as our personal knowledge extends) the rule and enatom, as latd down In the Code of Hedicat Ethics, thint "all legiemate framitioners (naval, nilitary, and civil allke) of medicine, thedr wlves, mal childeen whlle under the paternal care, aro entitled (not as n mater of right, brit) by profeasional courtesy to the rensonable and gratuitous sravices of the faculty realdent in their immediate or near neighbourhood whose assistance may be desired." it is ns distinctly emphaifed thereln thit "rallway and like expenara are excepted;" our correspondent, therefore, is clearly and justly entitled to all expenses out of pocket, tueb ad the cab-hire. biligetolls, and the like.

It may be well tombl that it fa not of infrequent oceurrence, especially in cases which give rise to unusuin! faligue, analous rasponsibility, and prolonged aftentance, that an honorarium, in some form or other, is presented (ind righty: $: 0$, wo think) to the attendant practitloner by a gratefal 'patieht or family.

Anorean. - If the tacls of the caso be an relatod by "Annoyed," the conduct of D) A. In efficlothly oftruding himself an the patlent, und autisnquently re peating the siait, and proceevific to cxamine bim, regardlesa of the lact prevousig made kuown to him (Dr. A.) that'llr. B. was in professtonal atfeadanee. clumely eonstituferl a grom breack of needical efiquette, which, if ro newed, con ycarceiy fall to evoke sovere profceslonal censure.
L.USATIO IS SISGILE CHARGE.

1. W. D, saks: Ia It logal for a qralleed medfeal man or a liyman in. Thave sujerviaion over a patient who has been under charge of o private luantlo exylam uithaut intog cortified?
:- Nid, not legul, without compliance with statutary, requirements no to orifer and certificates of Insanity, trapyrabaton of copies, and viatation by lunacy authorities, etc.

## NAVAL AND MILITARY MEDICAL SERVICES.

TIIE ARMY FSTIMATES

In anticipation of the disenssion on tho Army Estimates, which is put down for Monday next, the Secretary of State for War has, in accordance with the precedent of last, year, issued a memornudum which replaces the verbal statement formerly made by the Minister in the llouse of Commons.
The memorandum states that there has heen a decrease of 200 in tho Medical Staff Corps, and that it had been decided during the year to enlist men for the Roval Engineers, the Commissariat and Transport Corps, and the Medical Staff Corps, for thrce years' service only with the colours. "This is an important step, whieh will, as time goes on, matcrially increase the reserve of these raluable corps."

## The Sccretary of State makes the following reference to the

 question of financeThe cost of the Army Medical Department (Yote 4) has undergone careful examination; the rapid grorth of the charge for non-effective services having called special attention to thic present system. The seale of remuneration now in force was ndopted on the report of scommittee, which sat in 1875, to consider the grievances of the department, and the disinclination of the profession to enter its ranks. But it is obrious that a system which offers inducements to officers to retire upon a pension after only twenty years', service is expensive to the State; and not even acceptable to that, large section of the profession who, 'while fceling themselves unfted for further service abroad, 'are ready and anxious to continue their duties at home stations. "It is proposed to utilise in this manner the services of a large number of retired officers, and, further, not to allow any medieal officer to retire on the pension attached to his rank until he has served in it for a reasonable period. By these, ineans a large, reduction will he effected in the pension list; while, by extending the term of sidern service by one year, and by other steps now under consideration, we hope to make a considerable reduction in the cstablishment. For the present, therefore, all admissions to the Service are suspended, and it is probable that by the end of the
financinl ye nancial year twenty-cight officers whl have been absorbed. The changes, espeey year is a saving of $£ 19,100$; but the effect of these changes, especially upan the non-effective rotes, will be more It is added ture yenrs."
aded that it has been found possihle to dispense with a deputy surgeon-general at beadquarters.

## TIE INDIAN MFDICAL'SERVICE.

TrIm following is a list of the candidates for Her Majesty'g Indian Medical Service who were successful at the competitive examination recently held at lurlington Ifouse. Seventy-threo candidates competed for fourtecr appointments. All were reported quali-fied:- Marks

Marshall, D. G.
Moir, D. 31.
Roberts, J. Ii
Whttchureh, IT. F.
Grant, A. C. L
Hejel, J. G.

| Marks. |  |
| :--- | :--- |
| 3.40 | Gray, W. 11. |


| 3.355 |  |
| :--- | :--- |
| 3,350 | Gee. F. W. |
| O'Rrman |  |

3.275

3,2:0 Preikat. K .


## THE NAVI:

Staff-Strgion G. II. Maneley has been prombted to the rank officet-Supgeond Ile was appolated Surgeon, July 51 h , 186, and Staff-Surgeon Decumber joth, 1878.

## THE MEDICAL STAFF.

StRGFing. S. Romison, of the Srots. (Iuards, is promoted to be Sorpeon Major, in auceasebon to brigatie-surgeon $W$. it. Lanejrelised, He envered tho perylce March oth, 1880 . When lie wiss sent to Bombay, lin the crorly part of service amed how, has appointed to the zud Scots Guards, and has. remafned 18sh. howerer, with that corps crer ennoc. mignetion of Taraal (rocdal with clasp and Egjptian brauze star).

## THE VOLUNTEEAS.

Subancs W, O, lhfack FTT, 4th Volunteer latialion, Durham, Light Infantry (late the ath burham), is granted the homorary rank of Surgeon-Mrijor.

Honorary Aoniatant Surgeon W. F. M. Jicksos, ist Volunteer Bat alton Fouth Staforduhlro Regiment (Iate tho 2nd Staffohlshiro), Is ajpointed Acting Surgeom

Aching Surceon W. E. GAscougxe, Ist Volunteor Battallon West lhaing Rext mant Oite the 4th West Mding), had rksgued, bis appobutment; whoh was Tanted Uecember 7th, 1 t\$1.

# PUBLIC HEALTH <br> POOR-LAW MEDICAL SERVICES. 

ENGLISII URBAN MORTALITY IN 1887.
In the accompanying table will be found summarised the vital and mortal statistics issued by the Registrar-General in his weekly returns relating to the twenty-eight large English towns: Weekly summaries of these statistica have already beeu published in theae columns.

During the year 1887 the birtha of 296,951 children were registered in the twenty-eight Iarge English towns, equal to an annual rate of 32.2 per 1,000 of their aggregate population in the middle of that year, estimated at $9,250,000$ persons. This birth-rate showed a further decline from that recorded in recent years; indeed, since 1876, when the birth-rate was as high as 38.1 per 1,000 , it has year by year steadily declined. In London the birth-rate last year mas equal to 31.7 per 1,000 , while in the twenty-seven provincial towns it averaged 32.7 , and ranged from 25.8 in Brighton and 27.7 in Bradford and in Huddersfield to 38.5 in Preston, 39.1 in Noweastle-upon-Tyne, and 41.1 in Cardiff.

The 191,887 deaths registered last year in the twenty-eight towns were equal to an annual rate of 20.8 per 1,000 of their estimated population, which, with the exception of the rate in 1885 , Which was only 20.6, was lower than in any year on record. During the teu years 1871-80 the rate of mortality in the large torns dealt with by the Registrar-General averaged 24.0 per 1,000, During the first seven years of the current decade, 1881-87, the death-rate in these torns has not exceeded 21.4 per 1,000.' This reduction in the death-rate implies that nearly 162,000 persons in these trentr-eight towns were alive at the end of last year whose deaths would have been recorded therein had the mean rate of mortality equalled that which prevailed during the ten years 1871-80. It may be noted here that the estimated saving of life in England and.Wales during the same period of seven years, 1881-87, as the result of the marked decline of the general death; rate of the country, is no less than 400,000 . The rate of mortality in London during last year was only 19.6 per 1,000 , while it averaged 21.0 in the twenty-seven provincial towns, among which
it ranged from 16.9 in Brighton, 17.1 in Dorby, and 18.7 in Tottingham to 25.3 in New castle-upon-Tyne, 25.5 in Blackburn, 27.0 in Yreston, and 28.7 in Manchester.

During the year under notice, 29,615 deaths were referred to the principal zymotic diseases in the twenty-eight large towns, equal to a rate of 3.21 per 1,000 , which, though slightly exceeding the low zymotic death-rates recorded in either of the two preceding yeara, wa below the average rate in the ten previous yeara, $187 \%$ 86. The lowest zymotic ratea last year were 1.3 in Halifax, 2.2 in Brighton, and 2.3 in Plymouth; while the highest were 4.4 in Blackburn and in Salford, 4.5 in Preston, and 4.9 in Manchester. The 29,615 deaths referred to these zymotic diseases included 9,151 which resulted from diarrhoea, 7,248 from measles, 5,675 from whooping-cough, 3,609 from scarlet fever, 1,983, from fever (including typhus, enteric, and simple or ill-defined fever), $1,61 \%$ from diphtheria, and 332 from emall-pox. The rate of mortality from diarrhea was equal to 0.97 per 1,000 , which almost corresponded with the average rate in the preceding ten years, 1877-86. This disease showed the largest proportional fatality in Wolverhamptan, Bolton, Salford, Leiccster, and Preston. The death-rate from meaales was equal to 0.79 per 1,000 , and exceeded the rate in any year on record. In London the rate of mortality from measles was 0.69 per 1,000 , while in the twenty-seven provincial towns it averaged 0.87 , and was proportionally highest in lluddersfield, Salford, Norwich, and Manchester. The death-rate from whooping-cough was equal to 0.62 per 1,000 , and although exceeding the rate in either of the two preceding years was below the arerage ; this disease.was much more prevalent in Londou than in the aggregate of the provincial tomns, among which, however, it caused high rates in Liverpool, Oldham, Blackburn, and Birmingham. The rate of mortality from scarlet fever was equal to 0.39 per 1,000 , and although considerably below the average rate in the ten preceding sears, 1877-86, showed a marked increase upon the low rates in the two previous years; the highest death-rates from this disease were recorded in Salford. Oldham, Birkenhead, Bristol, and Blackburn. The rate of mortality from "fever" (principally enteric), which had been 0.20 to 0.23 per 1,000 in the two preceding Jears, was again $0.2 ?$ during the year under notice, against an average rate of $0.2^{32}$ in the ten preceding years, 1877-86. The death-rate from fever in London last year was only 0.16 per 1,000 , and was lower than in any

Public Health Statistics relating io Twenty-eight Large Engish Towns, for the Iear $188 \%$.

| Towns. |  | 总 | Deaths. | Ann | 1 Rate Livin <br>  | per 1,000 <br>  |  |  |  |  |  |  |  | Diarrhoea: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2s Towns <br> 27 Provincial Towns | $9,245,099$ $5,028,907$ | $\begin{aligned} & 296,951 \\ & 163 ; 576 \end{aligned}$ | $\begin{aligned} & 191,887 \\ & 109.679 \end{aligned}$ | $\begin{aligned} & 32.3 \\ & 32.7 \end{aligned}$ | $\begin{aligned} & 20.8 \\ & 21.9 \end{aligned}$ | $\begin{aligned} & 3.3 \\ & 3.4 \end{aligned}$ | $\begin{aligned} & 29,615 \\ & 16,931 \end{aligned}$ | $\begin{aligned} & 332 \\ & 323 \end{aligned}$ | 7,248 | 3.609 2,162 | $\begin{array}{r} 1,617 \\ 656 \end{array}$ | 2,675 | 1,983 | 19,151 | 3.2 | 160 |
| London | 4,316,192 | 133.075 | 82,208 | 31.7 | 19.6 | 3.0 | 12.684 | 9 | 2,894 | 1,447 | 961 | 2,928 | 672 | 3,7i3 | 1.1 | 153 |
| Brighton | 118,186 | 3,035 | 1,988 | 25.8 | 16.9 | 2.2 | $\stackrel{260}{ }$ |  | 71 | 10 | 29 | -31 | 13 | 106 | 3.1 | 149 |
| lortsmouth | 137,917 | 5,059 | 2,682 | 36.5 | 19.5 | 2.4 | 335 | 3 | 8 | 26 | 17 | 42 | 54 | 155 | 1.0 | 143 |
| Noraich | 92,848 | 3,138 | 1,881 | 33.9 | 20.4 | 3.7 | 343 |  | 143 | 36 | 21 | $52^{\prime}$ | 18 | 73 | 1.3 | 158. |
| Plymnuth | 77,127 | .2,425 | 1,743 | 31.5 | 22.7 | 2.3 | 174 |  |  | 14 | 5 | ${ }^{\prime} .51$ | 17 | 81. | 1.3 | $106{ }^{\text {a }}$ |
| Bristol | 223,695 | 6,023 | 4.546 | 29.7 | 20.1 | 3.0 | 672 | 13 | 14. | 214 | 25 | 123 | $2{ }^{3}$ | 117 | 2.3 | 149 |
| Wolverbampton | 80,847 | 2.675 | 1,746 | 33.2 | 21.8 | 2.5 | -202 | - | 27 | 16 | 5 | 2 | 17 | 106 | 1.5 | 176 |
| Birmingham | 141,095 | 13,963 | 8,663 | 31.8 | 19.7 | 3.1 | 1,347 | 2 | 233 | 35 | 55 | 384 | \% 6 | 562 | 2.1 | 1.6 |
| Leicester | 143,153 | 4,679 | 2.785 | 32.8 | 19.5 | 3.1 | 439 |  | 8 ? | 5 | 12 | 50 | 88 | 243 | 2.5 | 909 |
| Nottingham | 224,230 | 7.433 | 4,181 | 33.3 | 18.7 | 2.6 | 570 | - | 54 | 22 | - | 148 | 72. | 207 | 1.8 | 170 |
| Derby | + 94.006 | 3,810 | 1.605 | 30.0 | 17.1 | 2.4 | 226 | - | 102 |  |  |  | 21 | 63 | 1.8 | 112 |
| Pirkenhead | 97,703 | 3,161 | 2,044 | 32.5 | 21.0 | 3.2 | 311 | - | 82 | 83 | 10 | 32 | 21 | -5 | 2.3 | 158 |
| Liverpool | 502,991 | 18,414 | 14,006 | 31.2 | 23.7 | 3.9 | 2,391 | 1 | 661 | 321 | 95 | 429 | 191 | 630 | 5.0 | 133 |
| Bolton | 112,354 | 3.639 | 2,386 | 32.3 | 21.3 | 3.2 | 3.98 | - | 96 | 37 | 6 | 20 | 36 | 155 | 3.4 | 111* |
| Manchester | 37\%.529 | 13,501 | 10,786 | 35.9 | 28.7 | 4.9 | 1,529 | 0 | 70 S | 245 | 74 | 203 | 119 | $1: 1$ | 2.5 | 192 |
| Salford | 213,658 | 6,956 | 4,827 | 31.9 | 22.2 | 4.4 | 969 | - | 320 | 156 | 21 | 65 | - 50 | 32. | 4.0 | 195. |
| Oldham | 134,158 | 1,183 | 3.188 | 31.3 | 23.8 | 4.0 | 439 |  | 169 | 103 | 55 | 103 | 27 | \$3 | 5.4 | 157 |
| Blackburn | 116,844 | 1,164 | 2.987 | \$5.8 | 25.5 | 4.4 | 509 | 4 | 81 | 153 | 1 | 93 | 40 | 123 | 3.1 | 201 |
| Preston | 102,283 | 3,920 | 2,546 | 38.5 | 27.9 | 4.5 | 159 | 1 | 31 | 6.1 | 27 | 41 | 6 | 231 | 3.7 | 214. |
| liuddersfiela | 90,034 | 2.185 | 2.063 | 27.7 | 23.0 | 3.3 | 300 |  | 126 | 31 | 38 | 60 | 9 | 36 | 3.8 | 151. |
| Malifax. | 79,207 | 2,245 | 1.654 | 28.4 | 21.0 | 1.3 | 99 |  | 14 | 32 | 6 | 13 | 13 | 22 | 7.0 | 1.53 |
| Fradiord | 224,507 | 6,203 | 4.160 | 27.7 | 19.9 | 2.9 | 640 | - | 132 | 98 | 11 | 153 | \$i | 204 | 2.8 | 1.78 |
| Jeeeds. | , 345,080 | 11.446 | 7,241 | 33.3 | 21.1 | 2.7 | 885 | 1 | 173 | 315 | 11 | 129 | 103 | 393 | 1.7 | - 112, |
| Sheffield | 316.2s8 | 10,356 | 6,803 | 32.9 | 21.6 | 4.2 | 1,338 |  | 286 | 205 | 15 | 174 | i9 | 298. | 5.9 | - 175. |
| liall | 196.855 | 6,443 | 3,766 | 32, 5 | 19.2 | 2.8 | . 5.58 | 2 | 111 | 67 | 12 | $8 .$ | 80 | $231{ }^{\prime \prime}$ | 4.4 | $\cdot 165$ |
| Kunderland | 129,684 | 1,471 | 2.549 | 34.6 | 19.7 | 3.1 | 405 | - | 16. | 17 | 9 | $57$ | 30 | $121$ | $4.4$ |  |
| Neweastle-on Tyne . .. .. Cardir | 157.018 | 6.121 | 3,863 | 3.11 | 25.3 | 3.4 | 529 | 11 | 316 61 | 37 10 | 29 20 | 19 | 18 | 114. 8. | 3.0 |  |
| Cardifl | 104,580 | -4,288 | 2,285 | 41.1 | 21.9 | 3.5 | 263 | 11 | 61 | 10 | 20 | 45 | 18 | 25 | 2.2 | 112. |

year on record; in the twenty-seven provineial towns it averagen 0.26 per $1,0 h 0$, and was highest in Bheckburn, Newenstle-unnTyne, Sulford, 'Portsmouth, and Preaton. The rate of mortality froun diphtheria was 0.18 per 1,041 ), and exceeded that recorded in any preceding year: in London the diphtheria dent h-rate was 0.23 per 1, (Mx), while it did not average mare than 0.13 in the provincial towns, among which, however. this disease was fatally prevaleut in lortsmouth, oldham, and lindderstield. During the year under notiee 33: Latal cuses of small-pox were reeorded in the twentyeight towns; only 9 occurred in london, and 323 in the twentyseven provincial towns, including 278 in' Sheffield, 13 in Bristol, il in Cardiff, 6 in Manclester, 4 in Blackburn, 3 in Portsmouth, 2 in IIull, 2 in Birusingham. and 1 each in Liverpool, Preston, Leeds, and Neweasthe-1! patients under treatment in the Metropolitan Asylums llospitals at any time during last year was 15 , and only 7 remained at the end of December: fis cases were admitted during the year, of which 30 were admitted during the last quarter.
Infant mortality, measured by the proportion of deaths under one year of age to registered births, nseraged 168 per 1,000 in the twenty-eight towns during the vear under notice. In London the rate did not exceed 158 per 1,000 , whereas in the twenty-seven provincinl towns it averaged 176 , and ranged from 142 in Derby, 143 in Portsmouth, and 149 in Bristol to 195 in Salford, 201 in Blackburn, ${ }_{2}(9)$ in Leicester, nud 214 in Preston.

## SAIITATION OF DWELLINGS.

A Bill having an important sanitary object has been introduced by Lord Henry bruce. On a representation to the Local Government Board, signed by at least six ratepayers of a district, to the effect that the local authority of a district has failed to put in force, as occasion required, its powers for securing the proper sanitary condition of the premises within its district, the Board will, according to his scheme. proceed to hold a loeal inquiry as to the truth of the representation. If on tho report of the inspeetor the Board are of opinion that the representation is well founded, they will dissolve the defaulting local authority, and direct a fresh election of members. The obligation is also imposed by the Bill on local authorities of making by-huws respecting lodging-houses. The penalty is increased to whieh the owner of a dwelling is liable for disobeying an order as to the abatement of a nuisance. Provision is also made for the inspection of cellars or underground rooms occupied as dwellings in London.
tile post of public vaccinator at walsall.
Tye action taken by the Walsall Board of Guardinns in calling upon Mr. Willmore to resign his appointment of public yaccinator at the end of the jear, and in announcing their intention of appointing someone else in his place, has caused some feeling of dissatisfaction. A circular bas been issued signed by two medical men, expressing the opinion that Mr. Willmere has been the vietim of a series of attaeks from the gunrdians, and protesting against the arlitrary conduct of the guardians. It is stated that the guardians are unable to bring any sufficiently grave charge ngainst Mr. Willmoro to make the Local Government Board dismiss him from the post of nedieal officer for the No. 1 Distriet; that he has been public vaceinator for years, and has received the Government grant as often as it is possible to receive it. The circular calls ulpn the medical men of Walsall "to stand together as a borly and pledge themselves that they will not offer themselves as candidates for the vaeant post," as a protest against the arbitrary conduct of the guardians.

IIeadith of Exalisn Towns.-In the trenty-eight large Euglish towns, including London, which have na catimated population of $9,308,2,33$ persons, 8,478 births and 3,888 deathe were registered during the week ending Saturday, February 25th. The annual rate of mortality per 1,000 persons living in these towns, which had been 22.2 and 20.9 in the two preeding weeks, rose again during the week under notice to 21.5 . The rates in the severul towns ranged from 13.0 in Cardiff. 13.7 in Derly, 16.7 in Norwich, and 16.8 in 1 Iull to 25.4 in Manchester, 26.5 in Salford, 28.5 in Blackburn, and 32.2 in Plymouth. In the twenty-seven provincial towns the mean death-rate was 21.5 per 1,000 , and corresponded with the rate recorded in London. The $3,8 \times 3$ deaths registered during the week under noticn in the twenty-cight towns included 173 which were referred to whooping-eough, iot to scarlet fever,

46 to measles, 43 to "fever"(principally enterie), 40 to diphtheria, 29 to small-pox, and 23 to liarrlicea ; in all, 429 deaths resulted from these principal zymotic disenses, against 491 and 40.0 in the two preceding weeks. These 429 deaths were equal to an anuual rate of 2.4 per 1,000 ; in London the zymotic death-rate was 2.8 , while in the twenty-seven provincial towns it averaged only 2.0 per 1,000, and ranged from 0.3 and 0.4 in Newcastle-upon-Tyne and Brighton to 3.4 in Plywonth and in Manelester, 4.4 in Blaekhurn, and 5.5 in Shellield. Measles causel the highest proportional futality in Blackburn and l'lymouth; searlet fever in Blaekburn, Cardifí, and Birkenhead; whooping-cough in Derby, Manchester, Leicester, and London ; and "fever" in Derby. Of the 40 deaths from diphtheriu recordel during the week in the twenty-eight towns, 30 oceured in London, 3 in Liverpool, 2 in Salford, and 2 in Preston. The 29 fatal cases of small-pox included 20 in Sheflield, 5 in Manchester, 1 in Leeds, 1 in Oldham, and 1 in Backburn. The number of small-pox patients in the Metropolitan Asylums Hospitals was 6 on Saturdny, the 25 th ult. of which 4 had been admitted during the week. These hospitals also contained 1,303 scarlet fever patients on the same date, against numbers steadily declining from 2,600 to 1,395 in the twelve preceding weeks; there were 93 admissions during the week, against 146 and 104 in the two previous weeks. The death-rate from diseases of the respiratory organs in London was equal to 5.8 per 1,000, and was slightly below the average.

Health of Scotci Towns.-During the week ending Saturday, February 25th, $835^{\circ}$ births and 571 deaths were registered in the eight principal Scotch towns, The annual rate of mortality, which had been 22.5 per 1,000 in cach of the two preceding. weeks, was 22.6 daring the week under notice, and exceeded by 1.0 the mean rate during the same period in the twenty-eight large English towns. Among these Scoteh towns, the lowest rates were recorded in Greenock and Aberdeen, and the highest in Glasgow and Paisley. The 571 deaths in theso towns during last week included 61 which were referred to the principal zymotic diseases, equal to an annual rate of 2.4 per 1,000 , which corresponded with the mean zymotic death-rate during the same period in the large English towns. The highest zymotic rates were recorded in Perth and Paisley. The lighest proportional fatality of measles oceurred in Edinburgh and Leith, and from whooping-cough in Glasgow and Paisley. Three deatbs from diphtheria were recorded in Glasgow, and 2 in EEdinburgh. The mortality from diseases of the respiratory organs in these Scotel towns during the week under notice was equal to 5.6 per I,400, against 5.8 in London.

Ifealtit of Irisi Towns.-In the sixteen principal town districts of Ireland, the deaths registered during the week ending Satnrday, February 25th, were equal to an annual rate of 31.2 per 1,000. The lowest rates were recorded in Armagh and Kilkenny, and the higheat in Limerick and Dundalk. The death-rate from the principal zymotic diseases in these towns averaged 2.9 per 1.000 , and was highest in Belfast and Lurgan. Measles showed fintal prevalence in Belfast. The 192 deaths registered last week in Dublin were equal to an annual rate of 28.4 per 1,000 , against 29.9 and 25.9 in the two preceding weeks, the rate during the same period leing only 21.6 in London, and 21.0 in Edinburgh. The 192 deaths included 17 from the prineipal zymotic diseases (equal to an annual rate of 2.5 per 1,000 ), of which 8 resulted from searlet fever, 4 from whooping-cough, 3 from " fever," and 2 from measles.

## refonts of medical ofricers of healtio.

Walsall (Topulation, $6 \overline{5}, \underline{2} 20)$.- $1 t$ must always be a matter for congratulation when a low death-rate can be recorded, and as this was Dr. John Wood's experienee of the year 18s6, he has every reason to look upon his report as satisfiactory. A severe epidemic of measles visited the borough and caused 90 deaths, for the most part the resilt of bad nursing. There were $3 \overline{7}$ eases of small-pox, of which 3 terminated fatally. Nearly ull the eases were trated in the hospital, which, as Dr. Woots observes, is growing in popularity. Scarlet fever appeared to have died out entirely, and only one death was recorded. There was the usual prevalence of nutumal diarrhoa destructive to infant life. Typhoid ferer caused if deaths in widely separatel localities. No special insanitary conditions are recorded in connection with these cases, except that in some instances vaulted privies existed
and suspicious well water was heing made use of. The general death-rate was 18.2 per 1,000 , of which the zymotic proportion was 3.25 .
Lambeth (Population 274,196).-Diphtheria in St. Thomas's Hospital.-Dr. Verdon's report for the year 1886 is in reality a very able and comprehensive essay on the agencies which have had an effect in ameliorating the condition of the poor and the relationslip which the mortality in a district bears to the degree of the poverty of its inlabitants. He views with special satisfaction the progress made of late years by the temperance movement in all classes of society, and points out that pauperism has been attacked and partially overcome by the adrance of education. The deathrate for the year was 19.2 per 1,000 , and the zymotic death-rate 2.5 , the metropolitan rates being 19.9 and 2.6 respectively. He mentinns the following peculiar circumstance. A child that had beeu under treatment for an injury for several weeks in St. Thomas's IIospital had recorered from the worst effets of its accident when it was suddenly attacked by diphtheria and died. No other person in the ward was suffering from diphtheria, and no one could throw any light upon the manner in which the child had been infected. A month later a little boy was taken to the hospital on account of a rupture, and an operation was successfully performed. The mother had already made arrangements to remove him from the hospital, when he was taken ill with diphtheria and died. Within a period of eight months seren cases of a like nature, received into the hospital for operation or from accident, died of diphtheria. The origin of that complaint remains a mystery, but Dr. Verdon is under the impression that the precipitated filth exposed at low water in the Thames at the base of the hospital may have had something to do with it.

Stampord (Population, 9,263)--Epidemic of Scarlet Fever associated with Cases of Renal Disease. The statistics compiled by Dr. T. E. Carter for 1886 were remarkably farourable, the general death-rate of 15.5 per 1,000 being mucli below the average, and the lowest on record in Stamford. Scarlet fever was the chief infectious disease which had to be dealt with. The epidemic broke out in November, 1885, and lasted more or less through the following year, causing 6 deaths, and terminating at last because there was hardly any more material for it to feed upon. In conneetion with this epidemic, Dr. Carter states that he has since met with a larger number of cases of renal diseases. Itis belief is that the inflammation of the kidney is of searlatinal origin. Of the other zymotic diseases, diarrhea caused 5 deaths, typhoid ferer 1 , and diphtheria 1 .
Taunton Urban and Rerall (Population, 17,437 and 19,367). - Increasing Appreciation of Infectious Hospital.- Of both these distriets Dr. Alford had a very favourable report to make for 1886 in respect of rital statistics. Yot only were the death-rates materially diminished, but there was an almost complete absence of any epidemic. The Sanitary Ilospital did good service in prerenting the spread of infectious sickness. Dr. Alford states that it is more freely used than formerly, and that the prejudice against it is fast passing away. The good nursing, well-ventilated wards, and general comforts are, moreover, of great benefit to the paticuts. A case of small-pox was brought into the borough, and a second occurred in the rural district; both were removed into hospitul, and the disease did not syread. Caces of scarlet-fever of a mild type cropped up at intervals. Where possible isolation was ensured, disinfection of houses and bedding, ete., was carried ont, and in no case did the disense spread. The early part of the rear was remarkable for the inclemency of the weather, easterly winls and lor temperature prevailing. Hence diseases of the pulmonary organs were common, and cansed an unusually heavy mortality: Two cases of diphtheria were reported in the rural district, ne of which appeared to be attributable to the cleansing of a pond, which for years had been a receptacle for manure.

## MEDICO-PARLIAMENTARY.

HOUSE OF LORDS.-Friday. Felruary 24 th.
Pharmacy Acts Amendment. Bill.-The Earl of Milutown moved the seeond reading of this Bill, which lad, he said, the full approbation of the Council of the lharmacentical Society. The bill, which made certain clanges in the procedure of qualitication
under the Pharmacy Acts, would not come into operation until more than three years had elapsed from the present time, the object of the postponement being to safeguard the interests of those who were now going through an apprenticeship. The motion was agreed to.

Tuesday, February 2sth.
Fires in Theatres.-The Earl of MrlLTows mored that a humble address be presented to Her Majesty praying for the reply of the local magistrates to the report of Captain Shaw on the late fire at Exeter. The motion was agreed to.
The Secating System.-Lord DUNRates, in calling attention to the report to the Board of Trade on the swenting system in tho East-end of London by the labour correspondent of the Board, read numerous extracts from the report to prove the severity of the work done by the poor people of both sexes. He showed that not only is their remuneration on a seale that scarcely affords them the means of bare existence, but that the number of hours worked by them is dangerously excessive, and that in very many cases they perform their task in miserable rooms, which they are obliged to overcrowd, and in which the most ordinary sanitary laws are entirely disregarded. He moved for inquiry into the question by a Commission or Committee emporvered to examine witnesses on oath, and he concluded by moring for a Selcet Committee- - Lord OxsLow accepted the motion, which was agreed to. He stated that nineteen-twentieths of the persons who did tailoring under sweaters in the East-end were German and Polish Jews and Jewesses, and the habits of these persons, even in their own countries, were very different from those of the English working-classes. They threw obstacles in the way of workshop inspectors.

## HOUSE OF COMMONS-Thursday, February z3rd.

Hydrophobia.-On the motion of Viscount Curzox, a return was ordered, showing the number of deaths from hydrophobia during the ten years ending in 1886 in the United Kingdom.

> Monday, February arth.

Rating of Lunatic Asylums.-Mr. W. IF. Sxith, in reply to Mr. Frimber, said: The Government do not propose to bring in a Bill dealing with the assessment of rates ou lunatic asylums, but an opportunity will arise for raising the question when the Lunacy Acts Amendment Bill is before the Ilouse.

Compulsory Notification of Disease.-In answer to Mr. Howard Vincest, Mr. Ritchie said the system of compulsory notification of infectious diseases was in force in England and Wales in fortythree boroughs and four local board districts. He had no precise information at the present moment with regard to Scotland and Ireland, but. if wished, he would procure it. The question as to the introduction of a Bill to extend the system of compulsory notification was, he said, under consideration.

## Tuesday, February 2sth.

Flogging.-Mr. Matthews, in reply to Mr. Powell Williams, said the Lord Chancellor and the Lord Chief Justice concurred with him in the opinion that Aet 7 and 8 . George 1V, cap. 28, should be repealed thus reserving the punishment of flogging for offences attended by riolence). Steps mould be taken by the Government to effeet its repeal.
London Heter Supply.-The second reading of the Grand Junction Water Bill was under discussion for some time, and, on a division, the Bill was thrown out by 188 to 104 .

## OBITUARY,

Chatles crorer kisg, M.D., D.Sc., F.R.C.S.I., Commissioner, Local Government Board, Ireland.
We regret to announce the death of this most highly esteemed member of the profession. He descended from a very distinguished family, his grandfather. Samuel Croker King, having been the first president of the Royal College of Surgeons as nominated in the charter of 1784 . A fine portrait of lim now reverts to his College. 1 Ie was almost exclusively the attendant of the numerous noblemen who had residences in Dublin towards the end of the last century, and his most famous case was that of an infant, who in time became the illustrious Duke of Wellington.
The suljeect of our notice hecame a Licentiate of the College of Surgeons in 1837 aut a Fellow in 184. While acting as Denon-
stmator in Trinity College, ho gave raluable aid to lrofessor llarrison in the preparation of that popular textbonk The Thusion Disector as acknowledged in the preface, and ho delivered anveral murses of delightful lectures on artistic auatomy at the Royal Dublin Society. These services and the publication of several scientilic popers ensures] his election to the Chair of Anatomy and lhysiology in Qucen's Cullege, Galway, on its fomdation in 1840. This post he filled with striking ability until 1863, when he accepted an inspectorship under tho Local Governmont Board. His skill in carring out the snaitary Acts and controlliag the cpidemics of cholera in 1866 nud of small-pox in 1s71-2 induced the Gorernment to select him for the Commissionership which became racaot in 1870.
Dr. King while in practice was a very excellent operator, and the helped in no small degree to the success of tho Medical Schoal at Galway: lle contributed scveral papers on surgical subjects to the journals. He was an excellent lecturer. In the position of Hedical Commissioner le was regarded as a most fair-minded and hindly superior, and his dentle will be much regretted by the members of the department whicli he so long controlled.
This office is somerhat analogous to that held with such, renown by Sir. John Simon (who had before been medical officer of health for London "City), and at present by Dr. Buchadan. In Ireland, howerer, the bolder of this position is not merely an adviscr, but a Commissioner for directing the medical charities, raccination and sanitary Acts, and framing by-laws and statistics under them. Questions touching water supply, sewerage, dwellings for the working classes, closure of burial grounds, and adulteration food are those which are mainly presented to him for consideration and decision. The honorary doctorates in Medicine and in Science of the Queen's University were amongst the distinctions conferred on the late Commissioner. Dr. Croker King ras in good health until December last, when a slough was cansed by rasping a corn on the little toe of the left foot. The sercre pain felt when the limb was dependent, and the feeble pulsation of the arteries, at once gave a grave aspect to the case. Sonile gangrene supervened and proceoded to the tarsus, where a good fine of demarcation formed. All hope of recovery was, bowever, abandoned last week, when septicremia tras developed, and he sank on Tuesday morning. 110 was attended throughout by Dr. Mapother and Sir George Porter, and other senior surgeons as consultants. Ilis genial and benevolent character had so much enileared him that the widest aympathy is felt for his widow and their only child, Colonel King, now of Cheltenham.

FRANCIS IHRD, F.R.C.S.,
Consulting Surgeon to Charing Cross Mospital.
ON Priday, February 2th, Mr. Francis llird died at Brighton, at the age of 74 . Ite was born at Jarlington in 1813 , and receiverl his medical education at the Westminster Hospital and in Duhlin. When Charing Cross Ilospital was founded he joined its teaching staff, and for forty-three years after
that date he remained an active oflicer in the school and wards. Amongst his pupils, when he was Lecturer on Anatomy, were Dr. Livingstone, Irofessor lluxley, Sir Joseph Fayrer, and Sir Gurer IInnter. In 1843 he became llonorary Fellow of the College, having taken the Membership in 1836. 1le was appointed assistant-surgeon in 1855, and remainerl aurgeon to the out-patient department for fifteen years. In 187) he was olected full surgeon, resigning in February, 1881, when be was made consulting surgeon. On the occasion of his retirement, a service of plate and a testimnnial engrossed on rellum was presented to liim by the Gowernors and staff.

Mr. Mird wrote but little. Ho was orator at tho Medical Snciety in 1818 and in 1850 . In 1855 he delivered the Lettsomian Lectures; the subject was "Some Special loints in the Anatomy of the U'erus and its Structural Lesions the lesult of Inflammation. ${ }^{\text {n }}$ He was a gentleman of commanding presence, handsome fentures, and conciliatory manners, thoroughly suited for a mealical school.
Mr. Hird was one of the warmant supporters of the late Mr. Propert in the fonndation of the Ruyal Medical Ilenevolent Colloge at Fisom, of which he was a Member of Council for mnrn than thirty years. He succeded his old friend Mr. Mencock as treasurer of the College, on the resignation of the latter in 18,f, and it was only in May last year that he resigned the treasurership, having retired from practico and gone to live at Brighton. Hir. Hird leares a son, who is a clergyman of the

Charch of England, and three danghters. He was buried on Februnry with, at liensal Green, several members of the staff of his hospital being in attendance.

The following resolution was passel at a meating of the School Committee on Wednesday:-"The School Committee of Charing Cross llespital have learnt with the deepest regret that Mr. Ilird, lata Dean of the schonl, died suddenly on friday last, and beg to expreas their warmest sympathy witli his family in the loss that they hare sustained, a loss which is especially felt ly the ofticers of this School, with which he was for many years 80 closoly connecterl."

## FRANCIS BOASE, M.R.C.S.

Mr. Boask, whose death at the age of 09 occurred on February 7th, was an old and highly esteemed inhabitant of l'enzance. He was borm in 1819, in the room in which he died; he studied at University College, and became a member of the Royal College of Surgeons in 1841. For a period of thirty-five years, Mr. Boase filled many important local offices, and identified himaelf with every laudable and progressive movement. $11 \theta$ became a member of the Town Council in 1833, he was elected alderman in 1861, and became a justice of the peace for the borough in I869. No better instance of his well-deserved popularity could be giren than the' fact that he filled the office of mayor no less than gight times.

Mr. Boase was an ardent volunteer, having connected himself with the movement at its rery commencement, and attained, nftersuccossive steps, the rank of captain, ultimately retiring with the rank of honorary major. At the time of his death he was vicepresident of the Penzance Board of Guardians. He has been a warm supporter of the West Cornwall Intirmary and Dispensary.

## ALEXANDER McBEAN, M.T.C.S.

We have to announce the death of this gentleman, at the age of 78. Ile was a native of Aberdeen, and for a period of forty years he practised at Hanley, where he made many friends, and was highly esteemed. He was of quiet and unassuming manners. 11e retired from practice about seventeen years ago, being succeeded by his former partner, Mr. W. D. Spenton. For many years past the deceased gentleman had been in the habit of speading his winters in Italy, but this year was prevented by his growing infirmities. He was unmarried.

## M. TEON (EASSEREAU.

M. Léon Bassereav, whose name was so familiar throughout Europe in connection with the theory of dualism, died lately in Paris at the age of 76 .

From a memoir in the Annales de Dermatologie et de Syphilographie it appears that M. Basscreau, who was born in the year 1810, was a cousin of the beautiful and celebrated Madame Récamier, and at first studled for the law, which, lowever, he soon abandoned for medicine. He became an interne of the Paris hospitals in the year 1835, and took his doctor's degree in 1840 . Under the guidance of Brett and Ricord he devoted especial attention to vencreal diseases, and in 1852 published his well-known Traité des 1 ffections de la Peau, Symptomatiques de la Syphilis. This book was the chief means' by which the confusion which then reigned between syplinitic and non-syphilitic primary sorea whs brought to an end. By a large number of caraful oliservations, including the confrontation of syphilitic persons with those from whom their disease had been contracted, it was ahown that when the former developed constitutional symptoms, the latter were also syphilitic. M. Bassereau was also the author of an essay on the influence of iodicle of potassium in syphilis, which gained him the silver medal of the laris Society of Medicine in 1845.

Though he continued throughout his life to take great interest in the subject of renereal disease's, Bassereau was not a specialist, but practised as a general physician. He was imade a Chevalier of the Legion of IIonour in I861.

Laloo, tite Case of Panasitic Foetce-Mr. M. D. Fracis, whon is at present exhihiting Laloo, writes to state that the statement that laloo tras prevented fromappearing at the ludian Exhibition owing to a legal question is inenrect. Mr. Fracis brought him to Fingland and exhibited him at that exhilition until its close. Mr. Fracis alsn states that he has never been forbidden to cxhilit Lalon on the senre that such an exhibition would he indecent. Laloo has been exhibited without any interference in tho principal towns of Lingland. Scotland, and Jreland.

## MEDICAL NEWS

Soctety "of Apothechbirs of Losdos.-The following gentlemen having passed the Qualifying Examination in Medieine, Surgery, and Midwifery have received eertificates entitling them to practise in the same, and have been admitted as Licentiates of the Society.

Carter, Emest, 4, Reaconsfield Yillas, Brightom.
Crofton, Edward Regan, Cleheen Mouse, Carrick-on-Shannon,
Ducket, Charles Alexander, Great Yarmouth.
Fletcher, Frederick James, 13, St. John's Road, Dudley
Fox, IIrgh Clayton, Caddenhann, Needham Market, Suffolk
Haynes, Edmund Lyall, I. Lahsdowne Villa. Scarborough
Moward, Arthur Bertram Maèlagan. 42 , Orchard load, Kingston-on-Thames
Moss, Arthur James, H1, Royal Crescent, Whit by.
Sugden, Ifenrr Clapham, Broad Oak Park, Worsley.
The following gentlemen :passed the Surgical portion ${ }^{\circ}$ of the examination.
J: O. W. Barratt, of Viniversity College Hospital ; G. A. Gunton, of St. George's Hospifal; S. H.'Tughes, of St. Bartholomew's IIospital; W. J. Midelton. of St. Bartholomew's Hospital; H. H. Phipps, of University College Hospital ; F. H. Roberts, of hing's College Ifospital ; T. II. A. Valintine, of St. Bnrtholomow's Hospital; L. L. Verano, of St. Bartholomexv's Hospital; J. S. Wallon, of the Neweastle School of Medicine; 12 . E. Weigall, of the University of Melbourne: G. H. Whitaker, of St. Bartholomew's Hospital.
The following gentleman passed the Medical portion of the examination.
A. E. Read, of Thomas's Hospital.

Erratum. - In the pass list for the final examination of the Royal College of
Physicians of Ediuburgh, published in the Jobrnai, of February 4tb, Mr. J. Hoy, Ashly-dela-Zoneh, should hare been Mr. J. Hoyle.

## MEDICAL VACANCIES.

The following Vacancies are ànnouneed:
BRISTOL DISPENSARE.-Surgen. Applications by March Sth to E. Stock, Esq., 57 , Queen Square, Bristol.
BRITISH SEAMAN'S HOSPITAL, Cronstadt, St. Petersburg.-Resident Medical Officer. Salary, £l80 per annum, with furnished apartments, etc. Applications to H. Bell, Esq., H. M. Consul, St. Petersburg.
CANCER HOSPITAL, Brompton,-Registrar. Salary, £50 per annum, with board and residence. Applications by March 6th to the Secretary.
CENTHAL LONDON OPITTHALMIC HOSPITAL, Gry's Inn Roar, W.C.Two Assistant Surgeons. Applications by March 6 th to the Secretary.
CITY OF ABERDEEN.-Medical Officer of Health. Salary, '£300 per annum Applicatlons by March lith to W. Gordon, Esq., Town Clerk, Aberdeen.
CITY OF ST. ALBANS.-Medical Officer of Ifealth and Analyst. Salary, £65 per annum. Applications by Mareh ith to I. N. L Ldwards, Esq., Town Clerk, St. Albans.
CLOGHER UNION.-Medical Officer, Aughnaeloy Dispensary. Salary, £115 per anmum, and fees. Applicatlons to Honorary Secretary of Committee. Rlection on March M4th.
COTON HILL LUSATIC IIOSPITAL.-Assistant Medical Officer. Salary, £100 per annum, with board, etc. Applications by March joth to the Medjeal Superintendent.
DEWSBURY AND DISTRICT GENEIRAL INFIBMABY. - IIouseSurgeön Salary, eso, with board, eic. Applications by Mareb 6 th to the Chairman of the Iouse Committee.
EAST LONDON HOSIPITAL FOR CIHLDREN゙, Shadwell. F\%. - Resident Clinical Assistant. Board and lodging. Applications by March 22nd to the Secretary
LEICESTER INFIRMARY AND FEVER HOESE-Assistant Inuse-Surgeon. Salary, eio, wirb board, ete. Applleatious by March loth to the Secretary, 24, Friar Lane, Leicester.
LUDLOW UNION.-Medical Officer, Munslom District. Salary, fro per annum, and fees, Applications by March loth to W. J. Ifolyoake, Esq. Clerk, Poor-Law Office, Ludlow.
YOUNTMELLICK UNION, Coolrain Dispeneary.-.Melical Oficer, Salary £115 per annum, nud lees. Applications to Mr. l'. Kelly, Monorary Scere tary, Herryduff, Mountrath. Flection on March 5th.
OUGIITERAR UNION.-Medical Offeer, Onghterani Dispensary. Salary £113 per annum and fees. Applications to Mr. Robert Mons, Ilovorary Sec retary, Drumnakill Lodge. Flection on March 7 th.
OUGIITERARD UNION.-Medical Ofticer to the Workhouse, Infirmart, anit Fever Ilospital. Salary, £70 per anmuns. Applications to Mr. J. Gillmore, Clerk of Vnion. Election on Mareh $\overline{\text { th}}$.
OWFAN COLLEGR. Manchester.-Profersor of Obstetrics. Applications by March eoth to tho Registrar-
ST. MELEN'S FRIENDIY SOCIETIES' MEDICAL AID ASSOCLATION.Resident Medleal Offeer. Applicatlons by March 20th to Mr. H. Whittlo, Secretary, 85, Argyle Streot, St. Helen's, Lancashire,
GNIVERSITY OF GLASGOW.-Four Examiners in Medicine. Annual fee. Court, G. D. Applicatlons ly March sth to the Secretary of the Uulrersity

## MEDTCAL APPORNTMENTS

Aorlard. W. R., M.R.C.S., L.D.S., appointer Dental Surgeon to the Rojal Infirmary, Bristol.
Calyert, James, M.D.Lond.. 13.d., B.Sc., appointed Asslatant-Phraician to the Royal Ilospital for Uiseases of the Chest, City lhoad, wice J. J. Pringle, M, B., C. 3 I. Fdin., resigned.
Ciark, A.F.C., M.B., C.M., appointed Assistant Medical Offect to the District Asylum, Roxburgh.
IKARDWICK, F.S., M.D. C.M., appointer Medical Oflicer to the West Ashronl Linion, Second District.
Jores, F. W., Brandram, M.B., C.M., appointed Medical Officer to the Monmouth District of the Monmouth Union.
Macklyoy, Charles, M.B., OMtGlas., appointed Melical Officer to the Cirencester Union, rice C. P. ILooker, L.R.C.P., L. I.C.S.Edin., resigne.l.
Mimchell, Gerald, M.D.. appninted Medimal Officer to the Templemore Dis pensary District, vice Wm. Fennelly, L.R.C.P., deceased.
Russex. W., M.D., appointed Pathologist to the Royal Infirmary, Edinburgh.

Prize Essaf.-Prizes of the value of 1,500 pesctas ( $£ 60$ ) and 750 pesetas ( $£ 30$ ) respectively, are offered by the Royal Academy of Medicine and Surgery of Bareelona under the will of the late Dr. Francisco Garé y Boix, for the two best essays on the following subject: Pathogeny of Gonorrhoea (with illustrative preparations) ; its Clinical Features, with Special Reference to the Chronic Forms of the Disense, and to Reeurrence; the various Morbid Processes aecompanying and following it; its Prophylaxis and Treatment. In addition to the money prize, the title of Corresponding Fellon of the Academy will be conferred on each of the successful candidates. Essays, which minst be written very legibly either in Spanisl, French, or Italian, must be sent to the Perpetual Secretary of the Aeademy. Dr. Luis Suñé y Molist, Baños Niueves Yo. 9, Barcelona, before midday of June 30th, 1889. No essay must hear the name or address of the author, which must he sent separately in a sealed envelope, bearing a motto corresponding to one on the essay. The successful essays are to be the property of the authors, who will be at liberty to publish them, but without any correction, addition, or suppression.
Interhospital Football Matches. - In the penultimaet round (Association), the match St. Bartholomew's 2. St. Mary's mas decided on February 2Qnd. These clubs had previously plajed a dram, but St. Bartholomew's got together their best team and gained a deeisive rictory by five goals to one. In the penultimate round (Rugby), St. Thbmas's t. St. Bartholomerv's was postponed until Mlonday last on account of the frost. It was expeeted that the St. Thomas's formards would effectually prevent their opponents backs being dangerous, and the result was a victory for St. Thomas's by one goal, five tries, and four minors to mil. L'p to half-time only a try had been seored, but towards the end the game was one-sided. St. Mary's $v$, Middlesex (Holders) : L'nfortunately for the holders, they lost both their half backs abont half-time-one with fractured clavicle, and the other with a crushed malar bone. The game was fairly even, but the St. Mary's men held the scrimmage. The result was one goal, four tries and four minors to mil.

Is connection with the Royal visit which the Queen paid to the Royal National Hospital for Consumption, Ventnor. on February 11 th. Mer Majesty has beeu graciously pleased to forward eight engravings of herself and other members of the Roval Family: including one of the late Duke of Albauy, who was Iresident of the hospital at the time of his death. The Board of Alanagement have receivo ${ }^{2}$ a communication from the IIome Secretary stating that Her Majest ylas been graciously pleased to commani that the block of honses which was inspected hy the Queen shall be known hereafter by the titlo of "The Victoria Block", of the Royal National Hospital for Consumption.

Shinexis Ilospital, Gremintich--The report presented at the annual eourt of governors of the Seamen's Iospital, Greenwieh, stated that the institution lad exteuded its operations to Gravesend, for the benefit of the siek sailors arriving there, and that, during the last year, $-3=0$ patients had been treated in the wards at Greenwich. in addition to the treatment of out-patients. There was a lessoned income, owing to the falling in of annuities.
Paisiey Iffirmaty and Convalescest Ilome.-During 158., there were treated in Paisley lafirmary 1,200 patients, of whom 114 had died. It is satisfactory to observe that there has been an inerease in all items of income, and a previously fxisting deficieney on revenue account had been reduced from 2639 to £356.

GREENOCK inftrmary,-The report of this infirmary for 1887 shows the total number of eases treated during the yerar to be 924 , an increase of 61 on 1586 . Of these, 575 were admitted to the medical and surgical wards, 19 fewer than during the preceding year. A very lerge proportion of the eases consisted of accidents and other urgent cuses. The mortality was 8.8 per cent. To the fever hospital 34 had leeen admitted, an increase of 80 , and the mortality in this department was less by 2 per cent. than in 183. Searlet fever had prevailed during the whole year, and had been epidemic in September, October, and Novemher. No less than 20 children of 10 years of age and under had been admitted, of whom 7 died. The calls at the dispensary numbered 10,750.
Tue Metromolitas Astiras Board.-The returns presented at the meeting of the Metropolitan Asylums Board, held on Saturday last, stated that during the fortnight up to midnight on lobruary 23 rd, 239 patients were received inta the fever asylums, as against 260 in the previons fortnight; 33 died and 384 were discharged, leaving 1,507 cases under treatment, ineluding 1,358 of searlet fever. The number under treatment on Friday morning, Febrnary 24 hh, was 178 fewer than a fortnight before.
Inspection of Theatres.-The Bill for a reform of the present system of licensing and inspeeting of metropolitan theatres and music lalls, which bears the name of Mr. Dixon-IIartland, Mr. Woodhall, Mr. Lawson, and Sir Nhert Rollit, proposes to place these places of entertainment under the I Iome Seeretary, who will hare the power of appointing insjectors, whose duty it will be to make an annual inspection of the arrangements, and to report thereon. No lieence will be granted until the Ifome Secretary"s certificate is obtained. This is a step in the right direction.

The Poilution of the Thames. In the Queen's Bench the case of the Queen 2 , the Staines Local Board recently eame before the Conrt in the form of an indietment against the Local Board under the l'ublic Ilealth Act to recorer penalties for the pollution of the Thames by the influx of sewage. The Thames Conservancy were the prosecutors. The Staines Local Board agreed to a verdiet agranst them on the faets, with the riew of having the points of law involved discussed ou a future day.

Dhatil from a Footbatid Accident.-A man named Murphy has recently died in Bootle IIospital from injuries sustained at a football match. In the course of the game in which he was engaged Murphy received his opponent's elbow in his thront with such force as to burst the trachea. A tube was inserted, but the deceased never rallied.

A Stomatological. Society:-"Stomatology" appents to be the latest development of specialism. It has not yet spread to this country, so far as we are aware, but a Societs has, it is said, heen founded in l'aris which is to devote itself exclusively to the study of diseases of the mouth and its "annexes."
br. T. Laloner Brenton, li.ir.S., has been elected a member of the Athenxum Cluh by the Committee under Rule „, which empowers them to elect nine persons annually "of distinguished eminence in science, literature, or the arts, or for public services."
The, Parkes Musecm (Margaret Street, W.).-The following lonations to the funds of the muscum have just been reeeived: The Right Hon. Earl of Derby, £u5; the Leathersellers' Company £21: Mr. Robert J'ullar, £10 10 s. ; and also a donation from the officers of the Army Medical Staff, Netley.
West londor 1 Losirtal.-The Duke of Cambridge hes signified his intention to preside at the festival dinner in aid of the funds of the West London Ilospital, llammersmith Rond, on Tuesday. May lst, at the llôtel Métropale.

Fillitef of Antifebine in Eplemps:-Antifebrin has been tried in epilepsy by Dr. Bornsnyoc, of the ILermannstadt Asylum. Ile found (Therap. Monatshefte) that it had no cffect on the fits.

Irdfe Linios:-The Locnl (iavernment Board have sanctioned the appointment of Dr. liradley as medical oflicer to St. Mary's Dispensary.

Limprick Workhouse.-It appears that the hospital part of the workhouse is greatly overerowded: and a eommittee of the guardians has been appeinted to consider the matter.

Successfle Vaccination.-Dr. Charles, J. Jonea, Justiee of the Peace of Rhondda Valley; South Wales, has for the third time received the Government grant for efficient vaccination.

Mit. Eresest Sheaf, F.ll.C.S.Ed., M.R.C.'., of Toowoomba, has been appointed Justice of the Peace in the Colony of Queensland.

Tue next meeting of the American Medical Association will be held in Cincinnati iu May.

## MEETINGS OF SOCIETIES DURING THE NEXT WEEK.

## MONDAY.

Rofal Comisot of Surgeons of Enoland, 4 P.m. - Professor Charies Darrett Lockwood, F.R.C.S. : Lecture I. On the Development of the Organs of Circulation and llespiration, including the Pericardium, Diaphragm, aud Great Veius.
Medical Socikty of Lonvon-General meeting at 8 p.3s. Ballot. Ordinary meeting at 8.30: Dr. Ferrier and Mr. Victor Horsnary : A Case of Surcessful Treatment of a Cerebral Abseess in connection with Otitis Media. Dr. Ord: A Paper on Sorac Connection Relations of Gastric Vlcer. Dr. Broadbent: A Paper on the Prognostic Significance of the Blood Pressuro in Acute Renal Disease.
Odontological Society of Great Britain. - Casual communicatione hy Mr. David Hepburn and Mr. Boyd Wallis. Mr. Frederick Eve: Communication on Actino-Mycosis and some Microparasitic Affections of the Jaws and Mouth. Inangural Addrees py the President, Danlel Corbett, M.R.C.S.

## TUESDAT.

Royal College of Pirsictasig of Lonnon, 5 p.m.-Dr. W. J. Miekle: The Goulstonian Lectures : Leeture I. Insauity in Relation to Cardiac Disease and Phthisis.
Pathologicar Society of London, 8.30 P.M-Specimers.-Sir W. Mac Cormac: Epithera of Fidney associated with Calculus. Mr. B. Pitts Filious Careinoma of Breast. Mr. 1I. Fenwlck: Villous Papillomata and "Contact" Carcinoma of Bladder. Dr. N, Moore Two Cases of Reaal Disease. Mr. Siloock: Acute Necrosis. Mr. Clutton: Osteitis Deformans. Mr. Treves: Horny Tumour ir. Clutton Monse. Card Specimens.-Mr. Shattock: 1. Osseous an Neck is ater Goutr Disease, 2. Gouty Deposit in Bone. Mr. Treves: Tumour of Spermatic Cord. Mr. Mansell-Moullin: Syphilitic Crania.

## WEDNESDAY.

Rotal College of Stroeons of ExGland, 4 p.m.-Professor Charlea Barrete Lockwood, F.13.C.S.: Lecture II. On the Development of the Organs of Circuiation and Respiration, iucluding the Pericardium, Diaphragm, and Great Vcins.
Obstetrical Society of London, 8 p.m.-Specimens will be shown. Dr. Boxail: Scariatina during I'regnancy and the Puerperal State. Br. Champneys: Description of a New Operation for VesiceDr. Crine Fistula.
HOSPITAL FOR CONSCMPTION, Brompton, \& P.M.-Dr. Theodore Wiliams: Pathology and Modern Treatment of Bronchial Asthma.

THURESDAY。
Rofal College of Physicians of Lonnon, 5 p.m.-Dr. W. J. Mickle: The Goulstonian Lectures: Lecture II. Iusanity in llelation to Cardiac Diseaso and Phithisis.

Ibotal Cohlegf of Surgeons of Lis.: Lecture IIl. On the Development of the Organs of Circulation and Mespiration, including the Pericardinm, Diaphragm, and Great Veins.
Pericardim, Diaplaragm, Mr. Croft: Caso of Dislocation of
Clinical Society of Londox, 8.30 P.M-Mr. Crort: Caso of Disiocation of Seminds. Two Cases of Disiocation of Index Finger. Reducios Symmas and Dint and Dision of a Retaining Band niter by Opening hise Methods. Mr. G. R. Turner: Case of DislocaFaine of of the Metacarpo-Phalangeal Joint of the 1ion Backwards Restion of the lfeat of the Metacarpal Bone Thunb in whed. Mr. Bland Sutton: Case of Adenoma of the was practised. Mr. Case of Dry Mouth or Suppression of Pinna. Dr. Haddea: Case of
Salivary and Buccal Secretions.

## BIRTHS, MARRIAGES, AND DEATHS.

The charoe for inerting announcements of Births, Marriages, and Deaths is Ss. 6d. which should be forwarded in stamps with the annowncement.

MARTIAGE.
Bealfe-Barnay. - On February 2sth, at the Parish Church, Great Yarmouth, ho the Vicar, Thnmas Wm. Lewis Beries, 11.R.C.S. King., L.13.C.P.Lond,, hy the Vicar, Thnmas Clars Barn
larmonth.

## DEATIS.

3Jowses.-On Wednesday. Fehmary 2yth, 1888, at Meilmerstein, Rolton Board, Lasthourne, Ellen Mary (May), the only daughter of Dr. and Mrs. Downee, agerl two rears and seren montlis.
Merminan-On February 25th, at 42 , Kensington Square, John Whliam Conyers Merriman. L.R.C.P. and M.R.C.S.E.. in the अilh year of lis age chlest son of John J. Merriman, of Kenslagton.
Sanner.-February 2sth, at the Elms, Suthon Valeace, Kent, Wiliam Sankeyo M.1.St..lnd., M.18.C.S., and L.S.A., aged 72 .

TerRy,-Ou February 23nd, at Mells, Frome, Gcorge Temy, M.I.C.S., aged 68.

## OPERATION DAYS AT THE LONDON HOSPITALS.

MONDAY
10.30 A.M.: Royal London Ophthalmic.-1.30 P.M.: Guy's (Ophthalmic Department); and Koval Westmineter Ophthal-mic.-2 p.ar:: Metropolitan Free; Si. Mark's; Central London Ophthalmic; Royal Orthopadic; and Ifospital for Women.2.30 p.M. : Chelsea Hospital for Women.
A.M. St. Mary's (Ophthalmic Department). -10.30 A.M. Hoyal London Ophthalmic.-1.30 p.M.: Gny's; St. Bartholo mew's (Ophthalmic Department) ; St.Mary's, Moyal Westmin ter Ophthalnic.-2 p.M.: Westminster; St. Mark's ; Central London Ophthalmic. - $2.30 \mathrm{P} . \mathrm{M}_{1}$, West London; Cancer Hospital, Brompton.-4 p.s.: St. Thomas's (Ophthalmic Depsrtment). 10 A.M.: National Orthopredic.- 10.30 A.M. ; Royal London Ophthalmic.-1 P.M. : Middlesex.-1.30 P.M.St. Bartholomers's, St. Thomns's Royal Westminster Ophthalmic.-2 par. London; University College; Westminster; Great Northern London; Cnisersity College Othestminster; Great Nortien Free Hospital for Women and Children; St. Peter's. -3 to 4 Free Hospital for wo
P.M. : King's College.
i0.30 A.M.: Royal London Ophthalmic.-I P.M. : St. George's -l.30 P.M.: St. Bartholomew's (Ophthalmic Department) Guy's (Ophthalmic Department); Royal Westminster Ophthal-mic.-2 P.M.: Chsring Cross; London; Central London Ophthalmic; Hospital for Diseases of the Throat; Hospital for Womell.-2.30 f.3. : North-West London; Chelsea Hospital for Women.
9 A.s. : St. Mary's (Ophthalmic Department). -10.30 A.m. Royal Lendon Ophthalmic.-1.15 P.M.: St. George's (Ophthatmic Dcpartment., - 1.30 P.M. ; Guy's ; Roval Westminster Oph-thamic.-2 p.M.: King's College; St. Thomas's (Ophthalruic Departront); Central London Ophthalmic; Roval South London Ophthalric : East London Hospital for Children.2.30 P.M. : West $\lfloor$ andon.
.9 A.M.: Royal Free.- 10.30 A.M. : Royal London Ophthalmi :1 r.m. : King's College. -1.30 p.m. : St. Bartholomew's; St. Thomas's; 1foral West minster Ophthalmic.-2 p.m.: Charing Cross; London; Middlesex ; Royal Free; Central London Uphthalmic.- 2.30 P.m.: Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Charisg Cross.-Medical and Surgical, daily, 1; Obstetric, Tu. F., 1.30; Síin, M. Th. 1.30 ; Dental, MI. W. F. 9 .

Gur's-Medical and Surgical, daily, 1.30 ; Obstetric, MI. Tn. F, 1.30 ; Eye, M. Tu, Th. F., 1.30 ; Far, Tu. F., 12.30 ; Skin, Tı., 12.30 ; Dental, Tu. Th. F., 12. Kivg's Collegr.-Medical, daily, 2; Surgical, daily, 1.30; Obstetric, Tu. Th. S. 2: o.p., M. W. F., 12.30; Eye, M. Th.. 1: Ophthalmic Department, W., 1 Ear, Th., 2 ; Skin. Th. ; Throat, Th., 3 ; Dental. Tu. F., 10 .
Lornov.-Médical, daily, exc. S., 2 ; Surgical, daily, 1.30 and 2 ; Ohstetric. M. Th. 1.30;0.p. W.S., 1.30 - Eye, W.S., 9 ; Gar, S., 9.30 ; Skin, Th., 8 ; Dental. Tu., 9 Middlesex. - Medical and Surgical, dally, 1 : Obstetric, Tu. F., 1.30; o.p., W. S., 1.30 ; Eye, W. S., 8.30 ; Ear and Throat. Tu., 9 ; Skin, Tu., 4 ; Dental, daily, 9 . St. Bartiolometr's.-Medical and Surgical dailv, $1.30 ;$ Obstetric. Tu. Th. S., 2; o.p., W. S., 9 ; Eye, Tu. Th, S., 2.30 ; Ear, Tu.
2.30; Orthopadic, M., 2.30 ; Dental, Tus. F., 9.

St. George's.-Medical and Surgical, M. T. F. S., 1; Obstetric, Tu. S., 1; o.p Tu., 2; Eye, W. S. 2 ; Ear, Tu., 2; Skin, W., 2; Throat, Th., 2 ; Orthopædic,W., 2; Dental, Tu., S., 9, Th.. 1.
St. Mari's.-Medical and Surgical, daily, J.4ã; Obstetric, Tu. F., 1.45; o.p., M. Th., 1.30; Eye, Tu. F.S., 9; Ear, M. Th., 3 ; Throat, Tu. F., 1.30;Skin, M. Th 9.30; Electricinn. Tu. F., 2 ; Dental, W. S., 9.30 ; Consultations, M., 2.30 ; Operations, Tu., 1.30 ; Ophthalmic Operations, $\mathfrak{F}$.. 9 .
St. 'Tromas's.-Medical and Surgical, dsily, except Sat., 2; Obstetric, M. Th., 2 o.p.. W., 1.30: Eye, M. Th., 2; 0.p., daily, except Sat., 1.30 ; Ear. M., 12.30 Skin, W., 12.30 ; Throat, Tu. F., 1.30 ; Children, S., 12.30 ; Dental, Tu. F. 10. ITrifresity College. - Medical and Surgical, daily, 1 to 2 ; Obstetrics, M. Tu. Th., F., 1.30 ; Eye, MI. Tu. Th. F., 2 ; Ear, S., 1.30 ; Skin, W., 1.45, S. 9.15 Throat, Thi., 2.30 ; Dental, W., 10.30 .
Westmasster,-Medical and Surgical, daily, 1.30 : Obstetric Tu. F., 8: Eyc, M. Th., 2.30 ; Ear, M., 9 ; Skin, Th., 1; Dental, W., S., 9.15

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS.

Commevicitinvs respecting editorial matters shonld he addressed to the Editor, 439. Strint. W.C.. London; thase concerning husinpss matters. non-delivery of the Jor'RYAt, etc., should be addressed to the Manager, at the Office. 120. otmand, W.C., London.
Is onder to avoid delay, it is particularly requested that all letters on the editorial business of the Joursar, be addressed to the Editorat the office of the Jouryal, bud not to his private house.
Autnons desiring reprints of their articles publisher in the Britisir Mrnicar Jourvar, are requested to communicate belorehaud with the Manager, 429 Strand, W.C
Corresponnents who wish notlce to be taken of their communications, shonld Suthenticate them with their names-of course not necessarily for publication. Conrespespants not answered are requested to look to the Notices to Correspondents of the following week.
MINUSCRIPTS FORT ARDEA TO THE OFFICE OF THIS JOVRYAL CANMOT vNDER AKK CRACUMSTANCES BE RETURNED
Publio Healta Depirigest. - We shsll be much obliged to Medical Officers us with Deplimite Copies.

## QUERIEA.

T. E. L. L. writes: In the Jourval of Fcbruary 18th Dr. J. P. Menry descrition a case of "quintan" ague. It would be interesting to know if tha patleus's blood was ever examined for filarim sanguinis hominis, as the febrilo at tack occasionally occurring in persons who have flarix in their blood somewliat resemble ague with a long interral.

## SEA-SICEMEs

M.R.C.S. would he glad to have the practical experiences of avy member as to the value of antipyrin as a cure for sea-sickness.

Podophyllis.
M.D. writes: Will any of your readers who are in the habit of oblng resina podophylli kiodly answer the following question: Is porlophyllin in solution as effectual as a purgative or cholagogue as the same dose given in the colin form to the same patient? I say the same patient because this drug varies in its effect in different cases.

## Olly Diarrigea.

Deputi Surgeon-General writes: A healthy-looking lad, aged 10 years, hos suffered for the last five years from discharge of oil from the bowels: the discharge is most frequently at night, and involuatary-occurs during sleep; the discharge is not constant, nor is it of the same amount always, nenal qual: tity about one drachm and a half when most severe. Ordinarily it is suff cient to stain his clothes or sheets: He is uright, intelligent, and very actire except when the discharge is greatest, when he is dull and looks depressed His motions are very offensive, never natural in colour or consistence, whitiel and clay- or chalk-líke. He does not suffer apparently from disease of liver. spleen, or pancreas, except so far as the oils discharge points to dicease of the latter. Ile has had iron and lismuth. Parribh's chemical food, and attenition to diet ; but, althongh with benefit, not with euch marked improvement as in encourage a continuance of the treatment. Any indigestible food increasm the disorder. Appetite is very good, often too much. The lad had cholera in Iodia about eight $y$ cars ago, but this complaiot did not show itself until some three years afterwards. Suggestions regarding th]s case are requested.

## ANSWERS.

B.-The publication of the addresses of medical officers on the lllustrated adrertisement of the Chelsea Hospital for Women is not in accordance with professional rule.
Dr. Jorm Vight.-les
Idiostxcrast to Qcingez.
D. L. R. writes : In reply to "H. G. H., I may state that I know of two cases in which quinine produced exactly the smmptoms mentioned. One was a lady I attended for malarial fyntptoms during a royage from Iodis, in whem it produced redness of all the skin and inteuse ltching. The other is in ms self. Frer since taking an overdose same years ago I cannot take eren small dose without lts prodncing redness and great jtching of all the heds accompanied by diarrhoea. Arsenic did not prevent the symptoms in eithi $r$ case.

## NOTES, IETTERE, ETC

## Metropnlitay Protident Dispensaries,

Dr. Richard Paramorf (2, Gordon Square, W.C.) writes: Your correspondent IIr. Rentoul sars: "It is well known that a club doctor's life is a broker: hearted life, inll of worries and insults." The provident dispensary is an extension of the club system. Yet Dr. Rentoul hopes that the provident swateri will be given a trial in London. It has been eried, and it has been found defective. Its warmest advocates admit that it is merely a tentative mensure There never has been belore the profession a more absurd and mischiernns attempt to improve medical olatters than the establishment of provident dispensaries. In endearouring to relieve the congested state of the out-patien: department of hospitals, the interests of the great. mass of the prolession have heen jeopardised, and all that makes life worth having, namely, lappiness, in danger of heing sacrificed.
I challenge ancone to show any difference between the clubsystem, which Dr. Rentoul holds up to contempt, and the provident di*pensary, for which he has an affection. Snrely love is blind: When the cont roversy was raging on the Metropolitan Provident Medical Association in 1881. Mr. Timoth: Holmes said he was proud of his counection with the movement, and extollei the Leicester Provident Dispensary, which, accordlng to the Reicester Joumal of January 15th. 1885, has exemplified its inferiority to ordinary club practice by giving quassia in a decomposed state, metlyytited spirits to make the the tures, and the price of one hundred bottlea of medicine being the same as one bottle:
I ventured to write a letter. which was published in the Lancet, In answer to Xr. Timothy IIolmes, in which I snid: ". Contract work is notoriously had. especially when the greatest amount has to he done for the least remunemtion. Club practice is degrading and is a lopphole for dishoncsty, and it is rare for a clinb patient to receise the same amount of attention and quality ot medicine that ordinary jeftate patimita dotain, and yet this risren*ary seliema is merely an aniplif uide ef the rluh grstmm-with this important dit fereyme that in clubsath! fritendy ancieties none but casididates of a certain gen and in good health call he admittel.
it is sad to ste men of intelligence leuding themselves in bolster uph a ystem which has nothing 1 o reeommond it bescmi pandering to those mean. fialtry, niggardly, and contumptible persoms who sladty avail themselves of heap dortoring. especially when ther read, in one of the handbills extensuely circulated by the Metmpolitan Trovident Medical Assnciation - Families may ioin and insure against. the risk of heary doctors' thlls, often difficult to pay.
The stamp of reapectability has been endeavoured to he put on that touting which has hitherto been looked uron as disrcputable. What may he forgiven under extenuating circumstances in a youmg, needy, and struggling practimor is unpurdonable in a company of medical men who are firmiy scated ioner is unpardonable ins pursuit
The following are some of the objections to the scheme of the Metropolitan Frovident Medical Association : 1. That it is destructive to the interesis and wealfare of the members of the mealical profession. Whase peace of nind to
 colours by afferiog indelmesulence，no chnrit fy，nelf－aupport，self－mmangemant． cholon of a doctor to thone who nill join ft，aint by kaying perry mrdical ninn cholon of a doctor to thene who noflifin the allspensary．3．That it．Is injurious
 to the puhlle by ereat Ing diat rumt and want of colitidereo in the medical pro－ feesion，and encouraging mmalical men to acamp thelr work hy underpaying
them．t．That if fostesa meanuess，trichery，Iring．and deceptinn on the part them．d．That it tostera meaniless，t rickerf，fing，and decp pitan on the pare 5．That it eondones and encourages tmurl by ott aining for an unlimited time whas ought to lie valuable maviles unter the pretence of payment which amounta to next to nothlag，so that each meruber reso get＂ou demand＂and amountato sotter of right＂＂the sort of lreatment．that the family dortor gives to －rich men．＂6．That it is fotiridel on the club system，whirh has cont lumed
 to exlat through gre⿻一⿻口⿰丨丨女一𧘇 on the me hand and lmpecuntonit
decranle the nserlezl protesalon and to deninmilme＇the miblic． movement has been trled，it lias deme more harm than good．Firidernce is mot wantIng to prove that ita lut ronlwetion los harasaed and unifermined tho pro－ fesson．＂The happiness of the many is sserlticed lay the more then douht fut twont of the few．We lave alrealy tan many medical monnpolles，snd qalte mongh to conitend against．wlthmut the minnomeres nt pmovident dispencirie： ir any great wlonecale plan of trmating diaense．If there were a scarcity of medial men and a deartli of madical relief there would be some exeuse fir meriral mal．wanton，and uewtess exumiment on the llyes of suffering bumanlty in the fiom of provident diapensarles．I know it lassome npholders；so has every wrong that has disgraced the world！

## Frivtral Nfpmbectomy for MyDRonephrosis．

Mr．K．II．A．Hinter（Batterspa）writes：In reply to the letter of Mr．Clement Lucas，I can onter repeat what I stated In my last communication that as in my oplalon each case of hrdronephrosis requires to be trented on its own merits it is a waste of time to contioue this controversy．As Mr．Lucas did mot sen the case，I maintain he is not in a position to judge as to whet her the not see the rase， treatmentadopted by me was right or wrong．My nwn impression，sa well as those who were with me，regirding the rase is that I neted rightly，sin much so that shoukl a similar case fall Into my bands I would freat it in the anme manner，with the addition of the drainage－tube，when I would isve hut little fear as to the result．Such operations I am enafident do not depend so much upon thetr magnit ude as the manner in which they are performet．

## Intprator of the Uterts

Dr．Mark Sharman（Leicester）writes：Shortly after 12 A．m．on February 16th 1 was called to the assintance of a mldwife．On arriving．I found the patient． aged 40，pulselesa，collapsed，and dying．I gnve iwo fypodermic injections of ether，and ralsed the foot of the hed．There had beea considerahie hemor－ lage，but not sufficlent to rccount for her conditlon．On examination，the uterus was found completely inverted，protruding bevond the external geni－ uterus was found completely inverted，procenta belng firmly adherent nser the fundun．I replared the organ and rearoved the placenta．The patient dicd within five minutes of my arrival．The midwle said：＂The child was de－ Whan five minutes of my arriva．＂，The minnationg to the uterus and placenta－ thered allve without dificulty，and＂－Doint ing to minutes afterwarda．＂on course I was mable to verift my ＂this came ten minutes afterwarda．＂of course I was mathe to poresture applied to auspicion that the
the fundus uterl．
I may add that the woman bad been in a very destitute state during this wintar，probably rausing a relaxed state of her şgtem．There was no history of anr appreclable difficulty in her former labours．

## Britisq Qualtficatinss

UR．G．II．PivDF：（Mancheater）Writes：J was saked the nther day tn sign a certificate for a patient who is n member of the Railway Guarủa＇Eniversa Friendly Societ tr．Aa I ans noly a College and IFall man，hawng hepn nntor－ tunata a nough to be an English atudent．I was unable to do so．Rule 34 of this soclety blates：＂In all caacs thls certificate must be signed hy mi M．D． And atteoilon la aperislly cralled to the letters M．D．Which in the cert ithente are underlinel．Thus，is man with the quallifation of F．Jt．C．S．Eng，ant M．R．C．P．Lond，would be unahle to alga thla curticnate，wheress oue holding thst of one of the numwroin Seotch unlversities could seitle the matter at once－
If Scotch degrea were thrown open to Finglish students as Jinglish qualif catlonsarcto Scutch．We Englishmen ahould not have so much reason for
 heen＂Scotch M．D．；and，us a rute，to have heen a Manchester me，If a Scotels

 qualifications，from the M．D．Filin．to the Llecnitate of the refage for the hif wsy North，and，to the surprise of him fallowentudents，has renppeared as ＂Dr．Smith，＂or＂John Joner，Ihyyaliana and Surgeon．
Eiverythlag Finglah now semm unler a cloud，and untll we get a gooi aound Britsh qualification，which every man practiaing in Great Britalit ought ta be compellell to posasea，the only consolation which mast．of us Col ought a be compellent fo prasmas，the analen of knowing that＂Mr，Sirand So，Surgeone＂pract leally meana＂Jongliah atuelput，Lontun gualificallon


Mk．W．Steart Low，30n，Waterloo Road，S．Fi．，writes：For iwo or threa werek past an mucrtisement has been laserted In the Jourarab atating the ifestre of a number of mexlleal men to get up a rourse of post－grabluitm leeturme on skin dineates．Aa we havenot yet got a mufficiently large．nimiser of namen to form an goorl clana， 8 ml as wo know that thla is a course that in muel wapertuit of opportunity of joinin
tleaire and fintention．

## COMMUSICATIONS，LETTERS，ete．，have heen recelvel from

Sir C．A．W．Somme，Dawles ；Mr．J．Buhting．Torquay ；W．If．Newnham， M．B．，Mriatol ；Mr．W．Marker，Bath：Ir．J．A．Mrtle，Harmgate：Mr．J． T，Rnterts，Rhondda Vnlley：W．G．Owen，M．B．，Carnarvon：Mr．T．S Lacer，Roftno：J．Ielteh，M．B．，Sillnth：Menars．F Walters and Co．，Lon
dem：Our Mancheater Comenomdent；Mr．W．V．Solnmon，Birmiughams Magigoff，Londen：Dr．W．Alexnniler，Streatham；Mr．J．Fi．Burton，Liver－ pool：Mr．G．Hendle，London；Mr．J，T．Clounton，Filuburgh；Dr．P． Tytior，Manchester：Dr．A．Kempe，lixeter；Dr．R．Wmin Sirage，Jonion ： Mr．C．Palmer，Burton－on－Trent ：Mr．W．M．Maling，Sunderland；Dr．A． Hianome．Howdon：Dr．Fi．Mapother，Duhiln；Dr．Tatham＇，Salford；Mr．J． C．Culling．Colchester；Mr．W．II．Whatson，Cinan：Dr．W＇．G．Filmsou， Fixeter ：Dr．J．S．Shaw，Cufton ；The Honorary Secretary of the Mnmpoten Club，Lonilon ；Proipsor George Huchanan，Glasgow：Nr．J．J．Idenon， Colne：F．J．Wethered，M．B．，London；Mr．H．F．C．Eagle，London；Mr． R．N．Day，Harlow ；Messrs，Wm．Biwards aud Son．Barnsley；Dr．C．Orton， Neweastle，Staffs．；Mr．R．W．Dillon，London：Mr．I．Forbes，Bdinburgh； The Secretary of the Natinnal Sea Flsheries I＇rotection Assoriallon，Londme Mr．W．Smith，London；Dr．Mackay，Inverness ；Dr．WF．M．Walton，South Petherten；Mesars．C．Green and Co．，London；Dr，Lohis Parkes，London： Mr．13．R．Weir，Lomlon：Dr．Rayner，London；Dr．T．W．Jline，Bradford Mr．Lawson Tait，Birmingham ：Mr．T．Il．Humphreys，Londou：Mr．J．Gih－ ant，Bromley ；Dr．T．Churton，Leeda；D．L．Nitchie，M．B．，Ssltburn；Dr Park，Clasgow ；Mr．Blanil Suttou，London；Dr．W．M．Camphell，Llverjool Dr，G．W．Jithards，Old Swinford；Dr．Bristowe，London ；Surgenn－Major R．N．Marphersoll，Rnwal I＇indi；Mr．R．Mosse，London；Dr．Grant Bey Cairo；Mr．S．Pattey，IParls ：Mr．W．P．Morgao，Seaforl ；Mr．W．Donovan Birmingham；Mr．Jß．II．A．Hunter，Londou；Mr．W．W．Pike．Curragh Camp：Mr．W．Brown，Salford；Mr．S．W．Foater，Chester；Mr．P．It Harvey．St．Leonard＇son－Sea；Brigade－Surgeon F．It．Wilsnn，M．B．，Perth Mr．H．A．Lawton，Poole；Mr．Butler，Reading：Mr．H．E．Mathews， Levenshulme；Dr．Msurice Parry Jones，Alfreton；Deputy Surgeon－Gene ral Gardiner．Newton Abbot：Mr．G．II．Warren Thomas，Teignmouth；Dr R．Paramore．London：Mr．I．S．Rnbertson，Shirley；Mr．W．O．Barré， Nossley，Manchester；Mr．Gr．Quarrie，Birmingham；The Secretary of the Parkes Musemm，London；Dr．Illingworth，Clarton－le－Moars；Sir William Stokes，liublin；Mr．F．B．Barnes，London：Iferr G．Fiacher，Jena；Dr．I． G．Uma，Hamburg；Dr．A．Emryg－Jones．Manchester；Dr．Maxwell，Wool－ wich；Messrs．Pratt and Co．，London；Mr．A．Salter．Thursilay Ialnud． Queensland；Dr．J．B．Okell，Leicester：Dr．M．Coates，Streatham；Messrs． Savory and Monre，London；Miss Morris，llereford：The Military Secrefary． India Office，Londnn：Mr．F．W．E．Kinneir，Horsham：Mr．A．II．Benson， Dublin；Medical Staff：Mr．Arthur Cooper．London；Mr．R．H．Coall， Loughborough：Dr．Crossman，Hambrook；Messrs．T．Christy，Loudon： Mr．Adams Frost，Londou ：Mr．C．Moxhata，Strond ；Dr．Mickle，Loudon： Mr．J．W．Hayward，Whitstable；Mr．J．Dicksm，Dorking：Dr．Hewitt， Kersal ；Dr．E．Drummond，Rome；Dr．E．Liveing．London；The Seoretary of the National Hospital for Consumption，Ventnor：Surgenn－Majar C． Churchill，Colchester；Messrs．Street and Co．London；The Board of Mau－ agement，Chelsea Hospital for Women；Mr．J．B．Gate，Morriston；Mears． Ledger，Smith，and Co．，London；Mr．Shirley Marphy，London；Mr．Watam Cheyne，London；Mr．C．S．Kilner，Bury St．Edmunde；Mr．R．Browne， King＇s Lyma；Dr．Symes Thompon，London，etc．

## BOOKS，ETC．RECEIVED．

A Practical Treatise on Direnees of the Skin．By J．V．Shomaker，A．M．，M．ll Yew York：D．Applaton and Co． 1888.
Birkenhend Literary and Scientific Soclet5．Session 31， 1887 and $1848 . \quad$ En－ gravers and Fugraving．By Frameia Vacher，I＇resident

SCALE OF CHARGES FOR ADVERTISEMENTS IN THE BRITISH MEDICAL JOURNAL．＇

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# THE GOULSTONIAN LECTURES INSANITY IN RELATION TO CARDIAC AND AORTIC DISEASE AND PHTHISIS. 

Uclivered before the Royal College of Physicians of London. By Wm. JULIUS MICKLE, M.D., F.R.C.P.Lond., Medieal Superntendent, Grove IIall Asylum.

## Lecture I.

Whex deeply but unexpectedly honoured by the invitation to deliver the Goulstonian Lectures at the Royal College of Physicians, and the choice of a subject became necessary, my mind turned, in the first place, to the therapenties of insanity. Ascertaining, through the courtesy of Sir II. Pitman, that it was neither usual nor deemed to be desirable that therapentics should occupy the Goulstonian lecturer, I next turned to the pathology of insanity. llaving recently written on the pathology of general paralysis, the most interesting, and a rery frequent form of mental disease, I could not well deal with the pathology of insanity, except in its general aspects. This course seemed to be undesirable, unless in conjunction with the exposition of a new and more scientific classification of insanity, an ambitious task to which I did not feel adequate, and for the successful accomplishment of which, indeed, the time is not yet ripe. Therefore the subject selected was one of more common medical interest. In general terms, these lectures coustitute an attempt to assist, however slightly, in the work of bridging over the chasm which unhappily has separated, nore than is nocessary, the study of mental disease from that of the general borly of medical science, and the treatment of insanity from that of other forms of disease; and, in particular terms, they constitute an attempt to clear up the existing obscurity on some important relations of mental disease, to more accurately end definitely subdivide and arrange the phenomena concerned, and in accordance with the teaching of $m y$ clinical and pathological studies.
In the relations of insanity to visceral affections one is dealing with a subject which should interest other medical men as much as mental specialists; a subject which lies in the "s horder-land," which blends mental with general medicine, which at least, in some of its phases, may be equally studied by tho family or consulting practitioner, and by the one engaged in the care of the insanc, which, in other of its phases, can scarcely be studied adequately by either alone.
Intending to deal in a general way with tho subject of risccral affections in the insane, I analysed the clinical and necroscopic records relating to all the viscera in nearly 250 eases. constituting slightly more than half of my necropsies at disposal, but found that persistence iu that intention and work would reduce these lectures to a dry statistical record; and, in the erent, it was found impossible to ro more than deal-and even that inade-quately-with some of the forms of heart disease, aortic disease, and pulmonary phthisis, in certain of their relations to insanity, Yet, over those of most others, my cases possess the adrantage that the clinical and pathological material come from the very same cases, the clinical phenomena being noted and the nceropsics made ly the same observer.

General considerations, us to risceral affections producing or modifying insanity.

Our emotions are closely bound up with our systemic conditions, and there was some degree of truth in Bichat's ${ }^{2}$ notion that in the organic processes are located the emotions and passions; hut upor this general aspect of the subject-upon the broad question of visceral states affecting mental-I need not dilate, and the less so as it las been eloquently set forth by Dr. Maudsler ${ }^{2}$ in his Goulstonian lectures some years ago. His argument I need not reproduce; but let me, at a stroke, place the matter before you by

[^42]a citation or two. "The internal organs"are plainly not the agents of their special functions only, but by reason of the intimate consent or sympathy of functions, they are cssential constitucnts of our montal life." Igain, "mind.....sums up and comprehends the bodily life." Vow, if this be so, "the question arises whether cach of the internal organs has not also a special effect, giving rise to particular feelings with their sympathetic ideas." Comparatively slender has been the clinical and pathological evidence hitherto brouglat forward in support of that thesis, and for decision of the questions involred. To add to that evidence will be one of the endeavours in what I subscquently place before you.
Issantty in Relation to Diseasé of the Meart and dorta: The Cerebral Circelation.
Before turning to the special groups of cases, let us glance at some gencral aspects of the subject.
That so little is known of the influence of heart affections on insanity or its production, so little of the influence of insanity upon the heart, so little, in a word, of the play of mutual action and reaction between the heart and the cerebral (psychic) processes and their results, is surprising when we consider how easily and obviously the heart is affected by every emotion, and how dissimilar upon the heart and circulation are the effects of each.

Moreover, in reference to some of the factors yet to be namedthe factors of insanity in heart disease-it has been denied that any marked changes of repletion or depletion can take place in the state of the cerebral circnlation; it has been denied that actire lyperemia or anemia of the brain can occur; or tlat, if it occurs, congestion of the brain can produce any decided cerebral symptom, or eren any noteworthy intluence on the tone or activity of the mental operations. Thus we know how vigoronsly the theory of cerebral congestion as the alleged hasis of several forms of brain symptoms was attacked by the late Dr. Moxon ${ }^{3}$ in his Croonian lectures before this College, and low, he attempted to show that the symptoms, so-called, of cerebral congestion came neither from visibly forcible arterial action, nor from visibly great venous congestion of the ressels of the head.

Obriously, with questions ut once springing an as to the relation of cardiac disease to the nutrition of the brain, through the cerebral circulation, it will save much repetition and refercnec, later on, if at the rery outset the salient conditions of the intrucranial circulation are bronght under view.
In proceeding to examine the conditious of the intra-eramial circulation, one meets the grarest discrepancies as to the most elementary facts. For example, while Maller ${ }^{4}$ alleged that one ${ }^{3}$ fifth of the whole mass of blood in healthy man constitutes the supply to the encephalon, and while Spehis found in the rabhit in the raking state one-eighth to be the amount of hlood coritained in the head at a giren moment relatively to the total bulk of blood in the system, yet we find it stated in Foster's Physiology ${ }^{6}$ that in the rablit only about one per cent. of the total blood is at any onc time in the brain, and that the bood suply to the human brain must be small. Making somie allowance for the difference between the amount of hood in the rabbit's head at a given moment, and that in its brain only, there is still an enormons discrepancy between the estimate of 1 ver cent. in the rabbit's brain, and the estimate of $12 \frac{1}{2}$ per cent. in its liead, which latter share indeed, for the rabbit, does not offer uny incongrnity with the IFallerian estimate of one-fifth of the total"hnod as the supply for the relatively more developel, more preponderant, and more active human encephalon.

Leaving this subject of the share of the total blood contained in the cranium, we pass to the question whether, so long as the brain remains the same in size, the amount of blood within the craniman is, or is not, i fixed and definite quantity, an inrarialle amount. That, muder all circumstances, it is an unchancing amount appeared to be evident from the theoretical considerntions that the skull is a closed curity,' a complete sphere, the total mulk' of whose contents, remorel from the more usual conditions as to atmospheric pressure, must at all times be the same, and loss of the fluid portion of thcse be prevented, and therefore that, so long as the brain is ncither shrunken, nor compressed, nor enlarged, the amount of intra-cranial blood must remain the same. Experiments by Kellie appeared to gire reinforcement to this view, experiments widely accepted, and of which the reported

[^43]risults wrey that, on hlectiug athimals to death (their skull int act)? the 'isuul ampunt of hroet was fonnel, post mortem, in the cranumu, und in strong contrast with the exsanguino state of the rest of the frame.
It is umecessary here to refor in detail! to the numerons experiments and ghorvitions which, since the'n, have clearly shown that physiological changen oceur in the hrain circulation, and that the umount of houd in the risibte garts of its ueninges, or, runking exit from its sinnses varies constantly, uud in an wery considerable mensure : of 'these ohservations Ined puly zoention that on the rastly different states of the circulation of the brain, and the amomut of its arterial suphly, in the waking as compured with the slepining state.
But still the skull has remained to some extent, a clofed cavity, aml there still existed an necessitr, for un unchanging amount of its total content.s, and still has there heen a disinclimation to admit the existence of quautitative pathological changer in the circulation, that is to say, of amounts of binod not within the limits of physiological.Anctiation, but springing wide thetefrom on the line either of deficiency or of excess.
In this relation much has been made of the pecnliarities of the intra-craniul circulation, and of the provisions for placing checks nh excess, of grave deficiency, in the anount of blood supplied to the irmin; and mnch has been made, also, of any great clange in the blool-pressure on the walls of its ressels, and of the impossibility of any change whateser in these, except through the medlium of the hlood-vessels entering or leaving the skull, or through the meethun of the cerelorospinal fluid. 'These same checks, also, are concerned in the mechanism, preventive of ift result from alteration in the pressure in the brain, whet her froms changes in at mospheric pressurc. or in posture of the body, or in tha force and activity of the bood circulation. So, also, ure thes intimately connected with the structurnl arrangenients whereby the ercet posture of man is made possible, and whereby the blood supply is kept up, aud kept nís surichly, too, at the iofty elovation of the brain.
The checks on over-active conl rance of hood to the cranium, and on too great a blood-pressure in the vessels of the brain, are, chicfly, that the carlio-inhibitory centre in the metulla oblongata is stimulated, that the heart in this way is slowed, and thus the incoming overflow of blood is nutomatienlly stayed, and the balance of local circilation maintained. Horeover, that an increased supply of blood is stimulating in the brain is shown hy experiments, for example, those of Lépine, ${ }^{7}$ in which stimulation of the anterior part of the cercbirum (of dogs) inflnences the heartbeats, aud in so doing operates through the vagus, for on dividing ont vagus no change followed stimulation of the opposite side of the brain, whervas stimulation of the sume side of it lessoned the frequency of heart uni julye. And, as Dr. Moxon pointed out. in man there is a supplemental contrivanco whereby, when hood is streaming too frenly, and under ton screre pressure, into the hrain, the finger-like vascular process, the cornu of the choroid plexps of the fourth ventricle, compoed of thick tufts of blood-vessels, lodged in the lateral offet of the ventricle, and swollen by the incoming tide of hlood, promptly presses ou the adjoining and tense nerveroots of the, vagus, retarding the action of the heart, and thins shutting off the overphys of blood whichis would otherwisc continue to arrive within the cranium. That these plexures are so promptly swollen liy the extra iurush of hood is due to the fact that they receive their arteries directly from tho great vessels immediately tho latter enter the skull; lenco they swell up, aud promptly press on the pacumogastric nerre rools.
Another way in which a check is placed upon too great an hutlux of hoot is connected with the fact that a change of pressure in or on the brain is ncenssitatel by crepy change in the intra-cranin? circulation. Whea, in active states of molecular moverient guid function on the part of the brain, there is more, ratid hifootmovement and increased , intra-capilary pressuro, the swelling of the hrain in volume is checked, not inerely by'lhe nuyieldiug walls of the cranial yault, but also by conpression of the piat voins. Associated, as shown hy Br. Cappice with increased tensiom in the brain itsolf, with increased tension to which all the cranial contents are snbjectech, this compression of the veins plue it a brake ont the overactivity of circulation, and tends to bring it to a stop. Hlaced between the onward yriving forces of the heart, arteries, and rapittarimston the no hand; and, on the onther, the locking or backward driving force of atmosplerie pmasure on the
 suljgeten with wers expantion of the lirain the jitessure ont the side of their waths, lessening and tending to obliturate their lumen, the reins of the main-tueninges nceupy a postion pexpyed to
 examphe (taking arihlustration oonverse of the pectaching) if influx of thond fails, the forest preventing ethuxare enhaticed, arut of these the chirf has now bed hide the atmosphuric pressure, the suction action of the sinking byin ou the blout in veins and simuses tenting to fill them, mid thas to bring hbot hi venans falmess compressive of the dratiasurface.
ly experiment, Grabliyy alsoshowed that, umber certain circumstances, ani increase of the arterial hoot-pressure retards the circulation in the skull; that, inasmuch as the hoot-pres are in the train-cupillaries is greater than in the large cevelral veins, with increde of the lorain ruessure commes conifiression of the large ceribral veins rather than of thio capillarive, us also a cliokiity and retarelation of the blood strama. Another provision ifor redief of
 tive" circulation of the head, a side chamel, so tospent, wherehy some relief is afforded when the intra-craiual circulation is enibarrassed and sore pressed.
Onthe ither hand, the automatic mechanisms for checking theerit of hlood from the brain aro clietly the arrangement of the certbral and meningend reins, which anerer accompany their artorics. uscent against fine force of gravitation to the summit of the brain, pass forward; many of them, and enter the superior longihidinal kinus against the backward flowing stream, this opmsition of currents in the simsesand in the reins tenting sitrongty to retard the wmons How, ant make the venous side of the initra-craninl circulation leisurely, or even stagnant; and. in fact. the beort appears to issme from the sinuses only under presure in the rems: While, if in active and strong, states of the circulation the luck hecome's tor Etringent here, relief is afforded by escape of Thlowd -through the inferior longitudimal and straightit sinnses at the hase of the braing and out of the why of the lock jnsf mentioned (Atoxen). Of atmospheric pressure we have alrealy spoken.

Moreoyer, the choroid plexuses soak up as it were, and account for, much of the incoming blood for the time, thus assisting in uno ther way in giving easenent. Andindoing this they displace portions of the cerchro-spinal Huid, forcing it down from the rentricles of the Irain to the subariehibid space of the spinal cort; this upward and downward flow of the corebro-spinal fluid, according to some', jlaying an important part in making chan\%es possible in the hlood supply to the brain. For a.discussim of the gitomatic chicks on great changes of the intracranial circulation involves a consideration of the mechanisms wherely variation of the hometsupply is permittef in health. Some hold that this is chicfly effected hy the upivard had inwnyard pay of the cerehro-y inal flaiki, and by the changes of high nind low tide in the hampht chathels and lymph spares of the brain, especially those that are sumdenentitial and those that are jerivascular. When the brain is active, when the incoming tide of blood at tracted to it swetl. it up and it expinds, the hypothesis has ben that room is mide for the diating vessels and for the larger amount of att rial blond they contain (and contain wider incrased pressure, perhups), hy the athorytion of the lumph circulating in the timer passagus, ami porteplidar', perivascenar, and 'subatyentitial' lymph spaces. in proportion as the bood-westls hathel in it difnte; and that the chmond plexnses press the cerehro-spinal flumft ont nf the ven-
tricular spaces of the Nerertheless. it is not altogether elear to my mant why the spinhll kord should hedremed to te propared in receive wiilhout embirassment or disorder two or three or mire ounces if cherefirh-spimil' fluid nor and niove the ustinl guantity, and at a moment's notice, on the belest of the train's those whig icll he all
 have not providel for this cxigenes, ne explainem hot the spimal therd ndapte itself; mithont mereath, to the ahterel circumstances; they have not pointed to any mechanism in the cort wherely, in a moment, it may red it self if the inumation, Perhaps thi latis and soft-wallot reins of the meninges of the werthat of the
 circnlation' is" "ftremply active, thint of the corll is less so"; for when the amount of hooll sent to the brain is increased during intellectual activity, the amonut going to the arm is lessencent, ns intellectual activity, we amplat for, during inteflectual activity.
whilst the volume of the brain increased, Mosso ${ }^{10}$ found diminished calibre of the arteries to the forearm, together with a more frequent, smaller, pulse in them, and now catacrotic instead of anacrotic, as it had ben; a change not due to respiratory influences. During mental attention and activity E. Gley ${ }^{11}$ foum the number of heart-beats increased, and the carotid artery and its pulse becoming dicrotic, whilst a contrary state of the radial pulse existed; effects attributed to rasomotor influence. Thus it may be that if the cerebro-spinal fluid is forced from brain to cord, the concomitant conditions of lessened blood-supply to the cord enable the vertebral canal to accommodate the increased amount of cerebro-spinal fluid by an automatic arrangement. But be this as it may, there are two lines of discrepant view on the subject: the importance of the cerebro-spinal fluid, or its operation as above described in providing for easement and for considerable variations of the cerebral circulation, having been npheld by Majeudie, Burrows, Carpenter, Hilton, Moxon and others: whilst, on the other hand, this importance and operation of the cerebro-spinal fuid have been called in question (amongst athers) by Prof. Foster, Dr. Cappie, and M. Franck. Some of these affirm that changes of the brain circulation are provided for by the venous sinuses of the skull; that these form reservoirs of the blood-temporary reservoirs for extra blood in times of emer-gency-and that when the blood-pressure is increased in the brain the blood flows with greater freedom away from the sinuses and out of the skull; so that when the brain is anæmic, as in sleep, the sinuses become correspondingly and compensatorily fuller of blood; thus the amount within the bony cranium remaining the same, a much larger share of it than in the waking state is now external to the brain, a smaller share within the brain itself.
In the young and healthy, rapid and, extreme changes in the position of the, head may take place without any exil or inconvenient result; but in old age, when the ressels become altered and their elasticity is impaired, when their rasomotor apparatus is worn out or deranged, when the meninges become tbick and tough, the choroid plexuses sodden, or stony, and the brain is less elastic, similarly sudden and marked changes in the posture and relation of the head occasion giddiness or syncope.
That marked changes are constantly occurring in the brain and in its circulation appears to be shown also by the fact that, if the brain is exposed, it and the quantity of blood in it rise and fall with the respiratory movements-the brain rising in expiration, falling in inspiration.; and also rise and fall with each beat of the heart and the interval before the next ; as well as rise and fall in a slower manner than with respiration, doing so in response to various influences, such as changes in mental activity, in relative position of head, movements of limbs, respiratory modifications.
Inspiration also assists, to unload the sinuses, promoting a rush thence to the thoracic vessels and heart. Without entering upon the complex causation of the respiratory undulations just mentioned, we may notice M. François Franck's ${ }^{12}$ obserration, that when the heart is arrested the pressure ou the sinus remains equal to the general encephalic pressure, the veins swell, especially in the deep parts, and particularly in the cranial cavity, so that the arterial anæmia is replaced or counterbalanced by venous congestion.' Yet against this view is the result of Spehl's ${ }^{13}$ experiments on rabbits, in which the blood in the head during the chloral sleep was diminished, being now only 8.7 per cent., instead of 12.5 per cent., as in the waking state.

All the above facts, including those concerning the existence of checks on wide variations of blood-supply and blood-pressure in, and tension of, the brain surrounded by varions structures, go to show that consideralle variations may exist in the supply, in the distribution of that supply, and in the pressure under which-it circulates., And pathologic states show this increase or diminution, as the case may be. Observe not merely the exudation bnt hyperiemia of inflammation within the crapium; observe the intensely gorgel, congested-passively, if you like, but gorged-hlood-vessels in cases dying in epileptiform seizures; observe the blanched brain of the lunatie dying of purpura hæmorrhagica, or of other maladies attended with rapid or severe loss of bloodand you will admit pathologic hyperemias and unemias of the cerebrum.
In reference to this subject of the relative amounts of arterind and venous blood in the cranium, and the alternate ebb and flow
${ }_{10}^{10}$ Cited by Oley.
11 Thise de Paris. 1831. Revue des Sciences Medicales, T. xix, 1ss2."p. 3u.
is Gaiette des Hopitaux, March 23, 1ss2, p. 294.
13 Gdectte des Höpitaur, March 2s, 18s2, p. 294.
is Loc. cit.
of the amount of each, are cxperiments showing the relation of active cerebral hypermmia or anemia-of changes in the bloodpressure within the skull-to degrees of free outflow of rennus blood from the cranial sinuses, and its return to the heart. Thus Gartner and Wagner ${ }^{23}$ found that, whilst the calibre of ressels remains the same, the higher the pressure under which it circulates the more blood must stream through them; and thus, without any clange in the calibre of the ressels, a larger amount, per unit of time, may circulate under a higher pressure, and a correspondingly larger amount keep outflowing from the sinuses of the skull. Compress the aorta above the diaphragm, thus raise the bloodpressure, and in a parallel way the quantity of blood issuing from the cerebral veins and the sinuses is augmented. On the other hand, compress the ascending vena cara, and with the lowered blood-pressure the outflow from the veins and sinuses immediately sinks; and, indeed, when the blood-pressure sinks to 30 to 40 millimètres of Hg., "the effux of blood from the brain quite ceases." Now, under irritation of sensory nerves, strychnine poisoning, asphyxia, etc., contraction of blood-vessels of various organs occurs, together with rise of blood-pressure; but that the cerebral ressels do not thus contract, nnder similar circumastances, appears from the fact that the outflowing amount of blood from the brain sinuses, instead of lessening, actually increases then, and in direct proportion to the increase of blood-pressure induced by the experiment. Whereas, on the contrary, the outflow from the sinuses would be lessened if the brain ressels contracted, or at least their contraction would proportionately subtract from the effect of the increased blood-pressure. And direct electrical stimulation of the often so-called "motor area" of brain cortex ("kinæsthetic centres" of Dr. Bastian ${ }^{15}$ ) appears to cause, not brain anæmia by contraction of ressels, as usually supposed, and hence conrulsions, but, active hyperæmia of the brain, and this sometimes independently of an increase of the blood-pressure, although the latter usually assists in the result. Intimately bound together in this relation are the local vasomotor changes affecting branches of the circle of Willis, and the local molecular activity of portions of brain tissue. Let definite parts or centres be roused by any unusually active incitations of psychic or of somatic origin, and instantly the circulation thereto becomes, at a leap, more active and the blood-supply richer.

## Influence of Cardiac Disease on Mental State and Production of Mental Smaptoms.

The chief factors of the brain circulation being the heart's action, the vasomotor apparatus of brain, the molecular functional activity of brain, and the atmospheric pressure (opposing return from skull, whose contents are partially withdrawn from its influence), it is evident that cardiac disease may play an important part in modifying that blood-supply and the cerebral functious, And the shrewd forecast of the late Sir G. Burrows, ${ }^{16}$ as to its frequent connection with insanity, has been justified by actual observation.

Speaking of the mental disease with which so frequently an accentuation of the aortic sound is allied, Professor Rudolf Arudt ${ }^{17}$ said that it often takes origin when degeneration of the heart has followed its overstrain, and here the mental disorder, grounded in a disposition of the affected individual, is to be taken as an expression of general disease rather than as a brain disease, strictly speaking.
The influence of heart diseases in the production of brain affections is chiefly to bring about functional disorders of the brain. including insanity. Although Dr. R. Law and Dr. Wr. Stokes ${ }^{1+}$ held that, independently of arterial disease, which Rostan connected with white softening of the brain, the latter miglit, be brought about by heart disease, yet I have never seen a case of such "exsanguineous softening"" fairly attributable to cerebral aniemia the effect of cardiac disease; for in all cases where disease of the vessels locally was insufficient to account for the circnmscribed softening, I have found embolism, or hamorrhage, exudation. or new growth. But whatever their compection with cardiac or other disease, these several forms of local gross cerebral lesion may originate mental derangement, chiefly with dementia. An examination of this department of the relations of cardiac to mental disease rould occupy too much time. does not fall within the scope of these lectures, and will now be dismissed for good.

[^44]How, then, may cardiac disease either modify the symptoms of prowistent insinity, or of that whicle apywars aliont simultanemily with itself; or give origin to the montal disease; play the part of a chief factor ne the lisyclical malaty? $A$ questinis of dilliculty and comploxity. Comhined as they nsungly are in amples. They are as follows: 1. The heart disease may act by disturbing the halaner of the gencral circulation in various ways and degrees. "Similarly. it may act by disordcring the intraeranind circulation this includes its effect on the local vasomotor mechanisms). 3. It mny oprate hy leading to a cliange in the composition of the blood within the cranilun; or of of the blood and the imorbid impressions and scnsations resulting therefrome su that eventually some of tho effects arising are of pulmonary origin, or partly so. 6. Through the nerves it may beceme a source of peripheral irritation, and influcuce cerebral functions reflexly, by sympathy, inhibiting some forms of activity, deranging others.
Lest the aboye statements should bear a dogmatic impress, I must add that as ret they are not actually demonstrated and generally necepted facts. Some, indeed, while admitting a change of bulance of gelleral or of local circulation in heart disease, changel bloul-pressire within the ressels, and altered quality of
the blood therem. yet deny any eftect, worth mention, of these on the production of mental symptems, and hold that the original endowment of the nervons systens, and the previous mental qualities, govern the state of psychic functions during the existence of heart or renal disense, of changes of pressure and circulation. Nevertheless, as regards the first two of the above-mentioned results of cardinc disense, anel fucters of mental, the preceding discussiun shows their importance in determining the state of the brain, and therefere in hroducing disorders of it. In relation to this coine cascs with eecble circmation and with cerebral ressels functions varied with the oscillations of arterinl anemia of the Urain,'according as the subject was in the erect or in the herizontal position; as where one feeble-minded, apathetic, and peevish whilst in the erect position, became indeligent, lively, and conversational in the recumbent; or the student, mentioned by Burrows, who, owing to defective bulk of thood in the cerebral vessels Witkowskito fumd two patients with aortic stenosis lie abed with heatl low: whereas other persons witli congested head held it stiff and high erect, as in a casc of mitral insufficiency with swollen red bead, most carefully balaneed. Then from the heslum warl cume cascs in which maniacal excitcment is often cleared up, and disyuieting delusions abated or dispersed. by moderatedose's only mention vertigo and syncoper as active cerebral symptoms often connected with defective or disordered encephalic arterial supply
Then, as regards tho third of the factors enumerated, what has gune befure demonstrates that in disordered conditions af its circulation parts of the brain may be poisoned by venous blood, relatively too venous, nnd relatively too long stagnating in the veins and sinuses, and dammed backward upon the capillaries. As regards the fourth and fifth of the factore, also, we need only draw attention th the frequient disorder and imperfection of respiration, or even pulinonary tisease, secoudary to carliaic disensé, aud the interference with normal hmatosis thereby eugendered, and therofore defective nutrition of the brain, as well as the mental efects of morbid imprissiens coming from such pulmonary disorder or cliserase.
The sixth manner in which heart diseaso may accasion or modify mental symptoms is one which has been almost entirely ignored, but which 1 decm to be of great efficacy. When we consider the painful impressions, the distress, the physical anguish, the extraordinary variety of alnormel sensations, that
may arise in cardiac disease, the closely, urgently pressing nature of many of these, the rague discamforts, the oezing away of strength anil courage and nerve, the easy access to the brink or depth of syncope ; we shall sere in all these a fertile ficld for the growth of depressed or hypochondiriacal feeling and ideas of a Jelusive character. That peripheral local morbid states often directly occawion definite mental symptons, and eyen particular

Hurrows, Combe, difercombie:<br><br>Uutrad. If Sienzat Scrence. July, 1973, p. 193,

dehsions, I have had many necroscopic proofs : and, had I space, might relate many cases in illustration of that thesis, and migh. select abdominn and other cases, in order that what I shall sidy herenfter about the heart might exhilit enmpienously a parallelism with "these other puthological fuct hut space fails me. Morcover, this doctrine is not at new one. Thus, the wide employment of "sympathetic insanity" as a general etiological term, was largely built unon "occurrences similar to those long ago spoken of by Brown-Séquard, ${ }^{22}$ and others, as insanity by reflex effect of irritation of centripetal nerves.
One may describe the above methods of action of the graver maladies of the heart ; more diflenlt, nay of ten impossible, is it to apportion to cach one its place and rôle in particular cases, or in the scveral forms, of cardiac disease
With disabling heart disease, and especially if thereupon pulmonary disease supervenes as a secondary result, or even indeperidently, come a general disturbance of the balance of the circulation, and impeded return of blood to the right side of the heart, including impeded return of blood from the cranial cavity and all the more so as heré comes into play the closed nature of the skull. And not only is the renous blood in the sinuses and large cerebral and meningeal veins brought to a state tending to stagnation, but it also acts backward towards, and upon, the retention in this course giving rise to irregular circulation, local effete products of tissues, poisoning of the parts with retained sure of the blood tison the the brain. Lung disease greatly'enhances this condition of intracranial circulation a condition which also is accom of the with arterial cerebral anæmia, which we hare seen the anict mentioned 'changes tend' to produce. And this being the atore of affairs, shonld there now be also histological changes in the Tralls of the'cerebral blood-vessels, their partial acclusion starvels the brain substance, their diminished eldsticity further aggravates the stasis and promotes gravitation of blood.' Of the evil effects of persistent passive congestion of the membraines and brain substance I need not tarry to speak. Yet the heart disease, in some forms particularly, and eventually in all, of itself directly, often mechanically, occasions a defective arterial supply to the brain, with or without renous congestion, and in the train of this arterial anæmia (and renous congestion) follow all the changes in the circulation and nutrition of the brain to which 1 have referred, but which I need not recapitulate. And itterly mistaken are those who in the diseased or healthy state of the he seemin s, respectively, wonld seek the complete solution of by mental smystery that one case of heart disease is attended from.
Notwithstanding the effect of emotions on the heart, and the frequent effect of heart disease on the spirits of the sufferer, and that some have attributed mental symptoms, and event the production of "insanity, te chronic heart disease, yet others have denied the existence of any such influence by cardiac affections, or, if not denying it, have minimised its importance and effect, holding, rather, that "wheri they co-exiet, the heart dlsease is fuencary to the mental. And of those who do admit that ingeneral terms, as applying to chronic helinical results in brief and have failed therefore to distinguish the mental effects flowing from its different forms. Thus, Solfanelli ${ }^{23}$ opinied that while hypertrophy affecting the left side of the heart is connected with more active, and valvular disease with more passive, hyperemia, and its re sults ; and while cerebral anæmia will arise from dortic-valve stenosis, and cerebral venous congestion, and cedema will follow
upen mitral gerved betwregurgitation, yet a correspondence fails to be olssanity found accompariety of heart disease and the form of in Those who hevernying it
diseabe in thave brought forward large statistics on heart of cases, the necroscopical from the clinical facts fron one sel records entirely or largely made by othere, Not only are them discrepancies between the facts adduced by the several ofexvers; and notonly do the conclusions drawn from the living fail to harmonise with those drawn from the dead, in the atatioes of each observer; and not only have some, pathologic rela

[^45] 18is, p. 140; and by Witkowskt.
tions and faetors been lost sight of, in their figures, but also when these observers turn to the clinicill features of the insanity produced by heart disease, or the modifications wrought therchy, their statements are not drawn from the cases and statistics preceding, whichi, indeed, so far as they go, would lead us to very different conclusions.
Of insanity where heart disease is the chief factor it has been said that lypertroply of heart goes with exalted conditions, dilatation with depression; or, again, that aortic-valve affections mostly occasion excitation, whereas, on the contrary, mitral affections lead to melancholia chiefly; "While states of excitement are often attended by temporary murmurs originating at the aortic ralve. Yet most or all of the existing statements on this particular relation of heart disease to insanity are rague, general, indiseriminate, insecurely based.

The clinical and pathological sketches to follow are entirely from cases under my care, and many of them so for years, and of which I made both notes and necropsies. A few other cases are utilisel, of persons who are living, or did not die under my care, or on whom a necropsy was not made. Thus the clinical and the pathological facts are drawn from the same cases and by the same olserver, and, it is believed, are sufficient in numbers to elucidate the different relations to insanity of the several forms of cardiae and aortic lesion; and, moreover, are reported without bias, prejudice, or preconception.
Acute affections of the heart may he the source of mental disorder, as the insanity observed in some cases of rbeumatic endocarditis by Burrows and others, or as in cases of ulcerative endocarditis in the cliildbed state, causing derangement taking the form of puerperal'mania. ${ }^{24}$ But I am about to speak of something other than the delirium or other mental symptoms oceasionally observed in the ante and febrile affections of the heartof something other than its functiond affections, or even than its milder organic changes ; for not only is it more difficult to trace the effects (if any) of functional disorder or mild organic disease on the mental state, and not only are these producible by many causes, and easily engendered by the mental disturbance, itself, and by states such as lithemia and renal inadequacy-thas rendering them less suitable for our purpose-bnt also in omitting them there nre two further adrantages; the one an avoidance of being overloaded by a throng of cases of little use for our present purpose; the othier, that by selecting only the serere cases of organic disease the necropsy is conclusive as to the cardiac condition, and therefore we carr be spared that recital of the phyysical signs and somatic symptoms of the heart affections which would become almost necessary in dealing with functional cases and mild 'organic ones. And still another reason is that it is not part, of my scheme to furvish a new and ostensibly complete set of statistics as to the proportions, per cent., of the several forms of insanity affected with this or that cardiace condition or lesion--a matter of secondary intere'st from our point of viers.

Continually do we find inental symptbims cropping up in 'heart cases. For example, in Dr. Bristóve's.s. article on "Recurrent ralpitation of Extreme Rapidity in Persons otherwise Apparently Health "" we find that even in come of these cases of purel 5 func-
tional affection with only incidentaly tional affection with only incidentally present cerdinc disease or
slight dilatation. and hypertronhy second he noticed an irritable, fidgety condition, and sense of belmg always in a hurry, or a feeling of being ill, faint, and weary, coincidently with the paroxysm of palpitation.

To illustrate the effect of heart disease on the mental state 1 need not confine attention to the insane. Their attendants and Sthers occasionally furnish ine with effective examples. One such will be mentioned under aortic regurgitation. A second ense wns lan of one lisabled elsewhere for attendant's sork br a a heart rippled by rheumatic ferer, anit to whom I gave the situation of oorter, In his chest was always to lie heard' a lotad churning of -ommingled murnurs', which sometinies became trorse', the pulse, rrdinarily above 100 . running to a great frequener then; as thmaike attacks of dysproea being severe, the congestion and cedema if lungs aduing to the distress the face becoming blue and livid, nd the lips more ererted. Noir at these times I noted a cour-
omitant mentinl chance imprinting itself on the man's risage omitant mentinh clange imprinting itself on the mari's risage, ut chiefy manifesfing itself by suspiciousness and $n$, substititition
f the usual clieerful, lively buoyancy by moroseness, withdrawal
 gainst jujust reflections upon, unjust feeling towara, timself-

an incipient morbid idea of the hostility of those around him, and thie misinterpretation of their actions and motives, ending oceasionally in his bringing to me some suspicious suggestion rather than definite accusation-suggestion which 1 was wont to ignore. Finally, the kidney becoming affected, he died albuminuric, but a ferw days liefore death confessed to me that, when in his "bad turns," he for years had had visnal hallucinations or illusions, and that, as in dyspnceal lividity he spoke to me, he could see a man and log at the foot of his bed (hallucination)
Still another attendant became ehanged in disposition and feeling, but was una ware of his beart disease until, on examination, I found left liypertrophy and double zortic brruit.
Nor can I forget the case of a medical friend with heart disease, chiefly of the aortic valve, so far as valvular, and a bruit in the nortic arch; whose life became overcast by restlcss anxicty. $\mathrm{Op}^{-}$ pressed by apprebensions and rague disquietude, and with his thoughts ever returning to revolve around his morbid sensations and rague mental and physical discomforts, his conversation kept recurring to his sensations, his disease, and his impending death, the constant themes with which by day and niglt he worried those around him. Mirth or pleasantry grated upon his feelings, circling around their sombre centre. "Fidgety, restless, pertarbed, anxious-a hundred times a day he would beg of nue to feel his pulse, or seek the expression of my opinion on his state; and in the night, when sleep failed, he would rouse one up in order to seek suggestion of some new soporific plan, to be relieved of his, dread, and to have his pulse again felt.
And here I may mention the case of 'a deteriorated imbecile monomaniac, not in the following statistics, who, after sereral rheumatie attacks learing damage of the mitral talve and of the lunate cusps of the pulmonary artery, had vast increase of what had previously been only a slight tendercy to occasional, sudden; quasi-impulsive, transitory ontbursts of excitement, violence, and destructiveness.

Insamity in Relation to Forms of Cardiac Disease. Passing to Meart Disease and Insomity, and the groups I bare formed: all the cases were males: Once for all, it must be stated that under eacb of the following heads 1 have two objects in view, the one being to trace the clinical aspects of the insanity produced, or the modification of pre-existent insanity wrought, by the particular rariety of heart disease; the other. consersely; being to indicate the several forms of insanity in the course of which ehch cardiac aftection is most liable to appear ; for both the eardiac and the mentat may be deeply rooted in one and the same diathesis or diathetic tendency.
Mitral Tralre Diseire.-Three sub-groups.' In the first and second sub-groups, mitral valre disense was the chief or predominant somatic condition, both clinically and pathologically; in all the sub-groups it was the echief or only cardiac abnormalit:The twenty-nine mitriT cases'I bring fortard are, grompect as (i) marked regurgitation; ; (2) marked obstriction; and (3) comparatively slight or moderate mitral ralvalar 'disease.' Of those in' which' mitral disease was severe, the sole or predominant cardiac condition, and of considerable influence on the fortunes of the case, six were examples of mitral regurgitation, seren of mitral obstruction. One might well anticipate that disease of the bicuspidates, whether giving rise to obstruction or to regargitation of the blood stream, would practically be of the same effect on the nervons system, and thercfore' on thie mental state; or if the bicuspidate disease is later in time than the mental, that there nould be no special difference in the liability of the snbjects of the several forms of mental dispase to one or the other lesion-to stenosis. or incompefency. as the case might be and that the modifying effect (iff any) of either upon the preevisterit mental state irould be the smme: but the facts I linve pbserted, and will méntion, point to a different conclusion.
First, sub-groip: Mitral Regurgentation.-Let'me give a summaty of the cases of regurgitation duc to incompetency of mitral cusps, The patients, were aged from 37 to 54, and on the arerage $4 \pi$. it death, the insanity had lasted from a fer weels or months to twenty years. In some the cardiac aftection superrened on mental disense, in some it preceded the laiter. For reasons already specified I need not gire the physical signs of the cardiac disease. so well marked in these cases. or the ather somatic symptoms, although noting incidentally the' comparative frequency of Cheyme-Stokes's respiration in this sub-group. The heart was enlarged in these cases, weighing on the average 173 ozs. Ar., the left ventricle be
ing liypertrophied and dilated, the left auricle somewhat so, as also tue right ventricle; the heart muscle was in some cases pale and slighty grunulo-fatty, nul its coronary arteries atheromatons. Gisen when least affectind in structure the incompetent The other valves mas be so also, the tricuspil, however, often escaping. We may find in the lungs congestion, pheumonia. hemorrhage: the kidneys smallish ( $f$ to $f_{1}^{1}$ ozs.), and slightly or moderately gramular.
The heart disease in some of these cascs preceled cither melancholia or suspicious delusional insanity. In others the heart disease was subsequent to religious or to persecutory monomanin, or to expansive, manincal, hestile, irritable general paralysis, running an alerrant course in one with hereditary psychie degeneration. Of the two sets of cases, the more interesting is that of mitral disease preceding mental disorder and infuencing its production and aspect.
Wheu rheunatic fever has founded the chronic heart disease, and mental symptoms have been noticed for six months, one is emotionally depressed, melancholic, acknowledges morbid feeling in the head for a long while, as if the vertex was cut off and lifted up. To him it scems as if something "wrong inside him" says he is to be shot or hung: he belieres it, and wishes to be opened at once for the benefit of medical science, by the discovery of the internal pathologic state. He fancies that imagiuary voices ad dress him; people turn round and speak to him; the lord talks
to him, and says he is to be shot; he feels wicked, and as if cast out by the Lord. At times lis description is that he hat felt as if the calvaria was off and the heart down. From the cardiac region he hears voices say, "It's a shame to keep him here;" but this he explains, in a sense unusual for asylum inmates, as meaning that ho has become too wicked to be here, and therefore ought to be shot or killed. At one time the hallucinatory voices had sugfalling his sexnal mutilation, and he confesses to past onanism: by his presence in the bedroom to which his widowed mother often brought home a paramour. At times he had felt increased in height, lifted up, and as if he was not a natural being. Something scemed to be blowing on the top of bis head; he felt as if a snake worked from right thigh to shoulder. Sometimes he perceired strange smells withont external cause. These were auditory, tactile, olfactory; and visceral hallucinations and illusious.
In the next case the coming on of mitral regurgitation was probably subsequent to the insanity. A religious monomaniac, whio mate, fell at last into physical and graver mental difficulties. With his cardiac and renal disease came, first, pulmonary engorgement, muco-aqueous expectoration, edema of lower limbs; and, later on, marked albuminuria, defective vision, mental dulorthopncer and cyanotic livid lue of fas at times asspncea or dyspnoara was in part renal. And so the case progressed, with recurring dyspnceal attacks, o lessened amount of the now highly albuminuous urine, mental heariness and drowsiness. And during theae latter and cril days, when the cardiac and renal diseases Were telling upon him, the state of mind was modified: for, in contrast with his former mental characteristics, he had becomo depressed, very" quiet, somewhat sombre, and showed a marked iuclination to taciturnity and sitence, as if the mental sky had become dull, leaden, oppressive.
Another monomaniac had had delusions as to poisoned food and persecution; hallucinationsi of sight aud hearing, and a variable emotional state-now amiable and industrious, now sullen, moody, and menacing. That he was persecuted by men who annoyed him by blasphemy and by tramping about 80 as to get him to commit himself, that he was kept to be tortured, were some of the various delusions under the influence of which at times he became noisy, excited, threatening, or violent. Later on, he destroyed his bedding, declared he was tormented at night, esplecially by women and the Queen; therefore he threntenod and
planned to assault the oflicers of the asylum, or to smash windows, if not shifted away. Subsequently, becoming more quiet and sullen, he said he had no flesli on his bones, or those about lim were "agninst" him, or that he was persecuted. The marked heart disense had now become manifest, and now, ncither excited nor hoisy, he was snllen, reacrved, taciturn, of forbidding look, the patients wers "ere somewhat in aberance. Later on he said the patieats were "all agninst him; histesticles were eaten away,
ho was tormented ;" everything not agreeable to him he looked on
as an injustice, an act of hostility to him, a punishment. Subsequently deaf aml phthisical. Here the mitral disease appears to have wodified the mental state; changing it from a chronic. paroxysmally excitcd, violent, destructive, amm "threatening state, to a more depressel, morose, sullen, taciturn one, yet com-
bined with it quiet, tractable docility, in strong contrast with the former aggressiveness.
Another, a protracted crratic case of general paralysis, at first was extremely maniacal, irritable, full of hallucimations and delusions of exalted type. "Is Jesus Christ, has millions of money. is an Adonis, is all-powerful to strike or hen!, Subsequently, with big ideas, he still at times was irritable, angry, quarrel some, disdamful. Latterly, with marked mitral, also with aortic-valve, lesion, and in contrast with his previous state, he gradually became quiet, reticent, depressed, incoherent, childish, somewhat demented; but impatient, irritably waving his hauds, and offering a ready resistance to management or manipulation.
Finally, the order of incidence of the two affections twas not absolutely clear, althongh the total stated duration of the insunity was. under ten months, but the heart disease obviously of some years. standing, in one who died after being ouly four weeks under care. The clinical aspects were: very fidgety and restless morements, matering, incoherence, repetition of the same words, rambling statements, loss of mental perception and of memory, extreme de-
mentia-a condition as mend.-a condition as of premature and intense senite decay of mind. Less marked examples of mitral regurgitation occur in the Thus, whonp.
Thus, where mitral regurgitation most eridently influences the pre-existent insanity, the state is usually in sombre emotional dejection, or melancholic dread, with hallucinations or illusions and hypochondriacal symptoms; or else morose, sullen, taciturn states, with a marked attitude as of one subjected to annoyance or persecution.
Second Sub-group: Mitral Stenosis,-Varying from 30 to 79 , the age at death, on the average, was about $47 \frac{1}{2}$, and the insanity hail existed from two months to twenty-four years. The cardiac dis-
ease, in sol asse, in some preceding, in others supervening on, insamits, had
in some an order of meidence not absolutely kuown with certainty. On the whole, pleuritic and pulmonary conditions had as much (or more) to do with determining the site of the apex beat as had the intrinsic cardiac lesions. Bronchitis, emplysema, pulmonary congestion, pneumonia, pleuritic effusion, hydrothorax, cedema of feet and legs, more generalised dropsy, albumi-
nuria, subcutane tions were apt to be found singly, or variously combined or apt to be
The average weight of the heart was 13.188 ors. In all were degrees of constriction at the left ostium atrio-ventriculare. and of thickening, rigidity, deformity, or cohesion of mitral cusps. Part of the cases were of the "batton-hole, and part of the "funel-shaped," rariety of mitral constriction. ${ }^{20}$ Less change pid, valres. The left auricle was more or less hypertrophiad and dilated; the left rentricle not markedly or not noticeably hypertrophied as a rulc. In most the right chambers were hypertrophied, or hypertrophied and dilated. The heart vuscle wras usually flabby and friable. The coronary arteries atheromatous in several. Pericardial fluid often increased. Splecn, on the more or less irregularly thickened and opaque, occasionally scarred, pigmented, brownish. Liver, average 47.25 ozs. ; " hepnatic venous congestion" usual; often some "nutmeg-like" appear ance; parenchyma firm, or even hard; capsule partially thickeneu morecrent to surrounding parts. more of the following changes: granular surface, adherent cap lungs were one or sceveral of these conditions, namely: hronchitis, emphysema, pleuritic effusion or old adhesions, apical cirrhosis, or even traces of former cured plethisis, bronchiectasis, car
nificat nification, or brown induration of hlung at base, occasionain
cheesy nodules or cheesy bronchial gland, calvaria dense in some, brain usually somewhat wasted, and meninges elightly thickened fissures and gyri occasionally abnormal.
With regard to the mental state and its modification by mitral stenosis; the cardinc disease distinctly preceded the mental and nefore admission. Ifis memory was impaired, and he had no
beduction one who had thice attempted $\frac{\text { before admission. His memory was impaired, }}{26 \mathrm{Dr} \text {. Donglas Iowell, Lancet, 1ssu. }}$
recollection of his mental attack in India; but he was not merely stupid, simple, unable to take proper carc of himself, and ignorant of the value of money; he was also irritable, suddenly, as if impulsively, violent and destructive when displeased; jcalous of others getting better things or larger shares than he; made grievances of nothing; frequently transferred from ward to ward at his own wish, he was not contented in any; was excitable, quarrelsome, rescnt fut, readily and impetuously made sudden attacks if he thouglit (delusion) that he was insulted or called names; excited ahout grievances, he imagined injustice; would not occupy or amuse himself, demanded his release; later, he made assaults under the influence of hallucinations of hearing. In anger he lurled his dinner away, smashed plates, threatened to and did commit sudden quasi-impulsive acts of violence. For a time he continued to attack others under the delusion that they annof, push against, talk about, or even look at him. Finally, he hecame quiet, depressed, reserved, subdued, answering in monosy:lables.

Another case in which the cardiac affection long preceded the mental, comes liere in order, but was aged and less characteristic., He had some active symptoms, being noisy, shouting "murder," and delusionally asserting that people came and assaulted him, that there was some criminal charge against him, that he had been out and robbed on his way to a bank, or had, lost a cheque
belonging to his employers. Moreover he became suicidal helonging to his employers. Moreover, he became suicidal, tried to get out of and smasled a window to go and throw himself over a bridge. Later he was petulant, irritable, struck at an attendant about to feed him, confused persons and places, was rambling and incoherent in conversation, imagined le lad to pay
for his maintenance, had just left his business situation which for his maintenance, had just left his business situation which rtill depended on him, and was the subject of a criminal charge. Better for a time, but latterly worse, with rague depression, discontent, dissatisfied with his food and his position, occasionally rambling and odd in conversation; he talked of having been overdosed with chloroform. Sulsequently, says he "is dying fast," his "brain is going," or he is " disturbed," has not slept for weeks
or months, will soon be dead, and was trubled by the delusive or months, will soon be dead, and was troubled by the delusive notion that he must go to see a "dying sister and nepherre" latterly were delusions about his dying or being dead, dreams in which he saw corpses laid out, desire for death.
The order of incilence of the two affectiens was somewhat dloubtful in a case of religious monomania with excitement, becoming querulous, and finally deteriorating, and the querulous maniacal elements continuing. At times, restless and cxcited, he assertelf that he was St. Patrick and suffered on the cross, tbat raices from the other world spoke to him. Declaring his independence, and not brooking the slightest interference, he was quarrelsome and assaulted his companions. Later were notions that true angels tell lim what to do; his fixation on a bed at Malta he took as comparable with the Crucifixion. Excessively querulous, he complained of his treatment and diet, and was indined to fight. A marked stenotic mitral bruit was leard, and now came frecurent pulmonary complications and dyspnceal attacks. Lifter the heart condition became worse he was querulous. morose, discontented, was growling. grumbling. making absurd comphaints of being injured and treated in a hostile way by creryone, and absurd, statcments as to the imaginary bodijy injurics
inflicted upon him.
Is in the last, so in another case, the funnel-shaped mitral constriction may have been congenital; otherwise, knowing them only in the later years, one would have said their heart disease probably appeared later than the querulous persecutory monomania. This one had delusions as to men being murdered and boiled to lard, and their skins tanned to leather i as to the army officers being against lim; delusions of being annoyed, ill-treated, of cverything heing wrong, of the food lreing deleterious or stink-
ing, or poisonous. But with these were occasional delusions as ing. or poisonous. But with these were occasional delusions as
to lis valuable clothing or wealth, as to his leing proof against
swares swo suares, strord, or gunpowder. Yet usually he was suspicious, inuerulous, discontented. Latterly, when more in trouble with lieart and luygs, he said the food was dead men's lard, or made of dead men's yeast, that " bad stuff" was intentionally put in it, that roices told him he annoyed his comrades, that American in-
terference compelled himm to stop work, but that he had "raised Mrference compelfect lim to stop work, but that he had "raised
fito." In low spirits, he yct became excited, noisy, and abusive
if if questioned, and had delusions of persecution. Latterly he dcclared he was poisoned, often refused foed, and the delusions on this subject hecame predonninant. Peevish and irritable, he in-
sisted that the milk was poisnned. that his medicine burnt him
up, that the attendants smelt offensively: Ereu at the last, uuder delusions of pcrsecution, he shouted ahout "blood-sucking" and about his being "tormented." Besides the heart disease there were caseous bronchial lymphatic glands, and some cheesy
nodules in the lungs.
In a case in which insanity probably preceded the heart affcction there were early despondency and desire to be killed, then usually querulons, but sometimes expansive, symptoms-sullenness, restlessness, irritability, mental confusion. Later he tras noisy, quarrelsome, dissatisfied, querulous, and by his own wish transferred successively from ward to ward; at times were expansive ideas, such as that he was "next to God." Later, impaired in memory, he was confused, incoherent, now and then excited, threatening, and on those occasions refusing food and resisting interference. Subsequently hypochondriacal, baselessly asserting that he was ill, that his tongue hung loose, that his left eye was blind; and now, strange to say, came recollection and mention ly him of his early long-past despondency and desire to be killed. Still later, absent in mind, confused, of defective memory, and repeating werds and sentences with an odd smiling look, as of a chronic maniac. He died of an acute inflammation.
Of the above cases, the first, third, fourth, and in less degree the fifth, show this association of obstructive mitral dissase with chronic insanity characterised by delusions of persecution, annoyance, injury, or hypochondriacal ones; and often hallucinationis, at first with, and then superseding, expansive ideas, chiefly of the religious order; also with another group of symptoms-querulousness, irritability, ill-temper, discontent, grumbling moroseness, and peevish cross-grained cantankerousness. It is partly the symptoms of this latter group which grow worse in proportion as disabling mitral stenotic disease tells on the vital forces and the functions of the lirain. And in some of these the cardial, in others the mental, is the earlier malady; if preceding, the mitral stenosis appears to foster the production of symptoms of the kind described; if, on the contrary, apparently supervening. it seems to intensify the similar symptoms, and to assist in the supersession and gradual extinction, by them, of formerly coexistent symptoms of the expansive order.

In two less marked cases the order of incidence was unknown, and the mitral affection probably not of very mucla infuence. One was mixed monomania, persecutory, expansive, lyypochondriacal. Patient says he "is tried, accused of crimes, is annoyed, apparatus is applied to him, is the object of conspiracy; is persecuted by Orangemen's secret, or by a 'piercing mind with a voice, which once he saw ; it pains him all over; this is done to prevent proof of his grievances. To him the power of Orangeism, Freemasonry, and Devil are applied; he can be pained by others at their will; is worked on at night; Freemasonry is dragged frem him, so is his nature, and the flesh is dragged through his body." Later, refused food, declared he would starve himself if not discharged, and should he starre the rorld trould be destroyed; "Is Saviour of the World, has spoken to God;" becomes excited abeut his imagined persecutions. Here, there were also some cheesy and calcareous nodules in the lungs.
The other had been grotesquely irrational in demeanour and language, alternating between melancholic depression and agitation, with menotonous repetition of ejaculations on religious subjects. There were also delusions of conspiracy, and that his soul was lost, and that his food was poisoned, with obstinate rcfusal of it. Sulsequently, melancholia agitata; still noisily repeating some words or phrases, and refusing food. Later, silent, reticent, depressed, unsociable, and refusing to be examined.
Comparing the most characteristic, respectively, of mitral regurgitant with mitral stcnotic cases, broally speaking the former show more tendency to melanchely, the latter to intense querulousness, and delusions of persecution, annoyance, injury.
The third sub-group of morbid mitral orifice or ralve consists of those in which thce was slighter mitral change and effect. For, in sixteen mitral cases the valve disease was comparatively slight, or somewhat overshadowel by important changes of other organs. or the valve chunge, although the chiff cardiac abnormality found was not of grave import, anil probably did not exercise any narkelly noxious infuence on the course or symptoms of the case in reality. However important these may lee as showing the tendency and line along which disease works in some groups of persons, they are of comparatively little usefulness for our-particular present purpose, inasmuch as their influtnee upon, or their relation to, the mental state of the patient, or to the con-

Atitutioual state or circulatery condition which favours the production of that mental state, whe notgrery cleat and distmet. Therefore, although they were anulysed, ll shall exclude the sixteen from further consideration, exerpt to add that most of these enses of lighter mitral dicense, aldhough many of then were Gencral paralytics, exhibited an inclination to depression, irritaSility, delusions of annoyance, danger, ill-treatment, persecution, or showed inclination to dementia, Emothomi facility was marked in sime. Only a few had occasional expansive delusions or exaltation.

## ABSTRACTS OF THE MILROY LECTURES

## SOMIE GENERAL CONDITIONS WITH REGARD TO EPIDEMICS. ,I:

Delivered at the Royal College of Physicirns of London, F'briuary and March, 1888.

By ROBERT LAWSON, L.R.C.S.ED. Insprector-General (Rettred) Army.

fecture hl--Fpidempe hafleences (contimued).
Small-phre- The enrly part of this lecture was devoten to proving that small-pox, like fever, was under the influence of a yanthenic factor which determined its developmeat ins an epidemic at sime point in the first instance, and its subsequent extension to the morthward in successive years. The illustrations given
were mastly its necurrevice in Eurone und Andirich ns gave specific information as to dates of commencement und decline of the disease, or statements of the deaths in purticular years. ISmall-pox generally Ayperred in the southem rart of Ilindustan bet ween the isoclinals $0^{\circ}$ and $: n^{\circ}$ north in the first instance and extendell to the prirtion lefyoll the istoclinal sos sulsequently: rarying in force in flifferent purts of the ennutry invalem in different epideraice, hat still preThus the epidemies reached a maximum in the Madras Presidency in 1868, 1892. 18\%, nnd 1882: in the North-West Provinces nind Pental in 1869, 1873, 1878, and 1883; ant in Punjah in 1870, 1874, 1859, and 142\%. The want of information regarding Central Aaia proveuterit the wave being trated furt her north: but in 1869 smanlpre conmenced at Marsilles, beame epidemic in the north of France in 1800, in Hollumi and London in 1871, and in the north of England. Scotland, und Ireland in 987' : on the nther side of the hemispher, it conld be traced in Teneriffe in 1870 , and in the Cnitent States in 1951. The Hadras epidemic of 1872, it whas suggested, wus' part of the same wure which reached Westem Europe and the Unititi States in 1875.
Pantemic Hates.- - Xothing, it whs saill, is known of the intimate natire if these pandemic wases, nor liad any explanation hafn given as to whe they should proceed from south to north. F'urther, the kind of fever developmid, as it was assumed, under their influmen' varimes very mueh at different perions, und this was enough to show that the pandemic wave of itself was insufficient to account for such varied reunlta, and that recourse muat lie hand to other factors connected with each locality for the tina. With rezard to intermittent anil remittent fevers, the endrmic sources of malaria must be all that was reqnisite in most cagns : hut with yellow fever nud plague and some othe: fevers something elve why necessary.

Fellor Ferer,-1n exarnination of the epidemies of pellow ferer oberved at Sierta lemne, where the ordmatry fever is the remittent, luld to the inference that the immediate exciting eause of the disease io greneratell by a special factor acting on it sutahle locality in a place where the dispase appears, and whieh is either absent ir in abryance during the intervening perions. And a morce extended arries of statistics showed that from time to time there is, nver a varying extent of the earth's surface, an increased activity of the factora which leud to yellow fewer, under the inthurnee of which that dienase hecomes developed when local circumstances womethe. Of these the most important were the state of the gril. Ton much water or too littlo stopued the thisense: that at Sierra Lenne, where the rainfall was heary, the rpidemics came in dry eenanns; while at Gorve and Senegal, where the climate was dry, the epldernics fell on years more thian usually wet.

Mayue-d stndy of tho renppearance of plague at warions points wheri it hai tormerly bern epilemic affordeal some evidence as to the factors conecrned in the production of the disease. Specind ruference was made to the cascs of benign plague, deseribed by Tholozan as preceding severe outbreaks of the disease. Though this sequence had not been proved to be invariable, it indicated the operation of a separate factor, concurring with the pandenic wave in those localities where that form of diseaso presented itself. It did not appear that plagno was communieated from tho sick to the healthy by contact, but that the danger renlly arose from remaining in an apartment. occupied by the slek. Several anthors who had peragnal experience of plague had lescribed it as "a poor" man's disease that never went upstairs," und the sufferars, in addition to delicient food, had inhabited apartments hadly ventilated, and often in the most insanitary condition. Whether there were 'n specillc factor requirel to excite the fully-developed disease; or whether that causing the benign form merely became intensified in certain localities, from circumstances existing temporarily, were points which must be left for future inrestigation, which the progress of bacteriology might hereafter facilitate.

## ON A NEW METHOD OF STATNING SECTIONS OF THE CENTRAL NERVOUS SYSTEM.

By FRANK J. WETHERED, M.B. (LoND.), M.R.C.F.

1 Axr indebted to Dr. J. Pal, of the L'athological Institule in Yieuna, for permission to pallish a new method, recently introthced by him, for staining sectiens of the lrain and spinal cord.
It is in reality a modification of the urethod first introduced by Professor Weigert, hut differs from, it in many particulars. Dr. Pal elaims the following advantages for this modilication: The picture produced is sharper in outlipe; the nuclei and nerve-cells can be separately strinet, and the process is a more speedy one. Not the least advantage is that the treatment of the sections by a solution of the acetate of eopper is entirely done away with. 1 laring worked with both processes mykelf, I ean fully contirm all that Dr. Pal states. Dr. Pal's method is as follows:-
The spinal cord or brain is hardened in Miiller's fluid in the ordmary wanner, and when ready is embedted in paramin, and the sections cut into absolute aleohol. An atqueons solution of hematorylin of the streugth $\&$ per cent. is then made by dissolving the hirmatoxylin by means of hent, and, after conling, some alcohol is added. This solution must not he kept very long, or ullowed to stand in the sunlight. Immedintely lefore nsing, in ferr drops of a solation of earbonate of lithimm are added ; on the addition of this salt the solution assumes a violet real colour. Dr. 10nl uses three or four drops of the lithium earhonate solution to 10 ellbic centimetres of the hrematoxylin. The sections are
allowed to remain in end of which time they slould for about fise or six hours, at the are then thoroughly whished in water antil no more enlour comes out: if they do not uypear to be deeply enough stanned, a few irmps of the solntion of lithium carlonate may be alded to the water in whieh they are washed.
The sections are next to be "differentiated:" for this purpose they are first placecl in a $\}$ per cent. solntion of permanganate of potash for 15-20sconds, and then for a slort time into "Pal's solution," mentil the white and grey matters are plainlydefinel; this is generally comor if the whitennul minutes. If mekek speeks areseen on thesect inns, or ine the is to loce repeated. "Pal's solution"" pomposition: Oxalic neid, 1 surt, sulphicle of following $\left(\mathrm{K}_{\mathrm{s}} \mathrm{s} \mathrm{O}_{3}\right) 1$ part. distillel water, 20 pharts. After haviug been taken out of this solution, the sections are thoroughly washed in water, and the nüclei may then he stainet in mein or carmine, the sinin whielr nats best biner alum-carmine. After annther washing the seetions are dellydratel by ahsalute thenhol, clearet in cil of eloves or creasote, and mounted in lialam. Wue, und st this manner, the melultated nerve-fibres ure coloured strong entrast to the redl muclei.
athite background, jresenting a In order to bring. out the nerye-cells priminently, after the sp.cimens have been "differentinted" they are plaeed for a short tine in piero-carmin", which should the only slighty alkaline, and, after being washed in water, tbe nuclei may be stained as before in alum-carmine.

# REPORTS <br> OF, THE <br> COLLECTIVE INVESTIGATION COMMITTEE <br> of tae <br> BRITISH. MEDICAL ASSOCIATION <br> REPORT ON INQUIRY No. IV. <br> <br> AGED PERSONS. <br> <br> AGED PERSONS. <br> Prgpared by l'Rófessor humphry, f.R.S. 

Rfport on the Present Condition, Habits, Circumstances, etc., of daen Persons.
The following report, which relates to the present condition of the aged (that is, their condition at the time when the sereral reports were made), is, like the report on the Maladies of Old Peopie, which appeared in the Jourval of July 30th, 1887, founded upon the analysea printed at page 515 et seg. These analyses, as there atated, were derived from the returns reapecting 824 persona, made for the most part by medical men, in reply to the inquiries of, and npon the forms issued by, the Collectire lnvestigation Committee of this Association. ${ }^{1}$
Of these 824 persons, 340 were males fand 282 were females between the ages of 80 and 90 , and 92 were males and 110 were females between the ages of 90 and 100 . . Of the whole numher, 89 per cent. were, or had been, married; 48 per cent. were poor, 42 per cent. were in comfortable circumstances, and 10 per cent. only were described as being in affluent circumstances. This must not be regarded as representing the relations of poverty, and aflluence to longerity, because, in the first place, the poor at all ages and in all 'districts bear a large proportion to the aflluent;' and, secondly; our returns are largely made from the lower and middle classes, and, in many instances, from the inmates of union-worklouises, where a good number of aged people are found, and where information respecting them is most easily obtained.
The important questions of the relative longerity in different classes and among those following different occupations scarcely comes within the range of our inquiry. Indeed, they require carefully collected statistics of varying kinds, and much labour for their' 'solution. ${ }^{2}$
It does not appear that the Shakespearian sequence of the "lean and slippered pantaloon" to that "fair round judge" is by any means the ordinary nne, for the 'spare' condition and the "arerage' condition, between 'spare' and 'fat' greatly' predominates in our old people at all ages between 80 and 100 . The 's average condition in noted in 47 per cent. of the whole number, the frpare, in 41 per cent., and the 'fat' only in 11 per cent. ${ }^{3}$, and the accounts of their condition at earlier periods of life indicate the same, by the far larger proportion having thronghout life come uader the denomination of 'spare' or 'average,
The average height of the men ( 67 inches), and the women ( 62 inches). if we take into account the lowering of stature attendant upon age which may be estimated at not less than 2 inches, gives a ligh standard, the average height of Englishmen at 25 being, $67 \frac{1}{2}$ inches, and of Englishrwomen 62 inches. This, as in the case of the centenarians (Jourvil., December 11th, 1887), corroborates the observations of Mr. Roberts (JourNAL, January
$18 \mathrm{t}, 1887$ ), who found " on grouping the 18t, 1887), who found, " on "grouping the measurements of a largo
number of individuals together, that the curve of stature connumber of individuals together, that the curve of stature continued to increase up to the age of 70 , which was the limit of the statistics;" and he expresses the opinion that "this increasing stature of the population throughout, life was due to the greater
riability of persons whiose stature riability of persons wlose stature wes up to or alove the arerage; or, in other words, to the weeding ont by disease of the smaller and worst developed members of the community."
The lowering of stature attendant upon age is due partly to the loss of elasticity of tho intervertrebal snbstances and other, IThe Report on Centenarians, with table, appeared la the Jovkrak of Deceni-
ber Ilth, 1886 .
See Class-Mortality Statistics, by Dr. Grimshaw, Jousval, August 13th, and. Infuence of Easy Circuinstances on Longevity, by Dr. Drysdale,
The round nurn
n most found numbers only trince the percentages and not the decimals are given, observable, such as abore, where $47+41+11=$ onit on discrepanoies occasionall:
parts of the frame, but chiefly to the inability to attain and maintain the fully erect attitude, which requires a certain effort on the part of the extensors, especially of the knees and hips, fatiguing at all periods of life, and often impossible in the aged. A lowering of the heards of the thighbones, owing to an alteration in the angles of their neck, is, according to my obserrations, of less and less common occurrence than is, generally supposed. The fair maintenance of elasticity and erectness shown in the tables to be one of the attributes of great age may lead us to infer that the lessening of stature in. our old people was less than is usual; and I have accordingly estimated it at not more than two inches.
The importance of this relation between physical development and longevity acquires increasing force in proportion to the ralue of the evidence which, is being adduced as to the diminishing physique of our people, ascribed to their transfer from rural districts to large torns. In reference to this point I may allude to the words of Sir Thomas Crawford in his recent address at Dublin (Jocranal, August 13th, 1887): "A careful examination." he sars of these tables (tables of the causes of rejection of recruits for the army), "leads to the inference that the lower classes, from whom recruits for the army are chiefly taken, are of inferior phrsique now to what they were twenty-five years ago." If the physique is becoming less good, must we not expect to find a aroportionate Crawford's statistics have not passed without criticism; hut, at any rate, it is a matter deserving serious attention. ${ }^{4}$
The arerage weight of $2: 27$ men in whom it is given under 11 stone, and of 114 women about 9 stone, is, especially in the women. small in proportion to the height and well-dereloped forms of these old people, and corresponds with the 'spare' condition noticed in so many, and shows that people usually become of less bodily, weight as they grow, older. These well-developed, and for the most part slender, figures maintain gallantly that erecet attitude , whichis the special feature of the human form, forasmuch as To find 62 per cent. are stated to be 'erect,' and $2 s$ per cent. only to be " bent.'
The 'anmmic' and 'pale' condition of a large proportion (respectively 58 per cent, and 30 per cent.) accords with the fact noted in my account of the post-mortem examinations of centenarians (Jocrnat, March 12th, 1857) that the spleen, lymphatic glands, and other blood-making organs are in a comparatirely atrophic state in the aged. Nevertheless, it is to be remarked that a good proportion (28 per cent. and 35, per cent., making together 63 per cent.) are noted to be 'strong, or of a rerage strength, as against 36 per cent., who are described as' 'feeble.'
Among these old people, as in the case of the centenarians, a large number ( 80 per cent.) retained good sight: and the evidence is confirmatory of the view, derived from the records of the centenarians, that the occurrence, even the early occurrence, of presbyopia ( 83 per cent. 11sed glasses) does not militate against the continuance of good sight to a very late period of life.
Hearing failed in a larger proportion than sight, being reported as 'indifferent' or' bad 'in nearly half the number of returns under that head. The failure of this sense in a greater number than that of visiou is probably due iu great measure, as I have before said (Jocrand. July 30th, 1887), to the liability of the delicate mechanism of the middle part of the car-the tympanum, with its bones, joints, membranes, muscles, and lining membrane-to impairment from colds, shocks, and a rariety of other causes.
The.good general condition, the good performance, that is, of the varions functions', in a large number of these old people, is, as in the case of the centeuarians, in noteriorthy fact, and contributes. it need scarcely be said in very large measure to the comfort and happiness of old age, in 71 per cent. the digestion, and in 62 per cent.' the appetite, is stated to 'be 'good.' In only 4 per cent. is the
former, and in only 5.4 per cent. is the latter, sald to be ' had. In

[^46]Gi per cent. the bowels acted daily, and in few do they appear to lave given trouble. Very frw resort to aperients; and it could be wished that a greater number of the young und middle-aged persons in the upher ranks of life would follow the cxamule of the cha people in this respect.
The process of micturition is foum to be natural in 83 juer cent. of the women and in is per cent. of the men. In on per cent, of the menand in less than 3 per cent. of the women it is noted as leing slow; whereas incontinence is said to exist in ahout 6 per cent. of the women and in only 3 per cent. of the men. Frequeney, of misturition appears to be a source of annoyance in not more than 3 per cent. or \& per ceut. in either sex.
The nvidence of sound brain-
The exjdence of sound brain-condition is furnished by the report of an "nverage amount of intelligence in $7 \pm$ per cent: in 15 per cent. 't is stated to be 'high,' and in 1 per cent. only to be 'goodi; especially (in 78 per cent.) for past events. The recent impressions, as is the case with most of us after youth, are less durable: still as many as 59 per cent. of these old people are noted to hare geod memory for recent events. A further evidence of good lorain-condition is furnished hy the observation that only 9 per cuat. are bad sleepers, whereas $6 t$ per cent. are said to be gond sleepers, and 27 per cent. to be molerately good sleepers. This does not quite accorl with what seems to be a generally received impression that the sleeping faculty of the aged is indifferent. It may he, and it probahly is the case, that the work which should go on in sleeping, that is the repair of the ordinary war and tear associated with the exercise of the various finc-
tions, and more particularly of the brain functions, proceeds slowly, and that a proportionately long period is required for it: so that, althongh the 'slceping faculty' may be good, the 'sleeping power may be less than in earlier life. This sluggishness of tendant upon functional exercise, and which is an appropriate associate with the sluggishness or diminution of functional activity in the aged, seems at first thought to be scarcely compatible with that good performance, in these same persons, of repair after the greater lesions hy wounds and uleers to which 1 have called attention in former reports. The apparent paradox, bowever, is probably explained, as mentioned in the report on the maladies of old people, by the lower sensitiveness, excitability, and actirity of the tissues in the aged, and by the better opportunity thus afforded for the quiet operation of the healing processes.
It does not appear that much is to be inferred from the preseuce or absance of tho arcus senilis, forasmueh as it is noted to exist in 'considurable' degre in 25 'per cent. in 'slight' degree in 37 1ur cunt., and to be 'absent' in 37 per cent.
The disappearance of the teeth also, as remarked in" former reports, loes not portend so much as is commonly supposed. In 41 pror cent they were all gone. and in some this had been the case for many years, We find, moreover, in these analyses (Jorrisal., Juys oth, 18si) confirmation of the observations in.fore mado as a resnit of this investigation, that the tecth disappear at an earlier former are the more lone-lived, the proportion in whieh they were abeent being 52 per cent, in the women and 30 per eent. in the men, also that they disnjuear in the uper faw carliee than in the lower jaw. Our reports are drawn chielly from the elass of persous who are not able to make amends for natural deliciencios by artificial aids. Thus thirty-seren only out of the whole number War artificial teeth: some of these lud uspal them for many years. Wrecan scarculy, therefore, from our lathes "raw inferences rewhich may bes affordeal hy the dentist's skill: although it can trarecly bedonhtel that benefit in these respects, as well as in comfort and other wass. will he fomb to result from the science and art of dontistry, which is making atheh great alrancos.
The heir scemator haye held its ground well in these old people. for we lind that baldness took place late in life, or not at all, in 73 jor cent. and that 26 juer cent. only are said to have been bal. 1 - arly: also that greyness occurred early in 24 per cent. and late in Tiper cent.

It is interesting to note that the pulse-rate botween the agea of (w) and lox, which in the whole number of the cases observed userages 77 , is ahout the same nas that of mindle-life. The slight c:reas above the average of midale-life may he accounted for by the prasisce of a certain amount of chest-affection in some of, those fld people. Iu the wormen the arerage (79) enmerrhat, cx-
ceeds that of the men, which is $75.1 n 80$ per ceut, it is said to bo
regular, and in 20 pereent. to bo irregular, In the creater mumber (fi) per cent.) the pulse is described as small, and in hy far the greater numher ( 81 per cent.) as compressible. Hence the ordinary pulse of the ok person may be said to he it, regular, emall, and compressible ; and this may be called the 'pulse of endurance. It molicates that the heart beits quictif and steadily, latter point, we find an absence of cridence of arterial disease noted in 72 per cent. ; in "21 per cent. they ate described as being sorthous,' and in 12 per cent only as being 'knotty. 1 am rather for I had supposed entend women are about equal in this respect, in the tissues to be more common in mer like degeneramen changes
The respiration, areraging about 21, is rather less frequent than might have heen expected, considering the liability to bronchitis, and the diminishing elasticity of the puimonary tissues and of the chest 'walls, which must, to a greater or less extent, form one of the senile changes; hut it accords with the observations that a comparatively good maintenance of elasticity is one of the features associnted with longevity; our tables indicate that the clasticity of the chest rall was fairly distinguishable in thout Moreorer, the chest measurement, areraging about was made. inspiration, and 35 in expiration, in the men, and 31 in ines in tion and 30 in expiration in the women, is a fair medium piraslowirs that. considering the time of life, the range of respiratory morement is well maintained. It is also to be noted that, in a large propartion, the roice is stated to be clear, !lond, and full, evidencing a sound condition, as well probally as a good development, nf the voeal apparatus, a point upon which sir Duncan (libb
is known to hare laid ints and
It is rery satisfactory to find that neariy a half are. reported to be of 'placid' disposition, and 45 per cent. to be still 'energetic' and lorisk, Whereas 17 per cent. only are sald to be rather 'irritable.' With regard to several it is noted that these qualitics are combined. Thas, some are stated to be 'placid' and 'encrgetic, the placid and energetic dispositions much predominate.

With regard to habits, 54 per cent. are stated to be 'active. and taking more or less out-of-donr excreise: 31 per cent. to he 'sedentary,' and 14 per cent. to be conflned to bed.' Thongh the last is rather a large number, it must be remembered that mnny ment of rest, which to the weary body is a real Iuxury The need for it is usually, in the first instance, caused by weakness, perhaps rhemmatic, in the lower limbs. These parts of the frame, which are the latest to he developed in size and strength, are the most prone to defect, disease, and debility. There is no doubt.
that in many cases confinement to bed leads t prolone that in many cases confinement to bed leads to prolongation of ration the inc organs essent ial to life of so muchnerre force its resertive energy as is economised by the diminntion of bodilv activity-
The greater number ( 60 per cent.) are 'modernte' eaters, 30 per cent. are 'smail' eaters, and 9 per cent: only are 'large' eaters. A fair proburtion ( 40 per cent.) are in the halit of taking a little alcohol, Whinh, in the form of beer, whisky, or branty, they feol to be a feel : and jerhaps this small cunantity, especially if taken many latter, purt of the day, dots some rent good. A smaller proportion take rather more, and are classed as 'moderate' drinkurs. A conciderahile number, however, 3f per cont., take none at all, and obsired (hat per cent.) are described as taking much. It is alsn food; 32 per cent. partake of it monderately: $: 3$ per cent. tak none at all: und 1.1 per cent only take it in consideruble quantity. It may eommonly be oharred that as jersons advance in years and 3lost of bur old reople are content with about three diminishes. We now and then meet with old perzons who eat ruther a day We now and then moct with old persons that it is necesaury so in onder to maintain their strenoth, and that the neud for long is indicated hy the sense of simking at the stomach which they experience. These instanees however are very exceptional and it is probahle that a small quantity of cod-liver oil, takell once or twice dally in a little wine or spirit, would rulleve the sense of sinking, and would promote dicestion and nutrition, and कo maintain strength in a safer and better manner tlina au extra and quickly swallowed amount of food.

## Repont on tue Past Life Mistony of Aged Peesong.

The following account of the past life history of aged persons is a sequel to the account of their present condition (see p. 511), and, like it, is taken from the analyses of the returns respecting 824 persons ( 432 men and 392 women) between the ages of 80 and 100 made upon the inquiry papers issued by the Collective Investigation Committee of the lissociation. ${ }^{5}$

It is worthy of remark that, of the 824 persons, nearly a fourth (2t per cent.) were 'first children,'s and at least 17 of the number were 'only children,' thongh the greater number were about the third or fourth in the family. In 196 instances, in which the ages of the fathers and mothers at the time of the birth of the children were ineluded in the returns, the average age of the fathers was 34 , and that of the mothers 32. This would indicate the age of about 30 to be, as we might expect, so far as the offfyring are concerned, the most farourable for child-producing. Five are stated to have been 'twins.' A gentleman of my acquaintance, himself a twin, married a twin, and has a large family of rery healthy children and several grandchildren, thus proving that the reproduetive as well as the enduring qualities may be fully possessed by twins.

Of the 335 who are stated to hare been married, the average age at which they married was 29, the average duration of their married life was forty-five years, and the arerage number of their children was six.

Of the 29.2 women who are, stated to have been married, the arerage age at which they married was 26 , the average duration of their married life was forty years, and the average number of their children was six. The shorter term of married life of the women as compared with that of the men is explained lyy the faet that men are, on the whole, somewhat shorter-lived than women, and also thit they marry at a rather atater age, the term of
the married life of the the married life of the woman being, therefore, curtailed by the earlier death of the men. Rot much information
his been has been given respecting the labours of the women; and it may, therefore, be probably inferred that they did not in most instanees present any very remarkable fatures. One womana is stated to
have had seevere flooding after a con finement have had severe flooding after a confinement at the age of 42, and to have rallied with difficulty. Two had many, mis-
carriages. In carriages. In the ease of one, each of her fourteen labours was by the aid of instruments, and most of the efiildren Were born dead. One had twin daughters, both of whom
Wore alive at the age of 56 , and had Were alive at the age of 56, and had large fanilies. Fifty-seren of the married women were childlass. .t. appears, therefore, that
longerity was about equally shlured by the sincle and the married longerity was about equally shared by the spmgile and the married, by those who had borne children and those who had not. At the
same time, among those who had children, fortility. Which means same time, among those who had ehildren, fortility, whieh means
sunndness and aetivity of the generative organs, is indicated to seurdness and antivity of the gen.
hava been an associate of longerity.
The granter proportion (s5e per cent.) of these old people had, lived in comfortable eireumstances, 3,5 per cent. had been 'poor,'
and 10 per cent. had then and 10 per cent. had been 'affluent.' The greater number had been of arerange stoutnesen or of spane habit. Ereater nember had
said to have been tidelicat per cent. are said to have been 'delicate', whereas $5 \pm$ per cent. are reported to
 alout 'arrerage, in this respect., inety per eent. had always enioyed good henth. In the eategory of 'good health' are com-
prised good diention
 cent., good appetite, which is noted ind 88 per cent., and good,
regular action of the bovels, which id Tegular action of the bowels, which had taken phace, and in most
Instances daily, in 85 per eent., oostiveness being noted as habitual instances daily, in 85 per eent,, ,
or frequent in only 10 per cent.
With reghrd to diet we finit that, the smallest proportion ( 15 per (cent.) Ihad been habitually 'large' eaters, 20 per centt. had been
 'arerage? in this respect. Five per cent. only had been in the lubbit of taking 'much 'animal food-that is, more than a pound If meat daily; 33 per cent. took 'little'- that is, less than half a pound; and 53 per entit. lad been accustomed to partake of it
 Eitteen per cent. had taken no nlochlolie drink at all throughouit $:$ he whole or great part of their lives, 40 per cent. had heen in the inbit of taking a hittle' -that is, less than a pint of beer or two Ihases of wine ; 33 per cent. had been accustomed to tnke it in
' moderation'-that is, one or two pints of beer daily; and less than 9 per cent. had taken more than this. The last number is composed chiefly of men wholived to hetween 80 and 90 ; with respect to the men between these ages, of whom there were $2 y 3$ returns under this head, it is to be observed that 15 per cent. appear to hare drank rather freely- 2 or more pints of beer daily-and 10 or 12 had drunk rather heavily for a portion or throughout the greater part of their lires. These exceptional cases scarcely detract from the value of the important confirmation whicli our tables afford of that which good sense suggests and which ordinary observation tells-namely, that abstinence from, or a spare or moderate partaking of alcoholic drinks, as well as spare or moderate eating, and spare or moderate meat-eating are most compatille with health and most condneire to the prolongation of life. In this respect the poor are at some adrantage as compared with the rich, for it is quite possible-indeed, very eass;, to hare too much of good things in the way of food, especially: when they are made agreeable to the palate; and out of the abundance of what is good mueh that is evil is likely to ensue. Persons are apt to forget that limitation in quantity in any article of food is one of the requisites for its wholesomeness and good nutritious effect, that what is wholesome in moderation becomes unwholesome when the bounds of moderation are exceeded, those bounds being set by the real requirements of the system, and the brisk, complete appiropriative powers of the stomach and nutritive organs; and they need the cantion, as I have elsewhere expressed, that, "the body quiekly" finds for idle food some mischief sure to
da." da."
A greater number and a wider range of statistics would be needed to give trustworthy information respecting the influence of different oecupations, modes of life, and places of dwelling apon the duration of life; but we find that by far the greater number ( 94 per cent.) of those included in our tables had been "active, persons, and had led actire lires, only 6 per cent. being described as 'sedentary,' The greater proportion ( 77 per cent.) of the men had been oecupied much out of doors; this being the case, as might be expected, to less extent ( 33 per cent.) with the women. Of several it is remarked that they were good walkers, athletes, sportsmen, etc. Nothing, perhaps, more surely than good enduring power in waiking, running, or similar exercise, indicates that soundness of frame and nutritive energy and good balance of organs which lead to longevity. Moreover, the opportunity for nutrition to do its restorative work was in nearly all prorided by the faculty of 'good sleeping.' to Whiel was commonly added its priate attendant' for 'good' sleeping is, for the most "appropriate attendant' for 'good' sleeping is, for the most part done in sleep is done briskly and well. Good sleepers, in the prime of life, do not usually sleep very long, especially when they are well and actively aud happily employed during the day; and we are sometimes surprised at the small amount of sleep whiel thase wha are actively employed seem to require, the fact being that activity and energy of the will and the volitional system induce activity and energy in the sleeping or restorative operations, and, conrersely, a dawdling day is commonly followed by dawdling sleep or drowsiness at night. When we speak of early rising. it must be observed that the word 'early' has a relative signitieance with reference to the time of going to bed. A person who retires to rest four hours after midnight and gets upat 10 A.M., may be strictly regarded as an 'early riser.'
As we found in the case of centenarians with regard to the hair, so in the old people we are considering it held its ground and its colour well, the proportion of those who were bald 'carly' leping about 26 per cent., whereas those in whom it was noted that this had net taken place amounted to $7^{2} 2$ per cent. Those who were grey ' early" are 24 per cent., whereas in 75 per cent. this change is said to have been "late.'
Sixty-nine per cent. had heen of 'energetic' temperament, giving us the satisfaction of finding energy thus associated with the qualities that promote longevity, and that good working and govd wearing qualities are commonly linked together. Thirtysix per cent. are reported to hare been of 'placid' temperament, and 13 per cent. to have come under the designation of 'irritable.' In a few ( 5 per cent.) only is the intelleet described as laring been 'low: "in 21 per cent. it is said to hare been 'high: and 73 per cent. are said to hare possessed an 'average' amount of intelligence.

It may seem somewhat romarkable that nearly one-half had suffered illnesses, more or less severe, at some period or periods of

Life. Of theso illnesses many were cansed hy some external iuthences or poisons, sheb as those of fover, small-pox, or scarlatinn, and they therefore had no special relation to weakness, disorder. or defeet in the bedy. Though atten direetly destructive of life aud seriously damaging to organs, they do not infrequently, even when severe, pass away like a cloud and leare the body quite unscathed, the only reaaining vestige of incomplete recovery, that is, of incomplote restoration to the previous condition, being perhaps the change. what over it be, which renders the syentem insensible to the inlluence of the poison, and so confers an immuity from the recurrence of the particular disease. Moreover, certuin local inflammatory affections, those of the lungs, for instance, and somo other parts, erysipelas, and a variety of affections, are in like manner engeudered by. or attributshle to, poisonous or malarial agencies introduced from without, while some, of which gout may be taken as a type, are the result of noxious materials eugendered within the body. Whatever view muy be taken of the cunses and nature of the illnesses which had been undergone by these old penplu-and they were of various kinds-it is interesting to learn that in so many instances ilmess though severe, did not prevent the sufferer from reaching old age. Duubtlees the qualities which lead to old age are those which lost promote complete recovery from illness as well as complete nutritive reparation nader ather circumstances ; and, in relation to this subject, I may refer, especinlly with regard to affections of the nervols system, to the remarks on the Maladies of Old People, in the Jocrssal of July soth, lss7.

The minor ailments with which a small proportion had been troubled at various periods in their lives may not have been altogether without their compensating advaitages, forasmuch as these disorders not infrequently clear away slight accumulntions of ovil which would otherwise have increased and festered iuto graver maladius. Theso ailments, moreorer, often serve as kindly. warnings against indiscretions and exposures which, if continued, might prove disastrous. Though it is better not to crr at all, it is a saving thing to be stopped or recalled in time. Thirtynine of the whole number ( $8: 24$ ) had suffered occasional attacks of bronchitis: 41 had been troubled with dyspepsia: and 30 with rheumatism. A fer gare accounts of skin-eruptions-eczema or psoriasis-more or less troublesome; others of gont, varix, or sore leg; but 72 per cent. appear to have passed their lives in freedom from these and other maladies. Our statisties, therefore, are confirmatory of the view that tho qualities which lead to old age are those which for the most part give immunity from ailment and diseser, and also promote recovery from them when they occur.
With regard to family history, this subject has been so much dwolt upon and so worked nat in connection with life-insurance that little remains to be suid. In many of our cases no sufficient information respecting it could he obtained. Still, 406 are reported to hase belonged to long-lived families, those only being included in this number in the case of whom four of the immediste relatives (grandparents, parents, frothers, or sisters) had attained to the age of 70 , or thrue to the age of 80 . In six instances the families ure stated to have beren "whort-liven."

In 36 instances, in which returns on blood-relationship are given, it is stated that none such existel between the grandpareuts or between the parents in 3iz. In four instances the grandparents were said to have her $n$ cousins; and in six instances the parents are said to bave heen cousins: and it is proballe that in all these the relationship was that of first cousin. I do not know the jropartion which the marriages of consins lear to those in which no auch relationship exists, or what is the numerical proportion of the children of consins to the population gelnerally: but the fact that 10 out of $33 \%$, with respect of whom a return on this point was made, or rather more than 2.7 , per cent., Tere the children of consins, vecens to place the offspring of consins in a very fair position with rugard to the prospects of longevity.

The resulta of this collective investigation resplecting aged people hare not been to erohye anything very novel or atartling. or to givo rise to any fresh thenriss with regard to longevity and the means of attaining it. but rather to dissipate certuin ideas which are more or lesa current though foundol upon too limited haservation, and to slinw that the maxims and haws which common sense and soumel remson would dictate hold goobl, and that, ss a general rule, those fersons live the lougest who might be exImeted to do so so. Thus:-

The prime r"quisite is the faculty of age in the blood ly inheritance; in other words, that the body has luen wound up, as heritance: in other words, that the budy has lasen woumd up, as
it were, and sent into the world with the initial force mecessary
to carry on the living processes through a long period, that this is the case with every organ, and that the severn organs are so adjusted to one another as to form a well-hahancel whole. The various functions will then be equatly and harmonionsly gerformed, and there will. consempently, thronghout life, be little cognisance of imperfection ar aiment of any kind.
2. The boly is usually well developed, and though there are many exceptions to this, rather exceeds the average standard of plete rest is capuble of much endurance and of quick nul compf, and probubly ther fatigue, this latter faculty giving the liabit associated a stood power of recovery from the disturbances also is by accident or disease. The cerebiral or intellectial powers accord with the general good quality, and the whole nerrous sy'stem is active and "nergetic without being lritable.
3. Owing to the inhermit good cuality of the intritive processes, those degencrative changes which, in advancing. years, hlways more or less diminish the elasticity of the arterial coute and of other parts, ure slow to nceur, so that the pulse retains, in gieat measure, its sofness and the thorax its vital capacity, while stiffness of limb and general feebleness are late in their manifestation. The decadence of the teeth, which in the animal world generally sounds a death-knell, inasmuch $u$ it deprives the body of the means of obtaining its subsistence, does not seem 10 augur much in the case of civilised man, to whom the teeth are less directly needed for his maintenance, while another cuticular appendage, the hair, seems to share, to some extent, the enduring quality of the rest of the system.
4. To this nat urallong-liveduess must he added the fairopportumities for the career of the borly through the ascending and descemiing stsges of the course ussigned to it : that course will not be exceeded, but it may be, and usually is, curtailed. Inleed, as we know, eren in those ndowed with the greatest perfection of physique, the naturs life-periox is, owing to a variety of circumstances more or less unfncourably and often umavoidable, rarely completed, and the normal processes of decay and dissolution are seldom allowed to have their regular course. In the domain of Sature, as 1 have said on a former occasion, these processes are not suffered to adrance very far, for the simple reason that the to to some one of the rarions methods of killing which may hence be
said to cone fuences of civile the natural manner of death. Under the saving ining is modified, that which most contributes to the prolongationof life and the consummation of the inherited period, is sitemperance in ull things," especially in eating and drinking, and abore all in alcoholic drinking, mind to a large extent also in meateating. If the world did but realise, and would have the giod sensu and self-restraint to act upon the knowlelge, how large a proportion of the ills to which man is regarded as the heir'to, and Which are therefore looked umon as inevitahle, are sinply the re-
sult of exces in eating and drinking, a large adatition made to the are made to the average term of human lifr and health, as well ats a
large econony in the consmmption of the materials- the fond stuffe-hy which life is sustuined. This saving would pre fondmore than compensate for the additional requirement made hy the addition to life. Under the term "excesses" must especiply the included those small day-by-day sujerlluities which attract little attention and are thonght lit tle of, but the insinuating evil of which uccumulates surely, inducing ofton, in the first instance, a scrnse of weakness which is thought to imply a need for mone of that fond or stimulus which is the cause of the weaknese, and which gradunlly sows the seeds of disease that is attributed probably to some other canse. "Temperance" is the great lesson under this head which our tables teach; and its importance doprshadowing all others is a renson for not diverting attention from it by menlioning them.
. To the reovering power-the goos and often' the quick recorering jower-of the aged after operations, fractures and other accidents, ulcers, inflanmatory and other affectiohs, nianlesteal in many of the returns, I have alrealy, and perhapas sufficiently, directed attentinn (sen the Jormsit, July leth, 1884, December
 wations, many cases have heen published in the Jounval and cloowhere, and others hare been privately communicated to me by medieal men living in varinus parts of the kingdom.
f. Our returns give general evidence of the comfort and happiness of old age. Indeed, when the body remains sommd, and When the aspirations are, as commonly is the casc, toned into re-
lation with its diminishing capabilities, when the surronndings are favourable, and the mind, freed from the struggle of the world, can enjoy calm reflection on the past and the future, and by a genial sympathy with others can fulfil the mission which remains to it lere of promioting peace on earth and good will among men, the declining days are often the liappiest ones of the long life. Finally, when the elerelopmental processes have carried the body through the stages of its allotted span, the gradually thinning thread of life yields without a snap, and the aged one passes contentedly and gently amay.
I cannot cluse this report withont hearing testimony to the comfort and kindness which the old people receive in the various union houses that 1 have visited. They are well fed, kept warm and free from exposures, walk out when they can, and lie in bed when it suits them to do so, and great attention is paid to their cleanliness. It was obvious that mutual attachment had grown up, in most instances, betreen them and the master and mistress the house and the medical and other attendants. It wonld, I think, tend to soothe the feelings of the unwilling ratepayer if he oceasionally visited the poor-louse and witnessed the comfort which the aged and infirm are deriving from that largest charity ever known-the Einglish poor-lew - system-to which lie contributes.

Anatyses of Returns respecting the Present Condition
and Past History of persons between eighty AND A HUNDRED SEATS OLD.
For the following analyses of the returns respecting the present condition, including the habits and circumstances, and the past history, iucluding the family history, of $82 \pm$ persons between the ages of 80 and 100 , we are indebted to A. Francis, M.R.C.S., who also assisted me in collecting the tables from which the analyses were made. I do not publish the tables, because they are long, the printing would he costly, and the analyses are sufficient.
Of these persons, 310 were males and as were females, between the ages of 80 and 90 ; and 92 were males and 110 were females between the ages of 90 and 100 .

## No. 1.

Analysis of Returas Relating to' l'resent Condition, Habits, Circomstances, etc.
(MAIEES, 80 to 90.340 Returns.)
Single: Marriti: Midowed.-335 returns; S. 36, 3I. 80, W. 219.

Affluent : Comfortable: Poor. -337 returns; A. 40, C. 138, . 159.
Fat: Spare: Average. 333 returns ; F. 37 , S. IIt, A. 18.2.
Full,-BLOOLED: I'ALE: AVERAGE-32I returns; F. 54, P. 57 , A. 210.

STTONG: l'EEBLE : AYERAGE.- 329 retıuns; S. $106, F .100$, A. 123.

Ileigut.-313 returus ; average, a little over 5 feet 7 inches.
Weigut.-188 returns ; arerage, a little over 11 stone.
FigURE- 299 returus; erect 198 , bent 101.
VoICE, -325 returns. Weak, 31 ; loud, 57 ; clear, 81 ; full, I6; oud and clear, 77 ; clear and full, 44 ; clear and weak, I ; loud and ;ull, 7 ; loud, clear, and full, 1.
Síirt- -267 returns; good, 22t; cataracts (both sides), 19 ; :ataract (one side), 3 ; faiture of sight, apparently independent of preshyopia, 21; one of them harl been "blind for ten years," and me liad had "opatue cormex for twenty years."
Grasses.-259 returns; none, 42 ; one of these used them fornerly; 217 usted glasses. In some of them the number of years luring which glasses had been used was given: "All life,"3; "many cears," 17 ; "occasionally," 1 ; "for small print," 1 ; "not long,". 1 ; " none till 80, " 1 ; 1 year or less, 3 ; 2 to 3 years, $11 ; 4$ to 5 years, $3 ; 6$ to $\overline{3}$ years, $10 ; 8$ to 10 years, $20 ; 12$ to 15 years, $20 ; 16$ to 0 years, 39 ; 21 to 25 yeurs, $6 ; 26$ to 30 years, $23 ; 31$ to 35 years, ; 36 to 40 yeurs, 19 ; 41 to ho years, $4: 46$ to 50 yenrs, 7 ; 6: jears, ; 65 years, 1.
IIs.ARING.-329 returns; gool, 188 ; indifferent, 98 ; liad, 43.
Jornts. -330 returns; natural, 287 ; stift, 17 ; deformed, 15 ; stiff ad deformed, 9: Dupuytren's contraction, 2.
Digestion. - 337 returns ; good, 253 ; moderate, 72 ; bad, 12.
APPEIITE.-335 returns; guol, 204; moderate, $95 ;$ bad, 16.
Eater.- 320 returns; large, 24 ; moderate, 211 ; small, 85.
NएMBEIR of MeALS.-275 returns; arerage rather orer three aily.
Alcomol -320 returus; noné, $I 20$; little, $1: 20$; moderate, 67 ;
much, 13 ; one of these took three glasses of mine and lyalf an ounce of spirits.

ANIMAL FUOD,-304 returns; none, 9 ; little, 182 ; moderate, $10 \%$; much, 4.

BowEL尺.-313 returns; daily, 219; alternately, 23; irregular. 68 ; relaxed, 1 ; costive, I; 3 to 4 times daily, 1.

ApERIENTS. - 94 returns; nerer, 85; occasionally, l; rarely, I49; frequently, 59.

Disposition,- 328 returns; placid, $1 \not 10$; irritable, 33 ; lethargic, 7 ; energetic, 100 ; placid and lethargic, 6; placid and energetic, 25 : irritable and energetic, 17.

Intellect. -322 returns; high, 55 ; \&verage, 242 ; low, 2.
Ilemory.-Past Euents. 307 returns; good, 253; moderate, 34 ; bad, 20. Recent Events.-260 returns; good, 166; moderate, 56; bad, 38.

IlABITs. -327 returns; active, 202 ; sedentary, 93 ; one of these "could work, but for deafness;" bedridden, $3{ }^{\circ}$; of these", on" for 5 weeks, $t$ wo for 6 months, one for 5 years.

OET-OF-DOOR ExERCISE. 306 returns; none, 45 (including 32 who were bedridden); little, 8I ; moderate, G5; of these one works still; short walks, 44 ; much, 7 I ; of thesé one "in river daily". "two still work," one "Worked until stopped by sin acciderit $\&$ manths ago," one "gardens," one "walks much," three "walk 3 miles," one "walks for 2 hours," one "walks and rides," two "walk 8 to 10 miles," one "walks 12 miles a day," troo "hunt," oze of them twice a week.

SceEp.-326 returns; good, 230 ; moderate, 78 ; had. 18. ber of Hours. 213 returns; arerage, $7 \frac{2}{3}$ hours. Hour of Goiny. to Bed--275 returns; average, about $90^{\circ}$ clock. Huur of lising.271 returns; average, about 7.10 A.M.

Chest-Girth min lispination. - IG7 returns; average, little over 36 inches.

CHEST-GIRTH IN ExpIRstion. - 167 returas; average, little over 35 inches. Only those cases are here inchuded in which the chest-girth both in expiration and in inspiration were returned. :

Elasticity of Rib Cartilages.-209 returns; distinct. 106 ; indistinct, 103.

Pulse. 280 returns; average, about if per minute. This arerage is rather high, owing to the frequent occurrence of chest-1 affections; a large number had pulse-rate below oo per mimute. Regular, Irregular--262 returns; R. 201, I. 61. Large, Small.237 returns; L. 111, S. I26. Compresible, Incumpressible.-261 returns: C. 208, 1. 53.

ARTERIES, 2i2 Teturns; eveu, 144 : visible, 3 : tortuous, 19 ; tortuous and even, 9 ; tortuous and visible, 20 ; visible and even, 22; tortnous, visible, and even, 2; knotty, 12; visible and knotty. 6 ; tortuous and knotty, 7 ; tortuous, visible, and knotty. \&. So that they were even in 177 cases, knotty in 29 cases, riville in 61 cases, tortuous in 61 cases.

Respirition:-Number, 237 returns, Average, 20 to :21 per minute. The average is high, owing to the frequent accurrence of chest affections. Reqular, Irregular.-252 returns. I., 2q2. 1. 10.

Arcts Sentur.- 266 returns. Absent, 94 ; little, 98 ; much. 74 one of these had had arcus senilis since 41 years of age.

TEETH. 300 returns; areruge about 6 each; but $8 \overline{7}$ had no teeth, and one of these not for 20 years. In $2 \times 2$ cases the teeth we ro specified. Llper incisors, 235 ; canines, 147 ; molars, 243 ; lomer incisors, 438 ; camines, 221 ; molurs, 330 .

Antificial Teeth.- 195 returns. 158 did not use them. and of these $\mathbf{4 6}$ had not any teeth, and one had not had any tect h for sid) yeuss, another not for 30 rears; besides these $4 \dot{6}$ ca-es, nany others had very few teetlr. 37 used artificial teeth: for many years, $3 ; 35$ years $1 ; 32$ vears, $1 ; 30$ years, $2 ; 2$ vears, 1 ; نU years, $10 ; 17$ years, $1 ; 15$ years, $4 ; 12$ yeurs, $I$; I0 years, e; ! years, 1 ; 6 years, $2: 4$ years, 2 " "yes, 3 .

Evinencis of Faillere- 285 returns. Nome, I02; heart. 16: lieart and lungs, $5:$ heart, lungs and brain, 1 ; heart, lungs, and urinary orgains, 4 ; heart, brain, and urinary organs, I; heari and urinary organs, 12; heart, lungs, brain, and urinary organs, 3: lungs, 9 ; lumgs and brain, - : lungs and urinary organs. 18 : brain, 11 ; brain and urinary organs, 7 ; urinary orghns. if. In 2n cases the heart-sounds are returned as "normal."

So that the heart was affected in $\mathrm{t}_{2}$ cases, the lung: in $\mathrm{B}_{-}$cases, the brain in 25 cases, the urinary organs in 119 cases. In the case of the uriuary organs the failure was in many casts very slight, not affecting the general health (viele Micturition).
 occasionally; slow, 56 ; incontinener, 7 ; one of thest "for years,' one for 3 montla, and one "nocturn ll;" quick, l; dificui. :

Whow and dimpult, 11 , me of them "for 30 years," unother used a cathe ter twice daily; difficult and painful, $1 ;$ frequent and puinfinl. : : shar and frequent, $t$ : frepuent and incontinemer, 1 ; slow and painful, $\because$ : slow, ditlicult, and painful, 2 ; catheterised, $f$, of Ihere, one twice daty, one + times daily, one 6 times dally, one for S years, nne daily for 40 yenrs (vide Present Maladies).
IJRSEAT Maladies, - The returns are very incomplete; in many cates only symptoms have been returned, in others failure of mine organ was retarned, but the mature of the failure was not stafmi: in hardly any cases have detnils of the maludy been given; ther maladies have therefore heen grouped in relation to the organ which aplueared most affected.

2̈² returns ; none, $80 .^{0}$.
Bronchitis- 43 eases; 1 frequently, 1 necasiomally: 9 chronic, anil mu of these for 2 years. Asthma.- 3 eases; 1 clironic. Cough. - cans. Dyspmnea.-4 eases. Emphysema.-8 Cases; one for ${ }^{-2}$ yeara. Congestion of Lrengs.- 3 cases: 1 died. Pneumonia.- 1 case: ilicd. Chronic Naso-pharyngeal Catarh.-1 case.

Dedility.--2 eases; one for 6 months. Weak Heart.- 12 eases, 1 witl grdulines and fainting. Syncope- 1 ease, occasionally, Fertigo. -1 case. I'alpitations.- 2 eases; one occasional and serch or 2 n years. Dilated $R$, ILeart. -1 case. Murmurs. -7 casm: one or - years; srstolic at base in 2, mitral in 2 (in one of Herrt.--2 coses: in l eror fourth beat, in the other ocensionally. Ancmia-1 ease, for a year.
Dyrpepsia.-5 cases. Diarrheca.-6 cases; two oecasionally, me for 3 months, oue for 16 years, one for 4 days, with death. liles.-a cases. Fistula.-one case for 30 years. Prolapsus Ani--- cases: one for 15 years. Enlarged Liver.- 1 case. Hernia.Mernin. - 1 \% cases: 1 double, 1 large, one large for 1 :2 years, one lurge for 30 year, one for 50 years, one for 60 years. Umbilical IIernin.-1 case. IIealaches.-1 case.
Enlargen Prostate.-11 cases; 1 for several years, three for 2,3 , and 4 year respectirely, and one gives less trouble now than formerly. (ystith.-2 cases; 1 died. Pus in Urine.-1 case. Irritahle Blanliter. 4 eases; one for 18 months, 1 for a fetw years. Atany of Eladler.-2 cases. Gravel.-1 case. Hlamaturia.- 3 rases: I oceasinnally prostatic, 1 three attacks in last 6 months. Rheumatim. 19 cases ; one for 12 months, one of hip for 4 years. Scintica.-4 eases. Lumbago.-1 case. Gout.-7 cases : 1 of tham in font. Pains in Bones.-1 cise. Lame.-1 case.

Paralyais Agitans.-3 cases. Delusions.-1 case. Mental 1) pression.-1 case. Insane.-1 case for 60 years. Epileptic Fits. -1 case recently, 1 fit every " months. Occasional Fits.- 1 ease
irmil "brain encestion." Cerehral Hcenwrrhane. 4 cases, all irmil "rain congestion." Cerohral Hen Partial Hemiplegia.In cases, one for 13 months, one for 4 years. Paralysis of Face and Tivice- 1 ease for 6 months.

I:pithrliomn.-5 cases; three of lip ; in one of these remored at 81. wonnel heated ly first intention; one of finger, remored; one of ponis and propuce, nperated on two months aro. Fodent Can-cer.-1 case, of far. Nasal Polypi.-1 case. Fibrous Tumnur.-1, chin, size of hen's egg, over orbit, removed at 81 after 3 years' duration. Sarcoma.-1 case of choulder, 15 months duration, incrua-ing rapidly, with little effect on general health.

Gelema of Legss- 5 cases, one for 14 weoks, Enlarged Legs.1 caac, hard and brawny. Inflamerl Legs.- 1 case. Sore Leeg.-1 casm. V"aricose Ulcers.- 4 cases: one for 6 months, ono for 2 ypara, one for 20 years, now healing: one for 6 years. Eczema.-- crans; one of anklo, one for 5 years. P?soriasis.- 1 case. Jupus. -1 ease from stroke of whip. Bedsores.-1 case. Senile Ciangrene. -4 cases, one of these of too. Ophthamin.-" 4 days feverish illness."

Fracture of Femur.-2 cases, one "impacted, one month ago."
No. 11.
Sillesis of Retithes Relatisa to Past Histony inciuding Family history.
(Malif: 80 to ${ }^{2} 0$.)
1 gr zhen Married. -273 returns. Averago a li the over 23 year3 "If Honcion of Married Life-ob( returns Arerage about 433 Jimation of Maried Ji̊ Venra. Nimher of Chilhren.-299 returns; arerage ab out 6 each, but 34 hallun chilidrea.

Affuent, Gomfortable, Puor.-326 returns: A. 33, C. 100, I. 103
lirst or -Child of P'arents.- 303 returns; avorage 3 ril to th child. In 50 . oases the number in the family was also given; in these the average pasition was and to 3rd child, and the average number in the family was fitu 7 children; Fo were "1st child," and of these 10 at least were "only clikit:" one of theu was a twin. his twin sister clying at age of 6 months; another had twins, who were both alive at 56 years of age.
Fat, Spare, Average- 317 returns: F. 60, S. 100; average, 148 Delicnte, Riobust. A cerage.-311 returns; D. 12, R. 189. A. 110. Thalth, Good, Moderatc.-315 returns; G. 304, 31. 11. Often, Rarely, Ailing,-1t returns; 0. 7, R. 7 .
Dhigestion- 325 returns ; gnod, 307 ; indifferent, 17 ; bad, 1.
bowels.- 307 returns; goad (daily) 266 ; irregular, 12 ; costive, 25 ; relaxed, 4.
Baklness.-191 returns; carly. 55; late, 135; not bali, 1.
Greyness-248 returns ; early, 58 ; late, 189; not grey, 1.
Disposition.-308 returns; plaeid, 95 ; irritable, 19; lethargic, 2 : energetie, 133 ; placid and energetic, 35 ; placid and lethargic, 2 ; irritable and encrgetic, 19.

Intellect.-308 returns; high, 65; low, 16 ; arerage, 221.
Itabits. -308 returns ; active, 293 ; sedentary, 15.
Out-of-Door Exercise.- 298 returns: little, 31 ; of these one "conld walk 50 miles," and one "always warked indoors;" moderate, 39; one of these travelied much in Germany and America; much, 2.88 ; of these 13 were great walkers, 1 walked 20 to 30 miles a day, one " 30 miles on 4 days a week," oue 5 to 20 miles daty, one " 50 miles, many a day;" two 10 miles daily Besides these, six had much walking, riding, or driving, or worked hard; one was an "athlete, walked 20 miles;" one "great athlete, runner, and jumper;" two were pugilists; one "active in
boyish and manly exereises:" one " much huntiug;" one "liunt ing since 8 manly exereises: "hunting and shooting all his life." "ne "ng since 8 years old; "one "hunting nind shooting all his life; "one for 50 years;" one "led an irregular gipsy life:" one was at soa: one " much exposed in India for over 25 years: " one was "engaged in whaling, and in India, leading an adventurous life."
llours in Bed.- 243 returns. Average.-Nearly 8 hours.
Hour of lising. - 253 returns. Average. - A little before 6 a.3s. Steeper.-311 returns. Good. 278 ; average, 26 ; bad, 7.
Appritite.- 295 returns. Good, 289 : indifferent, 6.
Eater.-30ă returns. Large, 52; average, 194; small, 59.
Alcomol.- 298 returns. None-- 23 ; besides these, one "never till 30," and another "none after 60," Little.- (under 1 pint) 05 ; of these, one took a quarter and one hali a pint of beer daily. Mode-
rate ( 1 to 2 pints). 112 ; of these porter daily, one 4 glasses of wine, one half a pint of claret beer or an abstainer till 40 , one "little in early life," one "muely in carly life," one took a litle rum, one had "tendency to drink," one "much at times," one "did not take alcohol daily, but oceasionally to excess; 4 pints of beer made him tipsy." Much (more than 2 pints). 45 ; of these, two were "free livers," two " much beer, free livers," one "rery unch beer," one " much beer regularly," two 2 to 3 pints of beer, one " 2 to 4 pints of beer all his life," one 4 pints of beer daily, one 6 pints of beer often, three 3 to 5 pints of in early life," one "heavz drinker, able to stand large quantitios, one " much of all kinds," one "much port," one "three-fourths of a hattle of Marsala for years," one "often drunk," one "freely never too much," one took 5 ounces of rum daily, one "a piat and亿 half of wine and spirits daily for years," one "three glassas of whisky aud wine," one " 6 ounces of whisky," one "drank all he could get," three "much when they could get till one was a pin-" one "took 6 pints of beer and much spirits, was a grant drinker till 6 years ago, never went to bed sober if he could get leer." one "often drank a hottle of rum before breakfast when in tustralia."

Animal Food- 272 returns. None, -1 . Little (under half a pound). $\mathbf{- 1 0 7}$; one of these was "almost a regetarian." Moderate (laif a pound to a pound).-143. Much (more than 1 jounl).-21.
 " 40 years ago, serere," one "a year ago," and nine at $16,20,20$, 34, 35, 40, 40, 50, and 74 respectively. Typhus Pever.- 16 cases and 46 respectively, one in 1827 , one at 40 , sovere, two 40 and in years non respectively, Typhoid Fever. -8 cases; two severe at $2-1$ and 67 respectively, five at $15,+10,50,55$, and 60 respectively Iellow F'ever.-1 case, t wice. Scarlet Fever.-S cases; one "young,"
four at 18,40 , and 40 , severe, and 65 , severe. Influenza. -1 case, at 50. Whooping-cough.-1 case, at 56. Simall-pox.-9 cases; one in childhood, one slightly, one at 16 , severe, one at 74 , one "confluent at 19," one 77 years ago, one twice, one "in 1825 after vaccinia." African Fever.- 1 case.

Ague. -5 cases; one "prolonged at 20, " in three at 40,44 , and 68 .
Intermittent Fezer.-1 case. Erysipelas.-5 cases; one "of leg oftcn," one at 81 recovered, one severe 50 years ago. Cellulitis.2 cases; one at 82 with incisions, one three times at 65,75 , and 80 .

Cholera. - 3 cases, one at 30. Dysentery.- 2 cases, one at 82, one in 1883. Syphilis.- 1 case. Carbuncle.- - cases, one had two, one 20 yeurs ago, three at 60,74 , and 75 , the last with incisions and quick recorery.

Brain Fever--2 cases at 30 and 46. Sunstroke.-1 case at 50. Adder Dite.-1 case.
"Cerebral Affection."-1 case, 30 years ago. Rheumatic Fever. -14 cases, two " young," two 30 and 40 years ago, nine at 20,34 , 40 , serere; 42, scvere, with complete recovery; $45,58,60,63$, and 65. Chorea.- 1 case. Rheumatism.-6 cases, one twice, one 12 years ago, one for 12 years. Rheumatic Gout. -1 case at 37 . Gout. - 10 cases, one occasionally, one frequently, one frequently for 10 years, one for 17 years, one since 21 years old, chalk stones in fingers. Sciatica.-3 cases, one at 69. Lumbago.-1 case. Neuralyia. -3 cuses; one at 55 , one in legs with insonnia at 55 , with issues for 8 years.- Rhemutic Iritis.-1 case, 25 years ago. Lithotomy:-1 case, 15 jears ago, remoral of large uric acid calculus. Lithotrity, 1 case, 24 years ago. Lithuria.-1 case. Renal Colic.-1 case, 50 years ago.

Hematemesis. -1 case. Jaundice. -3 cases; one at 84 severe, one at 81 recovered. Gall-stones.-4 cases; one for 34 years. Hepatic Abscess.-1 case bursting into colon at 43 . Hepatitis.- 2 cases, in one two attacks at 30 and 35. Bilious Attachs. 1 case occasionally: Mepatic Congestion.-1 case occasionally. Colic.2 cases; one severe a year ago. Dropsy. -1 case, 5 years ago, tapped 6 quarts, recovered. Diarhea.- 1 case at 85 . Typhlitis. -1 case at 40. Inflemmation of Bowels.-2 cases, one' at 21.
Hematuria. - 1 case, 3 attacks in 6 months. Aibuminuria.- 2 cnses; one 4 years ago, one 1 year ago for a few days. Irritablc Bladder.-2 cases; one a few years ago, one from 50 to 60 . Retention. -1 case, catheterised twice daily for one month, with recovery. Difficult Micturition. -1 case at 68 , catheterised then and occasionally since. Disease of Blander and Prostate.-1 case, severe, from 72 to 78 , now quite well. Stricture.-1 case when young.
Diseased IHip. -1 case in infancy, lame. Syncope. -1 case at 74 . Bled.-2 cases; one for illness at 40, one for transfusion. Eynistaxis. -2 cases; severe at 30 and 73 ; one was thought to be dying 15 years ago. Fistula.-1 case 50 years ago. Sarcoma of Eye.- 1 case. Alscess., 4 cases; one of thigll 50 years ago, one " strumans when young;" one of "shonlder at 76 , recorery;" one in "side, at 30 in bed 8 weeks."
Bronchitis. -23 cases; one "severe," three severe at 47,60 , and 84 ; two at 65 ani 68 ; four 6 months, 6 months, 10 years, and 17 years ago; one "several attacks since 80 ;" one " 3 attacks severe, with recovery at 50,83 , and 84 ;", one " 5 acute attacks in successive winters from 77 to 82 years;" one "two attacks at 50 aud 75 ;" "ne "screral severe attacks;" one "serere 2 years ago, recorery." Broncho-mextmonia.- 1 case at 82 , recorery. (Edema of Lungs.- 1 case. Asthma.- 1 case for 10 years. Pulmonary Congestion. 2 cases, at 30 and in $18 \overline{0}$ respectively. Bronchitio and Pleuro-pneumonia.-1 case, three times in last 7 years, last at 84, good recosery. Pheumonia. - 4 cases, one "two attacks at 45 and 50 ", one severe 10 Jears ayo, two at 66 and 99 . Pneumonia and Pleurisy. -1 case at 78 . Pleurisy. -6 cases ; five at 16 , severe, 28, 60, 12.82 resplectively. Phthisis.- 3 cases; tro hal "slight symptoms when young:" a third had "hiemoptysis at 40, in bed 8 weeks;" one was "delicute in early life;" one liad "breakdown from anxiety, with diplopia and intermittent pulse at 64. with recorcry;" one had "irregular leart 10 years ago, from study ; recorering with change."
Epilepsy.-2 cases; one 20 to 30 , fits in last two years, frilure of memory. Insane. - 1 ense. Apoplexy and Paratysis,-16 cass ;
one " 20 years aso one "20 years ago. partial paralysis of right arm for 5 years, recorery:" one "in 1850 , with right hemiplegia;" one "convulsions on right side with unconsciousness, a year ago with recovery :" one "tit at 79 , with hemiplegia, complete recovery except of voice;" one "hemiplegia a year ago," one "left hemiplegia at 76. ."
one " 3 attacks at 82 , 85 , nud 86 ;" one "parulysis at $65 \%$ " one $" 3$ attacks at 82.25 , and $86 ;$ ", one "parulysis at 65 ;" one
"slimht stroke at 85 , slight
lately, weak after;" one "paralysis of both legs and left arm. not unconscions, quite recovered ;" one "paralysis at 84, partial reco"ry, died of aloplexy ;" one "hemiplegia at 45, recovers:" one "hemiplegia at 84, nearly recovered;" one "right hemiplegia and aphonia at 84, recovered." Comgestiom of Brain. -1 case at 62.
Slight Ailments.- 256 returns; none, 156.
Bronchitis.-16 cases; one "several times," four chronic. Cough.-2 cases; one frcquently. Catarrh. -1 case. Asthma. -1 case, 28 years.
Dyspepsia.-16 cases; one lately, one at io, recovery. Eilious Attacks.-3 cases. Criddiness. -2 cases; one occasionully. one "after meals." Fiatulence.-1 case. Gall-stones.-1 case. "Patpi-tatioms.-3 cases; one occasionally, one "for 20 years."
Headaches.- 3 cases; of these one "sick headaches every 3 months," one "sick headaches frequently." Constipation.- 4 cases.
Diarrhea. -8 cases; one "in summer," two occasionally, one has "tendency to diarrhcea," one "for 15 years, since injury to abdomen." 1 iles. -3 cases. Epistaxis. -1 case.
Rheumatism.- 16 cases; one at 6\&, one "lately, in hed 3 months." Gout.-7 cases ; one slight, one annually for en years, two occasionally. Sciatica.-2 cases. Neuralyia.-1 case. An-gina.-1 case rarely.
Ague.-1 case. Orchitis. -1 case occasionally. Hernia.-6 cases ; one double, one "from infancy," one for 30 years, one ". inguinal," ne "right inguinal," and one "inguinal for 30 years."
Difficult Micturition.-1 case, few years ago, from stricture.
Ecema.- 7 cases; one " of legs," one at 46 , one " 30 rears of leg," two for 2 and 4 years, one "grocer's eczema all his life till lately." Psoriasis.-1 case, alternating with asthma. Tari.,-1 case, many years. Ulcer of Leg.-4 cases; one " 20 rears. now healed," one "for 30 years," one "from 60 to 80 , now healed," one was "ailing till 50 ," one had "feeble childhood and youth, heaith and appetite better after 80."
Accidents. - 175 returns. None, 128.
Concussion of Brain. -3 cases; two at 62 and 70 ; the third "four times, was bled each time." Spinal Concussion.-1 case at 34. Severe Raitucy Accident.- one case at 5 5. Knoched Down1 case at $\overline{6}$. Serere Fall.-1 case, three weeks ago, scalp wound healed rapidly. Run Over. -1 case, by a cab at 80. Serere Bruising. -1 case at 64 . Kick on Head. -1 case when young. large depression of right frontal bone. Fracture of skutl.-1 case at 49. Injury to Chest.- 1 case at 16, with repeated hemoytysis and venesection. Injured Abdomen.-15 years ago, diarricea since.

Dislocation: Shoulder.-6 cases; two at 65 and 79 ; three 1.8. and 40 years ago. Ankle.-2 cases; one at 50 , one to years ago. Hip.--1 case, 20 years ago. Injured Hip. -1 case at il, lame since.

Fracture : Patella.-2 cases; one 8 months agn, one "muscular at 78 , with bony union." Arm and Leg. -1 case at 45 . Arm. - 1 case at 83. Leg and Thigh.-1 case at 86. Right Humerus.-1 case at 85. Ribs. -5 cases; three at 64,70 and $\% 0$, one a rear ayo with recovery in 3 weeks, one " 3 ribs at 58 ." Sternum.- 1 case at 30 . Shoulder.-1 case, "compound, after io." Ley.2 cases: one at 45 . Thigh. -6 cases; one 5 years ago, one "in 1880, close to knee," one "left, at "66," one "at 83, in herl nine weeks with perfect union," two of neck of thighbone. one of them in January, 1883, the other "at 79 , recovered after heing in hed nine weeke."
Amputation: Arm. -1 case at $4 \pi$. Leg. - 2 cases; one for "dliseased ankle at 25 ," one from "accident at 46 ."
Losgetity.-Taking as a standard of a long-lived family one in which of the near relations (grandparente, parents, brothers. sisters, and subject of inquiry) 4 attained the age of $\pi 0$, or 3 the age of 80 , we hare at lenst 182 cases; twn of them were on inother's side only; one was returned as short-lived family.
blom-relationsiff bettefen Parents or Grintparents. - 163 returns. Noue, 157. In two cases "grandparents were cousins." in one "maternal grandparents were first cousins," in one "paternal grandparents were cousins." in one "parents were cousins." in one "parents were first cousins."
Age of Father at Birth of Stbject of laqumy.-96 returns. Average, nlont 36 years of age.
Age of Mother it Bitit of Subject of 1ngltmy:-míreturns. Average, ahont 31 years of age.
Only those cases are included in which both age of father and mother are given.
Diseases in Family (in relations and subject of inquiry):
（ancar（malignant proweths）．－it families．
Consumption．－（i）families．
serofula． 1 fauily．
Crout． 30 frmilies．
4poplexy and Puralysis after 40．－42 families．
Hheumatiom．－5 families．
Ejilep：y．-5 families．
Inきanity－ 13 frmilies．
Fone． 40 families．

## No． 111.

## Analysis of beturns Relating to Present Condition， Habits，Circcisistances，etc

（ $\mathrm{Males}^{2}$（0）to 100．92 Returns．）
Single，Married，Wielozed．－iG returns；S．4，M．1R，W．It． Aftuent，Comfortable，Poor．－ 77 returns；A．6，C．42，D． 29 ． F＇at，Spare，Average－－Tッ returns；F．8，S．35，A．35．
Full－Elooded，l＇ale．Acerage．－73 returns；F．12，1＇．16，A． 45.
Strong，Fechle，Average－Tti returns ；S．31，1．，31，A． 14.
Meight．－70 returns；arerage， 5 feet $6 \frac{3}{3}$ inches；one，now 5 feet © inehes．was 5 feet 9 inches；another，now， 5 feet 5 inehes，was 5 feet $i \frac{1}{\text { innehes．}}$

11 eight．-39 returns；average， 10 stone 9 pounds．
ligure．－-0 returns ；erect， 40 ；bent， 30.
loice．－Tir retums；loud， 10 ；clear， 10 ；loud and clear， 33 ；clear and full， 7 ：full， 3 ；loud and full， 2 ；weak， 5 ；clear and weak， 6 ． Sight．－ il returns ；gnod，50；Catarnct（both eyes）， 4 ，in one case at \＆－years．Cataract（one eye），1．Failure，apparently independeut of pre－byonjia， 6 ；in one case＂blind for 20 years．＂
filasscs．－ 49 returns；none． $10 ; 39$ wore them；of those in which perioul was given，many years， $3 ; 2$ to 3 years， $1 ; 8$ to 10 years， $5 ; 12$ to 15 years， $4 ; 16$ to 20 years， $6 ; 26$ to 30 years， $5 ; 40$ years， 3 ； 50 years， 2 ．In two cases＂can real for fire minutes withont spectacles，and then＂goes all of a piece．＂

Menring．－it returns；gnod， 38 ；indifferent． 20 ；bad， 19.
Toints，－71 returns；natural，64；deformed，7；stiff， 4 ；stiff and Hexed， 1 ；stiff and deformed， 1.

Digestion．－it returus ；gnod， 57 ；moderate，14；had， 3.
Appetite－-74 returns；good， 52 ；moderate， 17 ；bad， 5.
Later．-71 returns ；large， 12 ；moderate， 46 ；small， 13.
Nimber of Meals－ 5.5 returns；arerage rather orer 3 each daily．

Aliohol－73 returns；none， 21 ；little，26；moderate， $26 ; 1$＂takes occasionally a little too mueb．＂

Animal Food．－64 returns；none，1；little， 41 ；moderate， 20 ； much， 1.
howels．－74 petnrns：daily． 49 ；three times daily， 1 ；altemately， s；every third lay， 1 ；irregular， 13 ；costive，＂．

Aperients．－i2 retums；nuver，$\because 4$ ；oceasionally， 1 ；frequently， 10：rarelv．，37．
Disposition．－if raturns：lethargic，1；energetic，23：plaeil， 23；irritable，12；dacid and energetie， 3 ；irritable and ener－ getie， 4.

Intellect．－72 ruturns；high， 12 ：average． $51 ; 10 \pi$, ？
Vemory，Past Livents．－70 returns；good，58；moderate，5； bad， $\bar{T}$ ．

Memory，liecent Events．－6n returns；good，34；moderate，14： bal，12．

Mahits－-75 returns；netive， 46 ；sedentary， 21 ；bedridden， 8 ， one for 1 year，one for 2 years．

Out－of－Door Erereise，－is returns：none，17，of which 8 were bedridden． 1 not out for years， 1 not for 9 years；little， 7 ； moderate， 2 ，nue travels loy train atone；much， 3 ，one of these attenderl Norwich market as a cattle dealer a few days before death，another works in garden 3 honrs daily；short walks，23： walk and rlrive，z：walks 1 hour，1；walks 2 to 3 hours，！；walk I mile， 3 ，one of these enuld do so＂easily at $94 ;$＂walk ${ }^{2}$ miles， 2 ； walk 3 miles， 3 ；rides on horseback， 1 ；＂work as labourers，＂ 2 ； ＂works on farm，＂ 1 ；one＂at work in linyfield 3 dlays before death．＂

Sleep，－-0 roturns：gocxl，47；molerate， 16 ；hatl， 7 ．
S＇eep），Numher of Ilnure．－39 returns；ascrage 8 ？hours．
Ilour of fining to beol．－itt returns；average，s．30）P．M．
ILour of Rising．－ 66 returns；average， 8 А．．．．
r：hest Girth in Inspiration．－ 30 returns；awnage， $33_{1}$ inches．
Chest rirth in Firpiration．－－ 30 returns ；avrage， 35 inehes．Duly
those easez are ineludell in which chest girth in both inspiration and oxpiration are given．

I！！nsticily of lib r＇artilagee－-11 returns；distinet，16；indis－ tinet， $2=$

Pulse－it returns；average，little over 75 per minute．Regular， Irvegular． 51 returns；12．38，1．13．Large，Small．－ 19 returns； 1．201，s．29．Compressible，Incompres＊ible．－51 ruturns；C．42；1．9． Arteries．－in roturns；even， 3 ；visible， 1 ；visible aml esen， 2 ； tortuous， 1 ；tortuous aml even，$\because$ ；tortueus and visible， 5 ；knotty， 3 ；visible and knotty，, ；tortuous and knotty， 1 ．So they were risible in 10 cases，cien in 42 cases，tortuous in 9 eases，knotty in 6 casus．

Respiration Number－ 48 returns；Average，about 33 per minute． Regular，Irregular．－48 returns：1．43，1．5．

Ircus Sculis－ 5 ：3 returns；much， 13 ；little，29；absent， 20 ．
Teeth．-69 returns：arerage， 4 to 5 ；but 27 land none，and two harl＂several，＂one had a＂third set of hicuspils at 89 years of age＂${ }^{\prime \prime}$ in 62 cases the teeth are specified．Upper incisurs， 44 ； canines， 23 ；molars，57．Laver incisors， 60 ；camines， 40 ；molars， 58.

Artificial Teeth．－－ 71 returns； 66 did not use them，and of these 26 had no teeth，and several others rery few； 5 used them ；one for 3 years，one for 10 years，one for 20 years．
Evidences of Failure．－58 returns；none，18；heart， 1 ；heart and brain， 1 ；heart and urinary organs， 2 ；lungs， 9 ；lungs and urinary organs， 2 ；lungs，brain，and urinary organs， 1 ；brain， 4 ；lrain and urinary organs， 1 ；urinary organs， 19 ；so the heart was affected in 4 cases，the lungs in 12 cases，the brain in 7 eases，the urinary organs in 25 eases．Ileart sounds returned as＂normal＂in 7 eases．
Hicturition．－ 58 returns ；natural， 32 ；slow； 8 ；frequent， 5 ；in－ coutinence， 4 ，one partial for 18 years；diffeult， 3 ，in one case catheter used occasionally，in one from contraction of urethra after ampatation of penis．Slow and diffieult， 4 ；slow and fre－ quent， 1 ；slow，difficult，frequent，and painful， 1 ；in this case quarter of an hour before he ean make water．＂
Present Malalies．－63 returns；none， 25.
Debility．-10 cases．Heak Heart．－1．Mitrab Bruit．－1．Senile Decay．－1；died．Cardiac Dropsy－－1．
Bronchitis．-8 eases；three slight，one for 18 years，one with death．Cough．－2 eases，one ehronic．Empihysema．－1．Conges－ tion of Lumge．-1 ense for 2 weeks．
Indigestion．－1．Vicer：－1 from injury．＂Gouty erysipelas and eczema．＂-1 case．Hernia．-1 case．Dementia．－2cases ；one for a few yenrs，one since 1847 in St．Luke＇s．
Hemiplegia．－1 case．Brain impaired－recently in 1，from
anxiety：Gangrene．－2 cases ； 1 of foot， 1 of toe ；both died．Jiheu－
Senile Gell matism．－4 enses ； 1 often， 1 of hip．
Enlarged Prostate．－lease．Alluminuria．－One case for 6 months．
Atony of Bladder．－One case for 14 years，with ocensional retention
Uremia and death， 1 case，difficult mioturition from enutractina of urethral orifice after amputation of penis for equithelious of years previously．
Temperature．－ 3 returns；one of $95.0^{\circ}$ ，two of $96.0^{\circ}$ ；one of these＂under the tongue．＂In one case，aged 99，some hend mea－ surements were giren ：circumference around temples， 21 inches： coronal from ear to ear， $1+\frac{1}{2}$ inches．

## Nัo．IV．

Analysis relating to Past Mistony，ancleding lianily 1hstonx．
（Malem， 00 to 100．）
Aye when Married．－62 returns：average， 30 to 31 years of age． Muration of Married life．－5t returns；average，little orer 47 vears．
Sumber of Chillren．－ 68 returns：arernge，little over $\overline{6}$ each．
1 fluent，Cimfortahle．$I^{\prime}$ ， 1 r．－T2 retums：A． 6, C．42，1＇，2t．
First or－Chitd of l＇arents．－fit returns；a veragr，about third，but 18 were＂first chikl，＂and of these one at least wa： ＂only chill．＂In 19 eases the numler in the family was alon re． turned；of these，the average position was ahout third，and the average number in the family was 7 to 8 chillen．Oue was 8 twin，second horn，the other heing a girl．

Delicate，Tolusit，Average．－f9 retnrns；D．．2，R．47，A．20．
Mealth：Gool．Moderate．－i0 returns；G．70，M．日．Often Rarely Ailing．－1 return；0．1，R． 0.

Digestim．－it ret urns；gaod，i2；imlifferent， 2.
houcls．－Gs returns；good（llaily）， 58 ；irregular， 3 ；costive， 6
lonse， 1.
Balduess．－ 32 returns；early， 12 ；late， 26.
Areyness．－50 returns：carly， 13 ；late， 3 i．

Disposition.- 68 returns; placid, 18; irritable, 5 ; lethargic, 1 ; energetic, 32 ; irritable and energetic, 6 ; placid and energetic, 6 .

Intellect.-59 returns; high, 13; average, 44; low, 2.
Habits.-72 returns; active, 70 ; sedentary, 2.
Out-of-Door Fixercise. 68 returns; little, 5 ; moderate, 6. One "worked hard, often late at night;" one was a "good ralker." Much, 57 ; of these, six were great walkers, one "walking four to five miles daily till 87 ;" one "ten to twenty miles daily, at 80 could run two miles without stopping;" one "on horseback till 85 ;" one a "sportsmen," one had "laborious occupation as a steredore;" one "Worked hard, often late at night;" one "had a good deal of night-work;" one "often had night-work as a coastguard;" one, " a cattle-dealer, often twelve hours without food."

Hours in Bed.- 14 returns; average, $8 \frac{1}{4}$ hours.
Hour of Rising. - 53 returns; arerage, 6 A.s.
Sleeper.- 67 returns; good, 61 ; average, 4 ; bad, 2.
Appetite.-67 returns; good, 65 ; indifferent, 2.
Eater.-66 returns; large, 13 ; average, 18 ; small, 5.
Alcohol. -67 returns; none, 1 ; little, $2 \overline{7}$; moderate, 32 ; one of these "took much when he had the chance;" much, 7 ; of these, two were "free eaters and drinkers," one "took two glasses of beer and four glasses of wine daily," one "took three glasses of whisky a day," one tras "often drunk and in gaol," one was "drunk about once a week," one "boasted that he smoked and drank more than any man in the town, and was most irregular in erery way."

Animal Food.-58 returns; none, 1: little, 14; one of them "once a week;" moderate, 41 ; much, 2.

Illnesses Undergone.-69 returns; none, 32.
"Fever."- 6 cases : at 18, 21, 33 severe, 40,65 , and 76 . I'ellow Fever. 1 in West lndies. Typhus Fever. 4 cases; one at 15, one at 45, one when young in the Peninsular war, one at 65. Typhoid Fever. -4 cases; one young, three at 45,50 , and 67. Ague.-1. Erysipelas. -4 cases; one at 60 , one severe at 80 , one setere, with recorery at 89. Brain F'ever.-1 with much venesection.

Bronchitis.- 8 cases; three at 80,88 , and 96 , one had two attacks in last four years, one serere at 94 with ultimate recovery, one at 98 serere mith recorery. Pneumonia.-2 cases; one at 75 , one within last 4 years.

Phthisis.-1 had symptoms, when 15 was at Brompton Hospital. Abscess.-1 in back at 45 .

Jaundice.-2 cases; one at 60, one when young. Fistula.-1 at 48.

Epithelioma of Penis.- 1 with amputation at $\% 0$.
Rheumatism.-2 cases, one as a boy. Glaucoma.-1 case, in left eye.

Strangulated Hernia.-1, with operation at 84. Sangrene.-1 of left foot at 77. Fenesection.-1, several times when young.

Fczema.-2 2 cases; one acute at 90 , with complete recorery.
Dementia.-1 case since 1847, in St. Luke's.
One had slight paralysis at 72 , one slight apoplexy and hemiplegia at 89 , one 3 "strokes" with temporary paralysis, one during last 15 years had occasional loss of consciousness and use of left side, with quick recovery.

Retention.-One 4 years ago. Atony of Bladder.-One for ly years from over-distension, occasionally catheterised; one for several years has had frequent micturition, sometimes a quarter of an hour before he can make water.

Slight Ailments.-63 returns; none, 38.
Bronchit is.- 3 cases; one slight, one chronic for 8 years. Asthma. 1 case.
Rheumatism.-5 cases; one slight, one at 80, unable to walk since. Gout.- 4 ; one for 20 years.

Diarrhoc.-1 lately. Piles.-1 for 70 years. Bilious.-1.
Ague-1. Gravel-1. Renal Hemorihage-one case, copious 4 times in last 20 years.

Dizziness. 2 cases ; onc occasionally for 10 years.
Hernia.- 3 cases; one "all life," two for 20 and 50 years.
Ulcer of Leg. -1 case, healed at 98 . Eruption on Legs.-1.
Eczema.-1. Ailing in Youth.-1.
Accidents- 49 returns; none, 35.
Concussion.-1 at 84 from fall of 10 fcet. Dislocated Thumb.-1
from fall from scaffold at 81 , recorered. Sprained Ankle. -1 at 0 S , quick recorery. Scalp Wound.-2 cases; one serere lately with quick recorery, one from fall at 89, healed quickly.

Fracture: Nibs.-3 cases; one at 84 with speedy recovery, one at 93 healed well. Clavicle.-Spontaneous at 90 in raising himself from chair, united. Thigh- 1 at 82 . Humerus- -1 at 95 , perfect

Quatre Bras. Leg. -4 cases; one at 85, one compound, one both hones at 80 with recnrery, one at 80 in middle, "leg slipped off fender as he sat, he did not fall, not united, quite flexible, in bed 7 weeks."

Longerity.-Taking as a standard of a Ing-lived family, one in Which of the near relations (grandparents, parents, brothers, sisters, and subject of inquiry), 4 attained the age of 70 , or 3 the age of 80 , we have at least 40 cases; one was returned as " 3 hortlived."

Blood Relationship between Parents or Girandparents.-29 returns; none, 29.

Age of Father at Birth of Subject of Inquiry.-11 returns; arerage, 35 years of age.-

Age of Mother at Birth of Subject of Inquiry.- 11 returns: average, neariy 32 years of age. Only those cases are included in which the ages of both father and mother are returned.

Diseases in Family.-(in relations and subject of inquiry).-Cancer (malignant growths).- 8 families. Consumption.- 13 families. Scrofula. -0 families. Gout. -8 families. Apoplexy and Paralyses after 40.-9 families. Rheumatism.-10 families. Epilepsy.-0 families. Insanity. 5 families. None. -5 families.

In one case almost erery memher of family except the subject terribly addicted to drink; in another case his son, daughter, and 4 nephews and nieces were deaf mutes.

## No. V.

Analysis of Rettrns Relating to Present Condition, Habits, Cinctnstances, etc.
(Females, 80 to 90. 282 Returns.)
Single, Married, Widowed.-280 returns; S. 32, 3. 26, W. 222.
Aftuent, Confortable, Poor.-280 returns ; A. 23, C. 112, P. 145.
Fat, Spare, Average. - 27 returns ; F. 36, S. 119, A. 122.
Full-blooded, Pale, Average--275 returns; F. 18, 1. 104. A. 153. Strong, Feeble, Alerage--2Tt returns ; S. 58, F. 110, A 106.
Height.- 218 returns; average, a little over 5 feet 2 inches.
Height. - 86 returns, arerage, about 8 stone $10 \frac{1}{2}$ pounds.
Figure.- 242 returns; erect, 146 ; bent, 96.
Toice--268 returns; clear, 103; loud, 40; weak, 32; full, 11; clear and weak, 9 ; clear and full, 23 ; loud and clear, 49 ; loud and full, 1.
Sight.-220 returns; good, 181 ; cataracts, 15 ; failure apparently independent of presbyopia, 21.
Glasses.-227 returns; none, $32 ; 195$ wore them. In some the number of years during which they were worn was giren; many years, $19 ; 2$ to 3 rears, $2 ; 4$ to 5 years, $6 ; 6$ to 7 Jears, $4 ; 8$ to 10 years, $14 ; 12$ to 15 years, $10 ; 16$ to 20 years, $31 ; 21$ to 25 years, 10 . 26 to 30 years, $34 ; 31$ to 35 years, $6 ; 36$ to 40 years, $28: 41$ to 45 years, $3 ; 46$ to 50 years, $10 ; 54$ years, $1 ; 58$ years, $1 ; 60$ years, $1 ; 65$ jears, 1.
Hearing. - 279 returns; good, 175 ; indifferent, 77 ; bad, 27.
Joints.-278 returns ; natural, 243; stiff, 12; deformed, 13; stiff and leformed, 10.

Digestion.-2 280 returns; good, 169 : moderate, 94 : bad, 17.
Appetite -278 returns; good, 144 ; moderate, 115 ; bad, 19.
Eater.-275 returns; large, 22 ; small, 105 ; moderate, 148.
Number of Meals.- 225 returns; average, 3 to 4 daily.
Alcohol.-250 returns; none, 105: little, 117; moderate, 44; much, 4.

Animal Food.-249 returns; none, 10; little, 164; moderate, i-: much, 3.
Bowels.-266 returns;" daily, 183: irregular, 51 ; alternately, 30 ; costive, 1 ; once a week, 1.
Aperients- - 260 returns; nerer, 58 ; rarely, 150 ; frequently, 52; daily, 3; occasionally, 2.

Disposition.- 267 returns : placid, 119 ;irritable, 28 ; lethargic, $f_{\text {: }}$ energetic, 93 ; placid and cnergetic, 14 ; irritable and energetic, a.

Intellect.-26f returns; high, 33; low, 36 ; average, 197.
Memory. P'ast Events.-258 returns: good, 186 ; moderate, 41 ; bad, 31. Hecent Erents.-221 returns ; good, 120; moderate, 53; bad, 43.

Habits.- 275 returns; actire, 128 ; sedentary, 100 ; bedridden, 47 : of these five for $2,3,4,4,15$ years respectively, and two for 3 weeks and 3 months respectirely.
Out-of-Door Exercise.- 259 returns; none, 88 (of these 47 Tero bedridden) ; little, 102 ; moderate, 34 ; much, 14 ; short walks, 15 (of these one walks 2 miles). Besides these, three walk 3, 4 and 6 miles respectively.
Sleep.-267 returns; good, 146 ; molerate, 89 ; bad, 32. Jumber of Hours.-14 returns : arerage, a little over 7 hours.

Hours of Going to Bed.-204 returns; average, a little past 9 ocloek P.M.

Heur of fising.- 202 retums: average, 7.4.5 A.M.
Chest Girth in Inspiration.- 73 returns: average about $31 \ddagger$ inches. Lijpiration.- 73 returns ; average, about $30 \frac{1}{2}$ inches. Only those are included where loth inspiration and expirution are given.

Elasticity of Rib Cartilages. -139 retums; distinct, 65 ; indistinet, 74.
Pulse-203 returns: average, nearly 79 per minute: high, owing to chest nffections in many eases. Negular, Irregular.201 returns; 12.164, I. 37. Large, Small.-1 14 returns; L. 60, S. 134. Compressible, Incompressible.- 211 returns; C. 181, 1. 40.

Arteries- 211 returns: even, 138 ; visible, 13 ; tortuons and even, 8 ; visible and even, 11: tortuous, 13; tortuns and visible, 6; knotty, 6; visible and knotty, 2 ; tortuons and knotty, 12 : tortuous, visible, and knotty, 1 : tortuous, visible, and even, 1 ; so that they were eren in 158 cases, fortuous in 41 cases, visible in $3 t$ cases, knotly in 21 cases.
Respiration. - Sumber, 201 returns: average, nearly 22 per minute; rather high, owing to chest complaints in many enses. Regular, Irregular--212 returns: R. 198, 1. 14.

Arcus Semilis.-204 returns; much, 48 ; little, 80 ; absent, 96.
Teeth. -253 returns; average, little over 3 each; but 122 hat no teeth: of these, two had not had any for 40 and 55 years respectively. In $\because 41$ cases the teeth were speeified. Upper incisors, 103 ; canines, 75 ; molars, 96. Lower ineisors, 201 ; canmes, 112 ; molars, 121.

Artificial Teeth--208 returns; none, 176: of these, 89 had not any teeth, and 4 had not had any for 4, 30. 40 , and 40 years respectively, and 3 had not had any "for years," and many others had very few teeth: 32 used artificial teeth, in some cases the number of years during which they hal been worn was given. Many years, $5 ; 5$ ycars, $1: 7$ years, $1 ; 10$ yars, $2 ; 12$ years, $1 ; 15$ years, $1 ; 20$ years, 4 ; 21 years, $1 ; 25$ years, $3 ; 20$ years, $4 ; 36$ years, 1 ; 40 vears, 1: 55 years (full set), 1.

Evidences of Failure.-20s returns; none, 117; heart, 11 ; heart and lungs, 6: heart and brain, 5: heart and urinary organs. 5 ; heart, lings, and urinary organs, -2; heart, brain, and urinary organs, 2 ; heart, lungs, hrain, und urinary organs, 5 ; in 14 eases heart-sounds returned as normal; lungs, 21 ; lungs and brain, 3 ; lungs and urinary organs, 7 : brain, 18; brain and urinary organs, 3 ; urinary organs, $2 \mathcal{S}$; so that the heart was affected in 36 eases, the lumgs in 44 eases, the brain in 36 cases, the urinary organs in 47 cases; in the ease of the urinary organs, the failure was often slight (ride Mieturition).

Micturition.-2017 returns: natural, 160 ; ineontinenee, 13; slow, 11 : slow and diffieult, 3 ; frequment, 8 ; painful. 1 ; diflicult. 1 ; hematuria, 1 ; difficult and painful, 1 ; slow, difficult, and painful. 2.

Jresent Maludies.-248 returus; none 91. Irebility.-34 eases. Heak Heart--i. Šyncope.-2. Palpitations.-3. Vertign.-3. An-gina.-1, oceasimally. "Aortic Disease."-1. Ifurmur at Base. 2 eases, one of them systolic. Senile Cidenca.-1. Sieelled Ficet and Legs.-1.

Dyspepsia.-9. Diarrhea.-5, ne slicht, one nceasionally. Piles.-3. Flatulence--2. Constipatims.-1. ILernia.-E, one for 40 years. one st rangulatel, with death three days after herniotomy, one umbilical.
Bronchitia.- 32 cases, $f$ of them chronic. Counh.-2. Emphy-semr.-ㅇ. Ineummia.-1.
Rheumatiom, Iheumatic Gout.-Of cases. Cout.-6. Sielled Kine.-1.

Uterine IIamorrhage-1. Polypus Iters.-1. Prolapins Uteri. -1 , one for 30 years. Ir ritable Mladder--2. Retention of Urine. -1. Internitient IICematucria- $\mathbf{1}$, for 20 vears.

Caries of Rib.-1. I.ame ( $\mathrm{High}_{\mathrm{j}}$ ).-1. Diseused Ankle.-1, for many years. Fracture of Neck of Femur.-2.
Cancer of Ilrecast. - 5 . Irpithelioma of Face.-1. Rodent Cancer. -1. Carluncle.-1, Iarge. I'eriostitis.-1.

Ecema.-3. Sirythena of Leg.-1. Sine Eyes.-3. Sore Mouth. -1. Eezema of Wipple.-1 (no cancer). Cleer of Leg.-1. In flamed Jeys.-1.

Veuralyin (F'ace),-3. Sciaticu.-2. Lambago.-1. Ifysteria. -1. Paralysis Ajitans.-2" Lunntic."-1. Dementia.- 13 cases. Besidns these, one with epileptic attaeks, nul oceasional delusions and excitement, and one "light-headed for one Year." Epilepay.1, occasionally, Maaia.-1, chronic: well for 17 years, recurring at 57 .

IIeniplegia.-6. Paraplegia.-1. Paralysis of Left Arm.-1. Senile Fits.-1.

Temperature, -6 returns; in two cases "normal;" in three, $98.0^{\circ}$; in one, $98.2^{\circ}$.

No, VI,
Analisis of Reiunsis reliting to Past Ilistory, including Famhy llistory.
(Females, 80 to 40.)
Age when Married. -20 returns; average, about 26 years of Duration of Married Life.-193 returns; average, nearly 393 years.
Number of Childien.-2es returns; average, 5 to 6 each, but 43 had no ehildren; one had "prostration at 41, from child-hearing," one "often ailing since a bad labour 46 years ago," one "had severe flooding at 42 , with difleulty rallying," one " nursed 8 children for a year each," two "many misearriages," one " 7 miscarriages out of 10 conceptions," one had "only one child, still-born," one "early profuse catamenia, menopause at 48 ," one "entamenia commeneing at 16 , moderate," one "catamenia from 17 to 40 , moderate."

Afluent, Comfortalle, I'oor.- 263 returns ; $1.23, \mathrm{C} .138$, P. 102.
Furst or - Child of Parents.-249 returns; average about 4th ehifl. In 70 eases the mumber in the family was returned; in these the average position was 3rd to 4 th, and the average number in the family 7 to 8 children; 58 were "first child," and of these 4 at least were "only child;" three were twins, and two $t$ win brothers of one of the subjects both died over 80 years old: the mother of one not ineluded in alove had $2 \sim$ chiddren, and the maternal grandmother of one included above had 2!- cliildren, of which 20 grew up.

Delicate, Rohust, Arerage.-240 returns; D. 37, R, 100, 1. 103.
Health.-23: returns ; good, 207 ; moderate, 25.
Often Ailing, Rarely Ailing.-26 returns; 0. 25, R. 1.
Digestion, - 48 returns: good, 211 ; indifferent, 37.
Bowels.-226 returns; regular, 18t; irregular, 9; costive, 29 relaxed, 3 ; twice daily, 1 .

Baldness.- 80 returns; early, 17 ; late, 61 : none, 2.
Greyness.-210 returns ; early, 53 ; late, 155 ; none, 2.
Disposition.- 242 returns: placid, 74 ; irritable, 20: lethargic, 2 ; energetic, 125 ; irritable and energetic, 13 ; placid aud ener-
getie, 5 .
Intellect.-238 returns; high, 43; arerage, 180: low, 15.
Habits--234 returns; netive 215 ; sedentary, 19.
Out-nf-Door Exercise.-20f returns: little, 64: moderate, 2, , one a moderate walker; mucll, 59, one hard working. Besides these, eleven others: one worked hard, one walked daily, oue "good walker," one "walked 3 hours," tive "took walks," one "could walk 30 to 40 miles when young," one was "never very active."

Hours in Bed.-171 returns: average a little over 8 hours.
Hour of Rising.- 106 returns; average a little past 6 A.M.
Sleeper.-232 returns: good, 188; average, 33; had, 11.
Appetite- - 233 returns; good, 209; intifferent, :-1.
Later--230 rutums; large, 23; small, 63; average, 135.
Alcohol.-232 returns; none, 54: very little, 2; little, 103, one of these "none till 35:" moderate, 60 . one of these " none till 40 " much T, one of these was a " notorious drinker, lockerl up 200 times for heing drumk, father died aged 90 , and brother dicd aged 70, both heavy drinkers.

Illnesses Ündergone.-231 returns; none, 111.
"Fecer."-19 euses ; three "young," two severe at 20 and 60 , right tat $28,30,50,60,40,60,63$, and 70 respeetively. Weasles. -1 care. Timsillitis.-1 case. Typhus Ferer.-10 cases; 1 "young, tive at $15,20,28,30$ and 46 rejpetively. Searlel Fever. -5 cases ;
two sur two strere at 40 and 42 ; oue ut 72.2 . Typhoid Fever. -6 cases ; one at 42 severe fire at 12, 19, 30, 47, and 70 resplectively. Ingluenza.-1 case at 6s. Conu.- 1 ense at 16 , was hled excessively. 13 koming-onugh.-1 case. Erysijuelas.- 5 cases; 1 " frequently, one severe at in, three of face at 20,57 , and 62 respectively. Diphtheria. - 1 ense
ut 6 . Fheumatic $b^{\circ}$ ever. one at 26 , heaf sinee; ; five at $21,24,26,31$, and 72 respectively

 at 50.

Jaundice.-4 cases; three at 12, 81, and 83; all recovering. En-teritis.-4 eases : two at 44 and 80, one serere at 34. Ifamatemess -1 ease at 60 . Diarrhera,-2 cases; one at 88 , severe, recovered.

Bilious Attacks. 2 cases; one at 60 , with gall-stones; one " severe to point of sinking." Gall-stones.-2 cases; one " badly when young." Gall-stones and Jaundice - 1 case at 66. Inflammation of Liver. - 1 case at 73. Strangulated Hernia.-2 cases, at 50 and 85 , with death in latter. Intestinal Obstruction, 1 case at 76 .
Pneumonia. -7 cascs; one at 82 , recovered; one at 72 , with pleurisy ; one severe at 69 , and four at $57,67,79$, and 80 respectively. Congestion of Lungs. -1 case at 83 . Pleurisy. -6 cases; five at $20,40,50,60$, and 72 respectively. Bronchitis. - 26 cases; five at $25,81,86$, " 86 for four months," and "after 80 " respectively" four severe at $62,74,80$, and 88 respectively; two died; one 6 months ago; three "winter bronchit is" one of them for 5 years) ; one 15 years ago, one at " 80 with complete recovery," one 3 severe attacks at $76,77,78$; one with pneumoria at 86 recovering ; one had "two attacks in last 2 years."
Uterine Filuroid. -1 case. Nephritis. -1 case at 77. Phlebitis.case at 75 recovering. Gangrene. -1 case at 75 recovering. Herpes.- 1 case at 77 never completely recovering. Glawcoma, with removal of eye. -1 case. Heeble Heart and Anasarca.- 1 case for several years. Poisoned Hand.- 1 case, 12 years ago; laid up several months. "Inflammation."-1 case at 30. Abscess.-1 case of thigh at 57. Ecema.-1 case for 2 years at 78 ; "ill three years at 50 ;" 1 case with recovery.

Insanity. -1 case. Paralysis Agitans. -1 case at 66. Paralysis. -2 cases at 79 recovering, and 8\%. Hemiplegia.- 8 cases; one 2 years ago, one 3 years ago for a week, two at 81 and 82 , both recorering; two at 77 and 78 , with "partial recorery;" and two at 72 and 81 .
Cancer of Breast. - 3 cases; two doubtful and removed, one of them at 50, the third, "from injury 16 years before death, did not trouble her until ulcer of leg healed one year before ber death."
Slight Ailments.- 218 returns. None, 119.
Dyspepsia.-21 cases; one for 5 years, 1 "all her life." Bitious Attacks.-3 cases. Piles. 4 cases. " Spasms." -1 case. Congestion
of Liver--2 of Liver:- 2 cases. Costive. -1 case, since typhoid fever at 47 . Diarrhca.-2 cases ; one occasionally.
Headaches.- 7 cases; one " all her life," one "terrible from 20 to 50 years of age." Pruritus. -1 case for 40 years. Neuralgia,- -1 case.

Palpitations.- 4 cases; 1 "all her life," 1 for many years.
Menorrhagia. -1 case. Amenorrhoea, -1 case. Hysteria. -1 case. Prolapsus Uteri.- 2 cases. MIernia.- 5 cases; three for many, 20 , and 40 years ; one "femoral" for 15 years; one large umbilical.
Gout.- 5 cases ; one frequently, one " for 15 years."
Rheumatism.- 16 cases; one for 20 years, one since 76 years of age.

Bronchitis.- 14 cases; one "slight, occasionally," one " not for 10 years," one " for 10 years." Coughs.- 2 cases; one for many years. Catarrhs.-1 case.
Eccema. - 1 case. Sore Leg. -1 case. Evdema of Leys. -1 case, recently. Ulcer of Leg. 4 cases; one for 8 years.
Mamaturia.- 2 cases; one in " 3 successive springs," one "intermittent for 20 years." Lame.-1 case, "from birth.,"
Melancholy. -1 case. Debility. -1 case. Delicate. - 2 cases ; one "throughout life," one "in early life." Lateral Curvature.-1 case. One took th grain of morphine daily for many years.

Accidents.- 188 returns. None, 150.
Burn.-1 case, "when a child." Coneussion of brain,-1 case at 36. Mead injury.- 1 case at 79 . Jarred by railway accident.- 1 case, 30 years ago. Injury to Back--2 cases; one at 35; one from full, bedridden since. I Fall Dounstairs.- 3 cases ; one at 88 , one 2 years ago; her pulse, previously 60, has been 120 per minute since.

Amputation: Leg. -1 case at 50 , for accident. Breast.- 2 cases ; for doultful cancer, one at 50 ; one recovered in 14 days (Lancet, June, 1885). "Operation for Tumour of Homb."-1 case at 53 . Herniotomy.- 1 case ; death, 3 days Iater. Dislocation of Shoulder. -3 cascs, two at 70 and 79 .
Fracture: Seck of Fernur. - 6 cases; one 4 years ngo, one " 3 years ago, bedridden since ;" four at $70,81,81$, and "" $\mathrm{if}^{\prime}$ with reeovery. Thiqh.- 3 cases; two at 40 and 7 t, one 9 months ago (Lancet, April, 1884 ). Arm. -5 cases, at $6,60,78,80 \cdots 70$, with quick recover!." Forearm.-2 cases ; at 84 , and " 82 , with firm union in 25 days. Ir rist. -1 casc; both wrists at 60 and $\lceil 8$ respectively. Riliss. -5 cases: three at 25 , $\mathbf{6 0}$ and 81 . Pratella. -1 case at 2.5 . Ifip. - 1 case at 57 , on crutches since. looth Tegs. -1 case at $\uparrow 8$. Compound Firacture of Leg. -1 case 10 years ago, no
lanncuces.

Longevity-Taking as a standard of a long-lived family one in which of the near relations (grandparents, parents, brothers, sisters, and sulject of inquiry), 4 attained the age of $\%$, or 3 the age of 80 , we have at least 135 cases. Five families were returned as "short-lived."
Relationship, betucen Parents or Grandparents.- 134 returns. None, 132. l'arents, first cousins, 1. 1'arents, second cousins, 1.

Age of Father at Birth of Subject of Inquiry.- 70 returns; average, rather orer $33 \frac{1}{2}$ vears of age.
Age of Mother at Birth of Subject of Infuiry.- 00 returns; a verage, about 292 years. Only those cases are included in which the ages of both the father and mother are returned.
Diseases in Family (in relations and subject of inquiry.)- Cancer (malignant growths) - 30 families. Consumption-75 familiss. Serofula, 1 family. Gout.- 24 families. Apoplexy and Paralysis after 40. 45 families. Rheumatism, 53 families. Epilepsy.-3 families. Insanity- 28 families. None.- 21 families.

## No. V11.

Analysis of Returas relating to Present Condition, habits, Circumstances, btc. (Females, 20 to 100.110 Returas.)
Single, Married, Widowed. -101 returns; S. 15, 3. 10, W. 83 Affluent, Comfortable, Poar. -110 returns; A. 12, C. 46, P. 52 Frat, Spare, Average.- 109 returns; F. 10, S. 62, , . 37.
Full-blooded, Pale, Acerage.-104 returns ; F. T, P. 56, A. 41. Strong, Feeble. Average.-106 returns ; S. 28, F. 45, A. 33.
Height. -92 returns; average, 5 feet $2 \frac{1}{2}$ inches.
Weight. 28 returns; a verage, 8 stone $7 \frac{1}{2}$ pounds nearly.
Figure. -93 returns; erect, 54 ; hent, 39 .
Toice.-105 returns; clear, 25 ; full, $\overline{5}$; loud and clear, 33 ; weak. 11; clear and full, 14; loud, 11 ; clear and weak, 6.
Sight.- 93 returns; good, 58 . Cataracts, 12; one at 85 , and two for 1 and 4 years respectively. Failure apparently independent of presbyopia, 23 ; one blind for 2 years.
Gilasses,- 74 returns; none, 16; 61 wore them. In many cases the number of years during which they were worn was given. Fer years, 1 ; many years, $9 ; 4$ to 5 years, 2 ; 8 to 10 years, 2 ; 12 to 15 years, $1 ; 16$ to 20 years, $6 ; 21$ to 25 yearz, $2 ; 26$ to 30 years. $6 ; 31$ to 35 years, $3 ; 36$ to 40 years, $10 ; 41$ to 45 years, $3 ; 46$ to 50 years, $6 ; 60$ years, $2 ; 57$ years, $1 ; 63$ years, $1 ; 75$ years, $1 ; 83$ years, 1. Of those who use no glasses, two can thread a needle without, one used them from 40 to 80 , but reads well without them now, one used them from 40 to 60 , but reads well without them now.
Hearing.-110 returns; good, 48 ; indifferent, 34 : bad, 28.
Joints. -107 returns; natural, 90 ; deformed $\bar{i}$; stiff, $5 ;$ stiff and deformed, 4 ; slight Duphytren's contraction, 1 .
Digestion. $-10 \overline{7}$ r eturns; good, $8 t$; moderate, 21 ; bad, 2; onle can " live on anything, and cat anything."
Appetite.- 108 returus; good, 71 ; moderate, 34 ; bad, 3.
Fater-- 101 returns; large, 10 ; moderate, 62 ; small, 29.
Number of Meals.- 77 returns; arerage, 3 to 4 daily:
Alcohol.- 105 returns; none, 32 ; moderate, 24 ; little, 48 ; much, 1.
Animal Fond.-9S returns; none. 4; moderate. 38; little, 56.
Borcels.- 103 returns ; once a week, 1 ; twice daily, 1 ; alternately. 8; irregular, 22: daily, 71 .
Aperients. 97 returns; daily, 2 ; frequently. 20 , in one case the "bowels never acted withont;" rarely, 45; never, 27 .
Disposition.- 105 returns; placid, 37 : irritable, 13 ; lethargic. 2 ; energetic, 32 ; irritable and cnergetic, 14 ; placid and energetic, 7.
Intellect.- 102 returns; high, 18 ; average, 71 ; low, 13 .
Memory, Past Events.-105 returns ; good, 80 ; moderate, 11 : bad. 14.
Memory, Recent Events,-93 returns ; good, 55 ; moderate. 17 bad. 21 .
Habits.-108 returns; active,_t8; sedentary, 33; bedridden. 27: 2 for a year, 1 for 6 months.
Out-of-Door Exercise.- 104 returns: none, 50 , nf which 27 were hedridden; little, 25 ; moderate, 2 ; short walks, 21 ; one of these "walked 4 miles last week;" walks much. 1 ; muoh, $4 ;$ of these, one "able to walk some miles," one "walked 3 miles within a month of her death, and walked a third of a mile to morning services and hack on the day before death, died from a cold." Drives out. 1.
Sleep. -103 returis; good, 69 ; moderate, 24; ba?, 1 r, nu of these kept awake by rheumatic paius.
 - Mmer if fiong in Bed. -71 returus: avernge, little past 8.30 r.ar.
 Chest-nirth, in Inspiration.--27 returns: nverage 31s (ahont). Evpirafon. - 2 returns; averuge. 3n) (about). Only those cuses are included in which chest-girth in both inspirntion and expirntion aris returnert.
Flhelicit! of Rib-ciarlilages- 33 returns; distinct, bS indirtinct.
Perlee Numher. -7 returns ; averago, nearly 80 per minute; high from chest affections in many custs. Regular, Irregular. -70
 Compressible, Incompressible.- © returns; C. 63, 1. 12.

Arferies.-il returns; cron frt: tortuous, 1 ; risible, 1 ; risible
 1; tortunus and knotes, 1 ; visible and kuotty; 1 . So they were eren in tio cases, tortumes in a chses, risible in 12 cases, frotty in 3 cases.
lespiration Nimber:-fier rurns; areăge, 21 to 22 per minute; higher from checi affections in many cases. Regular, Irregudar. - lio returns: li. (0.), $1, \ldots$.
-1rcus Senilis. If returns; much, 23 ; little, 25 ; absent, 20.
Tect/, - 5 returns; aremige a little over, "each, but 58 had no eeth, our " none for 20 gears " one "lost teeth when young, but can eat a heafsterak as well as anyone." In 22 cases the teeth are spatites]. Cpper uncisors, 26: canines, 23; molars, 25 . Loucer incisors. 43 : cammes. 2 ; molars, 41.
Arfificial Teeth-ni returns: none, 85 , but one of these "used them formerly :" of these, 77 hind no teeth, and one had not had any for ${ }^{2}$ () poars, and aunther lost her teeth when' roung, and many athers had very fow tecth: 11 used artificial teeth, and another did so formerly, Ylany poars, 4; "from carly life," $1 ; 10$ yoars, $1 ; 30$ yars, $1 ; 45$ yeare, $1 ; 50$ ycars, 3.

Evideaces of Fuilure--8 relums; none, 43 ; heart, 4 ; heart and lungs, 1 ; lieart and brain, 1 ; heart and urinary organs, 2 ; heart, lunce and urinary nrgans, 1 ; lungs, 3 ; hungs and urimary organs, $\because$ : cram, 1. ; mimary organs, 11 : so that the hear was affected in II cases, the lungs in of casts, the brain in 16 cases, the urinary myana in lo cuses.
Micturition- -79 returns: untural, f.3; slow, 6; frequent, 3 ; diflicult, 2 ; incont inence, 1 ; slow und difficult, 1 ; slow, dificnlt, and painful, 1: dillicult and painful, 1 : difticult and frequent, 1 . In bate case the urine was pale, chear, 1b10; no alhumen,

Heart somuls returned as "normal" in 13 cases.
l'resent 1 I/ alalies. - 86 returns: none, 39.
lironchitis.-G cases; 3 slight. Chronic Cough.-1. Weak Ileart.
Syneope-1, slight. Anasarca.-1, fers months. Gidena.is casea, of las, ankles, and feet respectirely,-T"Flvular Disense. 1, Iong-stanling disease: carriod up and down stairs for years; breath slort.-.Murmurs. - 4 cases, y" systolic," 1 "basic," 1 "hasic yatolic."
Debility-13. (ieneral Decay and Death.-2 cases.
Rheumation.- - liackache- -
1brumintel Tumone:-1 case, dying semicomatose sonn after. Fumour of Rioht Ilypochomprium,-1 ense, for many years.
Diabetes. - i. Bilunk.-1. Cinstipration.-1.
Vemralyitt-2 cases after herpes, 1 of arna after herges a year ago, 1 for! months Blepharitis.-1. T"arix of Jofg.-1. Uleer of Castralyich - 1. Toey, 1, for ${ }^{\prime}$ Years. 1 "ourlers."-1. "Fircitement and Illusinns."-1. - Childiah.:- S. Senile Bementia.-1. Inhecile 1. Stight Para-Tysis-1. Serite J'aralysis.-1, for 5 yars. Enitoptic ('omulsions. i. Partial Ioft Ifemiplegia.-1. Almpleay and Left Memijleyin, 1

No. Vill.
inabysis of liftunse relating to j'ast listory, lacluding Fasity Histunx.

 and I married again at 81 veara of age.
Duration of Married Life- 11 returns; average, 42 to 43 yeara.
Fimber of Children.- 83 returns: arrage, nearly of cach, but 1 thal no chideren. I of thew having hech married 3 times; in 1 chat all latour- (11) inatrumbutal, Lilling most of children; 1 hind a chiduren, and of these 2 were twin daughters, both alive at ion whath large families, and 1 had twin boys.

Affuent, Comforlable, Poor--102 returns; 1. 14, C. 50, P. 38.
First or Chill of Parmts,- 80 returns: averuge, fourth chille; 20 wre "flrst child" and of these at least 1 was an "only child." In "4 cascs the mubber in the faniily was also given; of these the arerage positim' was third to foumh, and the average number in the family 7 to $s$.

Delicate, Rohust. Akerage- 95 returns; D. 10, R. 48, A. 37.
MIealth: (iood, Molerdte. 95 returns; $0,90,31,50$,
Often, Rarely Liling:-10 retums: 0.10, R' 2.1 "
Digestion.-99 returns; gool, 94 , indifferent, 5. took much ajerient medicine till 70 ; another ", all her life."
Baldness.-27 returus; varly, 5, 1 "from eczeria"; late, 22. One had much hair on chin.
Creyness-- 71 returns; enrly, 18 : late, 53 . irritable and energetic, 12 ; placid nnd cuergetic, 8 ; placid and lethargic, 1.

Intellect.- 92 returns: high, 23: $1 \mathrm{nv}, 3$, arerage,' 66.

Oll 92 ; moderate, 28 , one a bad walker; meat walkers, 2 ; much, 38 , of these, 2 were good walkers and 1 a great walker; 1
"Walked barefoot all her life, and does' so all the year round;" 1
a "noted tobacen smuggler, many hardships, slept in chair 50 years without undressing."

Hours in Berl.-60 returns; average ahout $8 \frac{1}{6}$ hours.
Hour of Rixiny.- it returns; average, nhout 6.15 A.m.
Sleeper.- 83 returns: gond, 75 ; ayerage, 11 ; bad, 3.
Appefite.-so returns; gond, 85 ; indifferent; 4.
Eater- -87 returns; large, 10 ; arrage, 56 ; small 21 .
Alcohol--92 returns: none, 22 ; rery little, 1 ; little, 43 : moderate. 24 ; rather free, 1 ; much, 1.

Animal Food. - $\varepsilon^{2}$ returns: little, 38 ; moderate, 43 ; much, 1.
Illnessest Undergme. -93 returns; nonc, 42.
"Tecere"-2 cases: one severe at $3 n$, one "many yenrs ago." Scarlet Ferer.-1 case, severe at 19. Typhus Ferer:-2 cases at 27 and 42. Typhid Fercr. - 1 case at i27. Croup. -1 case at' 50 . Emglish Cholera.-1 case at 80. Sinall-por:-1 case. Erysipelas. -3 cases; one severe one of hearl.
Chorea- -1 case twice, at 7 and 10. Themmatic Ferer.-G enses : threc at 18, 40.40 , two at 50 , severe. Rhematism. -3 cases; one
at 82 for six years. Diarrhea-1 case. Euteritis.-2 cases ; one at 76, one at 71, with complete recorery. IIcmatemesis.-1 at 78 ; no return. Jaunlice - 3 cases; one at 60, one severe at 40. Cungested Liver. -1 at 88.

Poisoned Mand.-1 at 9.). Sloughing Ulcer of Foot-6 months ago, quite healed. Inflammation in Side- -1 case, twice: ' P'elvic Abscess.-1 case at 45. Merpes.-2 cases; one at 92, one of right side of head and neck at 0.

Bronchitix. 13 cases; three at 75,78 , and 96 respectively, one "sereral times," one" lately, setere, with recorey." out " 3 times in 20 years," ome "severe at 67 ." one" 3 times, at 75,76 , and 89 , whernvery from ench in 3 mpnths," one "severe at 95 , with complate recorery."

Preumonia.-5 casers: two at 60 and 78 , ne "double, severe, at 94, with recovery in 6 trenks." Chmgestion of Iangs. -1 at 93. Nipasmotic Asthma,-1 case, serere from 50 to 70 , circumstances tren suddenly reducell her from aftuence'to penury, and the asthma then ceased.

Traliular Jispase of IIeart:-1 case, Jong standing, short breath, carrical un and down stairs for years.

I'aralysis.-2 cases; 1 at 60 , complete recovery, one twice, at 85 and on, with martial recovery. Apoptexy-2 cases : in' one 3 attacks, two at 83. the thirel at 9 with denth.
Parapleyia.-1, two years ago. Hemiplegia.- 3 cases: no right, at 89 , recovered nse of legy, not of arm ; one hat several attacks and recoveries, namely, left hemplugin and conmalsions at 78 , with gond recovery : paralygia of lefthand at 82. severe apoplesy at 88, kot about again, but mind weakened and with occasional epileptic atracks. One was "out of her mind
slight Aitments.- 79 returns; unne 5e,
Branchitiv. 3 casng. ' 'nighs.-2 cases; nne slight, one for on years. Winter Couyh.-1 ease.

Bilious Attaclis.-2 cases. Dilious Meadaches.-2 cascs: ne
when young. Headaches.-6 cases: one of "sick headaches," one "severe every month," one "till 60 years, old," one "severe till 50 years olcl."

Diarrhcea.-1 case occasionally.
Gravel-1 case. slight, lately. Eczema.-1 case, slight,
Delicate-2 cases; one when young. Neuralyua.-1 case.
Rheumatism.-2 cases. Symcope, -2 cases; one occasionally,
Conjunctivitis. -2 cases. I arir of Leg.- 1 case...i Prolapsus
Uteri. - 2 cases: Polypus Uteri.- 1 case.
Iritability of several Mucous Membranes.- 1 case, from 40 till death.

Issue for 60 Icars.-1 case, closed. 3 years ago, with gain, in weight after.

Frequently in Bed, and Bled because Full-blooded.-1 case.
Aocidents.- 71 retnrus; none, 57.
Falls. -3 ; one "downstairs at 94 , sedentary since," and two at 87 and 90 respectively

Burn.-1 at 92, perfect healing, Contusion.-1 severe at 34 ,
Fracture: Ribs.-1 at 84. Arm.-1, 6 years ago, rapid recovery Thigh.-1 at 90. Colles's.-1 at 89, rapid union. Neck of Femur. 4 cases; one at 93 , one died in 3 months, one " 10 years ago," one "at \&0, not nnited." Injury to Ilip.-T2 cases, one at 88 with lameness since, one 6 months before death.

Blood-Relationship between Parents or Grandparents.-41 returns; none, 38. Parents, distant relations, 1; cousius, 1; first cousins, 1. Father at Birth of Subject of Inquiry.- 19 returns average, $32 \frac{1}{2}$ years old.
-Age of Mothers at Birth of Sulject of Inguiry.-19 returns; average, nearly 29 years old. Only those cases are inchuded in which the ages of botll father and mother are returned.
Diseases in Family (in relations and subject of inquiry).-Cancer (matignant growths).- 15 families. Consumption.- 16 families. Scrofula.- 1 fanily. Gout. -9 families. Apoplexy and Paralyses after 40.-16 families. Thermatism.-18 families. Eprilepsy.-2 families. Insanity. -8 families. None,- 11 families.
Longevity.-Taking as a standard of a long-lived family one in which, of the near relations (grandparents, parents, brothers, sisters, and subject of inquiry) 4 attained the age of 70 , or 3 the age of 80 , we have at least 49 cases.

The Medical Men who wiere good enough to make the Returns, and the Number of Returns made by each, are as follows:

Chekaller, Dr., Ipswict
Clarke, F., M.R.C.S., Bury St.'EdCluton, ii., F.R.C.C.S., London Coghill, $\mathrm{Dr}_{\mathrm{r}}$., Yentnor.
Copley, Mr., Wisbeeh
Copley. Mr., Wisteech...
Cory, R:, M.D. London
Coxwell, C., M.B..
Crallan, G., M.B3., Fulbourne
Cribb; A, M.D., London
Crombie, J., Brentford
Cronier, H., Jersey
Crossman, Mr., M.ß̈.C.S.., Ïtambrowk
Cullimore, Dr,
Dall J TrCs D.
Davi J. D. M.C.s., Neweastle
Davies-Colley, N., F.R.C.S., Londön
Daris, M, M.D., London
De Ville, Dr. Harrogate
Donald, T. Kingston-on-Thames Douglas, W., M.B., New-bury
1rummond, J., Shelds
Duckworth, Sir Dyre, London
Dunean, W., L.R.E.C.P., Ottery
Dunlup. A., M.D., Jerses....
Nastes, G. M B F .
Fastes, G., M.B., London...
Eddowes, A.. Market Drayton
Edwards,
O. Ca M. M. Edwards, G. C. M. M.C.S., Ipswich
Hmersou, P. Mi. Eshersou, P., M.R.C.S., Southroli Esler. I., M.S., Bellast
Ferris, Dr U.

Finlay, I)., M.D., Londonn.
Fisher, 1)r., Brighton
Flening. W., M.D., Glasgow
Frazer, Dr., Bournemouth
Forty, Dr., Wotton-under Edge
Fox, H, C, Stoke Nowlngton...

Galton, J. M. London
Galton, 11r., London
George, 11., Louth
Gidhlings, Dr., Leeds
Gilbert. E., Amherst
Gilmour, Dr, Glasgow
Godifey. A.. 3.B., St. Helier
Gorbam, J., Galway
Graham, Dr., Weybritge
Gray, C., M.il.C.S., Newmarke
Grant, O., M.B. Inverness
Green, T. B., Kendal ...
Green, J.: Salisbury
Green, W...M.R.C.S.. SAndown
Gripper, W., M.B., Wallington
Groom, W., M.B.,' Wishech
Gross, C., F.R.C.S. Walworth...
Hall, W., F.R.C.S., Laneaster...
Hammond. Dr., Nuneatou
Hannah, Mr., Ashton.
Marrison. F., M.B.i, Huddersfield
IIarris, J.. M.D., London
Ilarvey, F. Plymouth Iospital
Hayman, S., Abingdon wïn ....
Hayward, J., M,R.C.S., Whitstable
Hayward, J.. M.R.C.S., Whitstable ILead, Dr., Carlisle
Mersham. Mr., Winchester
IIIIls, T., My le, Cambridge
Holson, O., F.I.C.S., Bishop's
Storttord
Itolden, J., M.D.,
... Sudibnry
Hollis, Dr., Brighton
Holman, H., M.R.C.S., Hothly
Iovell, D., Elstree
Humphry, Professor, Cambridge 11 umphry, L., M.B., Cambridge Hunt, Dr., Boltor
Hutchinson, $\mathbf{F}$., London
Ilott, J., Whitechapel Infirmary J.

Jaekson, E., London
James, J., M.R.C.S., Condön
Jennings. C., L.R.C.P., Tynemouth

Jeston, T., M.K.C.S.,
Johns, W', S., March
Johnson, G., F.R.C.S., Norwoood
Johnston, J., M.B., Bradiord
Johnstone, A., F.R.C.S.. Brighton Jones, J., L.R.C.P., Glamorgan Jones, J., Cardiff
Jurdison, C., L.R.е.P.., Mälpắ K.

Kaufmann, O., Manehester
Keuny, J., ©M.D., Dublin
Kinder, R., L.F.P.S., Hadueuham

## L.

Lancaster, Dr., London ... .......
Ledgard, W., L.R.C.P., Kirkby,
Lidwell. T., Mir....s., Mörccambe
Lloyd, Dr... Lan. R.Peth Market Drayto...........
Lloyd, T.. L.R.C. P., Market Drayt
Longst aff, G.. M.B.. Wanswater
Longstaff, G... M.B..
Loverrove, Dr., Wales.
Lueas, Mr, Huntingdon
Lunn. J., F.le.C.N., London
Lyaclh, Ir., Lomion
Lyneh, J., M.R.C.S., Sudbury
M.
Belfa

Naceormac, Dr. Belfast
Macclonald, Mr., Perrith
Macdonald, J., M.B., Dorset Asy
lum
Mackenzie., J )r, Gilossop
Maekenzie. Dr. T., Ikugb
Marlagun, J., M.D. Riding Mili
Macnicol, Il., Dalmalley
Maguire, T., Stonv Stritforel
Manhys, A., M.R.C.S., Reetham
Marten, 1'., M.12.U.S., Athugdou
Marten, 12., Cambriclye:
Martin, I. Portlaw
Alathews, 13r.. limtilel
Maude, A., シ.le.C.S., Burnsley
Mannsell. Dr., Welford
May, (t., 31.1). Maldon
Mickley, G.. M.J., St. Lukes
Mnore. Thomas, F.R.U.S., Black
heath
Molony, J., M.R.C.S., Collonney
Morgan, J., F.lC.C.S., Langlond
Muriel, C. Norwich

Newnan, Dr., Staniford
Nioolls, W ", Cork


## Thomas, T., Rhymnes

Thomson, W., F.R.C.S., Anipthill...
Tidswell, T., M.R.C.S., Noreeambe
Turner, G.. M.13.. Hoddesdon ... ...
Tyacke, Dr., Chichester ... ... ...
Tyaeke, Dr., Chichester
Tybon, W., Folkestonc
Vincent, If., M.h.C.S.. Fast Dereham $\begin{gathered}\text { Ir.. Chertsey. }\end{gathered}$
Fores, Dr., Yarmouth.
Voss, JI., Iteadiny
W.

Walford, Dr.. London..
W'alker, Dr., Y'eterborough
Walker, IR., M.D., Wooler.
Warsl, Dr., oxford
Ward, H., M.B., I.लeris $\quad .$.
Wiarren. W., l, R.C.F. Grosmont ${ }^{-. .}$
Watson, Dr., Sunderland ...
Heale, A. L.H.C.P., London
Webster. II., M.D., Loncion
W'olis, Dr. Beekshill
Welis, Dr, Bet kshill
Whipham, Dr., Londos
Whittle, Dr. Inverpool
Whitty, Dr., 11 unstanton
W11ks, G.. M.13., Asbford
Wlliams, L. M. D. Whlucatleg... ... 13
Wlliams, W. G., Wales
Willians, C. Norwich
Whliams, U., L.K.Q.C.1., Holy"-
Williamson, Dr.. $\ddot{\text { Fentrior. }}$
Wilson, E.. Cheltenlum
Wilson, T., M.B., Wolveriampton
Wilson, J., Liverjool ...
Woodd, II., Calstock ...
W゙oosman. Mr. Irecon
…
Lowestolt ... ... ... ........

Oghen, C,", MrR.C.S., Rochdale

Rands, St. J., L.R.C.I.. Ipswieh Ransome, Dr., Bowdodi Heardon, D., L.K.C.S., London Redwood, T., M.D., Rhymney... deve, Dr.i D ,
Reid. D., M.D., Vales...
Rensham. Mr., Buchhu
Rice, L. A., Steventon
Rice, L. A. "Steventon Robey, Mr., Basford
Robinson, A., M.D.. Loundön
Rolleston, $A_{j}$, M. B., Cambridg. ... ...
Ronaldson, J., F.R.C.S., Hadding-
tope, H., $\because$ F.R.C.C.S., shrewsbury
Ross, D., M.B., Brighton ... ... ...
Ryder, G., Sale
Salter, J., Basingstoke ... .... ...
Sanders, J. W., M.D., Bethnal Green
Sanders. G., M:D.,. Loudon
Shean, A., M.D., Cardiff
Siddely, T., F.R.C.S., Bowdon
Sinelair, G., L.R.C.S., Jirliwall
Smalley, H., L.R.C.I.. Dover.
Smith, II., M.R.C.S., Natting IXill,

Smith, W. A., M.B., Newport. Essex. Stear, H., M. R.C.S., Saffron Waldon Steer, A., Jamajea
Stevens, E., Dodington
Stretton, S., M.R.C.S., Kiddermin-
 Sturton, Ir., Norwood
Sntton, J., F.R.C.S. London ...
$\stackrel{\rightharpoonup}{-}$

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## LECTURES

 SUPPURATION AND SEPTIC DISEASES.Delivered at the Royal College of Surgeons, February, 1SSS.

By W. WATSON CIIEYNH, F.R.C.S.,
liuaterian Prolesser: Surgeon to King's Collegn Hospital, and to the luaterian Proman Giren Chllitren's Iloppital; Exanimer in Surgery Pudatington Green chinfens the Unlversity of Edinburgh.

## Lectere 111.

1 mentioned in the last leeture that, as the result of differences in the seat of inoculation, and the anatomical arrangement of the part, there may be differences in the character of the disense produced. Virehow has long ago pointed out that the cause of a disease does not by any means determine the product of the disease, for that depends chiefly on the interual predisposition; thus the same agent acting on the cellular tissue may cause thickening of it, and, acting on the periosteum, may lead to ossification. This is probably in part the explanation of the different types of
disease produced by these pyogenic organisms necording as they act in the skin or in the connective tissue. I have previously mentioned the result of Bockhordt's investigations on impetige and boil, from whieh it is evident that the eharacter of the inflammation depends greatly on the point of entrance, and the seat of development of the organisms, and Garré has also come to the same conclusion.-It seems that in the case of multiple abscesses of the skin in infants, the coccispread into the hair follicles, and sebaceous and sweat glands, and, growing there, set up inflammation and abscess, the process beingsimilar to that whiel occurs in the formaby the tendeney to necrosis. Escherich believes that these differences depend on differences in the degree of tension of the skin in adulta and infants, and more especially in atrophic infants, in which these abscesses are especially apt to occur. It is possible however that, as Boumgarten points out, the greater softness and irritability of the tissutes of the clikd, as compared with those of the adult, play an important part.
The differe
whe different course which is run wy acute osteomy elitis, tions on bones, is also probably due, in the main, to the seat of inoculation. In the latter case we never see the seattered patches of necrosis which so frequcntly occur in the former, and this may le explained by the fact that, in the latter, the infective agents spread continuously in the tissue from the point of inoculation, whereas. in the former, they are earried by the blood, and
may be deposited at various parts, thus giving rise to various foci of disease.

Another example of the influence of the seat of inculation is the difference in the behaviour of the preritonemun as compared with the eellular tissue in regard to the progenic organisms. Th former timee the peritoneal cavity was looked on as one especinlly liable to inthame, and it was thought to be one of the chief triumphs of antiseptic surgery that oplerations could he performed on the peritoneum without lind result. The experimee of a numher of surgens has, however, mow shawn the it not absometer necessary fur success in operations on the prititneum that a inctorin should be excluted frmm the cavity, in fact, this seems to
 other mular tissues.
The explanation of this surprising result is found in the nature of the lining wall of the cavity, and in the combitions under which bogenic organisms then themeshes there. The peritoneum has marvellous powery of alanthing fluils, and thas wfisions into it are rery rapidly remowd, and in this way mich fanisms are deprivel of the necessary nutrient material, whit they are also, tbe hlowh, or excruted. Weenner, who perforned a number of expriments on thia sulject somo years ago. has shown, in a very striting manuer, the great absoritive power of the peritoneumi.

1 may mention one of his experiments. Two hundred cubic centimetres of warm serum were injected into the pritonenl cavity of a rabbit. An lour later the animal was bled to denth, and the amount of fluid then present in the peritoneal cavity was only er eubic centimètres, no less than 134 eubic eentimetres having been absarbed in one hour. Apparently the rapidity of alsorption of fluid depends, in the first place, to a great extent, on the tension
as when the walls of the abdomen are lax or when the fluid itself is small in amount, being absorbed comparatively slowly ; and, in the second place, on the nature of the Huid, fluid of lower specificgravity than hood serum, leading, in the first instance; to transudation from the blood. If we contrast the condition of a wround in the cellular or muscular tissues in reapect of its absorptive power, we find that we have not here an actively aborbing
surface: in fact, the whole surface is for a few hours in the early surface; in fact, the whole surface is for a the injury doue by the
stage of inflammation as the result of knife, and is not only not an absorbing surface, but is not even a he lthy surface.
Wegner has also shown that a great variety of tluids free from hacterin, such as water, bile, urine, blood, etc., may be injected into the peritoneal cavity of rabbits without causing ony had results, and even large quantities of unfiltered air may be
similarly introduced without setting up peritonitis the sourarly introdnced without setting up peritonitis, the air being
soon aboorbed, though by no meaus so rapidly as fluids. If putreseible fluids are injeeted into the peritoneal cavity at the same time that air is introduced, they rapidly undergo decomposition; but this is only the case if the quantity of fluid is too grent to be quickly absorbed. Thus 15 cubic centimètres of put-
reseible fluid iniecte reseble fluid injected into the peritoneal cavity of a rabbit will
usually be absorbed before decomposition hut if as much as 50 cubic centimetres are eroployed, th occur: part is taken up during the first hour, and the rest furnishes a substratum for the growth of the organisms present in the injected air, and these organisms develop with extraordinary rapidity, and may cause the death of the animal from septic intoxication.
In none of Wegner's experiments with the injection of putrefying or putreseible fluids and nir did peritonitis oecur, and Grawitz, who has since investigated the matter, has directed special attention to the conations under which peritonitis is produced. Apparently the explanation why Wegner did not obtain
peritonitis, but only septic intoxication, is that pyogenic isms are not frequently present in the air, and were, thergonnot injected alons with it, and also that they only aet under certain special conditions.
As the result of Grawitz's experiments, the following seem to be the facts of the case: in the first place, saprophytic bacteria are absorbed or destroyed by the peritonenm in relatively enormous numbers; there, hnwever, the peritoneum is abnormal, or
where the quantity of fluid is to and where the bacteria are able to set up putrefaction, the symptoms of septic intoxication, as described by Wegner, result, but these symptoms are unnccompanied hy suppurative peritonitis. In the second place, phachic organisms, when injected in small in such an amount of indifferent fluid as can be readily absorbed, cause no peritonitis. On the other hand, peritonitis occurs as the result of the injection of these organisms if the peritoneum is abnormal : or if, witha normal peritoneum, large numbera of pyoFenie cocei are introduced, or if the cocci are suspended in too Iarge an amount of iluid to be quickly absorbcc. at up if ecessary ammemal conditions of the peritoneum may be set up if, at the
same time that the pyogenic orgausms act which womken or kill the tissue of the peritoneum, and thus provile a suitahle soil for the penetration of the coeci; and above all. if there is a wound of the peritoneal wall in which the infect the arganisms can devel p. The faftors, then, which are required to produce suppurative atrepitoencens ryogenes-along with ton large an amount of tluid In be rapidly alisorbect, or along with disease of the peritoneum, or thimes ves in ton large numhers, or aeting in too great concen-
iration. In other words in order to develop peritoniti must cither be introduced in suet to develop peritonitis, the cocel ducts, that a part of the peritoneum is at onee injured, and thus censes to exercise its normal functions; or they must be introduced into an unhealthy peritoneum, or they must be alle to grow in into an unhalthy pritoneum, or they must
the peritoneal cavity, either because fluid is present in too large a
qaantity to he quickly absorbed, or because the absorptive power of the peritoncum has been diminished, or because some matcrial, such as a piece of blood-clot or a piece of injured or dead tissue, is present, in which they can develop.
it is evident, therefore, that when authors draw conclusions to the effect that aseptic treatment is unnecessary in surgical practice, becanse they obtain grod results in operations on the peritoneum when they take care to introduce as few of these organisms as possible (in many cases probably none at all are allowed to enter), to introduce them in as dilute a state as possible, to remore all the fluid and other materials, such as blood-clot, in which they can grow, and to avoid injury to the peritoneum as far as they can, ther make an assumption which is not at all in accord with other clinical and experimental observations. The points which I have mentioned amply explain the results, and bring them into unison with those of experiments and of clinical experience with regard to other tissues of the body.
Indefinite Conditions on the part of the Body.-Further, we have conditions of a more indefinite character on the part of the body. Thus age, as we have seen, is an important factor in the production of acute osteo-myelitis. This is a disease of youth. and occurs mest frequently between the ages of $T$ and 20 , and 1 hare mentioned the different situations which are attacled in infants and in youths. Other diseases also vary in frequency at different ages: thus spontaneous erysipelas is apparently most frequent in persons between 35 and 45 years of age, and next most frequent between to and 55 . Diphtheria most commonly occurs below 5 years of age, and stendily decreases in frequency as the age increases.

As regards sex also we find in some of these diseases a marked difference in the frequency of oceurrence in the two serestrethus spontaneous erysipelas is apparently much more frequenc in women than in men. Esciblaum found, in 181 cases, that 122 of those attacked were females and only 59 were males. Osteoznyelitis, as we have seen, is most common in males.
it is possible that the state of the digestive organs may haverin important influence on the occurrence of these suppurative diseases, as shown by Kocher's experiments and riews on the production of acute osteo-myelitis. Kocher came to the conclusion, in the case of dogs, that after injury to bone this disease could be induced by feeding the animals with large quantities of putrid materials, and he thinks that in many cases of acute osteo-myelitis the starting-point is a disturbance of the digestive organs, permitting excessive multiplication of bacteria in the intestinal canal and their entrance into the blood. In fact, Kocher holds that an individual in whose intestinal canal fermentative changes of an intense character are going on is practically in the incubation stage of acnte inflammation, which will develop if an injury or some other local depressing cause comes into play. In this way Kocher explains the occurrence of acute osteo-myelitis after typhoid fever, and he relates a case as bearing on this view, in which a girl, shortly after recovery from an attack of epidemic cholerine, knelt for a long time in church, and was immediately attacked by acute osteo-myelitis of the tibia. Kraske, however, who has paid great attention to this matter in post-mortem examinations of cases of acute osteo-myelitis, and has carefully examined the wall of the intestine and the mesenteric glands, both microsconically and by cultiration, states that he has nerer been able to obtain any evidence that the infectire material had entered the hody by these channels. Whether Kocher's riew is correct or not, the possibility that, during the progress of some wound or inflammatory disease, if the digestive organs are rery much out of order, organisms may multiply to a great extent in the intestinal canal, and may enter the blood and thus reach the seat of the local discase or injury, is worth bearing in mind.
It is possible, also, that the nature of the diet may affect the occurrence of these diseases. It has been observed, for instance, in the case of symptomatic anthrax, that calves are more or less immune against this disease so long as they are fed on milk, but that, after this period has passed, and when their diet becones exclusively regetable, they lose their immunity: Arloing. Cornexin, and Thomas explain this by supposing that the milk diet induces a particular constitution of the body which is unfarournble to the development of this disease, but, on the other hand, this may be a mere coincidence, and the cause may be some peculiarity in the youthful connective tissue.
The state of the blood is also of importance; for example, the frequency of carbuncle and furuncle and of ulcerative and suppurative affections and their stubborn course in cases of diabetes
is well known. It is rery probable that part of the explanation of this fact is the presence of the sugar or its chemical progenitors in the juices of the part, leading to the formation of a better pabulum for the development of the micro-organisms, thongh no doubt mnch depends on what we must more vaguely term the general depression of vitality of the tissues caused by the disease. -Dilution of the blood also apparently interferes to some extent, though only slightly, with the rapidity with which bacteria are killed in it. Thus Von Fodor found that if, at the same time that non-pathogenic bacteria were injected, a quantity of water was introdnced into the blood, the bacteria did not disappear so quickly as in undiluted blood. Pettenkofer, in fact, has come to the conclusion that everything which increases the amount of water in the body increases the predisposition of the individual to infective diseases. There is no doubt, also, that other chromic affections, such as albuminuria, predispose to septic diseases.
Acute diseases, such as acnte fevers, also predispose to these affections, as in the case of the occurrence of acute osteo-myelitis after acute fevers, of pneumonia after typhoid fever, etc., probably in part because, as in the case of scarlet fever, the pyogeric cocci are ahle to enter and live in the blood.
Tension apparently has a considerable influence in causing inflammation and in predisposing to suppuration. The spread of' an abscess after it has once completely formed is, no doubt, iargely due to the tension of its contents; for the microscopical examination of the wall shows that the increase is not due to the spread of the micro-organisms, and, further, if an abscess is opened aseptically and well drained, the secretion of pus ceases. The same is seen in the case of wounds, where, if micro-organisms are present, the occurrence of tension from accumulation of discharge is apt to be followed by suppuration, and where, on relief of the tension, the suppuration ceases.
In some cases, howerer, the predisposition is apparently lessened as the result of the action of rariousindeterminate causes, and apparently, also, this lessening of the predisposition may be due to a previous attack of the same disease, though, as regards the organisms under consideration, erysipelas seems to le the only case where a temporary and partial protection is attained in this way.

We now come to the consideration of the conditions which more especially affect the bacteria, and which are not, perhaps, of less importance than those to which we have been alluding; these are chiefly the species, the dose and concentration of the organisms, the virulence, and the concurrent growth with other bacteria.

Influence of Species.-As regards the species, while, as we have said before, the nature of a disease does not by any means altogether depend on the cause, it does so to a large extent; and all writers are now agreed as to differences in the pathogenic action of the pyogenic streptococci and staphylococci. These differences have been previously referred to, and it has been seen that the streptococci are generally associated with erysipelatoid processes, while the staphylococci tend to canse more circumscribed suppurations. The streptococcus is by far the most dangerous organism, and apparently has the property of creeping in the living tissue. spreading in it for a time withont being noticed, and then setting up violent reaction. Fränkel has found streptococcus pyogenes in a great variety of puerperal diseases, especially in the so-called lymphangoitic forms. It gains entrance to the cellular tissue of the pelvis from ulcers in the vagina, spreads in the pelvic cellular tissue, reaches the ligamenta lata and the peritoneum, and, spreading along the lymphatic channels, ultimatcly attacks the diaphragm and pleura; finally it reaches the blood, and causes septiceemia, premia, suppuration in joints, etc.
As regards the other pyogenic cocci, I hare already referred to the differences in their effects on animals, some of them not being pathogenic in rabbits, and some, such as micrococcns pyogenes tenuis, being especially associated in man with mild inflammations.

Dose and Concentration of the Organisms.- l'erhaps the most important factor with regard to micro-organisms is the dose or numbers, and the concentration in which they enter the body. Ogston has already laid stress on the dose as explaining the different diseases which result from the introduction of these organisms, and he looks on the difference between acute abscess, and pyremia as in the main a quantitative one. This, however, is only partially correct, as must now be erident.

Various authors hare, from time to time, mentioned with regard to bacteria, that some act best, or only, when present in
lange numbers, but the matter has not till. reeently beent thoroughly worked out. 1 was led to investigate this matter in connection with some interesting experiments mado ly Sir Joseph Lister, which appearexl to show that one or a few putrefactive bacteria conld not set up putrefaction in blood taken with various antiseptic precautions, while that result was obtuned if a mass of putrefying material was aidded to it. At frst sight 1 did not thiuk that it could matter much, except as regards the rapidity of the result, whether to begin with, one or a million hacteria were employed, but nevertheloss 1 determined to put the matter to tho prool, and to my surprise I found that dinterence in dose was a most important factor in the production and the type of that 1 wases The experiments were made in such a manner duced, the materinl being in the first place diluted to such an extent that, on rough estimation with the microscope 1 obtained a general idea as to the number of bacteria present in a given quantity of tho fluid; a certain amount of this fluid was then injected into the animals, and at the same time a measured quantity was thoroughly mixel with liquefied nutrient jelly which was then poured out on glass plates and allowed to solidify. By counting the number of colonies of baeteris which developed on these plates, ench colony probably originating from a single bacterium, 1 nscertained exactly how many organisms were present in the amount of fluid injected.
Without going into further details, the following are the most important results that 1 obtained. In the case of Hauser's protens vulgaris, I found that a definite and large dose of the cultiration in nutrient jelly was necessary theill rave always injected into the same tissue, for example, the muscles, in accordance with the facts previously mentioned with regard to the importance of the sent of inoculation. 1 found that about रु⿵ cubic centimètre of an undiluted cultivation was a rapidly fatal dose when injected into the muscles, and 1 ascertained that this quantity contained about $225,000,000$ of bacteria ; to cubic centimètre containing therefore about $56,000,000$ bacteria, always caused an extensive abscess, of which the nnimals usunally died in six to eight weeks. Doses of less than' $z^{1} \mathrm{~J}$ cubic centimètre produced no effect; in fact, dases of less than rło cubic centimètre, or, in other words, fewer than about $18,000,000$ beteria, seldom cansed any result. From rlo $\frac{10}{}$ zo cubic centimètre caused abscesses; above $\gamma$ ocubic centimètre caused death in twenty-four to thirty-six lours.- Further, If sbo cubic centimètro caused any effect at all, it was only a very slight trace of opacity which soon disappeared, while ta* culic centimètre caused a large and spreading abscess, ultimately resulting in the deatls of the animal, and intermediate doses proAuced abscesses intermediate in size.-Further, the concentration of the lacteric material is also of great importance, as shown by the fact that the dose must act at the same place, at the same time. It apparently will not do to split up the dose and inject various portions of it into different parts of the snme animal at successive poriods of time, or even at the same
the effect of the smanler dose is produced.

1 have tested this matter in the case of n number of other infective diseases, and have fonnd that the result depended mainly on what we may, for want of hetter knowledge, term the predisposition of the animal to the discase. Thus in the ease of mouse septicenias, mice, which are extremely susceptible to this disense, die as the result of the injection of a single bacillus, while the only result of the injection of 4 culic centimètrea of $a$ jelly cultivation, containing myriads of hacilli, into the hase of the car of rabbits, is to cause illness for a few days, along with slight swelling and reflness of the mart. In like manner, in the case of chicken cholera, rabbits die apparently as the result of the introduction of a single microbe, hut a consillerable number-some where hetween $150, \mathrm{MO}$ and 300 , (10)-aro reçuired to canse the death of a guinea-pig; and here again we meet with the fuct that where the nnlmal is loss predisposed to the discase, we have different effects, accerding to differences in the dose. As I have said. 300 , pro bacilli are apparently able to kill guinea-pigs; as the result of a smaller dose, down to $10,0 \mathrm{kn}$ bacilli, suppuration follows their injection ; helow 10,000 lacilli appmrently no effect is produced. In the case of staphylococens pyogenes anreus. I havo found that it was necessary to inject something like $1,000,000,000$ cocci into the muscles of rabbits, in order to eause a rapidly fatal result. while $2000,000,000$ produced a small cirenmgcribed abscess. The snme result was obtained with staphylo-
coceus pyogenes albus, only apparently fower cocci were required. In the case of the tetanus bacillus, death diu not occur in rabbits when fewer than 1,000 bncilli were introcluced.

I think that in these experiments a good deal depends on the simultaneous action of the products of the bacterin, and lyould suggest the following explanation of the facts. When the animals are not very suscepptible to the actiou of a bacterimn, the cells and where a large number of bacteria are introduced at one place they grow for a time before they are attacked by the cells, and, growing there, each produces a small quantity of poisonous material. The products thms formed mist interfere with the action of the cells, and thus enable the bacteria to gain a foothold. The nore bacteria are introduced at one time the more of thest products will be formed, the more extensive will be the foothold, and the more marked will be the result. Where only one or a few bacteria are introduced into a slightly susceptible animal, they are overpowered by the cells and quickly destroyed. When the number of in their vicinity, and enable the bacturia to spread orer a large area before the cells collecting around them are able to form an efficient barricr against their progress; and where the dose is very large no efficient barrier ean be set up in time, and the death of the animal is the result. Thus the extent to which the organisms spread, and the violence of their action in animals not very susceptible to the disease, depend, first, on the number of bacteria secondly, on the ritality of the animal and the rapidity with which a granulation wall is formed.
The facts made ont in this research enabled me to lay down the follawing laws. In the first place, the pathogenic close of a virus vaides inversely, with the predisposition of the animal to the disease in question; the greater the predisposition to the disease,
the less is the quantity requir disposition the qreater is the number of becteria the less the pretroduced to produce the same effect. Of course the term "prediposition" is an absolutely indefinite one, but 1 have already discussed a number of conditions which go together to make up prodisposition, and it is a convenient tern, as expressing a complex set of conditions which undoubtedly exist, but abont which we do not know very much.- A second law is that, in animals' which are directly, wisceptible to $n$ disease, the soverity of the affection varies In all the affections of this class which 1 investigated, I found three stages, according to the dose injected: first, a stage where, with a small dose, no apparent effect was produced; secondly, an intermediate stage where a local affection resulted, the extent of the local affection depending to a great degree on the dose of the virus; and thirdly, a stago where, after a very large dose, death occurred. Of course, as predisposition varies in the same species of animalfor example, in man-we cannot measure ont the dose nor calculate the effects of a given dose in each instance.
The importance of these facts as regards close is very great in connection with our subject, for man is not very susceptible to the action of pyogenic organisms, and the results produced by then vary to a great degreo in accordance with the second law. In the case of wounds, it is important to know that apparently in man a single pyogenic coccus might possibly do no harm, unless indced it met with conditions, such as retentiou of fluid, under which it could grow: At the same time, 1 doubt if a single coccus many individunls, anil as a rule they occur m masses containing large instead of a small dose. And there is uo doubt that man is very much more susceptible to the action of these organismas than rabbits, and, therefore, a very much smaller dose will probably produce the same effect. These facts as regards lose probably explain to some extent the fuirly good results oltained where, by gross partiolempts at antiseptic work, the introduction hacteria, is avoided, and where, conscluently, tho effect of the injection of a small instead of a large dose of the virus is obtained.

The importance of dose has, as 1 have said before, heeu mentioned by varions observers. Thus Ribbert, in his research on experimental myo- and endocarditis, already referred to, found that in order to obtain the desired result it was necessary to inject a considerable quantity of the cultivations. Thus a l'ravaz syringefour hours: if the dosc was somewhat less, the animals might live
even for five days*; if only onc-sixth of a syringeful was injected, the animals lived still longer, and endocarditis was not produced, -Iu the case of symptomatic anthrax, the rolation of dose to the production of disease is extremely marked, a small dose either producing no effect at all, or only local reaction, which, however, may suthice to render the animal immune, while a larger dose causes the death of the animal.

Virulence.-It is also important to remember that organisms may vary in wirulence at different times, and that the greater the virulence of the organisms the less are other conditions necessary to enable them to gain a foothold. A virus, or, at any rate, most viruses, is, as regards virulence, not a fixed quantity ; it is, in fact, in a constant state of variation under the influence of the external conditions under which it finds itself. I need not refer to the well-known facts with regard to variations in virulence in the caso of anthrax, chicken eholera, swine erysipelas, ctc., as the result of the mode of cultiration employed outside the body; but I may mention some of the points which seem to bear especially ou the pyogenic organisms. In many cases it is found that as the cultivations carried on outside the body become older, so the rirulence of the organisms is apt to deerease. This is very well seen in the case of Fränkel's pneumonia coccus, which loses its virulence within two or three days, when grown in the same medium outside the body, and which, if its virulence is to be maintamed, must be reinocnlated frequently, and passed from time to time through the animal hody. It can be readily seen, also, that stapliylococcus pyogenes arreus grows most luxuriantly in the early cultivations from the body; but after it has been artificially cultivated for some time, its growth is by no means so rapid. Emmerich states with regard to cultivations of erysipelas cocci that they rary much in rirnlence, and that the longer the time between each fresh inoculation, the less is the virulence of the culture; in fact, the erysipelas coeci can be readily attenuated to such a degrée that they ean no longer kill mice.
It is important also to remember that where the virulence of an organism is diminished, its effects on animals vary in accordance with the second law; thus if a considerable number of attenuated anthrax bacilli are injected into rabbits the result will be, not a general fatal disease, but a local inflammatory affection, with possibly the production of abscess, rarying in degree to a certain extent with the amount injected. In fact, the effect of the attenuated organisms on animals highly suseeptible to the virulent virus is the same as if virulent organisms were injected into less susceptible animals, aud consequently, in order to produce the same effect as the virulent organism, correspondingly large doses of the attenuated organisms are required. Thus Kitt and Inueppe have found that they could obtain the same result by injection of the organisms of an infectire disease of deer into animals if, as the organisms lost their virulence, the number of microbes injected was increased. These facts are also important as showing how, even in a mild epidemic of a disease, where the rirulence of the rirus is not rery great, bad cases may occur where extra large doses of the virus lave been taken in, and this is probably in part the explanation of the occurrence of isolated serere cases in the course of a mild epidemie.
It is further important to remember that loss of virulence may not only be due to the ordianary conditions of growth, bat may result from the action of varions chemical substances. Thus carbolic acid and other antiseptics apparently diminish the virulence of anthrax bacilli, and it is possible that something of the same kind occurs with regard to the pyogenic cocci in wounds; and this may to some extent explain why, at the present day, although byogenic cocci occasionally enter wounds treated aseptically, they sometimes do but little harm, less harm, in fact, than when they enter wrounds in the treatment of which these antiseptics are not employed. It is quite possible that in growing in fluids containing a minute amount of an antiseptic, they are deprived, at any rate to some extent, of their virulence.
is regards inerease of virulence, a very curious observation has becr made in reference to the bacilli of synuptomatic antluax. It acill to a fluid containing these bacilli meresces quantity of lactic acill to a fluid containing these bacilli increases the virutence of a
very attenuated virus within a rery short time. Thus Arloing, Corncrin, and Thomas found that if to a fluid containing these bacilli $3^{\frac{1}{0} \sigma}$ part of lactic acid is added, and the mixture allowed to stand for twenty-four hours, the pathogenic power is inereased twofold: if then a little wator, containing a rery easily fermentescible sugar, is added to the mixture, and another twenty-four
hours allowed to elapse, the rirulence has attained its
and frogs inoculated with this virus die in from twelve to fifteen lours, whereas when inoculated with ordinary virus they live forty to fifty lours. Kitt has repeated and confirmed these experiments, and he mentions the following. A small quantity of the vaccine material-that is to say, the attenuated 1 irus of $s y m-$ ptomatic anthrax - was divided into two parts, of which one was mixed with water, and injected into two guinea-pige, while the other was mixed with the same quantity of water, to which three drops of lactic acid had been added; this mixture, after standing for six hours, was injected into the other two guinea-pigs. The result was that the first two guinea-pigs remained well, the virus being rery attenuated, while the last two grinca-pigs died of typical symptomatic anthrax within twenty-four hours. With regard to this point, it is morthy of note that the progenic cocci, as I am aware, there is no evidonce that, under these circumstances, their virulence is altered. Something of this kind may, however, be the explanation of Ogston's results; be found that if pyogenic cocci were grown in eggs, their virulence was increaseel, and he attributed this result to the absence of oxygen. I testerl this matter with regard to the possible alteration in rirulence when grown in various gases without being able to make out any noticeable difference; but it may be that, in Ogston's experiments, some chemical substance was present in the egg, or was proluced by the organisms when growing in that material, which led to the increase in virulence. The fact with regard to lactic acid does not apply to the coccus of peumonia, which, according to $A$. Fränkel, loses its virulence most quickly when grown in milk, and, in his opinion, this is due to the presence of lactic acid produced by them. Whether or not this faet has any bearing on our subject, it is worth remembering as showing what slight and unexpected canses may alter the virulence, and thus cause a difference in the result of the action of these organisms.

Concurrent Growth with other Bacteria.-We have also to consider the effect of the concurrent growth with other bacteria, and we shall find that the result may be either to increase or diminish the pathogenic action; in man, in all probability, the pathogenic action of the pyogenic organisms is generally increased. When two organisms grow together in the same mediuns outside the body, they either do not interfere with each other, or, what perhaps most frequently happens, one of them gains the upper hand in the struggle for existence, and, if a number of bacteria gain access to a wound, a struggle for the mastery at once commences between the different kinds. In wounds, this struggle in most cases probably ends in favour of the pyogenic cocci, and as the result of the concurrent growth other factors come into play which still further aid their aetion. Thus, although the pyogenic cocci gain the upper land, the putrefaetive bacteria may aid their action very much, for the products of putrefaction, when absorbed, act in an extremely poisonous manner, depress the ritality of the patient, and may thus enable the cocei to live in the body; and locally these products iujure the young granulation tissue of the wound, and may thus open up an entrance for the progenic organisms. 1 liare already referred to the experiments made by Grawitz and Scheuerlen or cadaverine and putroscine, products of putrefaction, and it will be remembered that the experiments showed that these substances, When present along with the pyogenic cocci, enabled the latter to obtain a foothold iu the body. -The bad effects resulting from the concurrent growth of different kinds of bacteria is also very evideut in tubercular cases. If a sinus leading to carious bone the wall of which is lined with tubereles coutaiming tubercle bacilli, becomes the seat of development of these pyogenic cocci, the result may be-in fact, generally is-a more rapid growth of the tubercle bacilli; aud it seems that it is just in these septic cases. especially where irritating injections aro also employed, that the danger of further and general tubercular infection is greatest, the local depression of vitality produced ly the septic organizms enabling the tubercle bacilli to grow more luxuriantlr.

Then also in some instances it appears that a mixed infection is more dangerous than a pure infection. Thus, in some cases the presence of more than one kind of pyogenic organism apparently increases the severity of the suppurative process. Kiraske, for example, has observed in acute osteo-myelitis that the eases were most severe when the infectiou was a mixed one, that is to say. when the disease was caused not only by the staphylococens pyogenes aureus, but where in addition "albus," and in some cases the streptococcus pyogenes, were also present; and. as a result of his observations, he thinks that the discorery of mixed infection
in acuta osteo-myelitis ought to lead to a bad prognosis, Probably; also, one reason why wo so schlom at the present day see the extremely bad septic cases formerly described is that, even whore the treatment is not thoroughly useptic, such precautions are taken as to exclude not only gross misses of dirt-in other words, large numbers of the organisms-but also a great mixture of them. And this is possibly also in part the reason why, were of nore work on ance in wounds thed micrococci, for 1 observed that the wounds in which both organisms were presont did not pursue so favourable a conrse as where the cacci alone wera found.

Apparently, however, in somo cases the presence of two species of pathogenic organisms is better for the animal than if only one species wero present; and, although the facts as yet made out have no direct bearing on the production of suppuration, yet, as they are of great interest, and as something similar may occur in tho case of the pyogenic cocci, I shall mention some of the experiments. A number of observers have attempted to utilise the antagonism which exists between certain species of bacteria in cultivations outside the body as a means of cure when the body is attacked by organisms, lut till quite recently these attempts have not been followed by success. Emmerich, however, has lately performed some very remarhable experiments on rabbits, showing the value of the errsipelas cocci as a protective and curative agent agaiust anthrax in these animals. For example, in one set of experiments rabbits were first inoculated with large numanthrax bacilli were iuproduced. Of fifteen animals treated in this way, seven recovered, while all the control animals inoculated with anthrax alone died; of the seven animals which died after inoculation of hoth organisms, some succumbed to the anthrax bacillus and some to the erysipelas organisms. The results were not so successful when, after anthrax had been set up and after symptoms of disease had appeared, erysipelas cocci were injectel subcutaneously; but they were somewhat better where the erysipelas cocei were injected into the blood stream. - In a Iater paper Emmerich and Mattei communicated results obtained by injecting erysipelas cocci into the circulation and subcutaneously in raboits about twenty-four hours before infection with anthrax. They found that in rabbits in whose bodies large numbected in erysipelas cocci were present, anthrax bacilli, though inseventeen hours, and could not he found either at the seat of injection or in the blood and internal organs, whether by microscopical examination or by cultivation. The bacilli were evidently unable to penctrate into the blood or internal organs, nor conld they cause any local reaction or odema; in fact they rery quickly died out. - Perhaps still more remarkable are the experiments performed by pawlowski. He foumd that, after injec-
tion of a mixtare of erysipelas cocci and authrax bacilli under the skin of seven rabbits, only two died. Pawlowski Has also made the important discovery that the erysipelas coccus is not the only organism which interferes with the growth of anthrax in the body. Thus, ten rabbits were first inoculated with antlirax bacilli and then cultivations of micrococcus prodigiosus were injected subcutaneonsly into "ach animal on two occasions two and twenty-four hours after infection; of these ton animals, eight recovered. He also fonnd that subpnemmonia cocci were not fatal to rabbits, and that subcutaneous anjection of cultivations of anthrax hacilli and staphylococcus pyogenes aurens was not followed by the death of the animal; four rablits trentel with "aureus" recovered.

As to the explanation of these facts, limmerich and I'awlowsky come to wery much the same conclusion. Apparently, with the exception of the pheumonia coccus, anthrax bacilli grow realily outsidn the borly in cultivations containing also tho other organiams mentioned, auch as the ergsipelas coccus. Hence the explanation eannot be that the erysipelas cocci per se presenter the growth of the anthrax bacilli in the hody. It seems to be rather increase their destructive power; it may be, as limmerich suggests, that this irritation leads to a slight alteration in their physioIngical functions, so that they excrete some chemical substance which is very injurious to the anthrax bacilli.

How far these facts may be applied to the treatment of anthrax pustules in man, where cither from the situation or the size of the pustule excision or cauterisation is impracticable, is a question very difficult to answer, but it seems to me that wo mnst await
the results of further investigations before any attempt to apply them practically in man would be justinabie.
facts are well worthy of note as uffording another example of what unexpected factors may come into play if wo once admit organisms to wounds.

Zocal and Seasonal Conditions.-lastly, wo have certain local and seasonal conditions which appear, in some way or other, to inlluence the occurrence of some of these diseases. For exaniple, that spontancous erysi into this matter very carefully, finds that spontaneous erysipelas occurs most often apparently, in
February, then next most frcquently in Jovember, and frequently in July. Apparently the cold months, and least where there is most moistaro and greatest variations in temperature, show the largest number of cases, and Eschbaum summarises the facts by saying that the cases are most numerous when we have marked variations of temperature, with a medium leight of the barometer and a high degree of moisture. In the case of diphtheria also, cold and moisture scem to be a great predisposing cause, most cases occurring abont the months acute osteor and December. Kocher and Lucke have found that besides the seasonal conditions, the confinement in badly-veutilated rooms, foul air, and want of exercise which come into play more frequently in cold and wet weather than in summer, have an important influcnce on the result. In the case of diseases of animals, more especially in the case of anthrax, there is a very marked relation between the season and the ontbreaks of the cpi-
demic, the disease apparently moisture and high temperature As regarls anthrax, Chauveau has shown that increased atmospheric pressure tends to cause a loss of virulence.

As an example of the influence of locality on these suppurative diseases, we have the greater frequency of acute osteo-myelitis in certain parts; for example, this disease seems to be more frequent in Berne than anywhere else, and, according to Volkmann, it however, are rather impressions than actnal statistical facts.

We thus come to the end of our considerations with regard to the factors involved in the production of suppuration and septic diseases. , but nevertheless, enough has been rained to enable us to judge what are the most essential factors which come into play. That the pyogenic organisms are essential for the production of these diseases as they occur naturally there can no longer be any doubt; lut in many cases much depends on other conditions, of which the chief probably are the dose or number of the organisms and their concentration, general and local depression of vitabity, and the seat of inoculation. If the sistance of the body, they alone may canse the disease; frequently, however, they enter in smaller numbers, and then other conditions become necessary to cnable them to act. Of these conditions the clief are, as I have said, depressed vitality-either in the gencral-combined with the possibility of their remainung brought about by conditions actiug on the body generally, such as acute fevers; or by local conditions, more especially those which induce the early stage of inflammation, such as cold, injury, chemical substances, the products of the bacteria themselves, or the products of other kinds of bacteria which may happen to be growing along with them. Or again, the favouralle condition maj be some peculiarity in the soil, as shorsn by variations in the
claracter of the disease in accordance with the seat of inocula tion and the anatomical arrangement of the part. The only factor, however, as I have said beforc, with which we can reekon with certainty, is the cocei themselves.-I need not enter into details as to the pathology of all the various suppurative and septic discases, it will be easy for anyone to apply the facts which have been stated to each case; but in conclusion, 1 should like to make one or these organisms into wounds.

Occurrence Outsidethe Body.
These orcanisms are fairly widely distributed outside the bolly. In the air they have only been found on a rery few occasions, and in very suall numbers. Staphylococcus pyogenes aureus has been found on one or two occasions in the air of surgical wards, as has also the streptococcus of erysipelas. Experiments have been male as to the presence of the latter organism in the air of
wards in which erysipelas patients were present, and they have in'one or two instances been found in small numbers; as a rule, however, they are apparently present only when the patients are in'a state of convalescence and when desquamation of the skin' is occurring,' and it seems highly probable, from the observations thit have been made, that they are carried in the cutaneous scales tlirown off during désquamation. Frysipelas cocci hare also been found in a posit-mortem room where cases of erysipelatous infection had occurred, and in this case the infection was supposed to have come from the floor. The pyogenic organisms are very rarely present in putrefying fluids, but they have been found on decomposing heef; and in the water efoployed in kitchens for rinsing dishes; they are also sometimes present in the superficial layers of thesoil. One of their nost common seats outside the body is the stirface of the skin, and they especially occur in parts where the skin is moist, for example, in the axille, between the nates, between the toes, etc.; they are also frequently present in connection with the hair, and in the dirt beneath the nails. Fränkel has found them in the secretions of the healthy pharynx, and Bockhardt found "uureus" and "albus" in large numbers in the nasal mncus of a patient suffering from chronie catarrh of the nose, and, at the same time, affected with sycosis of the upper lip

## Mode of Extrance into Wounds.

As regards the entrance of these organisms into wounds, they may get in during an operation from the air, from the instruments, and hands of the operator or his assistants, from surrounding objects, or from the skin in the neighbourhood of the wound. 'We are now, however, sufficiently acquainted with the various precautions necessary to prevent the entrance of these organisms, and it is a comparatively ensy matter to leave a wound made throingh a previously unbroken skin without any pyogenic organisms in it.
In the after-treatment of wounds there are two situations where the:battle with these parasites may'take place; it may either occur outside the wound, the organisms never being allowed to enter it, or it may take place inside the wound after their entrance has been permitted. It is hardly necessary to remark that in case of war wet try, if possible, to carry the war into the enemy's country, at all erents, we do all we can, by guarding the passes and borders, to prevent the enemy from entering our own country; and in like manner, in the case of wounds, it seems to me that it is much better to keep these pyogenic organisms out of the wound and to do battle with them outside the body, than to let them enter and trust to the efficacy of the tissues to repel their attacks. For once they have entered the wound, it is but little that we can do to aid the action of the body, and what little we do do has to be done with extreme caution, for not uncommonly our efforts, instead of being of service, do a great deal of harm. As I have said, it is comparatively easy now to keep these pyogenic organisms out of a wound while it is being made, and to leave the Weund withont any of these microbes in it ; the problem is to prevent their entrance afterwards. In this case, however, we have at- any rate succeeded in transierring the field of battle from the interior of the wound to the surface of the body, and we have no longer to trust to the imperfect and but little understood action of the tissues; we can step in with vigorous action without any fear of doing harm. For it cannot be too much insisted on that antiseptic dressings are not, in their essence, applications to wounds; they are applications to the discharge which has come from the wound and to the skin around it.
As to the mode of entrance of these pyogenic organisms aftè the operation, they may get in while the dressing is being changed, either by falling in from the air, though this must be of rare occurreuce seeing that they are so rarely present in the air, or hy contamination by the surgeon's hands, instrumente, etc.; but this is also very easily a voided, and ought not to occur. Usually they spreal in either through the dressing or beneath it during the interral between the change of dressings. In my opinion they wost commonly spread in by growing in the disclarge which is lying between the dressing and the skin, and in the superficial layers of the epidermis, more espeeinlly in the latter; for as tlie result of the irritation of the antiseptic employed there is. hypertrophy of the epithelium, and thus a large number of dend epithelial cells are present, which, being soaked with the discliarge: form a good nidus for the derelopment of the bacteria, unless, indeed, enough
of the antisprtie has been conmunicated to the discharge, of the antiseptric has ben conmunicated to the discharge and the
'pitheliun from the dressing to reuder it an unsuitable soil for pithelimin from the dressing to reader it an umsuitable soil for
, growth of organismes. If this is not the case, the vrganisms
will'go on growing in the substance of this dead epithelium, protected by the superficial layers from the action of the dressing; and thus they may, if a dressing is left on tor too long a time, ultimately reuch the wound. This is not a mere theoretical. speculation, for I have been able to trace the developroent of the organisms beneath the dressings, from their margin towards the wound, the extent to which they spread rarying with the length of time that the dressing has been applied.
If these views as to the mode of entrance of bacteria into wounds are correct, it follows that it is very important when i dressing is changed to wash and thoroughly disinfect the skin around the wound as far as the dressing extended, and beyond it, with an antiseptic lotion, care being of course taken by covering up. the wound not to infeet it while so doing. If this is done, then at each change of dressing the field of battele is transferred from the neighbourhood of the wound to the margin of the dressing, and in accordance whlth the size of the dressing, this battlefield will be àt a greater or less distance from the wound.
I shall not enter any further into the subject of the treatment of wounds. We have now at our command a large number of antiseptics which more or less answer the purposes required, and it is only by careful attention to the exclusion of these organisms) that we can obtain the best results. That we can conopletely exclude these bacteria from wounds-both at the operation and afterwards-I have. been able to ascertain by iumerous experiments ; and that, just in proportion as we, are successful in so doing, we are to a like degree freed from the occurrence of suppuration and septic diseases, and can to a like degree reckon with confidence on rapid and painless healing of wounds with the least disturbance to the patient, is a matter now of everyday obser-I vation.

## List of the Chief Papers referred to in the preceding Lectures.

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OASF, OF OEFEBRAK ABSCESS IN CONNECTION WITH, OCTLIS MEDIA, SUCCEESFELLY DIAGNOSED AND EVAOUATED.

BF DAFID' FERRIER, 31.D., F.R.S.',
Physichan to the Niational Hospital for the Paralysed and Epileptic.'
Tare case which i have the honour to bring lefore you this ereni $\%$ is one of the few cases of cerebral abscess in connection with disease of the middle ear which have been accurately diagnosed during life, and suecessfully treated by operation. For though abseess of the brain is a rery common occurrence, in counéctiou with inflammation of the oar, and perhaps more frequently in chronic affections of tris kind, it is 'generally the subject of post-mortem record, rarely accurately' localised during life, and still móre rarely treated successfully:
I haveouly been able to find two cases of a similar nature. Ono of these has been recorded by Gowers and Barker (Jourvať, Deceraber 11th, $128 i$ ). This wis a case of abscess in the right tempero-sphenoidal lobe, diagnosel without external indication, beynd the fuet of intlamination of the ear, and successfully evacuated. The seroud han been recorded by Greenfield (Jouncal, Felranry 12th, 1557): This was a case of abscess situated in the anterior part of the left tompuro-sphenoldal lobe, in which, in addition ta tho ghmeral indications of abscess, there ware eymproms of perssire on the third nerve, a fact which prodibited the; localisarim nof the seat of the abscess.:
Two dhers have been reflrred to by Greenfild, namoly, a case reported by Schonlorff (Wonat sschrift fiir Ohrenkeiflewnde, 1885 , Xo. \#): nut a \& cond by Truckenbrol (trinislaterl in Archives of Otuhgy, June to September, 1 Rvi(i). In both these cases, howerer: there wert, in adultion to the general symptoms, axternal indicatinns of the sert of the abserss in the form of localised pain and (1.7ema of the ekull; and a listula leading from the primary seat of dísrabe.
The fist uld in Truckenbrol's case led only thilet the perieramiun to a rough place on the outside of the horie, while in schondurff"s which the dur had ment ratcol. These two casis. therefore by to lop placed in is different fategory from those of cowors and Barker and Girecutield; hat a successful result was obtained in' all.
of the sicerssful result in the case I bring before you this "vening yon will all be mble to convince yourvelves, as fle quon-
 Ya the evening of Butmber 8 hh, 1887, 1 was asked hy Mr. T. W. ronfin to see with hima $n$ case under his care, the history of which hit related to me, onil subseguently gave se the following datailen notes.
T. II., ageil ti, a skilled nrtisan, was first seen by Mr. Coffin on Soumber geth. He hat hen ill since Jovemher loth. On the isth a discliarge, somewlat offonsiwe, had come from the left ear, which contiuued for almut eirlit or ten days. When lirst seen he
was la a drowsy condition, but was capable of being roused, and replying to questions put to him. He conplained of pring over the lefit side of the head, forehem, and back: of the eyes, witly ar considerable degtee of photophohia. The pain on the left' side of the head was interrupted by pressure and percussiota Thero was slight discharge lrom the left ear, hat the ear could not be thorouglaly examined on account. of the tenderness: I The pupile acted normally, and vision nippeared unaffected. -There was no motor or sensory paralysis. The pulse was' 52 , weak and inter-
molte mittent ; respirations 14, jaboured and sighing. The temperature wes normal:
Mr. Coffin ordered the ear to be syringed:with weak Condy's fluid, and preseribed a stimulant.
Next day the patient was brighter. He had less pain in the hend. He was able to sit up in hied and smoke a cigarotte, but be oont inued very drowsy and slept much.
On'the 27 th, $28 t h$, nid 29 th the was still impraving. The temperature was normal, the pulse regular, and the tongue cleaner under the influence of a salind misture and small doses of mercury. The discharge from the ear was more copionsithon it had boen. There, was very little tenderness on peroussion of the left side of the head. The patient was generally asleep, but would rouse up for an hour or so, and occasionally smoke a cigarette.
On to he disturbed. At times it was very difficult to rouse him at all He complained of more pain at the back of the eyes and genoral headache. 11 is pulse was 60 , respirations 16 , and temperature absolntely normal.
On Decomber lst and Ind the condition was essentially the game. There was no increase in the headache, but the drowsiness was greater.
Early on the 3rd he hall become temporirily delirious, and had fallen back exhausted, but during the rest of this day and next there was no noterrorthy change in the symptoms.
On the 5th, Mr. Coffin thought there was slight weakness in the right angle of the mouth, but so slight that it was considered somewhat doubtful by those who were acquainted mith the usual expression of face.
On the 6th, for the first time there Trere indications of affection of speech. He used wrong words', and seemed angry at nat being understood when he asked for what he wanted.
It:was on the evening of the 8th that 1 sam the patient. Ife Was at that time less drowsy and much clearer in his intellect than he liad been for some time previously. 11 e was able to sit up in bed, and talk, but his words were incoherent and for the most part unintelligible. He appeared to understand simple questions, hut at other times appaired confused and uriable to understand. He called things by wrong names. When asked to read a few scntences fromi a journal placed before bim, the words he uttered had little or no resmblanco to those before him.
There was no appreciable defect in the mobility or sensihility of his limbs, but, the right angle of the month acted less energetically than the left. Examination of the eyes, carried out Wita some difficulty, revealed signs of optic. neuritis, but a more
thorough inve till the following dion of this and ather conditions was reserred ly Mr. Collin, and the pationt's eondition as seon.by myself, I confirued the opinion passed ly Mr. Coflm that it was $\pi$ rense of abscess of the brain, in connection with disease of the middle ear, and 1 considered that the position of the abscess was fairly indicated by the symptoms.
The case. seemed to me to be one which ought to be dealt with speetlily, and I advised immediato removal to the libepital, with a view to further careful investigation and operative measmres. The patient was removed the next morning to the Xational lospital for the laralysed and Epileptic, under bay care. At this time ho was conscions, and complainod of no pain anywhere. He roplied to questions, but frequently used wrong words withont roeming to bo arare of the fact. Ito occasionally hesitated to do
what he mete standing was told, appearing as if he had somo difheulty in underof the riglit sugle of the mouth, and thongh he couht make every movement with his right hand, it was found that the crasp of the right, hand was only 80 lbs., whereas that of the left was 100 has., the patient being a right-lianded man. Thin tendon ronetions were active on hoth sides, and there was no appreciable
differenco difference between thase of the left and right. There was no aftection of senation. Ocular movements were normal, and the pupils equal and contractile. Ophthalmological examination
(verified by:Mr.! Brudenel! Carter) showed the existence of wellmarked opytic neuritis, with a small hemorrhage over the right disc, and a whitish band helow that of the left. The'senses of tasteand smell were normal. The patient could hear a watch 15 inelues from the right ear, but only, on centact on the left side. The left auditory mentus, was filled with a purulent seeretion, which preverted a view being obtainerl of the condition of the membrana tympani, und it was considered not adrisable to attempt to remove this at the time.

Though the patient complained of no pain in his head, I found on cureful examimation that there was a spot tender to pressure and percussion situated two inches above and just anterior to a line drawn uprards from the external anditory meatus.
From the results of my examination on this and the previous day, I had no doubt that the patient was suffering from a eerebral abseess. The comparatively rapid onset of symptoms indieative of cerebral mischief in a man previously in good bealth, coincidently with signs of inflammation and purnlent discharge from the left ear, were in farour of aloseess rather than tumour. Tlsere had been no vomiting, convulsions, or febrile disturbance or other indieations of meningeal inflammation.
The fact that there had heen no rise of temperature did not exelude the idea of encephalitis resulting in abseess, for many cases of cerebral alscess appear to run their course without causing febrile disturbance, the temperature being in some rather subnormal than the reverse. The position of the abseess, rerified by the operation, was determined both from the symptomatology and the position of the pain experienced on pereussion. The relative weakness of the right angle of the month, the atayic speech, and slight degree of word-deafness, indieated that the disease was situated in close proximity to the speech and anditory centres of the left hemisphere, but not actually destroying them; and the conditions of such a lesion wrould be supplied by un ahscess situated in the anterior third of the temporo-sphenoidal lobe and abutting or pressing on the fissure of Sylvins.
This localisation from symptomatology 1 considered confirmed by the diseovery of a spot, tender on pressure and percussion, eoinciding in position with that part of the superior, or superior and middle, temporal conrolution which lies immediately posterior to the ascending limb to the fissure of Sylvius, and below the inferior extremity of the aseending frontal conrolution. I would not consider the position of the tender spot as by itself a safe guide to the localisation of alseess or other cerebral disease, for the pain may be referred to a region at a considerable distance from
the disense. Thus Mr. Julke (Brit. Med. Journal July 3rd; the disease. Thus Mr. Julke (Brit. Med. Journal; July Brd; 1886) records a case in which there was a tender spot above the ear. Whereas the abscess was in the cerebellime and in a second pain was felt aentcly in the oeciput, whilst the abscess was in the temporo-sphenoidal lobe.

But when, as I pointed ont many sears ago, there is pain on percussion not spontaneously complained of orer a region indicated by the symptoms as, jrobably the; seat of disease, the localisation is rendered all the more certain. I was therefore confident that an abscess would be found in the position indieated, and was of opinion that-no time should be lost in resorting to trephining with a riew to its evacuition.

My colleague, Irofessor Fictor' ITorsles, after 'consultation on the ease, coneurred in my views, ani operated accordingly on the following day. I need only remark that when the dura mater was removed over the region indicated, the brain, whieh had a normal appearance on the surface, was seen to bulge forward into the opening in the skull, a sure indication of pressure underueath; and on; puncturing with a troear, a considerable quantity of inodorous pus-abont five drachoms-welled out through the eannula. The subsequent history is one of uninterrupted. recovery: The optic ueuritis gradually sul)sided. Aready, on the fourth day after the operation, the optic dises were clearing, the margins were becoming defined, and the extravasation of the elge of the right lise hard disappeared.
On December 2.3 rl the left dise was apparently quite normal; the right was still a little veiled, hut the, effused blood was no longer visible.
'On Junuary 3rd no difference could be perceived in the action of thetwosides of the face. At this time the wound had heeomequite cicatrised. The removal of the surgicnl dressings allowed of a been previously considered the condition of the left ear than had been previously eonsidered adrisable. After examiuation of the
ears on Janury 18th Mr. Cumberbuteh reported that. the diselarge from the left ear had entirely ceased, and there that. the discharge
condition of the external auditory meatus. Hearine, right ro\%
left $5^{\circ} \%$.
lrocess conduction was normal, inrlicating mischiof confinditd? the midulp eur.: No perforation could be fletecterl in the membrana tympani, but it was thickoned, entieular in arfomanew, and purely granular. There was a slight opacity-prnhaly cicatricial - behind the handle of the inallens, and rather abore the eentre
of the membrane.

Before leaving the ho-jital the patient gave me the following personal details of his case. IIe tirst complained ef pain in the left ear on Tuesday, Norember Sth. For this lig inverted some. cotton wadling in the ear. Fext day this appeares tiugrd with blood. For ábout five Hays a elear discharge veenrred, Gonking through the wadding, and staining the pillow on which h. lay. It this time, also, he had some pain in his throat and chest, whieh, together with the condition of his ear. he attribtted to chill. The discharge from "the ear ehanged to a thick, rummy, slightly yellow flow. He then took to his lred, as he did nut fuel able to
stand up.
From Yovember goth his memory beeame an entire blank. "Thy next thing il recolléct," said he, "was you standing by my bedside,

## CLINICAL MEMORANDA.

## H.EMOPHILIA.

11. A. P., a countrywoman, primipara, aged 30, was on Jantary ghth last delivered by, me of a male child. The labour was normal, but somewhat prolonged from feeble uterine action. The child was oflaverage size and apparently healthy. On the fifth day the funis separated. learing the umbilieus perfectly sound and healthy-looking. On the fourteenth day the nurse called my fttention to a dark livid smelling which extended orer the region of the left scapula, eridently extrarasated blood. The ehild was jaundiced, but atherwise seemed happy and comfortable. Xext day there eame on a rather copious exudation of clartishi blood from a cresice in the umbilicus. while the swelling on the hack had incruased and extended to the opposite side. I fomm a considerable: difficulty ${ }^{-1}$ in arresting the homorrlatge: but it ceased after abont two hours' pressure and the use of styptics. I put $a$ pad over the part, strapped it tightls, and bound it up. and had 110 reason to apprehend any further diftieulty. Howerer, in about hn. howir the bleeding returned. We kept ip pressure for about seven hours with more or less success. Tre found tannin the best styptic, and this at length stopped it. Then a fresh symptom arose: there then appeared an oozing of blood from the month, hut this almost stopped when the flow from the umbiliens returned, which it did subsequently in spite of all treatment. Finally the child was taken to the London Hospital, where, as I am toll, similar tratment was pursued with similar unsatisfactory results, the child nltimately dying from loss of blood ahout six hours afterwards. There is no history of such a dinthenis in the fanily hny time.

Betharl Green lioad. F.

## OBSTETRIC MEMORANDA.

## TRASSVERSE RUPTURE OF UTERES.

THE fullinving are a firw particulats of the first case of rupture of The womb which has oceurred in my practice of forty yeass. with hure than 4.000 labours.
L. H.. aged 20 yeuts, married, of short stature and phlagmatic tomprament, was taken in labour on the night of Dctoler liat h, 1ns. with her fifth child: her presions labours had all been proIractetl and her last child stillbom. I was called to lier at \& A.M. of the 20) When the os was well dilated, the maius fremuent and gevere, but without the usual expulsive eharacter of the third \$tare. I had heen with her five hours when the paine crasted, the pationt erving suldeuly with a new igony; there were the uenal symptomi of "shoek." I then sent to my friend. Mr. (i. l'risel. Who assinted in the delivery by forceps, which was effecterl at 4 P.an. Death ensued on the morning of the -5th. It the meconjs.
very extensive transverse rupture was revealed at the anterior part, nha ist severing the neck from the boty of the uterus; the parietes were abmormally thin.

Whehtam Prowsk, M.li.C.S. etc.

## REPORTS

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES

## chlldreas hospital, Nottivghan. <br> hITHOLAPAXY $\because$ SUPIAPDEBC LITILOTOMY.

By Lewis W. Mamsitall, M.D., Surgeon, Children's Jospital, Sottingham.
1 have alopted the heading which my friend Jfr. Walsham used to his paper, which was published in the Joursian of October 15th, because the case which lam about to refer to was by his kindness done by him for my benefit on October 23 rd . I therefore wish to add another success to those previously recorded by himself. Having a case under my care at the time of reading Mr. Walsham's paper which was emineutly suitable for testing the valuo of the mothord of crushing and rapid remoral of the stone, and wishing to contrast it with my own lithotomies, I uppealed to him to give soe that opportunity. The report of the ease will speak for itself.
J. R., aged if years, was admitted with symptoms of stone, Octobor li2th. Strsining and pain in passing water were severe. The presence of a small stone was verified by me the following day ly sound and palpation under chloroform.

Octoher $2: 3 \mathrm{rcl}$. The boy being well muder chloroform, Mr. Walshain procected to crush. I sound was first passed, and the presence and size of the stone were made out. No. 9 evacuating catheter was inserted after slitting np the urethra, and about two ounces of weak boracic solution were injected. On removal of the catheter, Xo. 6 lithotrite (Weiss) was easily passed and the atonescizel, showing a measurement of five-eighths of an inch. The second time the stone was caught three-quarters of an inch was read. Crushing was easy; the first tine ten minutes were thus occupied. No. 5 lithotrite was introduced the second tine. The evacuating catheter was used three times in all. The boy slept on being $1^{\text {nat }}$ to bed, and passed his water unconscionsly shortly ufterwarils.
Two picces ware passed in the first twelve hours after the operation. There was no rise in temperature: no pain; and on the sucond day he sat up in bed to play with his toys.
Ou the thirit day he was riling a rocking horse in the ward.
Octuber :3sth. lie lift the hospital.
Since my nppointment to the Children's Lospital I find that I have tone alaut twanty lithotomies-nineteen lateral, one suprapubic. All the " lateral" cases recovered, but the "suprapubic" diedon the fourth day from cellulitis. This case was done by Annandale's methon, which reads so well, but is neither so easy to perform nor of free from complication as would at tirst appear. The stone being grasped by the lithotrite and pressed aguinst the bladter wall, it was thrown nut from the instrument when cuttiner juto the lhadere, with the result that the points of the lithotrite minus the stone protructed. The bladter dropping back into the pelvis, some difticalty wus found in removing the calcutus hy lressing forculs. After this experience I ani not disposed to ablopt this metho lagain. Mr. Amandale recommends his plan for use where the ston" is smatl; in fact, in those cases which are so suitable for lithelapary.
My success in the lateral operation is not of course exceptional -nn doath in nineteren cases-but it is ton gond to allow me to Sot the operation asibe for a more novel procedure without dhe consideration. The case reporteal ly me for Mr. Walsham does, howrever, aford a goul reason for dechaming in favour of litholamay in the majority of pases, becanse 1 find on examining my calculi that there are it hast thirtecn that might very fairly luve bern flomit with in this way.
Simaking from nomory an aremge of three weoks for convaloxanare from lateral lithitomy may he given in my cases. When riak from hamorrlagn painsufirel-risk from pissible incontinence of urine for some years, and the faserted langer of cmas-
culation are placed in the scule with the relatively long confinement to berd, it seena to be a clear duty to practise the more simple plan of litholapaxy.

## REPORTS OF SOCIETIES.

## royal medical and cilirurgical society.

## INNUAL MEETING

Tuf annual mecting was hold on the evening of March lst, the retiring I'resident, Mr. Geonae Dayid P'ollock, F.J.C.S., l'resident., in the Chair.

Annual Report.-The annual report announced the continued prosperity of the Society, and a further increase in the number of Fellows. This now stands at tho highest point yet reached since the founlation of the Society. Thirty-three new Fellows have been elected. Of these, nineteen are resident, eight non-resident, three English honorary Fellows, and three foreign honorary lellows. The Society has lost fifteen Fellows by death. Of these, nine were resident. including Sir George Burrows, a former President of the Society, Dr. Wilson Fox, the late honorary librarian, and Mr. Quain; five non-resident, and one foreign honorary J'ellow, I'rofessor Yon Langenbeck. The nnmber of papers read, and the attendance of Fellows and visitors during tho past seven years, are given in the following table:

| Year. | No. of Meetings. | Papers. |  | I'resent. |  | Joined in Discussiou |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Medical. | Surgical. | Fellows. | Fisitors. |  |
| 1831 | 15 | \# | 21 | 540 | 70 | 91 |
| 1882 | 15 | 12 | 14 | 517 | 117 | 102 |
| 188:3 | 15 | 14 | 17 | 607 | 119 | 113 |
| 1884 | 15 | 18 | 13 | 033 | 118 | 145 |
| 1885 | 17 | 10 | 16 | 759 | 201 | 171 |
| 1886 | 16 | 15 | 18 | 55.3 | 111 89 | 180 +172 |
| 1837 | 16 | 19 | 18 | 559 | 83 | -172 |

The report of the honorary librarians states that the additions to the library during the year 1887 consist of 460 works, including pamphlets, but not including transactions, journals, and other periodical publications; 165 of these additions have heen obtained by purchase, and 295 by donation. The latter include 53 rolumes presented by Dr. Wicklnm legg. The total number of works in the library, December, 1887, was 30,742. During the past year 3,694 books have been borrowed from the library. The number of visits of Fellows has been 4,574 . The collection of portraits of members of the medical profession has been enriched by the adilition of sixteen new ones, and two oil paintings have been presented to the Society by Dr. J. J. J.ee.
The President then delivered the annual address, dwelling specially, in his obituary notices, on the life and works of Dr. Wilson Fox, Mr. Richard Quain, Dr. Arthur F'arre, and Sir George Burrows. Mr. Edmund Owen, seconded by Dr. Day, proposed a vote of thanks for the address: Mr. Butlin, seconded by Mr. Parker, for tho services of the l'resident, which was carried ly acclamation; Dr. Sansom proposed a vote of thanks to Mr. Holmes, who is retiring from the office of Treasurer; Dr, Buzzard, seconded by Dr. S. Coupland and supported by the l'resilent, propnsed a rote of thanks to the retiring Vice-Presidents and other officers; Mr. T. Ilolmes, seconded by Dr. Myers, to Mr. JIoward Marsh, the retiring Secretary, who, in reply, spoke warmly of the services of the Resident Librarian.

The list of officers for the eurrent year is as follows:-President: *Sir Edwarl IIenry Sieveking, M.D. Fice-Presidents: Fiz Andrew Clark, Jlart., M.1)., F'R.S.; *James Andrew, M.D.; *Sir Henry Thompson; Thomas Smith. Treasurers: Charles John Hare, M.D.: \#lolin Ashton Bostock, C.Ih. Secretaries: Walter Butler Cheadle: M.D.; \#J. Warrington Haward. Jibrarians: *Samat Jones Gee, Mil) : John Whittaker Ilulke, V.R.S. Other Members of Council: *William Cayley, M.D; *Sir Joseph Fayrer, K.C.S.J., M.D., F'.R.S.; *Thomas Lauder Jrunton, M.D., F.J.S.; Richard Douglas l'owell, M.D.; Arthur lirnest Sansom, M.D.: *Robert William Parker: "William Johnson Walsham: Henry Trintham Butlin; "Eilwaml Morris; "blward Trgart. Thoso gentlemen to whose names an asterisk is jrefixed were not on the Council or did not fill the same office last year.

## PATIIOLOGICAL SOCIETY OF LONDON. <br> Tubsday, Marci 6th, 1888.

Sir James l'aget, Bart., F.R.S., F.R.C.S., President, in the Chair. I:pithelioma of Kidney associated with Calcelhes.- Mr. Sinatrock showed for Sir Wilisam Mac Cormac a specimen of epithelioma of the kidney associated with pelvic calculus. There was a history of long-standing calculous pyelitis, It seemed probable that the cancer was produced by the chronic irritation of the calculus. The specimen had a bearing on the contention of Mr. Jurry Fenwick, who at the last meeting had adranced the theory that cancer of the bladder might be produced ly chronic irritation produced by a calculus. Dr. Sanger had recently communicated to the Berlin Medical Society the negative results of bacteriological investigations of cancerous growths. Mr. Shattock pointed out that this confirmed the results reached by himself and Mr. Ballance, and led him to believe that Scheuerlen's bacillus was not the pathogenic organism of cancer. It was, however, not possible to prove a negative, as Dr. Sänger had supposed; for in actinomycosis, though the parasite was so large, nobody had succeeded in cultivating it.-Mr. WASTHAM mentioned a specimen in which the whole cortex of the kidney, where a pelvic calculus had long existed, was converted into epitheliomatous tissue. The clinical history rendered it probable that in this case the calculus was the primary disease. In another specimen of calculous prelitis, also in the Museum of St. Bartholomew's Hospital, the kidney was car-cinomatous.--Dr. Norman Moore had sliown a case of pelric calculus and renal cancer. He referred to the association between
yall stones and cancer of the gall bladder.--Dr. Wiks had always regarded the calculus as the primary disease, from the clinical history of cases of pelric calculus followed by cancer, and of gall stones followed by cancer. Professor Frerichs had expressed a similar opinion to him on one occasion when going over the museum of Guy's Hospital, and had stated that the association of pelvic calculus and renal cancer was familiar to him.
Villous Carcinoma of the Right Breast.-A specimen of this disease, removed from an unmarried lady, aged 53 , was exhibited by Mr. Berrard Pitts. The patient had been conscious of its existence for three months. The axillary glands were not enlarged, and the skin was not adherent. It was removed, and was found to be an oval mass, surrounded by an imperfect cansule, from which branching processes, thickly invested with actively growing epithelium, extended. He referred to three similar tumours in the Society's Transactions. They all had a more or less perfect capsule, and a foliaceous included growth.-Dr. Wilks asked how the tumours had been described by early writers; it appeared to be what rould have been called a cystic sarcoma. The clinical history did not seem to be that of carcinoma.-Mr. A. A. Bowlby thought that it was the kind of growth described by Cornil and Ranrier under the term villous carcinoma. The clinical history was not well known. It had perhaps been included under the name melanotic sarcoma, as in the three cases he had seen the villous growth was dark-coloured, and the fluid blood-stained. In none were the glands enlarged, and it seemed possible that the tumours ran a more benign course than scirrlous carcinoma,
Contact Carcinoma of the Bladder.-Mr. Mulex Fenwick brought forward statistics of 60 cases from various museums as regards the rarying conditions which might be encountered hy the surgeon in dealing with such growths. The male was affected thrice as often as the female, a proportion which was found to hold good in a series of 634 cases, embracing all varieties of resical growth; $\mathrm{fiO}_{0}$ per cent. of the specimens were single and 40 per cent. multiple; of the single, 43 per cent, were at the riglit uretal orifiee and 26 per cent, at the left; 86 per cent. of the single growths were at the inferior zone, originating at the margins of the trigne, pedunculated, or tending to become so, in the proportion of 2 to 1 . In 80 per cent. of the multiple grawt ths there. were 3 to 22 in the same bladder. They were rare in diverticula. Specimens were brought forward proving that carcinoma might coexist with henign growth ( 10 per cent.), and that vesical carcinoma might propagate itself by contact.-The President said that the cases of communication of cancer by contact were so few that they night be accidental coincidences; moreover, if we assumed that there was a tendency to the symmetrical eccurrcuce of disease, it was easy to understand their occurrence on corresponding parts of the same viscus. Cancer of the sido of the tongne and cancer of the contignous part of the lining membrane of the cheek had never bech recorded. although these two surfaces were continually in contact, and the former
malady was common; nor had anyone seen cancer of the lower lip with cancer of the upper liy, nor of cancer of the lower lid with cancer of the upper lisl, except where there had been extonsion round the corner of the moutli or round the canchus.- Dr. Goorbart had seen many instances where the circumetances suggested transmission by contact. Ife had seen it in the stomach. He also referred to cases where cancer appeared to be conveyod by particles dropping down from the upper part of the abdomen into the pelvis. - The P'resinent thought that a distinction ought to be drawn between cancer transmitted hy contact and cancer produced by transmission of elements.--Di. Gomiart. continuing, said that the distinction drawn by Sir Jamer Pacet would materially limit the number of instances which lie could cite. He thought, however, that the apparent spread of warts by contact might be quoted in this connection, and referred to certain speeimens illustrating the dissemination of warts in the lower animals preserved in the Museum of the Royal Callege of Surgeons. While admitting the comparatire rarity of cases in which cancer appeared to be transmitted by contact, he thought the instances which were occasionally olsserved were strikingly confirmatory of the theory: -Mr. Brtice Clarme thought that in a certain number of cases of vesical cancer the theory of transmission by contact afforded a better explanation of the appearances than any other. The exceptional frequency with which such an occurrence appeared to take place in the bladder might be accounted for by the force with which the walls of the bladder were squeezed together.-Mr. Bowlby mentioned the case of a woman with epithelioma of the left labium. While under olservation, the right lahium became affected.-Mr. Walsiam, who had operated on this case, had secn another precisely sinilar.-Dr. Cocplasid thought that it was not uncommon to observe carcinoma communicated between the peritoneal coats of adjacent coils of intestine.-Mr. Bersard Pitts mentioned a case of pedunculated tumour of the bladder in which a growth recurred eightecn months after the pedunculated tumour had been removed. The recurrent tumour was malign:nt, whereas the pedunculated growth appeared to be innocent.- M1: SHattock said that it had to be shown that dissemination was not in a radial manner from the primary tumour; on the other hand, he mentioned a case in which Sir William Mac Cormac had excised half the larynx, which was affected by extensive cancerous distase; on the vocal cord on the opposite side was a small discrete growth which had exactly the same microscopic structure as the uleerating carcinoma of the other side of the larynx: this case seemed almost to prove that transmission by contact could occur.-Mr. FENwick, in reply, said that seven cases of simultaneous affection of the tongue and the side of the cheek had been recorded, anel mentioned several cases in which the oprosing walls of the vagina had heen affectell ly the same growth.
Renal Disease.-Dr. Normas Moore exhilited the following specimens of renal disease: (1) Congenital narrowing of hoth
ureters, with unation, wue to injury. The patient was a manephritic inflamhis care in St. Bartholomer's llospital. He had received a severe kick in his left inguinal region, and six weeks after noticed a large tumour in the left hypochondrimm. This tumour lirojected close to the left lobe of the liver, and on aspiration three pints of hood-stained urine were drawn off. A fortnight later, the patient one night passed a greatly increased quantity its urime, and the tumour became much smaler, but soon regained its forner size, and was tapped three times, ahout three pints beng let out on each occasion. Mr. Walsham then tied a drairagetulte into and onening made hy him in the left loin. If whe days her suppression of urine took place, and the patient sank. Post mortem the cyst, which had been tapyed, occupied the whole left
side of the sarts of the abdomen, was adherent to tho diaphragm. and most
pall showed very great thickening of nephritic tisent showed rery great thickening of tle periurine slightly blood-stained. The right kidnent four pints of the urethra and hadder were natural. Roth ureter narrow just before untering the pelvis of the kidner. and the opening was valvalar. There was no hypertroply of the heart Microscopic sections of hoth kidncys showed parchechymatous inllammation, without connective tissue increase, or increase of thickness of arterinles. The dilatation was probably gradual, and
due to due to congenital smalluess of the orifice of the ureter. The doubt due to in (2) Kidneys, with microscopic sections showing adranced men. interstitial nephritis, from a man aged 39, who was under Dr.

Honne's carn in Sio Bartholouew's Inspital. Tho left rentricle was hypertrphied, the heart weighing ell vuneox. In the. right kidncy wer. three roumbed calculi. Twonty-threp rears hefore his death the patient hal retention of urine for thetednys, relieval ly the remoral of a calenhas from his urechrd in so. Bartholomen: 1 oopyitul. Bis health was afterwards meak, and twelow years later he was trated at the Royal freo llospital for dropuy, due to chmuic interstitinl nephitisis. Fight gents Jater be whs trented for the sume disease ot St. Barthohmew's ant was there uuler observation for the remaining three year of his life. It was thats curtain that he hat had interstitial nephiritis for eleven years and probably for iwnentrece years, as it iseemed in ull prohability due to the prolonged retention by the calenhis in the urethra. Uppolzer records ono case of the samenduration. -Mr. bews mentimed the case of a man aged : -7 , trho, when 10 yonm old, attented University. College llasintal for hemat ura; after dtath one wreter was found to be blocked. And there was hypertrophy of the heart.-Dr. Nomshas Monee said that liypertriphy of the heart had never in his experience occurred whdu one kidncy unly was thmaged.

Acute Secrotis - Ilr. A. Q. Silcock showed bones rembved from a case of o-ten-myrulits; the patient was also present. The disease had apparently etirted in isolated indammatory foci sitnated at the tine of junction of the equiplysial cartilages with the rliaphyses of the tiliia, and terminating in acute neerosis. The patient was a girl. aped 11. Tenderness at the head of the left tihia and tumefaction of the soft part were firsh noticed; no phes was found m incision, hut ame appeared on the following das, if for days afterwands pain and tenderness were ohserved over the right tilna; in hoth cases asmall quantity of pus wha evacuaterl by free ineisinn of the priosteun in the neighbourhood of the epiphysial line. Nast ino inner malleolus on the right side was affected; here it was subserguently ascertained o small focal aldicess, just ahove the wiphysial line, fxisted; then the inner mallenlus on the left side becamp aftected. Both knep-joints hecame full of thid; the right knet-joint had to be laid open, anil eventunly the right thigh was amputated: Sulsequently the whote of the'riayhysis of the left tibin was remored piech by puece, but the amount of new bome thrown out, as was unticipated, looking to the suvere damage which must have haen inne to the asteogenetic hyer of the perinsteum hy millammation coachte, intensu, and willespreal, was very ahall. The patient ultimately made a fairly gond recovery so far as her genaral hadeh with eoneerned. A longitudinal section of the right tibia showed that the inflummetory frocess was focussed at the "purr and lower ents of the diaphysis in the regions which Franch aphor- hail callod juxta-ppiphysial, or as Mris. Silchek proposed to term it, paratepiphysinl. The symmetry of the hroy fesions implime a murhifir condition of the bloens; a deterioration of puality a--sciated farlapys with a microroccus aceompunied hy a loweret situlity of the patient. The para-t piphysin! regions in long linnes, and the sutural enges of the that hones of the face and skall were prenliarly liable to hecome affected, probahly hecause the puysindomien balanee was hore wasily upat by injury or exfonme, rirculation lofing inw, ane the vitality of the cetla of the part mitily pxhen-tml.-Mr. Syattork sugg-4ed that the disense was ane fo anme aecialental circumstance lighting into activity fatent pat hogenie arganisms in the medulla no the lones.
 concilereyl colbe an example of ostaitis Beformans in a wroman. It the age of 50 , a slight frominence wha notieed it the lower Houl of the right ulna; the right radius, the left humerns, und finally thr lawer limberecame bent and her head twemen hatger. She liad lientr rimberid in beight from 5 foret 1 inch to 4 fent fin inches: the "fine was nlsi curvinl, as woll as the femora mat tilim.

Caid Sperimens-Mr. Simatriok: 1. Ossenis Ankythkis ufter Fonty Diserase. 2. Gouty Depesit in Bone.-Mr. TrRvies: 1. Fihro-e -llular Tunsur of 'Spemat ie ford 2. Horny Thmour of Mnuse iferelopal from a Dermoid Cost. Mr. Manspith Momition: Syphilitie framia, Mr. W. S. Comav: Diphtheria of limeras and Largnx with Arub labnminntionof leyer* P'atehes.-Mr, Ifensos: Tuberenfar liceration of Intestine associated with the yresemce of forcien lwaliwe

Iiring Sjerimpne-Mr. CLTTTON: Tong-standing New firowth of Skin frrehubly Sarcoma.

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## MBDIC.LI SOCLETY OF LOYDON.



## J. Huohtivas Jackison, M.)., Ir.R.S., President, in the Chair.

Eilection of Oficers.-The list of onficers nud touncil prepmred Ly the Council, for election was unauimonsly adopted. I'reszdent: Sir Willinm Mac Cormae, J.I.C.S. 'Tëce-Presidents: Thomas Ifeiry Gredn, M.1): John Knowsley Thornton, M.D., E.R.C.S.; Willian Riehard Gowers, M.D., F.I.S.: Edmund Owen, M.B., F.R.C.S. Treasurer: Arthur Edward Durham. Litrarian: William Henry Allchin, M.B. Honorary Secretaries: Lernard Pitts, I.R.C.S.; Charles Lidward Beevor, M.D. Secretary for l'oreign Correspmdence: Felix Semon, M.D. Council: Thomas Lauler Brunton, M.D., F.R.S.; J. N. C. Davies-Colley; Clinton Thomas Dent: Joha llenry Drew; Sir Joseph Fayrer. Dh.D., F.R.S.; David W. V'inlay. M.D.; Francis Fox; William Adams Frost; Walter Baugh Hadden, M.D.; Reginald !Larrison; J. 'Hughlings Jacksob, M.D., F.R.S.; Thomas Johu Mnelagan, II.D. ; Robert Percy Midellemist; Ingel Noney, M.D.; Charles D. F. Phillips, M.D.; A. J. MacConael Routh, M.D.; Seymour Taylor, M.D.; Samuel TYest, M.D.; John Williams, M.D.; T. Outtersan Wood.

Fothergillian Prize.-It was announcel that the Fothergilliau prize had been amarded to Dr. Maro, of Philadelphia.

Cerelıral. 1 bscess in' Connection with Otitis . Media.-Dr. Fernler, and Mr. Victor Horslex read the notes of a case, which is published at page 530.-1Dr. Hughungs Jackson said the result obtainell was simply magnificent.-Sir Wm. Dalay expressed the satisfaction he felt at the progress which had been effected in the treatment of what were formerly considered to be hopeless cases. He quoted from a previous paper of his own to the effect that an experience of ten years had given a mortality in cases of aural disease of 8 per cent, not ail, however, from cerebral abseess. He classified these cases according as the patients developed cereliral syniptoms and died, or only showed symptoms after many years. lle further subdivided the cases with respect to the presence or absence of diseased hone. The proportion of cases of cerebral abscess was much greater where deact boue was diagnosed. He thought patleuts ought to be waract to look out for the occurrence, of certain threatening symptoms, so that intervention might be in time. -Dr. Bristowe called attention to the ahsence of pyrexia, and observed that this was often the case in cerebral abscess, but that fever was gencrally present in intlammation of the lateral sinus. He mentioned three cases of pratients with old ear disuaso who had attocks of high temperatureand rigors.' Nothing tras done, hut in each cuse therewas noalscess, bnt inflnmmation of the Jateralsinus. - Mr. Jamps Buaco inentioned sevcral cases of a similar kind.Dr. Kingstos Fownen observed that in several cases at Jiddlo sex IIospital thu site of paiu had not proved a reliable guide to the geat of the abscess. It was remarkable that no inflammation was fond aloug the lino of jujury in cases where, unsuccessful punctures had heen made, and he inferren that exploratory operations trere by vo means necessarily flangerous.-Dr. Femmer, in repjiy, said that the risks of trephining were so small when proprerly carried out that he wonld not hesitate to resort to it, even if the dingnosis were not alisolutelysure.-Mr. Yictons Iforslay, in reply, said he would like to ask whether optic neuritis was to he considered a reliable symptem of threatened abscess? He mentinned a case in which symptomas were present, pointing to cerebollar disease, but in which the disease proved to bo in the interal sinus. He suggested, therifore, that should phacture of the cerobellum prove fatile, the lateral sinus shoulu be examined.

On Some Gurinus IRelations of Gastric Uleer.-Dr. Orb read the notes of the case of an umarried woman, who was adnitted into St. Tllomans's llespital in lecember, 18st, with syuptoms of gaslric theer anl extreme anmemia. After her ndmission, certain heart gymptoms which wera noticed on her admissien undernent further deselopment. Br. Ord gave the grounds of his diagnosis of peri-and "ndncardit is. There was mo.jyrexia, nor any history of rheurnatic fiver. Tho enexiatence of sruptoms of gastric ulcer with thinse of peri- and endocarlitis dud alrealy been noted ly Mr. Orl in three cases, and a remark by Dr. Buazarl elsewhere, to the effect that acuterhemmatism miglit le the result of irritation
of the medulla, had deeply impressel him. When, therffore, the coincidence of the signs of gastric uleer with those of cardiac inflamwation had been observed in at least four eases, the occurrence appenred to be worthy of serious thought. Sereral explanations were forthcoming: 1. Was it possible that in an unsemic person with orersensitive pheumogastric centres, that, gastric irritation, well known to be caprable of producing cardiac disthathance, could be capable of producing cardiac lesion? 2, Could pneumogastric irritation lee the common cause of frastric ulcer and cardiac iuflammation, the pneunogastric irritation l being determinerl by excitation procceding from the uterine organs, in a $a$ person already antemic and prone to active reflex disturbance? 3. Was it possilhe that both sets of symptoms might he disoriders of natrition arising out of anæmia? Anæmia was knowm to hare asanassociation optic neuritis; might both the ulcer and the cardiac inflammation be disturbances of nutrition similar to optic neuritis? Dr. Ord quoted a case at present under his care, in which the signs of gastric uleer, of cardiac inflammation; and of optio neuritis were present in conjunction with extreme myocrat He also quoted a case recently under his care in which thous of pernicious aniemia.: On the whole, Dr. - Ord was inclined to regard the curious combinations of lesions noticed as disturbances of nutrition consequent on anmmia, and appealed to the Fellows for information on this point,-T Dr. Maclagan quoted the case of a woman who had a violent attack of hematemesis after a dispute, and this was followed by symptoms of endocarditis. In reference to one of the cases alluded to by Dr. Ord, he pointed out that there had been no;attack of hrematemesis prior to the first-sign of heart mischief. He suggested. that they had yet much to learn on the effect of nerrous influence on the venous circulation. He preferred the hypothesis of their being of central origin. - Dr. Sidnex Cocpland expressed a doubt of the possibility of making a certain diagnosis of heart miachief, in anemia, and quoted a case in which the error was demonstrated at the necropsy--Dr. Kingaston. Fowler alluded to the great difficulty of diagnosing gastric ulcer, and quoted several cases where the post-mortem examination had shown the diaguosis to he wrong, even where the symptoms had pointed clearly to ulcer. 11 c cloubted also the reliability of the diagnosis of lieart disease in anemia.--Dr. Ord, in reply, aeknowlelged the difticulties of diagnosis, and discussed the objections thereto. He rer quested Fellows merely to keep the possible relationship before their eyes.
On a Case Illustrative of the Prognostic Significance of BlondPressure on lienal Disease.-Dr. Broadment read a paper on this subject.

## BRITISI GYNECOLOGICAL SOCIETX.

## Februaty 8th and 22nd, 1888.

## Arthor W'. Edis, M.D., F.R.C.P., l'resident, in the Chair.

The Diagnosis and Electrical Treatment of Early Futra-uterine Gestation.- Dr. Jamis Aveling read this paper... He said that to the Americans was due the credit of having established the efficacy of the electrical treatment of extra-nterive gestation. Although electricity had been employed as a foeticide more than thirty years ago, it received little attention until Dr. J. G. Allen brought a case, before the Philadelphia Obstetrical Society in 1872. Numerous cases had since then been published by American gynacologists. More recently it had becu employed in this country; but the method of using it had been erroneons., In one case, thiree needles of improper metal were inserted, and used with the positive pole of a thirty-celled constant-current hattery. The result was that the mother died. Experience proved that a moderate faradic current was sufficient to kill, the fotus in early gestation, and the employment of such strong means was quite unnecessary. The hrillinut results of the operation for dealing with these cases when death fróm laceration and hrmotrrhge was imminent had blinded some gynocologists to the necessity of adopting a plan of treatment which would prevent these fatal ruptures. Objections him been raised on the ground that a diagnosis in tubal pregnancy was never called for before the rupture of the tube; that there were no symptoms before rupture waz established; that to apply the electric current to overy kind of pelvic limp, nder the suspicion that it was an extra-uterine pelvic hunp, nuder be n most hapllazard and dangerous prooeeding;
pregnaney, would
that the destruction and deatl of the child was of no consequence
-at all; the organ which could not be destroyed by the ellectric ourrent, but which would go on growing and would go on bleeding when it was torn, was the placenta: finally, that supposing the feetus had passed through the stage of :tubal rupture und remained alive, one had no right to murder the child All these objections coutld be easily answered.। Any practitiouer who met with a case presenting the hietory and sunjeetive symptoms of making a physical should endeavour to clear up, his doults hy of a case of misplactol gestation was of grent importance, and should never be overlooked. As a rule, erratic preguancy was found to occur most frequently during a prolonged sterile period following a first confinement. The pratient generully helieved herself to be pregnant, and that there was somothing nusual about her condition. Pain of a peculiar paronyemal and agozising character of conception would be noticed. Metrorrlagia adso was an mos partant symptom. If in aldition to the furegoing symytoms a rounded, elastic, tender tumour was discorered behind or to one side, of the uterus, rapicly increasing in size and wascularity, thera was no other pelric tumpur with which it, could be confounded. The condition and situntion of the nterns abo gave valuable diagnostic information. As regards treatment, laparotomy after rupture was a necessary and life-saving;operation; but-the object of all treatment shonli be to prevent rupture, qad thus render the more dangerous operation unnecessary.r lione, would Wait until an aneurysmal sac lad burst hefore using means to arrest its progress, i Electricity might be emplnyed with every chance of success during the firat four months. 7 do doubt the earlier it was had recourse to the better, a satisfactory diagnosis having been arrived at. There were tro. theorieslas to the way was brought about by electrolysis, the other that deathe that it to nervous shock, He believed that death was lue to the tetanic eontractions of the fortal mass, resulting from the repeatedly foroken current of an induction machine. To be aflective the current shoubd be as strong as the patient could. beas. not turuerl on all at once, lout gradually incrensed to that point.-9 Jt should be continued for at:least ten minutes, and repeater every day untal the effects upon the tumotr became evident, These effects, which confirmed the acouraoy of the rdiagnosis, were cessatiou of pulsation, diminution of resistance, and reduction in the size of the tumour; and besides these, retrograde changes in the breasts, and retiring of the cervix uteri from the pubes. In a case lie hard
 applied to the most. prominent part of the oyst througl was ragina (it might be found. convenient to pass ithis through the rectum in some cases). Tle positive electrode Wha placed on the rabdominal wall opposite the tumour. No phin or inconvenience was felt after the applications. They were only four in number, for, ou the fifth day, when about to repent the faradisation, such marked change in the cyst was apparent that lee fwas convinced gestation had been!arrested. This proved to be trues and the patient was now in health, and no trace of the tumour could be folt.-Mr. Lantson Tair said that in the single case of tubnl-pregnancy he had aret with before the date of rupture the symptoms had heen obscure pelvic pain of several months' standing, in fact the
usual symp and sequently, and lier symptoms had, become most acute; she was bent double and could hardly walk. Findiug the wholet Hoor of the pelvis Tras fixed in one inass, she was admitted into the hospital, and the next morning he openterd the abdomen and found a
ruptured ruptured tubal pregnancy. He deniet it was joasihle to have missed shoh a case beforehand, for the woman had not even missed a period, 'Ao diagnosis condd be lepended upun lefore the
date of rupture'; one might guess, but it Speaking of the crowth of the placenta, lie liad fomnd inam of a macerated fetus not more than ten or twelve weeks while the placenta was thesize of a four months pregranes. Dr Berry Hart and Mr. Kinowslew. Thornton had andirmed his odsec. rations. He could not aceppt the ewenty cases alluded to ly Mr. Aveling which "disnppeared after treatment "as cases of tubal portad also by athers. Speatiner observations. whelh were sup: term, he believed that all the children and most of the mothers might be sayed by proper surgical intervention at the opportume moment.--Dr. Jnglis l'ursuns said there was no eridence to show that the placenta would continue to grow when the child
had been killed by electricity. The force that muld produce the death of the feetus was not likely to lenre the phacenta untouched. No subsequent trouble had resulted in the twelve cases mentioned ly Dr. Gartigues.-1)r. licturarord saich that lefore the third month they conld not he sure they hull to deal with a case of extranterine gestation. He thought the faradic current distinctly dangerous, as the muscular cont of the tube was greatly liypertrophed, and therefore the risk of ruptare would be incrensed by the strong contraction. If the current were employed at the fourth or lifth month, when the sounds of the fatal heart could be heard, and if after trenement they censed, then they would be entitled to claim that the trentment had lieen so far successful, but Dr. Aveling had spoken of a case nt two months, when of course no such proof was available.-Dr. Imacri said that opinions had advanced much since the year 1572, when he had seen a case at full time allowed to perish for want of surgical interference. He maintained that the same thing happened in a tubal pregnancy as did inside the uterus when the feetus died. As soon as the cliidd died or was killed, the tube eadeavoured to discharge its contents, and, as it could not possiluly pass into the uterus, the tule was ruptured. If they killed the feetus they were doing the best they could to bring about the rery thing they mished to avoid. Let it go on to full term, or until rupture, and then operate at once. Laparotomy could always be performed almost without denger, so that there was really no excuse for killing the fetus. Ite considered it to be an absurd piece of meddlesome gynacology:-Dr. Japp Sinclatr said that in three cases, with the details of which he was faniliar, there were absolutely no symptoms before rupture; and in two of the cases even after rupture the symptoms were most misleading. He had met with many enses which simulated tubal pregmancy.--Dr. Barnes maintained that the diagnosis of tubal gestation might be made with reasonable certainty even nt the geventh or eighth week. The ordinary signs of pregmancy being present, there were two signs that called for special examination. These were, first, pain more or less acnte in the pelvic region. of a Eplasmodic character; secondly; more or less hemorrhagic dischnrge from the uterus and vagina. There were signs of abortion-it might be of uterine gestation; but they called for local explorntion. The uterns would be found not in the normnl median position, but pushed across the pelvic brim to one side; on the opposite would be found an extra-aterine swelling of an ovoid shape. The size of the uterus itself might or might not, most probably did not, equal that of the estimated stage of gestation. If all these conditions had developed in a short period in a subject hitherto free from symptoms of pelvic distress, the case for tuhal gestation rose to nure than suspicion. If the symptoms were not urgent enough to call for active intervention. an opportunity occurred for making comparative observations. If in a week or two the extrauterine tumour had increased considerablr, and shreds of decidual membrane had been cast with the uterine hæmorrhage, the case for tubal grastation was all but complete. The process of a bortion had fairly set in. In the case of uterine abortion we might safely wait, niding Nature according to her indications. But Nature's course in the case of tubal gestation whe to burst the sac, and that might be fatal. At this point rupture might be averted by puncturing the sac, thus relieving tension by drawing off the liquor amnii and any blood that might have heen effused into it. This almost certainly involved the denth of the fetus, and this trentment with rest was often ennugh. But it was also the opportunity for galvanism. He had no personal experience of this proeending, hut with the present state of knowledge should prefer simply to tap, the aac, and procecd to ulterior mensures according to circumatances. Dr. Barnes summed un the question of treatment in the following propmitions: 1. The trentment to be adopted must be gorerned by the nature of the case, ty the urgeney nf the symptoma, and especially ly the stage of development of the gestation. 2. In the early stage. before bursting of the snc, electricity to kill the fatus might lee applicable: but siraple puncture of the sac was better. 3. When signs of rupture of the sac, with manifest signs of liemorrhagic effusion, shock, and collapise, had set in, no time should te lost before opening the abdomen and tying the perlicle, and, if poaisible, removing the pregnant tube. If the primary effecte of rupture had been tided over, and a fair degree of tolerance had been gaind, it might be rnough to treat the case as one of simple ritro-nterine hematocele, by pmaturing bare or less freely the aac behind the uterus, and leaving in a drainage-tute. This plan had been adopted with snccese. 4. When the stage of
danger of cataclysmic rupture had passed, lapharntonly shonld be pertormed as soon as the condition was reengnised, not waiting for the maturity of the feetus. 5. Lastly, when in the presence of urgent or threatening symptoma a doubt arose as to the course to pursue, the decision should be, ns a rule, in favour of opening the abdomen and going straight to the seat of mischief. If mattered little to the pationt, if her life were imperilled by the hursting of an ectopic gestation sac, or by some other condition causing rapid hemortiage into the abdomen or pelvis. The same remedy was indicated in different diseases. P'reeise diagnosis was not necessary to justify hnparotomy.-Dr. Rot'Tu snid the uterine souffe could be heard as early as the sixth week by menns of the vaginoscope. 1 similar sound was beard in certain cases of fibroid tumour; hut it was easy to distinguish the two. A fibroid giving rise to a souffle must be much larger than an extraaterine pregmancy of three months. He approved of puncture of the sac, provided the aspirator was used. In any case, he thought electrolysis was unnecessary and most dangerous. It was quite sufficient if the electrodes were placed one within the uterus and the other on the abdomen at the point nearest to the feetal sac. He did not helieve in the growth of the placenta after the death of the child. Speaking of ventral preg. nancy, if seen at a late period, and riable, no doutht he should operate. But if not viable he would not think it riglt to wit unlil it became so, and allow thie mother to bo sacrificed for the asko of the child. He should think it his daty to destroy the fretus, whether by electricity or puncture, np to three months; after that, remove it by abdominal sectinin.- The l'residens thought the facts before them were not sufficient to warrant a clear expression of opinion. He would not recommend anyone for whom he had a regard, and who was suffering from an ectopic gestation, to be electrified, but would prefer opening the ahdomem and removing the mass at once. The cases in which dead fretuises had been left for long periods of time inside the body without giving rise to symptoms were very exceptional, and the electrical treatment might be the means of causing the very mischief they were endearouring to aroid.-Dr. Herwoon Smith remarked that it would be helpful to divide the consideration of treatment into three stages: (1) the pre-rupture stage; (2) the stage of immediate post-rupture; and (3) that which might be called paulo-post-rupture. Inasmuch as hitherto the second stage (that of primary rupture) had usually proved futal, and would in severe cases continue to do so unless the abdomen were opened and the seat of lesion remorcd, it stood to reason that whenever the first stage was dingmosed the pregnant tube should be removed, so that the woman should not be exposed to the risk of rupture. - Mr. Lawson Tart exhibited a large collection of specimens, illustrating every variety of ectopic gestation, from the musenms of St. Thomas's, Guy's, Queen's College, and the Royal College of Surgeons. In the erent of meeting a case of ectopic pregnancy, before rupture had taken place he would prefer to remove it. for several reasons. First of all he would not have been called in if the patient were not ill, and the urgency of the symptoms would justify the trentment. For one case they could diagnose, ffty would escape recognition. Further, if electrolysis were successful a nseless organ whs lift with the risk of subsequent pyosalpinx. The growth of the placenta after the death of the foetus was eridenced by his specimens. In the later stages of the rentral pregnancy he would leare the foetus ns long as he could, so as to give it the best clance of living, the moreso as the mother's life was not thercby imperilled. His opinions regarding the removal of the placenta had been gradually changing, becauso experience had taught himi that its removal was easier than he had once thought.-Dr, Fascourt llarmes, Dr. Bebford Fpatwick, and others, took prart in the disenssion.-Dr. Aveling replicd.

## EPIDEMIOLOGICAL SOCIETY OF LONDON.

Wennespat, Febrtary ftut.
R. Thonns Thonse, 31.B., F.R.C.F., President, in the Clair. Yellow Fevier.-Jor. Dowovas, of Malta, read a paper, giving a summary of l'rofesenr Freire's work' on the microbian doctrine of yellow ferer ant its preventive inoculations. In this work the isolation and growth of a particulate germ, ealled by the discoverer the "cryptnonccus xant hogenicus," was described at some length. The mode of its attenuation was ulso fully given, ns well? ason account of its inoculation into human leeings at rio Janciro, with a viet to prevention of yellow fever. Some statistics were given nn the latter pmint. A detailed account was also given of
the examination of the earth of cemeteries containing yellow ferer corpse8, and the discovery of the same microbe as was found in the fluids and tissucs of yellow fever patients. Cremation of the dead was strongly adrocated.
Some specific Felrile Diseases of Malarious Origin, and on the Aecessity of the Existence of Gierms for their Production.-In-spector-General Dosmet treated of the specific nature of the various malarious diseases, and gave a full description of the etiology, behariour, and geographical distribution of yellow fever. Malarious diseases were spoken of as choosing the deltas of large rivers as their especial habitat. Thus, the plague wras generated in the delta of the Nile, cholera in the sunderlunds of the Ganges, and yellow fever in the deltas of the Mississippi and the Orinoco. Yellow fever was not known in Europe before the discovery of America by Christopher Columbus, no well-authenticated instance of its invasion laving oceurred prior to the Lisbon epidemic in 1723, which was imported there from the marshy ghores of the American continent. The zone of yellow fever commenced at Georgetown in Sonth Carolina, swept round the southern shores of North America and the eastern shorea of Hexico and Central America, and terminated at Georgetorn in Demerara, being contained between latitudes $33^{\circ}$ and $6^{\circ}$ north. The factors necessary for the development of yellow fever were: (1) importation: (2) a temperature above $70^{\circ}$ F.; (3) a suitable soil; and (4) an apyropriate pabulum. Cold had a remarkable power of arresting it; thus ships from the West Indies were ordered to Halifax. Reference was made to the preference of yellow fever for white races and for newcomers, and also its greater pronencss to attack the young and vigorous. The latter peculiarity was so marked that physicians in former days nsed to recommend people visiting the tropics to adopt such a regimen as would ensure a lowered ritality of their system. A usefill table. embodying the characteristic distinctions between yellor and remittent fever, was appended to the paper.-In the discussion which eusued, the Presivent. Inspector-General Latsons, Deputy Inspector-General Llori, Dr. Willoughbr, Surgeon-Najor Pringle, and Surgeon-General Manifold took part.
royal academy of medicine in ireland.
Section of Pathology.
Friday, February 17 the 1888.
Mr. Willias Frazer, and subsequently Dr. C. B. Ball, the President, in the Chair.
IIydatid Cyst of the Deltoid Musele.-The President (Dr. C. B. Ball) communicated a case. The patient, a housemaid, sought advice for a tumour on the onter side of the right arm. It had commenced three years previously as a small nodule, which afterwards gradually enlarged. There was fluctuation, but it was not distinct. The nature of the tumour was not diagnosed previous to the operation, and it was determined to explore it by an incision. On opening it six ounces of thin pus cscaped, and a cyst was found about the size of a large grapc. It was enuclented and the capsule removed, aud the wound healed under a single antiseptic dressing. At the commencement of the process of remoring the capsule the impression was that it was a parent cyst. and that the other was a daughter cyst; but after dissection it became manifest that this was not the casc, and that the capsule enclosed a worm. The extirpation of the capsule was completed, and the cavity closed by deep sutures. No further suppuration took place. No traces of hooklets or smaller cyats were found. Projecting into the interior of the sac was what might hare been either a brood capsule or the retracted head of a cystoid worm. The whole tumour, when recent, was about the size of a small orange.-The case was discussed by Mr. Scott, the Cualrman, and Ur. Finny.The President, in reply, said two forms of bladder worm were tolerably frequent in the human subject. One was the cystic form of the tienia echinococcus, and the other was the cysticercus cellulosus, which was the first stage in the development of the trenia solium. In Germany, where the trenia solium was of frequent occurrence in the human sulject, the cysticercus cellulosus was also considerably frequent. In this country the tænia solium was almost unknown. Dr. Foot and Dr. Little had been unable to find a single specimen of it in the museum. What was the nature of the cystic worm now before the Section? Now from the existence of one retracted head, the ahsence of daughter cysts, and the fact that the retracted head had four suckers and a number of hooklets, they could not but conclude that it was cysticercus celtulosus.

Rupture of the Trachea, with Fracture of the Sternum and Rib. - Dr. E. H. Benwett exhibited an example of completo transverse rupture of the trachea, and of fracture of the sternum, taken from the body of a man who had bcen killed by being crushed between a loist, used in raising coal, and a wall. Thero was no external wound, but bleod had poured from the mouth. The trachea was found ruptured transversely, and the fragments were separated by an interval of one inch. The cesophagus was bruised, but not torn; much blood was shed in the tissues around the traclee and exsophagus, but none of the great arteries or veins were torn. The fracture of the sternum was very oblique from aborc, and in front downwards nnd backwards; its upper border passed between the cartilages of the second ribs, while its mediastinal margin was placed below the level of the third pair of ribs. The second and third ribs on both borders were also broken, and on the right the fourth and fifth also.-The President said the principal feature in this fracture was its extreme obliquity. The only fracture of the eternum he ever 8 w was a directly transverse one.

Ulcerative Endocarditis.-Dr. JAMEs LITTLE submitted the following case of ulcerative endocarditis. The epecinen was from a silk wearer, aged 3 , who had recently returned to this country after having spent a year in New York. Lpon his admission it was evident that he was suffering from aortic salve disease. His mental state was rather peculiar. When he came in he was in such a state that he was barely able to leave his bed, yet he spoke of getting up and going back to America; and during the whole period of his illness it was impossible to get him to explain much about his symptoms, or what it was that distressed him. When asked whether he suffered pain or felt ill, he drifted off into growling complaints of the food that he got, or of his treatnient in other respects. His pulse at his admission was about 100 , but during the tro months that he survived it increased, and a few days before his death had reached 130. His temperature fluctuated a good deal, but was always above the normal, varying from $101^{\circ}$ to $103^{\circ}$. Jis urine was very highly coloured, turlid from urates, and of a high specific gravity-i030. At first it did not contain any albumen, but during the last three or four weeks of his life was highly albuminous. On post-mortem examination the spleen was found to be rery much enlarged, and in its centre was a considerable-sized abscess, from which, when opened. two or three ounces of chocolate-coloured fluid flowed. There was also a small abscess in the upper end of it. The right carities of the heart were empty. The whole heart was rather bigger than it should be the enlargement being due to thickening of the walls, and some increase in the size of the cavity of the left ventricle. The aortic ralve, on being tested, was found to be quite incompetent, a stream of water flowed through it. On opening it all the ralrules were found to be more or less puckered and thickened. The first portion of the aorta did not present, on the surface, any distinct indication of change; on cutting it across, the coats were fouud to be much thickened. The most characteristic appearance was on the anterior curtain of the mitral ralve-a patch nearly as large as a florin, distinctly ulcerated, and covered with luxuriant regetation. Some of this regetation, and also regetation from the kidneys and spleen, had been microsconieally examined by Dr. Bewley. It left no doubt that the disense was, as he had guessed during the patient's life, nleerative endocarditis. Though this was a rare affection, it was not so rare as was generally supposed. He could recollect sereral cases which went to a fatal termination, uninfluenced by care or drugs, and whieh were not understood at the time, and which he now believed were cases of this septic malignant ulcerative endocarditis.-Dr. Pewlex said the regetation was composed partly of fibrin. The portions which appeared blue under the microscope disclosed an cnormous number of micrococci. On the anterior wall of the left rentricle, below the nortic valve, there was a small amount of regetation, in which also there were micro-organisms. There was a considerable number of micro-organisms in the small infarcts of the spleen. and there were also thrombi in some of the splenic arteries.-The Y'resident and Dr. Wrioht made come remarks, and Dr. Little: replied.
Intra-uterine Amputations-Dr. E. H. Bexnert read an account of a dissection of the stumps obtained in a case of intrauterine amputations of the fingcrs and toes. The point of chief interest seen in contrasting the specimen with an ordinary surgical stump of finger amputation was the absence of ncuromata on the ends of the nerres in the intra-uterine as compared with large and well-defined tumours in the surgical stump. All the intrauterine amputations had been disarticulations, and each preserved
almost a complete joint between the extremities of the bones and the soft struct ares of the ends of the stumps. The muatomical changes in the circular croores of the digits where amputations had not bea completed, and the oondition of the several musclea, etc., of the limbs invalved. Was described. - Tho t'rbesandext asked were the nerves of the extrentity of nomal sizo up to tho amputation, or did they exhibit signn of atrophy?--Mr. Fhazer remarked that in all nases of this fort there was generally $a$ history frozu the mother of some fright or start.-Dr. Bensetr, in reply, gald there was no sign of arrest ed development in the specimens now beforv the Sectim. It wus simply a case of removal by something twisted: round the part, the nerve-cords being perfect dewn to the line of nmputation without any defect of structare. The mascles of the forearm, though small, were perfectly uormal both at the back and front; and the nerve fibresmaintained their character as such uy, to the scar tissue, where they ceased to be nerre fileru at all.

## WEST LONDON MEDICO-CHITURGTCAL SOCIETX. Fridali, Marcil and, 1 sss. <br> C. D. Kfetlefy, F.l.C.S., President, in the Chair.

Afters the minutes were read, the Yresideint announced that Sir William Stokes, l'rofessor of Surgery, Royal College of Surgeons, Dublin, would deliver the "Carendish" Lecture in June.
1 IThe formation of a library was announced, nad members were invited to contributo.

Massage.-Dr. ECcles gave a demonstration of the various manipulations in masago.

Sarcona of Vertebre.-Mr. J. Rochib Lxncue exhibited a specimen of alreolar sarcoma of the rertebre, taken from a lady, one of three sistors, who ull died within twelve months of malignant disease. In two the growths commenced in the mamma. In this caso the symptoms were persistent lumbago, followed by rigidity of the spino, unk a week previous to death rightlunilaternl convulsions. The duration of the disense was eight months. On postmortem examination tho vertchral bodies, from the eixth dorsal to the sacral, were impreguated with the growth-only a thin shell of compact bone remaining at tho margin. There was a considerable amount of iluid, but no secondary deposit in the brain. The liver showell numerous patebes. The microscopic examination of the growth iudicuted alveolar sarcoma.

Opphorectomy fu* L'terine Fibroid.-MIr. Iohn R. LeNx read a paper on a successful cuse of ouphorectomy for a bleeding fibroid of the nterus. On opening the jeritoneum the left ovary and uterus presented. Several small hbroids were soen apringing from the fundus. Tho left orary was cystic, and as largo as an orango. It was pullet out of the ablomen and ligatured, with-the fimbriated extrumity of the tube, with carbolised Chisa ailk (previously boiled for twenty-four bours). The abdominal opening was thes eninged, and the right owny searched for. It was hehind the uterus, mal very adierent to the surrounding tissues. It was carefully tom away, ligatured, aul removed, the uterus being previously pulley out of tho abdomen. The uterus was well Wa-hed with carlolic lution, and returned ; the pelvic carity was well irrigated, and slightly 8 ponged. The abdominal incisiont was then closed with carbolised silk, and dressed with indoform and dry iol. lint. Hecovery was complete, and five mouths aud a balf after uperation the uterus only reached inidway hitween the puris anel umbilicus, nul the paticat had gained 20 Jbs , in weight.

Eilemtrinity in the Treatment of Uterine Fibroins.-Dr. 1walis Parsore read a paper on" the Appliention of Electricity to Uteritue fribrumara. Ile did not find it neenssary to uke clay for the oxternol olectrole: a large concave metal plate. lead or copper, placed on a damp linen pad so as to cover the abdomen was sutticient. Carrents up to 300 milliamperes could ho passed in this way. It Tras nucessary to see that the pad seas smooth and in coatact all over with the skin. A new eloctmde for intra-nterine use was a!so described. A case was relnted "in which, after two applications of the current, all hemorrhage ecaspll. Six applications were made in all': from 100) to 300 ralliturpères. She was quito frev from symptoms for three months, until Felbraary 20th, 185*, when slight heruerrhage agnin came on.-The PapsitwsT constatulatel \$1r. Lunn upon his skilful 'operation, and referrel to the warmth of feeling oftrn exhilrited in discussions upon the therapurtic uses of electricity.-Mr. Alban DORas consilered that almost hay treatment woulh decruse a fibroid. Formerly the action of ergotin, subcutazcously administered or atherwise,
had been much lauded, and similarly with other methods. IIc doubted whether the diuninition of tho krowth by menns of electrolysis wonld be permanent. Most of the' cases thus treated had not yet been sufficiently long under olsservation:-Mtr. Kinowslex Ttomnton thought we should wait before accepting Mr. Keith'a views on the matter. There were rumours of some cuses having embed fatally-he himself knew of one. Certain uterine growths disappeared nfter ouphorectomy; he considered, however, that it shonld not be practiserl when the uterine fibromata were larger than a coconmut.' The rapidity of disappearance of small or soft myomata after removal of the ovaries was extrnordinary. Ile had operated on twenty-eight cases and lost two. Of the others all but one had been completely successful, the uteri boing left in the senile condition.-Dr. Grailw Huwitr agreed with Mr. Thornton in his remarks regarding electrolysis: Te really knew ns yet rery little nbout it. He conld conceive danger when the tumour was punctured in the process, ntherwise lee thoinght the method would be harmless, and that it might be tried' in certain eases.-Dr. Lewers considered that if electrolysis weré a remedy of such power in interstitial fibroils, it should be ellicucions in the remoral of polypi. The ralue of the method could this be tested by direct eridence, for there was often doubt as to the presence of an interstitial fibroid. - Dr. Almenson helieved is spontaneous cure. He asked whether some of the enses did: nbt die of exhaustive diseases such, as pernicious annmaia.--] Jr . Tratens thought that electrolysis should be giren a fair trial. If there really had been fatal cases it was likely tlative should have beard more about them than mere rumiours.- Hr. Lunn, in replying, said he considered that unsuccessful cases should be more frequently published.-Dr. Paisons also replied.

## ADERDEEN, BANFF, AND KINCIRDINE BRANCH. Wrdaesdax, February $15 \mathrm{th}, 1888$. Joun Uequanrt, M.D., in the Chair.

Cerebral Lesion in a Child.-Dr. MacGregor showed a girl, nged 8 years, with paralysis of the left sido of the face and the left upper extremity. There was optic neuritis in both eyes, wost marked in the right, where also there were several retinal hemorrhages. The heart seemed normal ; the liver and spleen were both enlarged, and, with the exception of a small quantity of pus, tho urine was normal.
Congenital Meart-disease in Children:-Dr. Ensnond showed two cases of this condition, occurring in children of le and 4 years of age respectirely. In both there was well-marked cyanosis. In one case a systolic bruit was heard over the phlmouary child there had been frequent attacks of homeptysis. Byspmer was marked in both cases.

Case of lylorie Stenosis, with Hypertropty of the Walls of the Stomach.-Ur. Blakie Sintir read notes of an iuteresting case of this nature. 'T The patient was a man, aged $\bar{\delta}$.. who for eleven months previous to his coming under observation had suffered from dyspeptic symptoms with vomiting. coming on at irrogular intervals after taking food. Wheu first exmminod tho epigastrium Was a little tender and slightly prominent. thin the spleen was entiged, but latterly there was distinct evilence of bulging, pulsaleft costal margin, percussion over a small area just below the soon made its nppearanee, and about thia time the vomiting became mare periodical, resulting in the erncuation of $n$ pint or two of grumods-looking material, presenting no obvious sigus of fermentation. The ordinary signs of pyoric stenosis were absent, the stomach did not become dilated, and hecuntemesis never necurred. Death reanlted from the persistent vomiting, and from tha nnrelieved jaundice. The diagnosis arrived at was malignant disease of the pyloras, with: secondry invasion of the liver, and at the prast-mortem examiuntion tho pyloric orifice was fonnd constricted hy cancer, and the gastric whlls were much thickened by muscular hypertroply. The liver was the geat of in'small cancurous nontile, which completely obstructad the common bile-duct. Ir. Blaikie Smith conaidered that the thickening of the walls
of ther of the stomach had given rise to the epigastric fulness, and the physical sipns in the left hypochourlrium noted during dife, but soen in the urinary blatder in enses of wrethat aunlogous to that lug it rather to the existence of cluronic mastritis, $a^{\circ}$ condition so frequently present in cancerous degenerations of the stomach wherever they were situated.

## SOUTII LNDIAY DRANCH (MLDRAS).

## Meiday, Octoben 7th, 1887.

Surgeon-General Bimme, c.l.E., l'resident, in the Chair.
Faricose Teins of Scalp anul Eyelid.-Surgeon-Major E. F. Drake-brockmas deserited a case of a Ilimdu, aged 25 , who presented a puffy swelling occupying the whole of the right upper eyelid, except a small pertion near the inner canthus; it was said to be of three years standing; it could be emptied by pressure, and was apparently continuous ahere with a saculated and greatly enlarged rein, which coursed over the forehead and head in an upward direction between the parietal eminence and the sagital auture on the right side. The margin of the lid at the most dependent part of the tupour presented a purplish celoured excrescence consisting of congeries of blood-vessels, and the same condition, in a mest exaggerated degree, was to be naticed in the inner surface of the eyelid when ererted, bearing a strong resemblance to the cheroidal plexuses in the ventricles of the brain. The weight of the tumeur, which was ef the size of a gooseberry, caused the lid to droep, giving rise to a certain amount of ptosis. Yision was unimpaired, and an ophthalmic examination showed that there was no abnormal distribution of the blood-ressels in the fundus. When in the recumbent position, with the head turned to the right side, the diseased vessels hecame enormously distended ; no bruit nor pulsation ceuld be heard or felt. The boue beneath the dilated ressels appeared to have been extensively eroded. The veins of the neek did not exhibit any enlargement, and the arteries were free from any risible pulsation. No abnormal sounds attended or replaced those of the heart. Soon after assuming the erect position the swelling diminished materially, and the upper lid could be partially elevated by the patient. Pressure breught to bear upon the external and internal jugular reins, in the erect pasition, did not materially influence the size of the blood-ressels. The large superficinl bleod-vessels were in cennection with the great venous sinuses within the cranium, into which the blood could be emptied without cansing any unpleasant symptoms in the brain. Interrupted pressure by'means of a series of pads along the course of the chief reneus channel, fixed in pasition by means of strapping, was emplayed for some days, and had the effect of keeping the varicesities from filling, but produced no permanent improrement. Mr. Drake-Brockman thought the case was unique, and referred among the points to the disprapartion between the actual nevoid growth of the upper lid and the size of the renous bloed channels which were in connection with it: the important anastomosis which seemed to have been established between the reuous distribution within and on the outer surface of the skull; the entire absence of all symptoms when the blood, which distended the superficial vessels, was fereed by manipulation rithin the cranial carities at the situation of the posterior fontanelle; the erosive action which had been exerted on the calvaria by the distended soft blood-vessels.-BrigadeSurgeon Sibthorpe mentiened a case of a European who had a large uxvis occupying the greater portion of one side of the face; several abscesses formed in this, hnd a cure (spontaneous) was to a certain extent effected as the nerus decreased in size with lardening of the surrounding tissues.

Cystic Orfrital Tumour--Surgeon-Major Drahe-Brockmanalso read the notes of a case of eystic tumour of the orbit observed in a Hindu woman, aged 30 . The tumour was only noticed for six months befere she came under treatment; it had then attained the size of a large nrange; the skin of the eyelid and of the side of the face was thiekened, and the glands at the angle of the jaw were enlarged, prohably owing to irritative treatment by native practitioners. About two ounces of clear, alkaline fluid, of specific gravity 1006 wa drawu off by a grooved needle, permitterl of the eleration of the upper lid by means of a speculuni, and the eyeball was discorered lying to the lower and deeper part of the orbital cavity. The patient was able to see with the organ, but had no power to move the eyeball iu any desired direction: pressure was applied, and the tumour refilled in three days, I week later it was tapped again; pressure was applied, and produced an ulcer which gave way under manipulation; abeut two ounces of sero-purulent fluid were evacuatel, and the eyst was exposed entire. The carity thus left oxtended far back iuto the orbital carity. The ease eventually did well, and regained to a considerable exteut the merements of the eyoball, but there was complete ptosis, which it was feared would be permanent, owing to atrophy of the levater palpebre.

Ratieal Cure of Hydrocele.-A paper on the radical cure of
hydrocele by the injection of earbolic acld was contributed by Surgeon W. B. Brownivg. He had used castor oil for proteeting the skin of the perineum and scrotum. The fluid used for injection was pure carbelic acid, as in lndia a sufficient quantity could always be found fluid in the bottle; he had found that as ruch as two drachms was generally necessary ; in the cases he had treated the hydroeeles were old and large, and in me case he had used three drachms. Nosymptoms of earbolic aeid poisoning had ever been noticed, and the lecal pain was less than when iodine was used. Reaccumulation tae noticed in several cases shortly after the operation, but disappeared in all the eases but one. In this, on the twenty-eighth day, four ounces of dark coloured fluid were drawn off, and wheu seen three months later the fluid had not again accumulated.
Pseudo-hypertrophic Paralysis.--Brigade-Surgeon A. l'ortbr exhibited an East Indian lad suffering from well-marked psetudohypertrephic paralysis. The patient was a Eurasinn, aged It. IIe had lad dengue fever when four months old, did not legin to crawl till after two ycars old, did net walk till over thrce years old, could never run, pick up anything off the grount, ar go up steps. His calres had been neticed to crow large, and after the age of I2 he had beeu unable toattend sehool, owing to diffieulty in walking. There was no history of any neuroses in the fanily: the three elder children of the family were all healthy; one younger child died in infancy: His condition when he came under treatment was fully desorihed, and was quite typical of the disease.
False Joint of Humerus treated by Wiring,-Brigade-Surgeon C. Sibtiorpe related the case of a strong, muscular Tamil cootie, aged 28 , who sustained a compound comminuted fracture of the upper third of the left humerus. The protruding portions of bone were sawn off, the fracture was then set, and the arm placed on a Stromeyer's cushion; the wound was treated by the Listerian method. No unien took place, owing to the bones being too far apart; the two ends of the bone were exposed and wired togethers the wires were removed two months later. The patient was shown to the meeting. The bene was strong, but there was some atrophy of the muscles, from disuse, and the hand and fingers were stiff; these, hewerer, !were improring under thle use of electricity and shampooing. The left arm was only one inch shorter than tle right.

## LEEDS AYD WEST RIDING MEDICO-CHIRLRGICAL SOCIETY.

Fridat, March 2xt, ises:

## Dr. Bell iu the Chair.

Simple Perforating C'lcer of Septum:Nasi-Mr. Jrssop described four cases. The first, a lady aged $\$ 4$, applied on account of a whistling sound produced in her nose on breathing. and slight itching. There was some ulceration roum the perforation, with dried blood on the surface. The scre healed uuder the use of strong nitric acill, followed by seraping, learing an aperture which would admit a celdar pencil. The secend case occurred in a married woman aged 30. The aperture was at the anterior edge of the septum, of a year's quiet growth, and the edge was ulcerated enly posteriorly. The third was in a man aged 89 . The aperture was of the size of a threepenny piece, and the edges were covered with crusts, which he used to remore with lis finger. The sore impreved under the use of nitric acid. The fourth case occurred in a lady" aged 3t, whe applied to him in March. IEin). She had beeu marricd ten years without family, and her uterns was antetlexed, with a copieus discharge. In september, Iseb, the sight of one eye (the other baring been preriously lest) began to fail, for which speetacles were given: and iu April, 1ssi, she complained of redness of the ala nasi. In August an examination in consequence of nasal irritation revealed a perforation of the septum, which improved under local treatment. Her hushand thought he lad had syphilis threo years before marriage, but had lad no secondary scmptoms. This was the only, case in whieh there could be the faintest suspicion of a syphilitic history. Mr: Jessop referred to Mr. Jonathau Mutchinson's paper descrihing this condition, with its description of a number of cises: and he commented on the slow course of the ulcer, its uniforin character, and the absence of foutor or discharge. It seemed to be a condition affecting middle life, and answered well to local treatment, antisyphilitic remedies being useles.-- 11 r. Lovges showred a patient suffering from a perforation of the septum nasi extending some distance back towards the pesterior uares, which be thought was
probaby congenital.-Dr. Cuurtos referred to Mr. Ilutchinson's cases of a peculiar ulceration of the tongun curable ly opium, and suggested a trial of that Jrug for non-syphilitic nasal ulecra. Ile mentioned a case under his own care of jingual ulcer in a gentloman aged 72 , cured ly opium after Hutchinsan's method.-1)r. Jacors referred to lupus and certain acute disenses, as typhoid, rheumatism, as recorded causes of perforation of the septum ol her than syphilitic.-Dr. Banns described a case which had been under his eare with anomalous nerrous symptoms, in which there eventunlly superrened a condition of progressive ulcerntion of the nose, with atrophy and disappearance of tho bones, but without llischarge or foitor. He thought it was neither lupms, rodent nleer, nor syphilis.-Dr. A. Brosmer referred to the researches of \%uckerkandil, who found, out of 180 necropsies, the septum perforated in eight. Three of these had the aperture covered by a thin skin. He thonght perforation might he the result of nasal catarrh, with seabling so comzon in children.

The Treatment of Urethral Stricture by Rapid Dilatation.Mr. Mayo Robson remarked that the rapid dilatation of stricture by means of Lister's graduated metal bougies-either used immediately, dilating at once up to Nio. 13 or 14 , or, if the smallest metal instrument could not be passed, employing the same inethod after a fine filiform hougie had been left in for forty-eight hours-was in his experience a safe and efficient method of treatment. In some cases he had injected a solution of cocaine into the urethra before dilating, but in only one instance had he employed a general anestlictic. In tro cases of extreme distension of the bladder, where no instrument could be passed. the bladder had been aspirated sereral times, and then it had been possible to pass a tine bongic and to dilate. Mr. Robson related selections from fifty difficult cases thas treated, and remarked that if this nethod were adopted, cutting operations would be required but very occasiomally-that is, internal urethrotomy in very resistent strictures, and external in cases of extensive fistule or abscess or extravasation. He always advised his patients to pass a No. 9 or 10 elastic bougie once a rreek. He had treated many other cases than those related, but had nerer scen any serious symptoms to follow.-Mr. R. Atkinson, Dr. Smann, Mr. Mittlewood, Mr. Jessop, Mr. Mayo, and Dr. Allas made some remarks.

Nitrate of Silver in Erysipelas-Dr. Alban recommended a saturated solution of silrer nitrate in spirit of nitrons ether as an application. He had found this of use also in cases of threatened bedones.-Mr. lattlewoon thought cases of erysipelas required merely to be kept warm.-Mr. Jessop referred to the use of iodine, and of iron as external nuplicumons. The latter use he thonght originated in the Leeds lnfirmary, where many years ago a thoracic aneurysm, under the car: of Dr. Hardwick: was trinted hy the external application of perchloricle of iron. At the necrnusy the solution was found to have penctrated the tiscues rery deeply; and where it had penetrated through the wall of the aneurysm there was a clot formed, and there only

Case of Variola coincilent(l) with Typhnid.-Dr. Prnus was called to a case which, with a history of three weeks' ailing, had all the characters of enteric fever, witly rose sunts on the nhelemen, increased splenic dulneqs, temperature $102{ }^{\circ}$, and charnctoristic "pea-sonp" stnols. The temperature rose, and was $104^{\circ}$ on the fourth day afterwards. On the fifth day a enpions comfluent small-por rashapprared. The patient was removed to the hospital, where he died. There was absolutely un preliminary sympiom of smallepox.-Mr. (ionfrasy Carter related a casi of small-pox where the patient had workel up to the eighth day. Though there wereany two or three pustules and nother pute nor temperature exceded 100 . On recorery the pationt was extremely weak. - Dr. Cranwick had seen the caso of a child who had the typical appearance of typhomid fever, hut thepe daves later three puatules apprared, and the case turmed out to be smill-pox. In another case the symptoms and rash were those of scarlet ferer, and the chid wos taken to the Fever Ilospital, hut the next day had to ber removed to the small-nox ward.

A SFW jourmal, entitled the Jierve Illuatoe de Polytechnigue Wedicale rt de Chirurgie Orthoptolinue has just nppenret. This jourmal, edited by M. Albert leblond, yivesicinn to St. lazare, and editor of the Annales de Giynécoloqie, aus lyy M. R. Chenet, will give descriptions, with platen, of all the nowest instruments and scientific inventions. A ferman edision will hw published in Switzarland, simultancously with the French edition in I'aris.

## REVIEWS AND NOTICES,

l'racticay, Manual of Diseasis of WompN asin Utemine Therapetetics. By II. Maciaughton Jonfe, M.D., M.Ch., ete., Examiner in Midwifery and Diseases of Women and Children in the Royal University, etc. Third Edition. Lomlon: Bailliere, Tiadall, and Cox. 1888.
The vacillations which are continually manifesting themselves in the science and practice of gymecology-sonjetimes mercly changes, at other times renl advances-render it neressary for writers on this subject to keep, well up to date. This work is intended more particularly for the use of stuments, and therefore purely controversial matter is intentionally exeluded as far as possible; but, as examiners sometimes require their victims to be posted in the most recent methods of treatment, the nuthor has had to cmbody a few of these in his work, even though their value has still to be demonstrated.
The manual is essentially practical; it is profusely illustrated with woodeuts of instruments and appliances, together with others showing the various positions for examination. There are aome excellent coloured plates of the retina, to aid in the differential diagnosis of Bright's disease in wowen, and of microscopical sections to assist in the identification of cancerons growths of the uterns, etc. Except perhaps in his abuse of pessaries, the author has sought to avoid ton didactic a tonc, especially in the matter of trentment. The information given is in may cases evidently desigued to satisfy examination requirements rather than those of practice. We refer, inter alia, to the treatment of uterine fibroids by iodide of potassimm, mercury, etc. It may be remarked that Dr. Jones nsest he word spaying, notwithstanding the strougly expressed objections of certain of his fellow gynecologists; hut studenta would do wisely to have a care in their use of it in the examination room clsewhere than at the Royal University of Ireland. We are unable, even after a diligent search, to find nny mention of the etiologs, description, and treatment of extra-literine pregnancy. Surely this elrould be comprised in a treatise on the diseases of women, which is made to inclule such a disease as nephritis. The author, as a matter of fact, gives a large amount of information about subjects not usually found in textbooks on the diseases of women. He speaks highly of the value of masange in gynecological practice, and gives the necossary indications as to when und how to massle(?). The book is certuinly a valuable one, und fulfils the parpose for which it was written. The style is clear and unembarrassed.

## Yacemation Vinmeatrid. By Johy C. Matall, M.D.

 Cussell and Co.Time anthor tells ins in the preface that this book mas " hegun merely as a reply to Mr. Alfred Russell Wallace's monograph on Simali-pore Statistics and Vacimation, and has develojed into a commentary, more or less complete, m much of the anti-vaccination literatare of the day: and we have no hesitation in saying that it is the most mastirly exposure of the method of argument used by the anti-varcinationists which has appeared since the Royal Commission of 187.
At the commencement of the volume Dr. McVAlb, shows how the statistics of the folur Tears 1843-4f are made use of by the antivaccinationists by first admitting an epidemic of small-pox in 1844, and then denying it, just as it lappens to suit them: and he also shows how Mr. Whullace sometimes jlaces unlimited fnith in the statistices of the last rentury, and at other times denies their trustworthiness altogether. Further on IIr. MeVail quotes Mr. Wallace, that the Registrar-General's statistics are "imperfect and unreliable." nul then shows how he uses these very statistics to try and prove his firsl. second, and fourth propositions. llo alfo explains how Str. Wallace has manipulated a chart illustrating the amount of amall-pox mortality at differeut periods, ly compressing it from above downwards, and thereby concealing the decrease in the small-pox mortality since vaccination lias Teen practised. Comparing the mortality from small-pox at different age-perionls (which by the he dir. Wallace absolutely igmores), the author proves how, coincidently with the oxtension of vacemation, there failien a grachal decline in the mortality at all ages: and that this decline, as shown by a table, is most marked anoong children under 5 years of nge, in rohich class the small-por death-rato has fallen no less than 80 per eent. (per million living) betreen the
years 1847 and 1880 , while after the age of 10 years the mortality increases as age uutrances.
This alteration in the mortality at different age-periods does not hold good for other discases, and can only be explained by vaccination, and not, as the auti-vaccinationists maintain, by improved sanitary conditions; for we are told that "while the smallpox death-rate fell 80 per cent. in children under 5 years, other diseases fell only 6 per cent.; and while the small-pox mortality in persons over 4.: years increased 164 per cent., the mortality from other diseases fell 3 per cent. He then quotes from his well-known kilmarnock statistics to show how, in the prevaccination periods, small-pox was accountable for 91 out of every 100 deaths under 5 years of age. When dealing with the diminution of typhus and enteric fevers as compared with small-pox, he very pertiuently asks why, if sanitury agencies. reduced other diseases, they did not reduce small-pox.
In dealing with Marson's celebrated tables relating to the ratio of protection afforded by the number and quality of the raccine cicatrices, he shows that during the years $1871-7$ the better raccinated parts of the community supplied less than one-thirteenth part of the cases to the Il lomertou Ilospital, while the worse vacciuated and unvaccinated minority supplied twelve times as many.
As regards the question of the increase in the fatality of unmodifed small-pox, Dr. Mc Vail compares the lospital mortality at different periods, beginning with 1746, and shows how it has increased in that year from 25 per cent. of those attacked to 43.2 per cent. in our own time. In exceptional cases such as Dublin, in 1876-81, it reached 64 per cent.; in Montreal. 54 per cent.; and in Boston, 50 per cent. At the same time, a slight rise in mortality has also taken place among the vaceinated, showing either that the disease has increased in rirulence, or that the present generation is more susceptible.
The chapter on the mitigation of small-pox by raccination will give the reader a partial insight into the laborious work of attempting to verify the statements of anti-raccinationists, and in tracing their statistics through the hands of various manipulators to their original sources.
As a fair example of such manipulations, we quote a paragraph from the anthor: " We thus see that just as Mr. Wallace's I8 per cent. rate for last century was obtained by lumping together hospital and non-hospital mortalities, so his 18 per cent. rate for the present century is got by humping together the vaccinated and unraccinated mortalities."
Referring to the raccination of the criminal and nomad class, Dr. Mc Fail quotes from Dr. Buchanan's 14 tha annual report to the Local Government Board, slowing that the poorer classes, from which criminals and nomads are mainly recruited, are, owing to the superiority of public over private raccination, more perfectly protected from small-pox than their betters in social position.
The whole rolume is replete with such trenchant arguments, and is so ably written, that it cannot fail to find a place in the library of everyone interested in the raccination question. I Moreover, it is not a book to be read once and then laid aside, but from its very character it must rank as a classical essay on the subject.

Dr. Mclail clearly proves the necessity for his rule of procedure, which is to beliere no single word that an anti-vaecimator, as such, says, without obtaining independent evidence of its truth.

Transactions of tife Amenicay Cixacological Society. Vol. X1I. For the year 1887. New York: D. Appleton and Company:
Turs volume commences with the amual address, delivered by the lresidnnt, Dr. Skene, of Brooklyn. Ile concludes by observing: "Should fate determine that this board of medicine shall have its rise, decline, and fall, like many of the mations and their works in the past, I pretlict that when the men of the future come to explore the ruins of the once mighty Gotham, while they may find in the debris modifications of Sims s. speculum, and quaint and curious uterine supporters, and nany musty jars with human ovaries and tubes, they will find also the works of great masters and their monuments in perfect preservation, including the Transactions of the Anerican (iynnecological Society, and especially the volume of 1887."

Dr. Emmet in a contribution on the Treatment of Uterine Displacements, discusses his theory that pessaries give reliff chietly ly counteracting the impediments to the ihoot-supply of the uterus which occur in prolipse and other abnormal elter, tions in
the position of that organ. We may note two interesting memoirs on the serious questions relating to chronic disease of the appendnges by Drs. Polk and Battey. The latter insists that the aim of his operation is to produce an artificial "change of life." It is not his purpose to remove diseased ovaries; the fact that the ovaries are diseased in the cases where his operation ia performed is merely accidental. Verertheless, he strongly objects to the synonym "normal ovariotomy."

Dr. Mlundé's Drainage after Laparotomy, and Dr. Bantock's Treatment of the Pedicle in Hysterectomy are valuable papers, with instructive discussions. Dr. Engelmann contributes a monograph, over one hundred and fifty pages in length, on the 11 ysteroneuroses; it includes a long series of clinical reports. Dr. Johnstone, of Danville, writes on the Infantile C'terus, and believes that the arrested growth of the body tends to interfere with the proper development of the endometrium, and that structure being imperfect it is unfitted to form the placenta in Conjunction with the chorion, so that sterility is unavoidable. Dr. Chadwick's Ventral Hernia after Laparotomy aud its Surgical Treatment is another memoir which deserves special notice.

## REPORTS AND ANALYSES

DESCRIPTIONS" OF NEW INVENTIONS, in medicine, surgery, dietetics, ANid thb ALITED SCIENCES.

## BARRETT'S PERFECT INDICATOR BOLT.

THIs simple and usefnl appliance. of which the inventor and patentee is Mr. Barrett, M.R.C.S., 25, Clarendon Road, Holland lark, $W$., is designed to afford a ready means of enabling the occupant of an apartment to indicate by a sliding bolt that he is engaged, and therefore does not wish to be disturbed, or that the intending interviewer should " knock," " wait." or " enter:" the notice displayed on the outside of the apartment by means of a handle moved on the inside, admits, of course, of any modification to suit particular needs. The absence of some such announcement is often the cause of unpleasant interruptions, for eren if the door be locked on the inside, the newcomer often trie, the handle several times, and sometimes uses force, before he has fully satisfied himself that the door is really locked against intrusion. When the slide is shot the door is fastened, and at the same time the word "engaged," or any modification, is displayed in letters on a white ground on the outside. This invention is recommended for consulting rooms, bath rooms, and lavatories.

## YIKING ESSENCE OF beef and concentrated beef TEA.

(The Viking Food and Essence Company, Hearu Street, Curtain Road, E.C.)
We have examined samples of the above meat extracts, nud have found them strictly what they profess to be, namely, the essence the pure jnice of meat, without addition of water; the concentrated beef tea is an craporated decoction of meat of very goml colour und flavour. The samples are thoroughly well preservel. and put up in attractire-looking glass bottles with ingenious anti-bacterial lids. The preparations of this Company are pure and of rery higlı quality.

TELEPHONES IN HOSPITAL WARDS.
Triebhonic communicatiou between the ten separate blocks into which the Xational Ilospital for Consumption. Fentnor. Isle of Wight, is dirided has now been completed. The Equitable Telephone Association, Linited, ${ }^{5} 5$, Queen Victoria Street, E.C.. who phave been entrusted with the installation, have fixed one of their Swinton patent telephones in each block, and one in the porter:lodse, making eleren in all. These instruments are all connected to a central exchange switch board in the head nursees room, whereby any one block can be put into communication with any other in a few scconds. Arrangements have been made to admit of the system being extended to the private residences of soare it the medical oflicers who live in Yeatnor, should this be consi er - ${ }^{-3}$ advisable at some future time.

## BRTIISII MEDICAI ASSOCIATION. - SUBSCRIPTIONS FOR 18Q8.

Suhsoriptions to the Associntion for 1888 became due on innuary 1st. Members of liranches are requested to pay the same to their regpective Sucretaries. Hembers of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. l'ostoflice orlers should be made payable at the West Central Distriet Ofice, Highi Hollworn.

## Tbe British fleninal Joumat.

## SATURDAT, MARCH 10TH, 1888. ; 1

## SIR JAMES PAGET ON SCIENTIFIC STUDY.

Is addition to lis claims on our attention and respect as a great scientific surgeon, Six James Pagot, bas two gualities which mako suly of his speeches worthy of careful study and eonsideration. First, ho is a master of English, clothing all his thoughts in the purest and most elegant language; secondly, he has the power of cheering and heartening the humble labourer on the borderland of science, not only by showing that his work may be of real value, but als? by pointing out the direction where success may le most probably sought, and by indicating the means most fikely to attain it. - In his last Saturday's address to the students of the London Society for the Extension of University Teaehing, these characteristics were well shown.

In a specech of much eloguence he first of all, defended the Suciety, whose students ho addressed, from the old proverb launchel at all such bodies, "that a little knowledge is a dangerons thing,": declaring, with Charles Lamib, that like nearly all such popular proverbs, the very roverse of this one was the truth. Ife insisted that it was the quality not the quantity of knowledge possessed which made it dangerons, and that mothing was really to be so much dreaded as absolute ignorance. But he snid that the Society really imparted much more than a little knowlorge, and that its teaching was of great vahe.

The main part of Sir James Yagot's address, however, was necupied with an consideration of the things learnt in a scientific education. They were four: first, the power of observation ; secomdly, accuricy; thirdly, the difficulty of attaining a real knowlulge of the truth; fourthly, the methods ly which they could pass from that which was proved to the thinking of what was probable. He pointed out to the students he audressod that eron though they livol in London there was much they could stuly--the wild birds of the parks, for instance, or the wild howers and weeds that grow: on overy pieco of waste ground.

In speaking of accuracy ho drow a portrait, which we shall mnst of nis recognise, of that considerable body of men "who would not for their lives tell a lie, hut who nevertheless seemed i.s if for their lives they could not tell the exact truth."
l'erhaps the mest valuable part of the address was the one in
which the speaker dealt with the phee and method of theorotical thought in science ; inductive reasoning being probably not the strong point of the class of students he addressed. He gave the example of Darwin to show that theories should not be arrived at by vainly and raguely" guessing at possibilitios, lout by the slow and laborions collection and consideration of facts, and then by working out the prabable trnth from such material, or, as the great John Huntor said, "Don't think; try."

In his coneluding sentence, Sir James dealt with a subject which Carlyle has also treated in his Sartor Resartus, the proneness of man to wonder and to take pleasure in wondermentthe quickness with which familiarity makes the subjects of wouder commonplace and ordinary. Perbaps it is not withont interest to compare the different modes of thought exhibited by' these two men. The sedartific surgeon accustomed to deal with facts, to accept them and make the best of them, speaks calmly of these peculiarities of man; they are there, and must be taken into consideration in any dealings we have with our fellors. The philosopher, who believes he has a mission to regenerate the world, rages at the same peculiarities, and by excess of praise and blame seeks to alter those things which the surgeon treats as inherent and unalterable.
"There is another faculty in the human race," says Sir James, " another desiro-the lore of wonders. Everyone admires them, and nearly all have an insatiable appetite for tho knowledge of wonders." And then he goes on to remark: "It is singular to notice how the lure of wonders passes from scientifio men in their every-day occupation. Iou look at a machine, so perfect in construction, so exact for the purpose for which it is built, made with such foresight and such precision that the mind of the inventor really scems to be in it; it sooms to be working by mind; and there stands the workman by the side of that machine, but his senso of wonder has long since passed away: He knows what is going on ; he knows how all is come to pass, and to him that which yon think to be a wonder is a common experience of every-day lifo."

How different Carlyle! "The man whe cannot wonder, who does not habitually wonder, were be President of innunerahle Royal Societies and carried the whole of the Mecunique Celeste and Hegel's Philosonhy and the epitome of all laboratories and observatories, with their results, in his single head, is but a pair of spectacles, hehind which there is no eye." And, again!"Strange unough how creatures of tho luman kind shut their eyes to phainest facts, and by the more inertia of ollivion and stupidity live at ease in the midst of wonders and terrors. But indeed man is and alwaye was a blockhead and a dullard, much readier to feol and digest than to think and consider. Prejulice, which he pretends to hate, is his absolute lawgiver; mere use-rund-wont everywhere leads him by the noso. Thus, let hut a rising of the sun, let but a creation of the world, happen twice, and it censes to be marvellous, to be noterorthy or noticenble."
Sir James Pakget's :uddress ought to he of resl uss bot's to the students he midressed and to others who read it.

## PROGRESS, IN MORALS

Ir is a question of much interest and importance whether the great material progress of the present eentury has been accomparricd by any corresponding moral adrance. That we have made immenso strides in wealth and lusury, in seientific and industrial developraent, in all the arts and inventions that contribute to ease and comfort, is a commonplace and imquostionable statement. It is more open to debate whether the tone of public morality has risen, and whether vice and crime have undergone any notable diminution. There are not wanting those who regard the growth of great cities-that striking and essential feature of modern civilisation-as conducive to moral degeneracy, and preach a reversion to simple modes of life as a necessary condition of the preservation of a high tone of national character. Much of the argument on this, subject is conducted by those who prefer vagne declamation to scientific induction, and hence the question has been obscured by rhetorical exaggeration, and often argued with a notable disregard 'of fact. Let us briefly consider the snbject, and, shuming liypotheses however attractive, look strictly to evidence that is incontrovertible.
In proof that the material progress of the century has had a correlative moral adrance, we can point to a diminished and steadily deeclining consimption of intoxicants, and to a notable improvement in the views generally held apon the liquor question. 'In the last century drunkenness was not regarded as a degrading vice, and hardly constituted a detraction from the character of the fine gentloman. Now the drnnkard is held to be scarcely fit for decent society, and even the tippler is rightly viewed as one to be serlubously shumned. Not less encouraging is the altered tone of public opinion regarding such criel and demoralising pastimes as pugilism and cock-fighting. These are still, no doubt, practised, but scarcely a voice is now raised in their defence.
A welcome aldition to the statistics of public morals is afforded by Sir Edmund Du Cane in an article npon Crime and Criminals published some time ago in Mfurray's Mragazine. Taking the year of the Queen's accession and that of her Jubilee as a basis for comparison, ho is able to point to a highly satisfactory, and, indeed, smprising, diminution in crime.., In spite of the fact that the population has almost doubled during this period, wo find that the convicts of all classes in the year 188 were only about onefifth of their number in 1837 . If we compare the sentences to transportation in 1837 with those to penal servitude in 185\%, the contrast is only a little lesis enconraging, the figures being for the former year $3,78 \pi$, and for the latter 910 . The number of excentions in 1837 (including those carried out in the colmies) Sir E. Du Cane puts at 46 , while for the five years ending 1886 the arerage was only 14. In addition to these statistical faets, he points out that highway robbery, once rery conmon, is now practicalls unknown, and that smuggling, from heing one of the most frepuent, has become one of the rarest of offences. Surely the most confrmed pessimist or the most persistent laulator testporis aceit can hardly study such facts and continae to d: $\because \%$ to this age the credit of growth in moralle.

While facts such as the abovo are beyond dispute, their explanation is more open to easnistry. Sir Edmund assigns the chief credit to tho cfforts mado by benevolent societies to aid discharged prisoners in obtaining honest work, to the bencficial influence of reformatories and industrial schools, and to the gradual spread of education. We have no doubt all these causes, and others, have been in operation. In spite of occasional dis-1 couraging signs, wo believe that this age has loen one of great moral and religions progress all along the line, and that a great advance is constantly being made torrards those

## Sweeter manners, purer laws,

of which the Laureate sings. How far the work of tho clrurches and of benevolont societies has co-operated with wise legislation and private philanthropic efforts it is not our province to sook to determine, but the gonoral conclusion remains certain.

As regards the most efficierit means of dealing with crime per se, two points require to be kept in view, namely, that the natural tendency of blind social forces, unless wisely counteracted, is to keep criminal the man who has once fallen into crime, and to cause the offspring of criminals themselves to drift into a criminal $\begin{aligned} & \text { fife. Of two problems, the preservation of the }\end{aligned}$ young from their threatened evil destiny is undoubtedly much the easier of solution. Hence, the great importance of reformatories and industrial schools, which tend to divert the cnrrent of crime at its very source. Heredity is, doubtless, strong, and the children of thieves and ragabonds come into the world heavily handicapped; but there is no reason to doult that due restraint timely omployed, proper, oducation, and the opening up of honourable careers, have been, and are, most efficient means for cutting of the supplies from the criminal market.

The reform of the hardened criminal is a more difficult matter, but without going into other matters, it is certainly essential that we should not regard the man who has onco fallen into crime as hopelessly depraved, and that we should afford him the chance of reformation. Such is the aim of the varions charitable organisations, which recognise that society has not done its duty to the criminal when it has merely punished hin, however desorvedly, and that after punishment comes the not less imperative duty of opening. np the way to a return to honesty and purity of life.

Tres Albert Medal of the Society of Arts for 1887 was preseuted to the Queeu by a deputation from the Council of the Society on Thursday afternoon.

The: Councll of Charing Cross Hospital. on Wedmadny last, March Tth, unanimonsly elected Mr. John II. Morran to the post of Surgeon to the hospital, racant by the retirement of Mr. barivell.

Wh much regret to have to report that Sir llenry Acland has undergone the operation of removal of the eyelall, due to an attackiof harmorrhagte glanoma of the left eye. He is going on well. The operation was performed by Mr, IIenry lower,

THE HOSPITALS ASSOCIATION.
Ture next meeting will bo held in the Board hoon of St. Marg's Hospital, l'addington, on Wednesday, March 14 th, at 3 r.ar., to hear und discuss a paper by Mr. Thomas Ryan, Secretary of St. Mary's llospital (late of Queen Chariote's) on "The Origin, Ifistory, Work, and Iresent State of Metropolitan LJing-in Mosintals." The ehair will be taken by W. S. Mayfair, Eisq., M.D.. LL.I). Cards of amission can be obtained on application from Mr. 1 Loward J. Collins, Secretary, The llospitals Association, Sorfolk IIonse, Sorfolk Street, IV.C.

PHYSICAL TRAINING IN THE ARMY.
A sime system of drill, combining with it physical training, is being tried at . Nhesshot, where a number of inen were put through the exereise on Munday last, in the presence of the Dnke of Cambridge. Major-General I' Smith, from whom the idea emanated, maintains that the physical training of a soldier is entirely neglected in the routine of regimental drill, and, with others of high military standing, realises the want of a minor drill, which combines with it physical training.

## LECTURES ON DOMESTIC HYGIENE.

A cocrsar of tive lectures, on "Domestic Ilygiene" (jointly arranged by the Councils of the larkes Museum and the National Ilealth Society), will be delivered in the Parkes Museum, 74, Margaret Street, at 3 1יM., on March 14 th, $16 \mathrm{th}, 21 \mathrm{st}, 23 \mathrm{rd}$, and 28th, by Dr. A. T. Schofield. The subject of the last lecture (March "'th) is "llome Sursing," when clinical demonstrations will be given by trainel horpital uurses. After the completion of the course an examination will be hell (after Laster), and the Duchess of Albany has consented to present the certificates to the snccessfal camdidates.

INFECTIOUS HOSPITAL PROVISION AT THE SEASIDE.
Ture local sanitary authorities of those seaside places that at present have noproper means of isolating eases of infectious disease, or of disinfecting infected articles and clothing, would do well to mlopt the reiterated ad rice of the Local Gorernment Board, and make the reguisite provision without deluy. Such prorision need not be on an extensive scale, but it should be in realiness for the reception of earliest cases. The prompt isolation of suelicases, and thesystematic disinfection of infected houses and articles are the most effectual method of preventing epidemics. Independently of the advantages thus actually derived by the resilent population of health resorts, the additional sense of security afforded to the visiting public would, in the long run, fully compensate the local ratepayers for their trivial initial expenditare.

## ST. JOHN'S HOSPITAL.

15. view of the grave charges made against the boarl of management of malaiministration of the fumls of the hospital, and of the fact that the enurt of inguiry which the:")uke of Northumberiand (President of the hospital), Lord Aberdare, and other influential gorernors have declared to be nceessary, has been refused (a refusal which las led to the resigmation of the President and many inlluential governors), we cannot, white the challenge of the editor of Truth remains unanswered in the only way in which it is possible to answer it-namely, by an action at law advise the public to respond to the appeal for funds which the oflicials of this hospital are now issuing. It should be remembered that the medical management of this hospital has been shown to be unsatisfuctery, while its finaucial management is thu* openly challenged, su that in two most essential particulars it is not in a pusition to claim public confidence until further and awitu inyuiry has been conceded and has resulted satisfactorily.

THE LATE EMPEROR OF GERMANY. Wre understand that tho malady from which the Emperor of Germany has been snffering, and which has now terminated fatally, was renal colic. His Majesty had for several years been subject to sharp attacks of this affection, bearing the pain with great fortitude, but being much wenkened on each occasion by tha sleeplessness to which it gave rise.

## VACANT CHAIR OF OBSTETRICS IN OWENS COLLEGE.

As will be seen from our advertising columns, the Council of Owens College are prepared to receive applications for the vacant Chair of Ohstetrics. "So far, three local candidates are in the field, namely, Drs. Lloyd Roberts, Sinelair, and Walter. The election will probably take place at the end of this month, and the new professor will be expected to begin his duties in May. All three local candidates hold hospital appointments. What is wanted is a man who has shown himself to be energetic and thoroughly abreast of the latest advances in his own department, and who is thoroughly conversant with medical Continental literature. If to this be added aptitude as a teacher, these are the requirements to be sought for by the Comeil.

## SACCHARITE, OF COCAINE.

Dr. Andrew II. Smitir writes to the New Iork Medical Recurd, "Observing the strong acid property of saccharin, it occurred to mo that it could be made to take the place of an acid in combination with the alkaloid cocaine, and thus avoid the extremely bitter and disagreeable taste of the muriate, the salt usually employed. With the aid of Mr. B. Frank llays, the well-known pharmacist of New York, a salt was obtained which is freely soluble in water. and has an agreeable, sweet, fruity taste-a valuable property when the drug is to be employed in the throat, especially in the case of children. The molecular number of saccharin (a better name wrould be saccharinic acid) is 183, that of cocaine 303 ; combined in these proportions a neutral salt is formed having about So per cent. of the alkaloidal strength of the muriate, a 5 prr cerat. solution of the first being equal to a 4 per cent. solution of the second."

## the influence of nasal disease on the THYROID GLAND.

IT the meeting of the Berlin Medical Society on Jnnuary 2uth, Professor Fränkel mentioned an iuteresting case showing the influence of nasal irritation upon thyroid enlargement. The patient, a young man, aged 17 , had an enlarged thyroid, with murmur on auscultation, and a pulse of 130 , but no exophthalmos. During treatment (with the constant eurrent) the lad complained of nasal obstruction; accordingly, without reference to the other symptons, the left inferior tarbinated bone was removed by the galvano-cantery. Within a few days the thyroid gland rapilly uliminished, and the pulse became slower. After waiting three werks, during which time the symptoms were stationary in spite of the constant current, the right side of the nose was operatem on as above four lays before the case was reported to the meeting. During these four days the enlargement had again undergone a rapid diminution, and the pulse had become normal. The thyroid hat diminished by certainly a fifth of its bulk. Hack, in lsaf, had reported a complete eure of lusedow's disense by treatment direeted th the nose. Althongh this case could not fairly be termed Baserlow's disease, becanso both exophthalmos and v . lirace's symptom (lefective movement of the upper lil with the glabe) were absent, it certainly showed, I'rofessor Frinkel argued, the intuence of nasal irritation upou thyroid enlargement.

THE LATE MR．CURLING．
We are much gricved to have to annonnce the loss of one of the veteran masters of English surgery，Mr．T．B．Curling．We are informed by Dr．Jrandt，that on liriday morning，March and，Mr． Curling drove out at Cannes，where he was residing for the winter． The day was bright，but owing to the snow on the Alps，the weather was very cold．Ile was already suffering from a slight cold．During the night he became restless，and shortly after－ wards symptoms of pulmonary congestion set in．He was care－ fully attended by Dr．Brandt and Dr．Frank，but in spite of their united efforts，the symptoms rapidly increased，cerebral cffusion supervened，and he breathed his last peacefully at 8.30 on the morning of March 4th．Mr．Curling lad a large circle of attached friends，to whom he was endeared by his sterling uprightness of character，tenderness of heart，and the affectionate constancy which underlay his reserved manner．He was an old and ralued friend of the Jocrnal，in the progress of which he took a great interest．In making this annonncement we have to mourn a personal as well as a public loss．In another column will be found a brief obituary notice of this able and distinguished man．

## INFLAMMATION MASKING CANCER．

Dr．Oneccira has recently called attention（Gazzetta degli Ospitali，March $4 t h, 1888$ ），to the frequent combination of inflam－ mation with cancer in the same part，the graser disease being sometimes so obscured in this way as to be orerlooked for a con－ siderable time．IIe reports six cases in which this occurred．In one of these cancer of the larynx was supposed to be nothing more than perichondritis；in two malignant disense of the jaw was mistaken for osteitis；in another periproctitis for some time masked a rectal cancer；parotitis concealed canceror sarcoma of the parotid ：and simple inflammation of the lip，an epithelioma．The possibility of malignant disease underlying what appears to be a simple inflammatory process should never be forgotton when the age and appearance of the patient，and the part affected，are sucli as to make the existence of carcinoma prohable．Dr．Orecchia believes that in these cases the cancer is the primary disease， which，owing to the slightness of the symptoms，remains un－ noticed till the supervention of inflammation calls attention to the part．In the stroma of all the tumours referred to，Dr．Orecehit found much extravasated blood，with abundance of lencocytes，of which there were ulso a great number in the neighbouring tissues．

## ERYTHROPHLCEIN．

This African product has been the subjecto a lively debate in the Berliner Hedicinische Gesellschaft（Berliner Klin．Wocken－ sehrift，1888，March 5th，also February 27th）．Dr．Lewin asserted that it possessed a local anesthetic action far stronger than that of cocaine．Professor Liebreich replied that the sample examined by Dr．Lewin was in reality a snake poison，and that the rosy red coloration produced by evaporation with sulphuric acid is shown also by snake poison，and even by dried egg or serum－albumen．Dr． Schöler read a paper at the last meeting of the above Society，in which he confirms bewin＇s results．An erythrophlain solution of $1-5$ per cent．strength，when dropped into the eve gave rise to a good deal of irritation at first，but perfect insensibility of the comer ensued in about twenty minutes（or half an hour）．The pupil was not affected and intra－ocular pressure was lowered，but a slight degree of hyperamia of the conjumetiva persisted for a long time，and the subject of experiment complained of a feeling of reight in the upper lid，a sensation as of a veil before the eyes， and of interference phenomena－for example，coloured rings．On the other hand，Dr．Loemenhardt，of Breslan，writes in the berliner Kim．Wochenschrift（March 5th）to the effect that he ohtainel no
anæsthesia，but a consilerable degree of hypermsthesia，after sub－ cutaneous injection in animals．and found that he could easily produce sloughing．Dr．Epstein，of Nürnberg，in an original com－ munication to the Centrall．f．Klin．Med．（March 3rd），finds that erythrophlwin has only a slight local anæsthetic action when sub－ cutaneonsly injected，and that a good deal of pain is caused by it． So far then this last observer is opposerl to Dr．Lewin，who said in his communications to the Berliner Dled．Gesellschaft that ery－ throphloin had a marvellous power of producing anæsthesia．The difference of opinion evolved by this statement has liad the effect of bringing a number of experimenters upon the field of action and no doubt precise results will soon be afforded from uniform samples of erythrophloin．

## THERAPEUTICS WITHOUT ALCOHOL．

The Temperance Ilospital has been in existence now about trelve years，and the anaual report for $1886-7$ may be studied with advantage in order to compare the results with those of other hospitals．It must not be supposed that the hospital only receives abstainers，though these are in the majority，probably due to the large proportion of infants and children．In the surgical depart－ ment the results have been very satisfactory，so far as one is enabled to judge from mere figures，but turning to the medical cases，we may restrict examinations to one or two groups of dis－ case，with adrantage．Out of thirteen cases of acute pneumonia， four（abstainers）died，one of them on the fifty－fourth day from exbaustion．Only four cases of typhoid fever were admitted in all，and although the cases were of young people－15， 7,14 ，and 35 respectively－and comprised three abstainers，they all proved fatal．The treatment was the same as clsewlaere，and the only difference consisted in the non－exhibition of alcohol．Then again， simple exhaustion，eighty－seven days after the onset of the dis－ ease，proved fatal in one instance．The arerage stay of patients in the hospital would seem to show that convalescence is unduly prolonged，and this，notwithstanding the fact that the list of cases comprises several of＂nasal catarrb＂and other trivial complaints． The only occasion on which alcohol was administered was in a case of operation for strangulated hernia，iu which death resulted from an unreduced constriction．Fvery credit is due to the registrar，Mr．Leopold IIudson，for the clear and practical manner in which he has tabulated and arranged his figures．We shall look formard with interest to future roports drawn upon the same excellent plan，as it is only by comparing results that medical men will be cmabled to judge the merits of treatment without alcohol．Thanks to the impartial summary with which the report opens，it is ensy to grasp its general tenour．It con－titutes an in－ novation which other hospitals trould do well to cony．

PRIMARY MELANOSIS OF THE VULVA．
Dr．Temenhas has recently described a remarkable case of this kind which he observed at the saluetrièe in 1805 ．Tho patient was an insune woman，aged 62 ．with anasthesia on the right side．She conplained of pain in the vulva，and on the inner side of the right lahium minus was a small tubercle the size of a nut， harl，smooth－surfaced，and rery black：outruaning rays of tumour－ snbstance proceeded from its periphers：The labium around the tubercle was deep black，but patches of healthy integument still remained．This discoloration extended to the vagriual mucons membrane．the cervix，and the opposite labinm．No other tumour conll be found，nor was there any glandular infection．Two mouths later the pigmentation had made no further progress，but the tumour had grown larger；it was removed by the thermo－ cautery．The epidermis and corium were both found to have undergone alteration ：in the corium were collections of round cells bearing pigment：and altogether the tumour appears to have
heen a anelanotic sarcoma. Fonir months after the operation there was uo recurrence, but a month later the right inguinal glands hegan to enlarge, and soon nultiplo tumours developed. At the (ighth montl after operation melanotic thmours were found on tho left labinm minus, the posterior vaginal wall, and the meatus. The tagina and cervix were jet black. In the right groin was a Inrge hard mass; its hack coloration showed through the tense integument as yet unpigmented; a linck tumour was found on the back, and indurated glamds wero discovered in the left groin and the right subelavian fossa. There was general cedema. l'igment granules were found in tho blood, which contained an undue proportion of white corpuscles. The urine on standing for some time exposed to the air becamo almost like ink. A month later the patient died after severe dyspmea nud abdominal pain. All the pelvic, alulominal, and thoracic glands were melanotic, some being reduced to a black semi-fluid mass; the liver and the spleen were rinllled with little black masses. M. Cornil found that nll the infected parts presented the microscopic appearances of diffuse melanotic sarcoma.

## MALFORMED VAGINA COMPLICATING LABOUR.

Dr. Fleischmann has described, in the Prager Medicinische Hochenschrift, amongst a serics of contributions based upon material gathered in Professor Breisky's wards, the case of a primiparu who had, during labour, very strong and unusually painful niterine contractions. When these had continued for two hours, a transverse line could be seen under the integuments, about the level of the urahilicus, indicating the limits of the body of the utcrus and its thin-walled lower segment. During each pain it was found that the factal head, evidently retained at the outlet, pushed forwards a very tongh septum, as thick as the finger, und lying in an almost median position; this septum was inserted into the erlge of the hymen and of the vagina, just above that membrane. It was ligntured in two places, and cut through. Convalescence was rapid. The local appearances, when the patient was discharged, were as follows. Tracing upwards from the remains of the septum in front and behind, a comb-like crest was found to run along the vaginal wall of the cervix. These crests were continued to the cervix, where they ended in a septum which ran right up the cervical canal and the uterine cavity, as far as the fundus. That cavity was thus divided into a large and a small latcral compartment; the larger, which appeared to have contained the placenta, was on the left side. The malformation was of that kind known as vagina subsepta and uterus bilocularis. The case is of consideralle practical interest; anything like a double vagina is very puzzling to the obstetrician if unrecognised till the beginning of labour, or, later still, in the stages of parturition.

## MULTIPLE SALIVARY CALCULI.

Dim Nigolat J. Morsfikff, of Shtchizry, rejorts (Proceedings of the Shtchizry Medical Society, vol. i, 1887, p. 68) the case of a rotired major-general, aged 70, who sought his advice on account of incessant profuse salivation, pain on deglutition, and sublingual swelling of several years standing. An oblong, hard elevation was fouml along the course of lartholin's duct, which, even on slight pressure, gave the flnger a distinct grating sensation. The duct was considerably distended along its whole course, nnd contained three salivary calculi lying in close contact. The nearest and smallest concretion, of the size of a big pea, was casily removed with foreens, but the other two could he extracted only after slitting up the duct, since they were considerably larger, especially the deepest one, which measured two centimetres in length and ono in breadth, and, in addition, was intimately adherent to the gland substance; it resembled a bird's bill in shape. When dry it weighed 2.2 grammes, and consisted of a compara-
tively hard and compact nucleus, with a spongy, friable outer capsule. The smallest calculus was of pyramidal form, of spongy consistence, and greyish-yellow colour ; whilo the middle one was quadrangular, with rouncled angles, and of a distinctly laminated structure. The total weight of the elried calculi was thirty-eight grains. The wound healed well in a week. Dr. Moiseeff has been unable to find another recorded instance of multiple calculi simultancously present in the same salivary duot.

LAPAROTOMY FOR DILATATION OF THE COLON. A remarkable case of fecal nccumulation is reported by Dr. Worrall in the Australasian Medical Gazette in a girl, nged 14. She was bronght to the hospital suffering from an enlargement of the abdomen, which had been gradually incrensing for two months. The patient had not liad any previous illness, and her mother "thought" her bowels were not regular: On examination a solid tumour, neither painful nor tender, was found to fill the whole abdomen except portions of the left hypochondriac and left lumbar regions, having its grentest prominence to the left of the umbilicus. The tumour was hard, nodulated, and irregular. It seemed to touch the liver above and dip into the pelvis below, being bounded laterally to all appearances by the colon. The tumour could be mored slightly in every dircetiou. A day or two after admission, although the bowels were moved several times daily, a laxative powder and an enema were given prior to examination under chloroform. As the rectum was found to be still blocked with freces more aperients were ordered, and for the next ten days there was diarrhœa with numerous horribly offensive stools. The temperature averaged $101^{\circ} \mathrm{F}$. It was decided to perform an exploratory laparotomy. On opening the abdomen what looked like an enormous cyst, fluid abore and solid below, was seen, which on being opeued was discovered to be the ascending colon enormously hypertrophied and dilated. The wound in the colon was sutured, and the abdominal incision closed. Not the least remarkable fenture of the case is the fact that the youthful patient was discharged quite well on the fourteenth day after the operation.

## CASTRATION AND THE DEVELOPMENT OF THE GENITAL TRACT.

Dr. Kehrer, in 1879-80, made a series of experimeuts to ascertain the effect of castration on the development of the genitals in young animals; the results were published in his Beitrïge zur Klinischen und Experimentellen Geburtskunde und Gynäkologie. lle castrated rabbits between two and threc months of age, and killed them one year later. He found that unilateral castration or spaying eaused no arrest of development ; on the other hand when the operation was performed on both sides, the genitals and mammary glands remained stationary, never developing beyond the stago which they had attained when the essential organs were removed. Dr. Kehrer attempted to prove which theory was truePfluger's, according to which there existed in the uncastrated female a stimulus to growth through periodical irritation of the ovarian nerves set up by the ripening of follicles which goes on long before pulerty; or, on the other hand, the theory that spaying caused a clisturbance of the blood supply of the remaining genital organs, through the occlusion of the ovarian arteries. For this purpose he ligatured the ovary aud ovarian artery in two series of experiments. He found that neither in unilateral nor in bilateral ligature of the tubes or extremities of the uterine cornus, with separation of the ovarian arteries, was the normal development of the genitals in any way affected. He concluded that the ovarinn nerves, or some other and. unknown influence in connection with the ovaries, played the most prominent part in stimulating the development of the genital tract.

THE ILLNESS OF THE CROWN PRINCE
Ir is with the greatest satisfaction that we learn by special telegram from San Remo that the general condition of the Crown Prince is now rery good. The irritation of the windpipe that was so troublesome for some time has almost entirely disappeared, but there is some increase in the swelling within the larynx. We may add that we are able to confirm this comparatively favourable account, by independent information which we have received from a perfectly trustworthy source. We are in a position to state that neither Sir Morell Mackenzie nor Mr. Hovell is inclined to share the pessimistic views recently made public, though they do not of course deny the possibility of the disease proving to be cancer. With regard to a rumour which has been largely current in society, and which lately found mest unseemly expression in a French contemporary, we have the fullest authority to deny, in the most emplatic manner, that there is any ground for such a suspicion. Te may repeat that the recent sufferings of the illustrious patient have been almost wholly due to the irritation caused by an ill-fitting tracheotomy tube. The operator, as was perhaps natural under the circumstances, appears to harc been rather nervous, and the windpipe was opened some way to the right of the middle line; hence the difficulty of finding a suitable tube. Sir Morell Mackenzie, assisted by Mr. Horell and Dr. Erans, the well-known dentist of Paris, spent the greater part of one day in constructing a tube of a shape specially adapted to the requirements of the case. Since this has been worn the Crown Prince has been more comfortable in every way; he has been able to sleep, the cough has diminished, and the expectoration has almost lost the blood-stained character which excited so much alarm. It is satisfactory to see from the official bulletin lately published in the Reichsanzeiger that the medical menare now in substantial agreement as to the nature of the disease. We do not think, however, that the inference which has been drawn from this in certain quarters, that Sir Morell Mackenzie has abandoned his recently published opinion on the subject, and adopted the less farourable view of some of his colleagues, is altogether warranted. Although the result of Professor Waldeyer's microscopical examination has not been published, we have reason to believe that it is such as to admit of a favourable interpretation.

THE TREATMENT OF UTERINE FIBROIDS.
THE theories and practice of Apostoli have led to much discussion on the treatment of fibro-myomatous tumours of the uterus, more conreniently termed uterine fibroid disease. This method, like everything else in the universe, is the effect of a cause. In this casc, the cause is the danger of amputation of the uterus, balanced hy the uncertainty of palliative measures. Electricity is a fascinating middle course between physic, often so impotent, and the knife, often so fatal. A fibroid uterine tumour may assume gigantic proportions, and cause serious trouble; lut its increase in bulk is never rapid, in the same sense that the growth of a cyst or a sarcoma is rapid, and the menopause is often its limit. Yet it may be the source of pain, menorrlagia, and often troublesome and dangerous symptoms. Theu operative measures are suggested. In the case of hysterectomy or oüphorectomy, the operation is always perilous, and depends, perhaps more than any other surgical operation, on the experience as well as the, mere skill of the operator. Ilence gynecologists turn to palliatives or electrolysis. With respect to palliatives, it is certain that almost any rational treatment tends to reduce the size of $\Omega$ large fibroid tumour. Rest, moderate purgation, and the administration of ergot without any of those incompatibles with which it is often giveu, all appreciably ffect tumours of this kind for a time. Authorities of the negatire or expectant sehool believe in Woodhall Spa. The amount of benefit derived from palliative treatment is ever uncertain,
though permanent arrest of the tumour is occasionally effected. When an operation is contemplated, the choice lies between öphorectoury and bysterectomy. Surgeons witbout special experience too often look on oüphorectomy as an easy and safe operation; but facts have shown that, in the case of fibroids, it is often difficult or impossible, and that when possible it is perilous, owing to the difliculties experienced in securing the pedicle. Enucleation during abdominal section is not justifiable, liystercetomy may be performed as an intraperitoncal or an extraperitoneal operation. The intraperitoneal variety is logically the better, but it is extremely dangerous. No surgeon can calculate how to tie each suture firmly enough to check hæmorrhage, yet not so tightly as to cause sloughing or tearing of the thread through its track; still less can he guard against contraction or relaxation of the uterine tissues around the uterus after the return of the stump into the abdominal cavity. The extraperitoneal operation is less dangerous; but it requires nerve, dexterity, and experience at least of other surgeous practice. Statistics are absolutely worse than useless as guides to surgeons devoid of special experience; and decision, sad to say, is too frequently qualified by personal predilection for some operation, or by dislike for another. Unconscious hypocrisy often imfluences inexperienced operators. Apostoli's electrolysis is fascinating, hecause, unlike palliative treatment, it means "doing something;" whilst many believe that it involves neither the difficulties nor the risks of operation. Experience is proting, however, that A postoli's metbod requires great skill and demands many precantions, and that it is not altogether free from danger. As to permanent results, eveu so respected an authority as Dr. Keith depends upon the words of another, and that other is Apostoli himself (Jocrnal., December 10th, page 1258). The conclusions to which we are led by the above facts are that palliative treatment is the only course which a practitioner without special experience can justifiably pursue in the case of uterine fibroids; and that the relative merits of oöphorectomy, hysterectomy, and electrolysis can only be decided by experts.

## AN ERGOT-MILL FOR OBSTETRIC BAGS.

Dr. Loviot, in describing l'rofessor lajot's obstetric bag in the Annales de Grynécolngie, notes that it contains an ergot-mill. This instrument resembles a small coffee-mill, hearing, like that familiar domestic instrument, a handle, bnt in size it is not larger than a pepper-mill, and might work by the same simple mechanism. It may readily be packed in the bag, as it takes up very little room. The practitioner can only rely on freslly pulverised ergot of rye. This mill enables him to powder the ergot on the spot, so that in the hour of need a strong preparation of the drug may be made in the patient's chamber, even in the most remote country districts. In this maner perilous delays caused either by inert liquid preparations of ergot, or by waiting till somo fresh tincture or fluid extract is brought to the lying-in room from some distant druggist's shop, are avoided, to the great advantage of the patient and the practitioner.
comparative study of the action of various DRUGS ON THE HEART.
At the Italian Medical Congress, held at lavia, Professor Rummo and Dr. Ferranini read a paper on this subject. They have made experiments in the laboratory attached to Professor Cantanis clinique on frogs, toads, crustacea, guinea-nigs, rabbits, and dogs, with the view of determining the precise mode of actiou of those drugs which have a definite effect on the heart. They used the graphic methol throughout, and the drugs which they experimented upon vrere: digitalis and digitalin, strophanthus and strophanthin, upas antiar, lelleborin, erythrophloein, oleander, spartein, caffein, adonidin, and convallamarin. They observed that these drugz
flrst dminished the frequency of the pulsations and augmented the blod-pressure in all animals (homothermic and heterothermic), whereas in a second stage, especially when the doses were toxic, they disordered the rhythm of the heart, and diminished the hloot-pressure. In a third stage, a diastolic panse of the curdiac action, after the use of all the drugs, supervened in heterothermic animnls, whereas in the homothernic oncs, the heart stopped in the systolic phase only after certain drugs, such as digitalin, strophanthus and strophant hin, helleborin, ery throphloein, upas antiar, oleander; adonidin and convallamarin, however, produced in theso animals, even in small doses, a dinstolic pause of the cardiac action. Spartein and caffein, on the other hand, had no great influence on the bloodpressure. As regards the mode of action of the drugs used, it must he remurked that strophanthus and strophanthin, helleborin, digitalis, ery throphlacin, upas antiar and oleander, chiefly influenced the heart-muscle, and in the second place, the cardiac nerves. Adonidin and convallamarin simultaneonsly influenced the cardinc muscle and the cardiac nerves, whereas spartein, and particularly caffein, chiefly affected the cardiac nerves, and the heart-muscle little, or not at all. All those drugs which augmented the blood-pressure, did this by means of a combined mechanism, as they simultancously increased the systolic energy of the heart, and produced narrowing of the peripheral blood-vessels by irritation of the vasomotor centres. The experimenters, furthermore, tried to answer the question whether those drugs which had a particular influence on the cardiac muscle had also an effect on the striped muscles in general, anl whether those whicl influencel the cardiac nerves conld also produce a similar effect on the whole nervous system. They found that only those drugs which chiefly influenced the cardiac nerves produced also, to a certain extent, disturbances in the nervous system in general.

## CREASOTE IN PULMONARY PHTHISIS.

Is the Meditzinskoë Obowenë̈, No. 23, 1887, p. 10:4, Dr. P. Bogdanoritch, of Yalna. publishes very interesting personal observations on the therapeutic valne of erensote in phthisis. The writer, who has heen suffering from pulmonary and laryngeal tuberculosis for abont two years, had tried the drug on himself in small doses (half a grain four or five times a day.) some time ago, but without appreciable benefit. After pernsal of the observations of l'rofessors Sommerluodt (Berlin. Klin. Wochensehrift, No. 15, 1887) anll Gutmann (Deutsche Mecl. Keit., No. L2, 1887), however, he again began to take creasote in gradually increasing large doses, loginning with four grains a day, and reaching, in about two months, a daily dose of fort y-four grains. There took place, fairly rapidly, an unmistakable and permanent impmoment in his symptoms. Fever disuppeared in a week; expectoration, cough, and dyspnoea steadily decreasel to a considerable degree; laryngeal spasm, which had formerly securred onco or twice every month, censed altogether. is regarils the oljective signs, however, there was only some diminution of dulness over a certain area, with complete disappearmes of fine crepitant railes. its to tulecrele bacilli in the sputun, they remained just as numerous as hefore the creasote trentment. The latter has lasted in all four months, during which perind not less than four ounces and two drachuns of pure creasote have lneen ingested. The drug must be taken in doses of about five grains four times daily, in the form of capsules (filled up, ex: tempore), after meals. With regard to disagreeable after-effects Dr. Bogdanovitch olserved in limself, when, by way of experiment, he touk as much as twelve grains"at a tiwe, or twenty grains in the course of an hour, ouly gilliness, cardiac palpitation, small and accelerated pulse, general weakness, pallor, and anxiety; but all these toxic phenomena disappeared spontaneously and com-
pletely in about half an hour or an hour. On an empty stomach, however, he experienced epigastric uneasiness and pain even from smail doses. Dr. Boginnoritch resumed of late the use of creasote in order to study the effect of a six months' course. Dr. Hermana Snhli's paper on Guaincol as a Substitute for Creasote (see the Journale, vol. ii, 1887, p. 1237) seems to be unknown to him.

## ACUTE INFECTIOUS PHARYNGITIS.

Tie above term, which should be supplements by the word "primary," is used by Professor Senator (Berliner Klin. Wochenschrift, 1888 , Nos. 5 and 6) to indicate a rare and "perlaps always fatal" form of pharyngitis, not hitherto deseribed in textbooks of medicine. Two examples had occurred within the last few mouths, and a study of similar cases had revealed three more as having occurred within the last twelve years. In all these cases, reported at a meeting of the Berlin Medical Society on January 4th, and discussed on January 18th, the disease affected previously healthy persons, without any apparent cause, and ran an acute course, ending in death in a few clays. It began with cervical pains and dysphagia, accompanied by fever, often moderate ; then followed hoarseness, or loss of roice, and dyspucea; finally, the sensorium was affected, and death quickly ensued. The chief anatomical sign found post mortem was diffuse purulent infiltration of the deeper tissues of the pharyngeal mucous membrane the inflammation extenling to the trachea and glands of the neck and secondarily to other parts, especially the gastric mucous membrane. Senator is of opinion that wany eases hitherto regarded as examples of acute cedema of the laryn. are in reality cases of the above disease. Notably in a case of Cruveilhicr's the pharynx was affected for a day or two before the larynx. The very rare "typical cedematons laryngitis," mentioned by Si Morell Mackenzie as of septic origin, is also clamed as in al: probability affording an example of the above disease. The spleet was generally enlarged in Senator's cases, and the kidneys, as rule, showed parenchymatous inflammation. A peculiar exanthen appeared in one case. The blood removed both before and afte death had been carefully examined, but no specific micro organisms had revealed themselves in attempted cultirations, in jections of which, as also of fresh blood, had been harmless i rablits. The streptococcus of Friedlander (erysipelas coccus) ma certainly absent. In the discussion which followed, Dr. Guttma argued that the cases were probably erysipelatons in spite of th above fact, and referred to Ziemssen's Special Pathology, an Eichhorst's Patholoyy. Virchow leaned to Guttman's opinion, hu also duscribed other pharyngeal diseases which might misleac especially metastatic abscesses in puerperal fever, suppurativ pharyngitis accompanying acute gastritis and, in one cas mediastinitis. But Senator urged in his reply that there was I ahscess in any of his cases, but a diffase purulent infiltratio always beginning in the pharynx. The canse was alsolutely ut known to him at present, but the system was wery rapidly affecte in ne eharacteristic manner, and tracheotomy was of no avail. Il had no doubt that a study of the subject as revealed in lospiti records would revenl mumerous examples of this disease ove looked under the title of "acute edema of the Iarynx."

ETIOLOGY OF CROUPOUS PNEUMONIA.
AT the meeting of the Italim. Medical Congress at Pavia, lrofens Bozzolo communicated the results of investigation on the etiolof of croupous pheumonia, which he had carried out together wi his assistant, Dr. Tussinari. In their experiments they used flu which had been obtained from hepatised lungs during life puncture, on the fifth or seventh day of disease, before crisis yet superyened. They prepared cultures on bouillon or ag agar, and, in order that the virulency of the cultures should :
be weakened, the animals on which it was used were first inoculated with the impure culture of the sterilised nutrient fluid. In eight out of fifteen fresh cases, the development in the cultures of Fränkel's diplococcus was observed; it killed rabbits, but had no effect on guinea-pigs. The rabbits died in the course of twenty-four hours, and their blood was full of diplococci. Profeasor bozzolo had observed similar facts in 1882, when he reported them to the Academy of Medicine of Turin. The same microorganism had also been detected by him in a recent epidemic at Cuneo, in which, besides pneumonia, several cases of pronounced meningitis, had also occurred. In five cases the ataphylococcus aureus and albus, the staphylococcus pyogenes albus, citreus and aureus, either alone or together with the diplococcus, could be proved to be present. In one case, which proved fatal owing to cedema of the glottis, numerous diplococci had been found in the subcutaneous cellular tissne of the larynx. In no single case had the coccus pneumonize of Friedländer been found. Professor Bozzolo deduces from these facts the conclusion that the coccus pneumonix played no important part in the development of this disease, and that the epidemic mhich had been observed by him was to be looked upon as laving been produced by the diplococcus. He maintains that until the contrary has been proved, we are not justified in considering idiopatbic croupous pneumonia as being caused by different micro-organisms.

## THE DISCOVERY OF CONCEALED INSANITY.

In a recent number of the New Tork Medical Journal a rather startling and novel suggestion is made for the use of nitrous oxide for the detection of concealed insanity. Dr. A. M. Hamilton is the author of this suggestion. He points out that anæsthetics are often of great service in detecting shamming, and that as an extension of this, the use of some of these may he of service in unmasking symptoms which may be concealed from one cause or another. We shall not spend much time in discussing the moral side of the question, though it strikes us that there would be many in England who would object strongly to the production of this temporary loss of control only to see what was to be found in the lower stratum of mind. We are all familiar with the effects of alcohol, and we know how many friendships are cemented and how many are broken by the glimpses given into the hidden sorld of character by the effects of wine. Truth is revealed by thia we know, hut as a medical means of investigation we are behind our cousins in its use. Our author has been trying its :ffects for ten years; we, therefore, must not pass over his remarks without some consideration. Ile finds that, in some eases, nitrous oxide gives sleep where it is much wanted from emporary causes. We fancy that this gas is hardly likely to become dangerous in the way that chloroform has to the medical nan who cannot slecp, and so we welcome the suggestion as one nore means to produce what becomes daily more needed and laily more diflicult to obtain-sleep for the brain-disordered man cho must work or starve, and who cannot work without sleep. fe have tried all the known anesthetics in cases of insanity, and annot speak with any praise of the results. In melancholia the leep prodnced does no real good, and in mania we have not had ho least improvement following sleep so produced and kept up or hours together. Chloroform, amyl nitrite, aud even dnboisin ave been given with the idea of changing the current of thought ut in rain, save that with amyl we have secn some passive cases ecome hysterical, and with duboisin some cases of depression are become for a short time maniacal. Alcohol has saved many ves in acute insanity, hut we have not found that it assisted to le real understanding of any case; that is, that drink loosened he tongue and dispelled the delusion. It is a very plausible thing to by that certain delusions which are hidden und are really the round for the acts of certain patients can be discovered by neans
of nitrous oxide, but we fancy no medical man would be prepared to sign a certificate on the evidence obtained while a person was under its influence. We have also to assume a good deal when we say that the true nature of a person is revealed by the removal of the control, We might come to many atrange revelations not conducive to domestic happiness if this treatment were pursued for. Besides this, it seems that if there is any truth in the observation made by Dr. Savage on the effects of anæathetics in producing insanity, that occasionally harm might result in an unexpected way. Our author admits there ia a great possibility of "suggesting" ideas to the person as he passes into the stage of unconsciousuess: this should make us hesitate before making use of a weapon so dangerous and easily perverted. He says hypnotism is unreliahle and not always justifiable. We should be inclined to say the same of the use of nitrous oxide for the detection of concealed delusions.

THE TREATMENT OF SNAKE-BITE BY AMMONIA. Well authenticated cases of recovery from the bite of a cobra are sufficiently rare to lend special interest to a report published by Dr. Percy Rigby, in the Indian Medical Gazette. The patient, a Hindu, aged 30, was bitten, in the presence of a hospital assistant, by a young cobra two feet long, the wounds of both fangs being visible; four hours later he was bronght to the dispensary, unable to stand or raise his head, gasping for breath, with copious salivation and bronchorrhœa, and full soft pulse; the bite had been inflicted on the back of the hand, and the hand and forearm were much swollen. A solution of permanganate of potash ( 5 per cent.) was injected in the situation of the bite, the salt in powder was rubbed into the wound, and a dranglit containing liq. ammoniro mixu was given; the patient grew worse, and was geized with convulsions. The dranght was repeated in half an hour, but when two hours had passed, the patient appeared to be sinking fast ; an hypodermic injection of liq. ammouiæ $m x y$ with an equal quantity of water mas given, and repeated in half an hour: finally several convulsive seizures occurred, the respirations sank to 6 , and the patient seemed in articulo mortis; he was howerer given another draught containing ammonia, and in ten minutes began to rally, and in about three hours more was out of danger. The next day the temperature was $101.2^{\circ} \mathrm{F}$., and the arm was much swollen; no ulceration was produced by the hypodermic injections. A second case was mentioned in which the injection of strong ammonia and tight bandaging of the leg was effectual against the bite of Dabria Elegans.

## AMYLENE HYDRATE AS A HYPNOTIC.

Dr. Georg Avilies has made a number of new experiments in the clinic of Professor Riegel at Giessen with "amplene hydrate." The following is a summary of his results:-1. Amylene hydrate is a hypnotic, the effect of which is certain if it is given in sufficient doses. Control experiments hare shown that amylene hydrate has a less porrerful effect than chloral, and a more powerful one than paraldehyde. 2. Amylene hydrate had also an influence on people who were accustomed to the use of narcotics, these, however, required a larger dose ( 4 grammes). 3. Sleep came on very quickly without a stage of excitement. The intensity of the sleep varied according to the quantity of the dose, but the patients could always be easily aroused. When awakened, they at once became fully conscious, and, if undisturbed, they immediately fell aslcep again. 4. The sleep lasted, after very small doses, from two to three hours; after large doses (from 2.0 to 3.2 grammes) from six to eight hours. 5 . The awakening resembled that after natural slecp; the patients felt refreshed, and there was neither headache nor lassitude. 6. lespiration was not affected. 7. There was no clange in the pulse or the blood-pressure, except
the retardation of the pulse, which was also ohserved in the nonnal sleep." This was slotsm hy sphygmographic tracings of different patients made by Professar Riegel. 8. There was no bad taste in the month nor disagreeablu smell of the breath on awakening, such as was noticed after paraldehyde. 9. As to whether patients were liable to become habituated to tho drug nodecision "could yet be "arrived at. In no case had they been obliged to increase the dose, even aftur repeated use. Disagreeable ufter-effects of $a$ somowhat dangcrous character were obserred only in two cases; in threo cases it had no effect at all. The drug was tried in various internal diseases; the effect was particularly good in jaundice and icteric itching of the skin Chforal hydrate had been recommended by Eichhorst, but amylene hydrate would be better as it had no weakening influence on the heart. 'In all cases of disordered circulation, the amylene hydrate was preferable to chloral, as the latter considerably diminished the pressure in the vascular system. No counter indications could be found. In ecvere disorlers of the stomach it was to be administered by elysters, according to the following formula:-R Amylene hydrate, 3.0 grammes; aq. destill., gumm. nrab, $2 a$ 25,0; m. ft. clyster.

## SCOTLAND.

HONORARY DEGREES, ABERDEEN UNIVERSITY. Among the honorary degrees couferred hy' A berdeen University last week on those considered worthy of the honour was that of LL.D., which was conlerred upen Charles Douglas Fergusson Phillips, M.D., Imadon, who is a-graduate of Aberdeen University and a Fellow of the Roynl Colleges of l'hysicians and Surgeons.

LADY STUDENTS AT LEITH HOSPITAL.
Tn's lady students of medicine who are doing their clinical work in Leith llospital, are so well pleased with the trentment by the staff of the hospital, that at the annual meeting of the supporters of the institution, hed last week, Dr. Sophia Jex Blake, in moving the usual wote of thanks to the staff, also thanked them for thoir kindness and care bestowed upon the lady students in every' part of tho hospital.

## GLASGOW ROYAL INFIRMARY.

Dr. Newman's class of laryngology for students and practitioners has just been brought to a close after a most successful session. No less than 105 students joined, and maintained throughout a very good attendance. After the distribution of class lionours the students presented Dr. Newman with a pair of study Iamps, and his assistant, Dr. Dewar, with a case of surgical instruments.

THE POLLUTION OF THE CLYDE LOCHS.
Mn. A. E. Flfetcher, inspector under the Rivers' Pollution Act, has recently made a report to the Government on his cxamination of the waters of Loch (foil and loch Long in reference to their alleged pollution. The dredgings from the Glasgow, and Greenock harbours, and from the Clyde, are deposited at the entrance to Loch long to the extent of one and a quarter million tons per annum. Iesides this, loch Long recrives a weekly deposit of $1: 0$ tons of alkali waste from a chemical work, discharged directly into the loch, and indirectly the waters are polluted by the sewage from Glasgow discharged into the Clyde. Mr. Fletcher submitted specimens of the water and of the bottom of the lochs to analysis, and also of the floating scum. Mr. Fletcher finds that the complaints of pollution are well founded, and that the material yiehled by the alkali raste is poisonous to fish. While much of the pollution is of local origin, Mr. Fletcher thinks the
making of Loch Long a receptacle for the refuse of Glasgow and neighbourhood is a gross evil, which should now he stoped.

## PROPOSED FRIENDLY SOCIETIES' MEDICAL ASSOCIATION.

A Jount meeting of friendly societies was hold in Glasgow last week for the purpose of hearing roports from various representatives as to the feasibility of establishing among them a medical association for Glasgow and district. There were 150 delegates at the meeling, and they represented 13,500 members of various friendly societies. The reports submitted showed that 29 lodges, courts, and tents, with membership of 5,356 , were favourable to the establishment of such an association, while 42 were doubtful and desired more information. It was resolved to afford the desired information, and to hold another meeting for further consideration of the subject and arrangement to be held in, April.

## THE PHYSICAL CIRCUMSTANCES OF GLASGOW POOR.

In a recent public lecture on "The City in which we Live," Dr J. B. Russell, the medical officer of health, exhibited with great clearness the conditions inder which the poor of large towns such as Glasgow live. He succeeded in making statistics pathetic, and in forcibly bringing before the public mind the enormous hindrances to the preservation of health and purity of life which these conditions involve. Contrasting Glasgow with other large towns, he found only one-hiverpool-exceeding it in density of population, and only another approaching to it, namely, 'Manchester ; the density being for Glasgow, Liverpool, and Manchester, 84,106 , and 80 respectirely. White 84 was the average for the whole city, it rose to as' high a figure as 348 in some of the sanitary districts into which the city is divided, falling to 25 in others. Of Glasgow houses, 30 per cent. consisted of only one apartment, 4 of only two, 14 of three, and only per cent. were of five apartments and upwards: of the popalation, 25 per cent. lived in one-apartinent houses, 45 in two-apartment houses, 16 per cent: in three-apartment houses, 6 per cent. in houses of four apartments, and only 8 per cent. in houses of five apartments and upwards. In no other town in Scotland is so large a proportion of the population confined to one-apartment houses, and no other tomn in Scotland has so smalla proportion living in the larger houses. Onc of the worst features of the small houses was that 14 per cent. of them contained lodgers. It was these small houses that gare to the death-rate the striking characteristics of an enormous proportion of deaths in childhood, and of deaths from diseases of the lungs at all ages. In such districts the annual death-rate was 48 per 1,000. "Of all the children," Dr. Russell went on to say, "who died in Glasgow before they completed their fifth year, $32 \frac{1}{2}$ per cent. died in honses of one apartment and not 2 per cent. in houses of five apartments and upwards There they died, and their little bodies were laid on a table or on the dresser, 80 as to he somewhat out of the way of their brothers and sisters, who played, and slept, and ate in their ghastly cornpany." Dr. Russell concluded a very striking lacture by showing how much improvement had heen effected in Glasgow since 1861 , and how much might yet be done by providing-air spaces and play spaces, and means of recreation, culture, and instruction for the people.

Afmsinire Medical (idib,-Dr. Dobie, Ayr, has heen elected President of the Ayrshiro Merlical Club, in snccession to Dr. Beedie Robertson, Ardrossan, and Dr. Alexander Dundonald, vicepresident. Dr. Moore, Ayr. wis re-clected honorary secretary. The membership of the Cluh now amounts to 49. These aupointments were mark at a meeting held last week, at which about 30 members of the medical profession were present.

## IRELAND．

## THE MEDICAL COMMISSIONERSHIP OF THE LOCAL

 ，GOVERNMENT BOARD．As we go to press we learn by telegram from Dublin that Dr． Heary Fitzgibbon，Vice－President of the Royal College of Sur－ géons in Ireland，and brother of Lord Justice Fitzgibbon，las been appointed to this oflice in succession to the late Dr．Croker King． The＇salary is $£ 1,250$ a year．There were many candidates for the post．

THE COLLEGE OF PHYSICIANS AND THE APOTHECARIES＇HALL．
Tue proceedings at law between thése bodies having，as will be scen from the report published at page 55月，been so far unfavair－ able to the College of Physicians，the President and Fellows have had inder consideration the present position of affairs．They are not satisfied with the Vice－Chancellor＇s judgment，and the case will therefore come before another court on appeal．It is stated by some，moreover，that should the ultimate decision be hostile to the College of Physicians，that hody will retire from the alliance witl the College of Surgeons，and apply to the Medical Council for additional examiners，It is not quite certain，horrever，that the Council mould accede to this arrangement．There is aot any strong feeling in Ireland in farour of the Apothecaries，either mong physicians or surgeons．－It is probable that if a poll were taken in Dublin，the rast majority would be in farour of their xtinction as a body having any functiou outside the corupounding of medicines．But，whether it was right or wrong to recognise hem originally ns able to give a diploma to practise，is now beside the question．．They have been recognised；and they 1ave a reprosentative on the Medical Council．Many think that the mly solution of the difficulty is to absorb the Hall in a Conjoint 3oard，in which it would be allowed to take part in the pharma－ eutical portion of the examination．Such an arrangement has eech proposed，bnt has fallen through ；and it is not unlikely that t may again be brought forward．The solutiou of the difficulty pparentily lies in this direction．Meantime，the lawyers are the ；ainers，the＂little bill＂thus far amounting to something like 3800.

CORK MEDICAL PROTECTIVE ASSOCIATION．
IT a general meeting held some time since，Professor Stephen ＇Sullivan in the chair，and at which Drs．E．，h．Townsend，Power， fagner，Cooper，Golding，Fitzmaurice，Cremin，Jennings，A．M．D． Burkè，Catter，Donovan，Corby，II．R．Townsend，OConnor，jun．； Tily，Riordan，Twomey，Ryan，Hayes，t．Riordan，Guisani＇， diordan（Cloyne），Johnstone，Pearson，Crowley，Harvey，If，J． ummins，llobart，SamIforl，Evans，Moriarty，Crowley，Ryan， loynihan，Daly，and others were also present．The case of Dr： lagner＇s dismissal from his dispensary，under＇sealed order of the ocal Government Board，whis brought hefore the meeting．It as pointed out that，as a medieal man，Dr．Magner＇s punishment as：far in excess of that received ly others guilty of similar fiences，inasnuch as he not only suffered tho full legal penalty f imprisnnment，but was，in aildition，dismissed from lis post， nul，morcover，disqualified from ever again，under any cir－ umstances，obtaiuing any appointment under the Medical harities Act．The following resolutiou was proposed ad carried，and directed to be forwarded to the local overument Board．Resolved：＂That we，the members of the ountr and City of Cork Medical l＇rotective Association，although ffering，as many of us do，from Dr．Magner＂s political riews， rertheless are of opinion that he has been treated with oxcep－ oual severity in being deprived not only of his present position
and means of livelihood，but in addition andered inwligible for an appointment under the Medical Charities Act．We arrived at this conclusion from the fact that previous instructions had been issued by the Local Gorernincnt hoard（as in the case of civil servants and others）prohifiting medical officers of dispensaries from taking part in politics；and moreover Dr．Magner has been punished hy imprisonment for any offence committed by－him． Under these circumstances，we rould respectfully ask the Local Government Board to re－consider their decision，and withdraw the sealed order dismissing Dr．Magncr from the post as dispensary officer of the Courcies District，Kinsale Uniou．＂The following is the answer receired from the Local Government Loard，under date of February $\dot{2}$ th th ：－
Sir，－il am directed bs the Local Government Board for Ireland to acknowledge the receipt of your letter of the 10th instant，for－ warding a copy of the resolution passed by the Cork Medical l＇rotective Association at a general meeting held on the 7 thl instant，requesting the Board to withdraw the sealed＇order issued by them remoring Dr．Magner from his position as medical officer of the Courcies Dispensary District，Kinsale Lnion；ande，in reply， I am to state that the Board have given Dr．Magner＇s case very careful consideration，and are not prepared to withdraw the order removing him from the office in question．-I am，sir，your obedient servant，

Thomas A．Mooney，Secretary．
Honorary Secretary Cork Medical Protective Association．： A general meeting will be held on Saturday，March 10th，to con－ sider the correspondence．

Intertiospital Footbald Matches．－The final round of the （Rugby）Cup Tie，St．Thomas＇s r．St．Mary＇s，was played at the Richmond Athletic Association＇s Ground，on Wednesday，March 7th．St．Thomass，the farourites，kicked oft shortly after 3 oclock，with the wind in their favour．Toller secured a try，but Lambert failed at the place．After half－time St．Mary＇s played up with great determination，and had two free kicks about their own quarterway flag．The last was a failure，and soon after Senior secured a try，but the place again failed．Subsequently a touch in goal was obtained，and，soon after，time was called，leaving St．Thomas＇s rictors by two trics，one minor－tweuty－one peints－ to nil．St．Thomas＇s：Back，A．Gedge ；three－quarter，H．A．Julius， W．Senior，P．M．Toller；half，R．Hatherall，I＇Northcott ；forwards， II．J．Cooper，J．II．Dewhurst，T．A．M．Forde（captain），J．Harper， T．Lambert，C．Moxon，W．Milton，F．Pitts Tucker，G．Stillwell． St．Mary＇s：Back，W．T．Daniel；three－quarter，A．N．Ilarrison，F P．Hill（captain），C．A．Balderson；half，S．B．Williams，A．B． Franey；formards，F．Lewis，G．T．K．Maurice，F．C．Martiey，J．A． Aikinson，C．F．Warrea，J．O．Sumnerhays，II．Legge－Willis，JI，F． Ealand，C．D．Leyden．The final round of the Interhospital （Association）Cup，St．Bartholomew＇s i．Guy＇s（Holders），was played at Upton on March 1st．The holders managed to secure the cup for the third successive year．The game was well contested； the winners only managed to score one goal．

Cocaine as an aid to Diagnosis ho Laryngeat Disease．－ Dr．Bammarten not long ago called attention in the Wiener Medicinische Hochenschrift to the value of cocaine in enabling true thickening of the rocal cords to be distinguished from the swelling of simple catarrhal inflammation．Eren the most expe－ rienced laryngoscopists often flud it rery difficult to come to a definite conclusion on this point．If Dr．Baumgarten is risht， however，nothing is more casy，is cocaine causes spasm of the capillarics，local depletion．with more or less transient blanching of the mucous surface，will follow its application to cords that are thmid and red from congestion．No such effect，on the other hand，will be produced when the substance of the cord is infil－ trated with tubercular，syphilitic，or carcinomatous material When，therefore，brushing with a 10 per cent．solution of cocaine fails to make the redness disappear，it may be taken is a proof that one has to deal with a serious disease．

## UNIVERSITY OF LONDON.

A merting of Convacation was held at the University Buildings on March Gth. It was announced that Mr. Anstic had received 4 ife votes, Mr. Busk 367, and Mr. Nesbitt 35 votes. Mr. Anstie will, therefore, probably be nominated by the Crown to the vacancy in the Seuate.
Dr. S. P'. Thomson proposed that Convocation should invite the Senate to grant ad cundem degrees to graduates of other universities who hold prolessorships in University and King's Colleges, thus enabling Convocation to admit them to its membership. The proposition was rejected by a large majority.
Dr. M. Barses moved the following resolution:
"That Convocation disapprores the course pursued by the Senate with reference to a petition to the Crown of the Roynl College of I'hysicians of London and the Royal College of Surgeons of England for a charter enabling them to confer degrees in medicine.
He narrated the history of the action of the Senate in connection with the two Colleges, and considered their action in the matter inconsistent. He read the minutes of the Senate, in which they resolved (by a majority of one) not to oppose the scheme on three conditions, namely: 1. That the degree proposed should not be confounded with the London University degree. 2. That the preliminary education of those who received the degree should not be inferior to that required of those who receive university degrees. 3. That the proposal to confer degrees on those already passed be not approved. The College of Surgeons had given up its Arts examination, and had delegated all such requirements to the Society of Apothecaries and the College of Preceptors; that showed how little that body cared for polite culture. The governing body would be elected from the two Councils, and would be self-elective, so that they would be masters of the entire situation. The teachers could never advise or direct the Senate, excepi such as might by chance be on that body, the bulk of the teachers being completely shut out. Hence, in want of any external influence, all regulations would be framed and all action taken in the interests of the Colleges themselves, and not for the good of the profession. This was the case with the College of Surgeons, whose present action in obtaining a new charter was sufticient evidence of what might be expected if any such power were giren to the corporations named. A one-sided faculty was objectionable and unprecedented, and tended to the depreciation of a degree which should represent culture and learning. To separate medicine in this way from arts and kindred sciences would be prejudicial to all kinds of liberal edneation. The absence of representation of the proposed graduntes was condemned. A great hot on the scheme was the fact that it was proposed to give Colleges: and so those bodies, without any' reason, usurped the position of a university, which was preposterous. Other London students, who did not enter the two Colleges, were excluded
Mr. B. Whimeineat, L.A., seconded the resolution, and enlarged upon the impolitic action of the Senate.
Mr. T. B. Napier, LL.D., wished the proposal to be modified, so that it might read thus:-"That Convocation desires respeetfully to express regret that the Senate has not seen fit to take action ngainst the petition to the Crown of the Royal College of Physicians and the Royal College of Surgeons for a charter enalling them to confer degrees in medicine." He said this was not a medieal question alone. The scheme, if adopted, would inaugurate quite a novel method of granting degrees, namely, by professional bodies alone.

Mr. 31. F. OReilly, D.Sc., scconiled the amondment, which Dr. Baines accepted, so that the amendment became the substantive motion.
Mr. Osp.fn liefended the nction of the majority in the Senate and said that the following arguments had weighed with him when he had given his rote in the Senate: 1. That there was a eertain practical grievance, in the fact that there was no aceessible degree in Lonelon for the bulk of London students. The picked men of the schools would still come to the University of London. 2. The two Colleges he was assured would give a good
degree. Jow far it would involve gencral culture was perhaps uncertain; but he doubted whether any universities required general culture for the degrees of other faculties than that of arts.

Dr. W. J. Colcress said that so far as the Members of the Royal College of Surgeons had been consulted, they were adverse to the scheme.

Dr. Sidney Coupland said that the scheme did not originate with either of the Colleges, but was pressed upon them from without by other medical bodies. The degrees of the University of London were too severe for the usual run of students, who now went to Scotland and elsewhere in large numbers. At Edinburgh English students outnumbered those of all other nationalities.

Dr. P. II. Pye-Smith said that the degree of M.D. did not represent academic culture or any other attainment than that of merely professional education. The Licentiates of the College of Physicians and Members of the College of Surgeons who were now passing were generally as highly cultured as the men who held the BI.D. of many miversities other than that of London. The resolution was carried by a large majority.

After disposing of some other bnsiness, the House adjourned.
ROYAL COLLEGE OF SURGEONS OF ENGLAND. AN ordinary meeting of the Council was held on Thursday, March 8 th, 1888 .
The minutes of Orlinary Council on the 9 th ultimo werc confirmed.
A unanimous resolution of condolence with the family of the Inte Mr. T. B. Curling, past President, past member of the Council, and Court of Examiners, was passed.
The seventh report, dated March 2nd, I888, on the extension of the College premises was approved, adopted, and entered on the minutes. This report read as follows :-" The Committee recommend to the Council that, in addition to the works in connection With the extension of the College premises already sanctioned by the Conncil, a further sum of $569^{2} \mathrm{I} 1 \mathrm{~s}$. be expended in building, in accordance with the plan submitted by Mr. Salter, a corridor with the new behtion of the Library and stairease communicating with the new portion of the Library and the proposed corridor, in
lieu of the iron staircase already sanctioned by the Council, and in providing a hot-water supply for the ined The Conncil approved of the proposed conditions relating to the uses to which the new workrooms at the College may be devoted, as proposed by the Mnseum Committee.
The Finance Committee was then elected. It consisted of the President, Vice-President, Chairman of the Museum, Library and General Purposes Committees, and Messrs. B. ILill, Sibley, and Willett.
The Council roted a sum of $£ 50$ towards the expense of building amission church in the Seven Dials.
A letter of February 16th from the legal adviser of the College was read, stating that the authorities at Somerset House have docided that the College diplomas are not liable to stamp duty.

A letter of February 13th from the Clerk to the liriry Council was read, forwarding, by direction of the Lord Iresident, for the information of the College, a copy of a letter from the French Ambassador at this Court, announcing that a Congress of Surgeons will take place at Paris from the 12th to the 17th of March next. by direction of the Lord President of the Council to be laid before the Council of the College, a copy of a "rejoinder" which the Committee of the Associntion of Fellows have forwarded to his Lordship.

The Council resolved that a reply to the letter be sent, to the effect that the Council request his lordship to grant them an intervew for the purpose of giving him any further information he
Mr. Wrllett's motion that a committee be appointed to conside and report to the Council on the form of the Report of the Council to the annual meeting of the Fellows and Members, was seconded by Mr. Cathee, and curried. Messrs. Marshall, Cadge, and Willent were appointed to form that eommittee.

Mr. Sibley's motion, that in view of the appointment ly the Council of a professional auditor to annuully audit the accounts of the Colleae, a committer of auditors is no longer necessary, and that Section 21 of the standing liules he accordingly abrogated and anmulled, was seconded hy Mr. T. Smith, and carried nem. con.

## ASSOCIATION INTELLICENCE,

## NOTICE OF QUARTERLY MEETINGS FOR 1888

Meetings of the Council will be held on Apri! 18th, July 18th, and October 17 th, 1888 . Candidates for election by the Council of the Association must send in their forms of application to the General Sceretary not Jater than twenty-one days before each meeting, namely, March 28th, June 27 th , September 20 th , and December 28th, 1888.

## ELECTION OF MEMBERS.

Avy qualified medical practitioner, not disqualified by any by-lam of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.
Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be eleeted by a Branch Council unless his name has beeninserted in the circular summoning the meeting at which he seeks election.

Francis Fowee, General Secretary.
COLLECTIVE INVESTIGATION OF DISEASE.
The Report upon the Connection of Disfase with Habits of Intemperance, which was presented to the Section of Medieine in the Annual Meeting of 1887 , and a further portion of the Report upon Old AGe have been completed, and will shortly be published in the Journal.

Reports npon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribetion of certain Dtseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etrology of i'hthisis.

A fresh inquiry into the Originand Mode of Propagation of Epidemics of Diphtheria has been issued.
Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collective Investigation Committee, 429, Strand, W.C.

## bravcif meetings to be held.

South- Eastern Braych: East and Wfest Sussex Districts.- A conjoint meeting of the above districts will be held at the Grand Hetel. Brigbton, on Thursday, March 22 nd. F.W. Salzmann, M.R.C.S., will preside. Meeting at 3.30 P.M. : dinner at 5.30 P.M. ; charge $6 s_{1}$, exclusire of wine. The followiag eommunications are promised: Dr. Starling: A case of Fibroid luduration of the Stomach (with specimens). Mr. Howard Marsh: Recovery after Laparotomy for Intestinal Obstruction; with Lemarks. Dr. Mackey will show. Cases of Lupus Erythematosus, etc. Gentlemen desirous of contributing shert papers or eases, should write at once te the umiersigned or to Dr. Gostling. West Writhing,-T. Jenner Verrall, Hooerary Secretary, 97, Montpellier Road,
Brighton.

Smropshtrfa dim Mid-Walfg Braneit. -The next meeting of the Rranely will be beld at the Salop Intirmary, en Tuesday. March $27 t h$, at 3 pr.m. Mr. W. Enldowes in the chair. Gentlemen wishing to exhibit or read notes of cases, or to bring forward subjects for discussion, are requested to comanunicate with the honorary secretary, EDWAmD Cumb:Tux, Shrewsbury:

Norta Walfs Braxch.-The intermediate meeting of this Branch will be held at Colwrn Bay on Tuesday, March 20th, at 2 p.M. Members who wish to read papers, ete., or nominate candidates for membership, are requested to communicate at ouce with W. Jonts-Morms, Honority Secretary, Portnadoc.

Fast Ancliay Branch: Essex District.-The next meeting will be held at the Sarasen's Meal Hotel, Dunmore, nu Friday, March 23 rd , lesta at $2.30 \mathrm{p} . \mathrm{M}$. R. B. Marrott, Kisq., Swafthan, l'resident of the Branch, in the chair. Notices of papers, etc., slould be sent as sood as possible to C. E. Ibiott, Braintree, Ifonorary Secretary.

Mmropolitas Countifs Branct: Fast London and Soctit Essex DisTrict. -The next macetiag will be held in the Hack oey Town Hall. on Thursday, March 15th, at 8.30 r.a. A paper will be read by A.J. Pepper, Nisq., on Medical Evidence in Courts of Law. Fisitors will be welconed.-J. W. Jluxt, Ilonorary Secretary, 101, Queen's Road, Dalston.

Southery Bravoif: Soleth Wilits District.-The next mecting of this Brandi will be leld at the Bath Armis, Warminster. On Wednesiay. Mirch 2?s", at 4 oclock. Dinner at $60^{\circ}$ clock. Tickets $5 s$., not to incluide wine. Memleis intending to be present, to communicste with the honorary secretary, H. J. Manmivg, Laverstuck, near Salisbury.

Solft-Eastern Brance: East Kent District.-The next meeting of the above District will he held at the Cottage IIospital, Ashford, on Thursday, March 15th, at 3 F.M. Dr. Wilks in the chair. The Preatiment kindly lovites members to luncheoo, bezweeu 1 anll 2.30, at his house, 22, North Sirect. The members to luncheoo, bezwecu 1 ant 2.30, at his house, 22 , North Strect. The
dinner will take place at 5 P.M., at the Saracen's Head, price 63 . (exclusive of dinner will take place at 5 P.M., at the Saracen's Head, price 63. (exclusive of
wine). All members of the Sonth Eastero Branch are entitled to attend these wine). All members of the solesional friends. N.B. Atl gentlemen purposing to dine are particularly requested to inform the chairman by Tuesday the $13 t h$, that proper arrangements may be made.-W. J. Tiso., Honorary District Secretary, 10, Langherne Gardens, Folkestoue.

## CEYLON BRLNCH.

The inauguration of the Ceylon Branch took place on December 17 th, 1887 , when a large and representative gathering of the members of the profession met in the Hall of the Colonial Medical Library. The following gentlemen were present: W. R. Kynsey, F.K.Q.C.P., Colombo; S. Areher, M.D., Brigade-Surgeon, Medical Staff, Colombo; J. L. Vanderstraaten, M.D., M.R.C.1'.L., Colombo ; W. G. Van Dort, M.D., C,M., Colombo; J. Looz, M.D., M.R.C.P.E., Kandy; The Hon. P. D. Anthonisz, M.D., F.R.C.S.E., Colombo: W. Dias, M.D., M.R.C.S.E., Galle; C. W. YanGeyzel, M.B., C.M., Coloubo; H. Thornhill, M.B., Kandy; W. G. Rockwood, M.D., M.R.C.S.E., Colombo; J. Attygalle, M.D., M.R.C.S.E., Colombo: T. F. Garrin, M.B., C.M., Colombo; J. D. MacDonald, M.D., Colombo; S. Fernando, M.B., C.M., Colombr) HI. L. Keegel, L.R.C.P.E., Colombo: M. Eleyatamby, I.R.C.S.E., Colombo; II. IIuybertsz, L.R.C.P. aud S.E., halatura; E. N. Schokman, L.C.M.C., Colombo: S. de 31. Asserappa, M.D., Colombo.

Specimens.-The ILall of the Library was tastefully arranged, a number of side tables laring been set apart for specimens of considerable interest. Table I contained a large and varied collection of Plaster-of-Paris Casts executed by a local artist under the direction of the late Dr. loch. The specimens included the following: Casts of Talipes, of Potts's Fracture, of Stumps after Pirogoff's, Syme's, and Chopart's Operations; Subglenoid Dislocation of the Humerus, Fructures at the Wrist, Fractures of the Clavicle, of Cases of Elephantiasis Grecorum, Bronchocele, and various otleer conditions.-Table JI contained Eight Ovarian Tumours from casis operated upon by the IIon. Dr. Anthonisz, Dr. Rockwood, of Colombo, Dr. Schokman, of Galle, and the late Dr. Koch.-Table III contained a large collection of Urinary and Biliary Calculi, Concretions round Foreign Bodies, and Salivary Calculi presented to the De Soyza Museum hy Drs. Koch, Rockwood, Anthonisz, Vandersmagt, Garrin, and others.-On Table IV Dr. MacDonald exlibited microscopic slides showing the Bacilli of Splenic Fever, Cholera, Lepra, Erysipelas, Tubercle, Typhoid Fever, Pyæmia, Gonorrhea, and Actinomycosis, the Streptococeus of l'us, the Ova of the Round Worm, and the Cocci of Pnetumonia. Several Yery good specimens of the Ora of the Anchylostoma Duodenale in different stages of develojment vere shown taken from the fxces of patients at present under treatment from ancliylostomiasis in the General Hospital at Colombo. The Embryo of the Worm was also shown.-On Table V Mr. Brito exhibited a collection of microscopic slides, showing Epithelioma, Fibroid Tumour, Lupus, Inchylostoma Duodemale (female and male), Parasites in beef, Tricocephalus Dispar, besides preparations of various normal tissues.-Table VI contaiued a collection of Entozoa in spirits very neatly mounted for examination by Mr. Brito: 1, Oxyurus Termicularis; 2, Amphistoma Fxplanatum (Buffalo?); 3, Tania Solium (Iluman); 4, Tricocephalus Dispar (1luman); 5., Lumbricoites (IIuman); 6, Tricocephalus (IIorse); 7, Anchylostoma Duodenale.Mr. Brito also exhibited well-executed Dissections of the Iluman Brain hardened in spirits.-On Table VII Dr. HacDoxald exlibited a set of Esbach's Albuminometers, and a Portable Spirometer which attracted much attention.-Table VIIl had the following preparations, exhibited by Mr. Brito: 1. Jluman Foetus and Membranes, about three or four weeks old; 2 , L'terus and its Appendages, Fatal Membranes and Cotyledonary Placenta; 3, Encephaloid Cancer of the liver; 4 , Ileart of Frog showing Aortic Arches: 5, Blood-clot expelled Ten Days after larturition (case of Puerperal Septicamia); 6, Kidnevs, Bladder, and Ureters of a Manright kidney hypertrophied, left containing a calenlns of the size of a small lemon; right pelis and ureter distended; bladder car-cinomatous.-The Museum of the Ceylon Dledical College was also thrown open to the members.
Prelininary Proceedings.- At 12.30 P.M., in pursuance of notice, Dr. Loos noved that Mr. Kynsey, P.C.I.O., do take the chair. Brigade-Surgeon Dr. Ancusir seconded the motion.-Mr. Krwser, laving taken the chair, addressed the meeting and expressed his satisfaction at seeing such a representative gatheriug assembled to imaugurate the Ceylon Brancla of the British Medical Associa-
tion. The frst thing to do would be to complete the constitution of tho Council by electing threo members not resident in Colombo to the vacant seats in the Council.-Dr. Atrvadied proposed, and Dr. Asseriarpa seconded: That Mr. Kenny, M.B., C.M., IIation; Surgeon Wallis, M.K.C.S., Arnyy Medical Staff, of Galle; and Dr. James Loos, of handy, be elected members of Conncil under Section d, By-law 4. Carried unamonsly. From the Council thus constitutel the election of the oflice-bearers for the year IS88 took place.

Election of I'resident.-Brigale-Surgeon Dr. Archer then proposed, that from the Council thus coustituted, the meeting do elect MIr. W. R. Kynsey to he tho first I'resident of the Ceylon Branch.-Dr. Vandort having seconded the motion, Mr. KYnsey thanked the meeting for this expression of its confidence. He folt that his nppronching departure Irom the island on leave would interfere with the proper discharge of those duties which would devolve upon him ns President in the organisation and working of the Brauch at its first start. He felt sure that the meeting would cordially join him in the nomination of the gentleman whose name he would submit to them in his stead, a gentleman whose reputation in the medical profession had been estab-- lished both here and in Great Rritain, and who was his oldest friend in the island. He begged to propose the Hon. Dr. P. D. Anthonisz as the first President of the Ceylon Branch.-Mr. VanGerzel seconded. The Hon. Dr. P. D. Anthonisz was declared duly elected President of the Ceylon Braneh. Mr. Kinser then vacated the chair to the President, who returned thanks for his election. He felt that by reason of his years his term of usefulness in the profession mould necessarily be limited, but under the circumstances of the case he gladly accepted the responsibility of occupying the chair he had just assumed, and which be trusted Mr. Kynsey would, on a future occasion, occupy.

Officers.-On the proposal of Mr. Krnsey, seconded by Dr. Vas derstrataten, Brigade-Surgeon Dr. Archer, M.S., and Dr. W. G. VanDort were unanimously elected Vice-Presidents of the Branch. - Mr. Thornhill proposed, and Dr. MacDonalo seconded, the election of Mr. Jenry heegel as Monorary Secretary of the Fraveh. Cartierl unanimonsly:-Mr. Vangefzel proposed the election of Dr. Vamlerstraaten as IIonorary Treasurer. Mr. Huybertsz seconded the motion, which was carried unanimously.

Representative on the Council of Association.- On the proposal of the President, seconded by Mr. Thornhile, Mr. Kynsey was nominated Representative from the Ceylon Branch to the Council of the parent Association.-Mr. Kixsey, in returning thanks, hoped that during his stay in Europe, he would be able personally, if necessary, to further the interests of the Branch there.

Neno Members.-The Honomary Secretamy then proposed the election of the following gentlemen. Dr. YanDont seconding ench proposal. To the Parent Branch.-W. Dias, M, M., St. And., M.R.C.S.Eng., L.S.A.; S. de M. Asserappa, M.D.Edin.; A. Kell, L.C.M.C. ; M. Candyah, L.C.M.C. To the Local Branch.-W. Dias. M.D.St.And., M.R.C.S.Eng., L.S.A. : S. de 3l. Asserappa, M.D.Edin. A. Nell, L.C.M.C. ; M. Candynh, L.C.M.C.; S. B. Perera, L.C.M.C.

Tote of Thanks.-Dr. MacDonalo proposed, and Dr, Asserappa seconded, that a vote of thanks be accorded to the Chair. resolution was carried unanimously, and the meeting ended.

Lunchem.-A11 the members of the Association who were present at the meeting, and Surgeon-Major Stokes, M:S., Surgeon Birch, Mr. Spence, Mr. Cochran, Lecturer on Chemistry, and Mr. Meier, the medical superintendent of the Leper Asylum, assembled at 1.30 p.an., by the incitation of the Principal Civil Medical Officer, at Guyscliff, where they were entertained at luncheon. The only tonsts were the "Ilealth of Mr. Kynses"," which was proposed by Dr. Lons, and drunk with acelamation and hearty wishes of a pleasant voyage and gafe return; and the ${ }^{-1}$ 1fealth of the first J'resident of the Ceylon Branch of the British Medieal Assnciation," proposed by Mr. Kiyssey, to which the Hon. Dr. Antironisz rejlied.

## GLOLCESTERSHIRE BRANCH.

As ordinary meeting was held on Tuesday, Fehrmary 21st, 1888, at 7.31 P.M., at the Gloucester Infirmary, under the presidency of Dr. Cerrif.

Supperation of Jitremus-Mr. Bower showed a patient suffering from suppmration of the vitreons limmonr of the eye due to the presence of a steel chip. He had fuilen to see the fragment by the ouhthalmoscone, and also to remove it by the electro-magnet. He pontel out the total absence of injury to the lens and cornea, or of inflammation.

Homoopathy.-Dr. Comare opened a discussion on the present position of Homeopathy in relation to regular Medicine, in which he propounded the guestion whether the hand of brotherhoot should not be held out to the homeepathe, and conchaded that it should. - Dr. Dond answered in the negative.-Mr. Wadir urgel that all distinctions should be (Iropped.-Dr. Nefoniam argued that no conciliation could be effected until the distinctire name be dropped. -Dr. Batten spoke strongly, in farour of Dr. Currie's proposition. - Mr. ElLIs said there was much to learn from the homeopaths.Dr. Souter said that, considering the great changes of opinion with regard to therapeutics, there was no reason for ostracising homoopaths.-Dr. Clanke and Messrs. Bower, Cuthbert, and Cardew also toak part, and Dr. Curnie replicd. The meeting closed at 10 P.3.

The result of this mecting was most important, showing the great. feeling in farour of admitting homoopaths to equal fellowship, and, as far as the county of Gloucester is concerned, haring settled the question as to the right of holding consultations with them.

## BORDER COUNTIES BRANCII.

A meeting was held at the Connty Ilotel, Carlisle, on Friday, February $2-4 t h, 1888$. The chair was taken by Dr. McLeon, Hawick, President, at 6 P.M. Twenty-four members and five risitors were present.
Nero Members.-The following were elected members of the Branch: William Blair, M.D.Glasg., Jedburgh; William Henry St. Leger Carter, L.R.C.P.and S.Ed., Conishead Priory; Donald Macgregor, M.D.Ed., Denholm, Mawick; Charles John Tiffen, M.D.Ed., Wigton.

Process of Compensation.-Dr. Brfom Bramwell, of Eidinburgh, read a paper on the process of compensation and its bearing on prognosis and treatment, which was illustrated with specimens and drawings.-In the disenssion which followed, the President and Drs. J. Anson, Haddon, Barnes, Maclaren, Green, Macbougale, Lockie, Althay, and Casmbell took part.-Dr. Bramwell replied.

Tote of Thanks.-A vote of thanks was accorded to Dr. Bramwell, on the motion of Dr. Hatnon.
Hypertrophy of Breasts.-Dr. 11 uir , Selkirk, read notes of a case operapertrophy of the mammx, and showed photographs.
Operation for Rectal Hrmorrhage.-Dr. Althas (Penrith) read
notes of a case. A woman, aged 34 , had hat bleeding from bowel for fourteen vears, with much sufferin leeding from the ordinary causes of homorrhage were found the As none of the ordinary causes of hæmorrbage were fonnd, the redundant skin round the anus was cut away, with the object of leaving a concompletely sucee to gramulate and contract. The operation was

Case of Merniotomy with Omental Cysts.-Dr. Altiram read notes of a case in which a woman, aged 70, was operated on for strangulated hernia. On cutting down it was found that what seemed like a knuckle of strangulated bowel was really a cyst in the omentum, which had been bruised during taxis. After making sure that no portion of bowel was contained in this sac, the omentum was ligatured and cut off. The patient did well, but it would no doubt be better in such cases to open the cysts and explore the cavity with the finger, so as to make sure that nonc of the bowel was included.

Intracranial IIamorrrhage in a Boy.-Mr. T. P. Derlin (Carliste) read notes of a case of ccrebral hemorrhage in a boy aged 11, who till three hours hefore his death had enjoyed gool health. Postmortem examination did not reveal disease in pither thoracic or alulominal organs; but there was a large cavity filled with recent clot situated in the right hemisphere of the brain.

Supper.-Twenty-one gentlemen sat down to supper.
Neat Wecting. -The next meeting of the Branch will be held in spring, at Cockermouth.

THF Duke of 13 edford, as Lord-Lieutenant of the County, and the Lord Bishop of the diocese lare locome patrons of the IIntingdon County IIospital, and the Earl of Sandwich has been elected I'resident, vice Baron de Ramsey, deceased.
Johnstone Combination llospital. - The Combination Ilospital, which has been built at Johnstone to meet the requirements of five parishes, at the cost of $£ 2,200$, has been inspected by a Government officer, and pronounced thoroughly satisfactory, and is to be opened at the end of the nonth.

# SPECIAL CORRESPONDENCE 

## PARIS.

[from our own correspondent.]
Cold Bathing in Typhmid.-Leat Poisoniny.-Ihotoryline as a Surgical Dressing.-Toric Effects of Antapyrin.-Carbolic Acid in Pulmonary Phthisis.-Effects of Boric -Acid.
M. Juhel-Revor recently read a paper before the Société Médicale des llôpitaux on cold bathing in typhoid. He had treated forty-three cascs in this way, with only three deaths. Sixty-five baths were given in each case. The nature of the disense was established beyond a loubt in every instance. M. Juhel-Rénoy considers that cold baths prevent hæmorrhage, pulmonary complications and syucope, modify the diarrhcea, and clear the urine, which is secreted in great abundance. lmong his patients there were pregnant women, hysterical, alcoholic, and tuberculous patients. In cases of perforation of the intestine and peritonitis, cold bathing should never be employed. M. Dujardiu-Beaumetz remarked that M. Quinquand had proved that cold baths increase organic combustion, and consequently the production of heat. He admitted that cold baths may act as a tonic, but the same result was obtained with tepid baths, which were not so dangerous. The increased arterial tension produced by cold baths might cause sudden death in cases of cardiac rreakness.

At the meeting of the Surgical Society on February 9th, M. Duguet described a case of lead poisoning. The patient, a moman aged 38 , was employed in a factory where coloured cardboard hoxes are made by machinery. Iler business was to gum small bands of paper 0.15 centimetre long on these boxes, which were intended to hold reols of cotton. These paper bands are coloured red and orange on one side, being grey on the other side, which is covered with gum. In taking up these bands, which are packed in layers, the patient was obliged to wet her finger with her tongue each time, and slip off each band, of which the red and orange side is placed uppermost, with her finger. The grey side of the band had then to be licked, and the band gummed on the hox. The patient had frequently gummed as many as 5,000 of these bands in one day. She stated that her companions (eight or ten) who did the same work, all became pale and thin, and suffered from colic. Those who were employed in pasting on blue-coloured bands of paper were not affected with any morbid symptoms. The red and orange bands of paper were analysed by JI. Gur. The residue of the paper, when burnt, gare all the reactions of salts of lead. Each band contained about 12 milligrammes of metallic lead. This form of lead poisoning has not been described before. M. Monod suggested that the case should be reported to the Prefet de I'olice.
MI. ron Wahl has lately tried substituting photoryline, which is used in photography, for collodion in surgical operations. He employs a $\overline{5}$ per cent. solution mixed with equal portions of alcohol and etlier. IIis experiments showed that photoxyline has the following adrantages: It adheres more closely to the skin than collodion; it is absolutely impermeable, and is not deteriorated by washing or by prolonged contact with other fluids; it exercises a umiform compression on the tissues. It can, therefore, be strongly recommended in the case of slight surgical operations, when the patient is not obliged to lie up and a roluminous antiseptic dressing is most inconrenieut ; as in plastic operations on the face, and in those performed in the region of the geuital organs in male patients (radical operations for hernia, liydrocele, castration, etc.). In these cases a thin layer of cotton-wool, free from all greasy principles and saturated with photoxyline, is applied to the wound and fixed by means of sutures and court plaster after bleeding has stopped. This layer will resist the dissolving action of any foreign fluids for eight or ten days. The uniform pressure it exercises renders drainage superfluous. In the case of children, where it is almost impossible to prevent the contact of the uressings with the urine, photoryline will be found especially raluable. In laparotomy this form of dressing will suffice by itself, and will protect the abdominal wound in the most eflicient mamer.

At a recent meeting of the Académie de Médecine Dr. Ball read a paper by Dr. Oscar Jennings on a case of poisoning by antipyrin. The patient suffered from nodular rheumatism, for which 2.50 grammes of antipyrin were given daily for a week. On the eighth day erythematous spota were observed on the arms, and
the patient had an uncomfortable sensation in the eyes. On the following day the face was red, the eyelids swollen. The day after a rasli came out all over the body; there was catarrhal conjunctivitis, loss of appetite, and a sensation of internal cold. The pulse was 78 . There was singing in the ears. The patient was very weak. I few drops of tincture of belladonna caused these symptoms rapidly to disappear. Dr. Jennings considers that antipyrin should be given with great caution to old people and persons of an impressionable temperament. The symptoms of poisoning can, however, be easily subdued by administering a few drops of tincture of belladonna, or by subcutaneous injections of atropine. M. Germain Sée observed that he had met with many similar cases. The symptoms of poisoning which he had observed were usually due to doses of three or four grammes of antipyrin, giren for several consecutive days. Such symptoms were most commonly met with in female patients. Intipyrin should never be given a second time to patients in Whom they had been obserred. In such cases antifebrin (acetanilide) should be substituted for antipyrin. M. See strongly condemned the practice of giving belladonna or injections of atropine to combat the symptoms of poisoning, which will spontaneously disappear in from twent $5^{-}$ four to forty-eight hours if the drug is discontinued, and which cannot be regarded as of a serious nature. JI. Dujardin-Beanmetz, who shares this opinion, remarked that, after a prolonged use, antipyrin caused pain in the stomach and dyspeptic symptoms. The adulteration of antipyrin with benzine or other substances was possibly the cause of these symptoms, which had been more frequently observed of late. M. Dujardin-Beaumetz further remarked that subcutaneous injections of antipyrin were painful. Acetanilide caused cyanosis in certain cases. I dose of two grammes a day should never be exceeded. M. Germain Sée had observed the gastric symptoms described by M. DujardinBeaumetz, and believed them to be due to the manner in which the antipyrin rias prepared. In order to prerent these symptoms, 31. Sée employed carbonate of soda or seltzer water. For subcutaneous injections he gave one gramme in four injections. In this way the injections were not painful. M. Ollivier stated that he did not share the belief held by many authors concerning the good effects of antipyrin. He had employed it in the treatment of chorea, and found that, although it modified the affection in certain cases, in others it did no good.
M. Dujardin-Beaumetz, in a lecture which he recently delivered on carbolic acid in the treatment of phthisis, expressed himself to the following effect: "The absorption of the acid by the airpassages being out of the question, the only means of administering it is by hypodermic injections and by the alimentary canal (stomach or rectum). As the digestire organs of phthisical patients are usually out of order, any irritation of the stomach should be aroided in their case. The skin and the rectum are therefore the only means by which the acid can be safely introduced. In has been used by many medical men in cases of pulmonary tuberculosis. The injection may be hypodermic or into the deeper parts: by this means the antiseptic liquid may be conveyed to the very spot in which the lesion exists. l'rofessor Lépine and his pupil Truc tried intra-pulmonary injections of a ${ }^{-2}$ per cent. alcoholic solution of creasote in tuberculosis. A weak solution morphine had been previously injected to prevent paiu. Theso authors recommended iodoform, with which excellent results were obtained in the treatment of tuberculous abscess. For the carbolic acid injections a syringe large enough to hold 5 grammes of the liquid should be employed. A 2 per cent. solution of carbolic acid, perfectly pure, and previously dissolved in glycerine (alcohol is irritating) should be used. The spots at which the injections are made should be chosen iu the antcrior portion of the chest, belor the clavicle. The number of punctures to bo made must be determined by the special character of the affection. but an excessire number may cause symptoms of carbolic acid poisoning. Uinder this treatment it will be found that in a large proportion of cases the appetite returns; the patients can leave their beds and walk out: the conghing and expectoration are diminished, and the night sweats frequently cease.
At a recent meeting of the Sociéte Médicale des Hôpitaur, M. Gaucher described the results of his experiments with boric acid, administered internally. He has discovered that, in doses which produce the required effects, this snbstance is not toxic. When applied to the bare skin only it is not canstic, and only a slight amount of absorption takes places; for this reason it is of great service in skin diseases.. In infectious and contagious impetigo it
has the same effect as oil of cade, without its drawhacks. M. Gancher used it successfully in a ense of eutancous tuberculosis. He raised the question whether there may not be some analogy hetween this affection and mpetgo made
Grancher, oni the other hand, stated that he had mat numerons inoculations with the virus of impetigo, but in only one case had he produced tuberculosis. He believed that the micro-organism of impetigo and that of tuberculosis were quite distinet. 3l. Gaucher administered internally from 50 centigrammes to 1 gramme of boric acid to a series of consumptive patients with the following results:-The general condition improved, the loeal condition remained stationary. The acid was eliminated by the urine in the form of boric ether. He considers that internal doses of boric aeid might be substituted with advantage for injections of this substance in the treatment of eystitis. He gave one gramme of the acid daily to several aged patients with hypertroply of the prostate, accompanied by cystitis; the urine, which was thick and contained muco-pus, quickly beeame clear Boric acid is not astringent like borate of sodium, which is used by some surgcons.

## SAN REMO.

[From our ofn correspondent.]
By the time this letter reaches you I trust some of the tension on the publie mind in connection with affirs at the Villa Zirio may be relieved. I can at any rate report (Mareh 5th) some progress within the last few days, the Crown Prince baving now had three comparatively good nights, with less cough and expectoration, and haring been ont on the piazza upon which the windows of his room open for several hours each day. This he has been able to do thanks to the ingenuity of Sir Morell Mackenzie, who extemporised a sercen which shelters the patient from any wind, and gives some amount of privacy from the gaze of the erowds which congregate in the road below the villa.
The embargo laid by the Emperor on the plysicians as to giving any information beyond that eonreyed by the official bulletins, which are probably submitted to the august patient before being published, has struck terror into the heart of the host of special correspondents now here, and renders it extremely difficult to obtain reliable information. It has also had the worst possible effect in causing information of a pessimist nature to be inrented.
The suggestion made by Sir Morell Mackenzie alluded to in my last has been carried out, and on Saturday evening l'rofessor Waldeyer, now holding the Chair of Anatomy at the University of Berlin, and formerly Professor of lathology, arrived here. This eminent mieroscopist, who has written important works on the origin of canecr, I have reason to know spent the whole of Sunday in making examinations of the expectorated matter, and the greater part of the morning Sir Morell Mackenzie was with him. The doctors, however, hare heen requested not to make known his views, whether favonrable or not, so that whatever conclusions he may arrive at will be forwarded to Berlin, and are not likely to be known here. A nerr cannula was made here last week under the superintendence of Sir Morell Mackenzie, who spent nearly a day and a half in the workshop of the local silversmith, exciting much interest in the Italian artisnn mind. In this work he was assisted by Dr. T. Evans, of l'aris, the Ameriean dentist of European inme. who is staying here. Since this tube was taken to the Villa Zirio. I hear that the eough and expectoration have materially diminished, and that the latter is much less bloodtinged than it was; whether this is due to the new tube or not I cannot say.

The Crown Princess continues to display the admiralle fortitude and bravery that have distinguished her all along, at a time when one knows her leart is wrung with the bitterest anxiety. IIer kindliness and consideration for others are perpetually shown, an example of which lans just been brought to my notice. An Englisin nurse, trained at the Liverpool Ilospital, who lins nursed here with great success for sereral years, was recommended by 1r. Freeman to assist in the nursing, preparing foorl, ete.. nfter the operation. A lospital orderly has now arrived from burlin, and on the nurse's departure the Crown I'rincess personally presented her with $\Omega$ pretty and valuable brooch, thanking her wirmly.
There is still a grod deal of international ferling and jealousy, and though natural to a certnin extent, it is, I fear, carried much too far. Sir M. Mackenzie las now resumed eharee of the illustrious patient, being supreme in the case. I'rinee William arrived
last week, and Professor von Bergmann has, remained by command of the Emperor. 1 understand that cither Sir M1. Mackenzie or Mr. Mark llovell is always on duty at the Villa. It is hoped that this anxious state of matters will not last much longer.
The Bishop of Gibraltar is here, and preached at All Saints Church on Sunday. He was receivel by the Crown l'rincess on Monday afternoon at the Villa Zirio. The weather hus quite changed, and is very fine.

## MANCHESTER. <br> [froan our own corréspondent.] <br> Hospital Funds.-Small-pox.- Owens College.-British Aesociation Local Committees Accounts. <br> Tue collections on Sunday amounted to $£ 4,285$, and on Hospital Saturday to $£ 1,49+$, but to the latter sum an addition may still be

 made.Additional cases of small-pox continue to crop up in various towns near Manchester. In Stockjort alone twenty-one cases with four deaths lare been notified since the disease broke out again.

The principnl and treasurer of Owens College have issued a eircular setting forth the needs of the College, and soliciting subseriptions to clear off the debts on the new laboratories and feel certain that the public of Manchester-so justly proud of its
College, entirely endowed and supported by the contributions of its citizens aprent fromed and supported by the contributions of Teal. The sum required to pay off the debt on the buildings is
per about $£ 45,000$.
The Local Exeentive Committee of the British Association has reported on the expenditure incurred at the recent meeting of this Association, held in Manchester in September last. Altogetber the amount received was $£ 4,336$, while the number of members attending was 3,838. The attendance was greatly in excess of that at any previous meeting, and the amond received and available for the promotion of seience was beyond all former
reenrds. The total expenditure reeords. The total expenditure $\begin{aligned} & \text { ras } \\ & \text { chiefly } \\ & \text { by the guarantors, } 35 \text { per ceat. of the sum guaranteed }\end{aligned}$ met called up by donations and the proceeds of excursions.

## LIVERPOOL.

[From our own correspondent.]
Serious Decrease of the Water Supply.-Small-pow in Liverpoo bIIospital Appointment.- Police Appointments.
For several weeks past we hare had a " restricted" water supply, and within the past month the water has been cut off for several hours during the day as well as during the night. The great Works in North Wales cannot be completed for some time yet, so most of the Liverpool water still comes from Rivington. There bas, however, been an alarming decrease in the amount of water there, and a water famine has veen feared. The Water Committee past fortnight on March sth. St wathen stated that during the pasounted to 107 million gallons, or 2,586 million gallons less than on the corresponding week last year. It was announced that means were being taken to oltnin water from other sources to meet present requirements. As a matter of faet the Liverpool Corporation have arranged already to obtain from one to two million gallons a day from the kirkly Well, belonging to the Corporation of St. Ilelens; and some of this is coming into the city now. The rainfall at Rivington for the fortnight ending Fegrary
cided that the new water to be conveged unler the Nlersey in a specinlly-constmes, tunnel, and not through pipes lying on the river battom. which is the outcome of action taken by the Manchester Ship Canal Company, will of course add greatly to the already enormons expense of the new water systeni for Liverpool. Considering the great amount of traffic between this city and Sheffield, it is somewhat remarkable that, until a week or two ago no decided cases of small-pox havo occurred here. The medical officer of health has rccorded seven cases, most of which were directly tracealle to an official in the employ of the Manchester, Sheffield, and Lincolnshire Railway Company, which communicates with Liverpool by the Cheshire Lines Committee.

In fact, the health of the city has been, on the whole, rather exceptionally good for nany weeks past.

Dr. William Alcxander, so well known by his operation of tightening the round ligaments and other original operations, has been without opposition elected honorary surgeon to the RayaI Southern Hospital. The vacancy occurred by the retirement of Mr. IIamilton, whose term of office lad expired,

Last week the Watch Committee appointed Dr. Macpherson and Mr. Rhinallt Pughe surgeons to the City Police Force for the nortly and south districts respectively.

## CORRESPONDENCE

## DR. Al'OSTOLI AND ELECTROLYSIS.

Sir,-In a letter on this subject in the Jotrinal of March 3rd, it is stated that this treatment, even in the hands of its originator (in its present form), is full of danger to life. I am able to corroborate Dr. Apostoli's statement that this is not so, for Dr. Keith and I have made 2,567 applications for fibroids and other diseased conditions of the uterus, and, following Dr. Apostoli's directions, have had but one case where there has been any trouble. This patient did not do what she was told to do, and the result was an attack of cellulitis, which rest in bed has cured. After erery application the patients have been able to go home, walking, driving, or ly train,

We propose at a future time to bring before the profession the results of these applications; but at present I may say that we are treating a lady, who was told nearly three Jears ago by a well-known provincial abdominal surgeon, that if she did not submit to the operation of hysterectomy she would not live for six months! The tumour was then, and is still, simply an inconrenience from its size-it is not very large, and has already decreased about one quarter after six applications.-I am, etc., Edinburgh.

Skene Keith.

## NURSING FOR THE TERY POOR.

Sir, - In many parts of the country attempts have been made to establish permanently a parish murse, or a nursing association of sereral nurses for a union of parislies. I do not here refer to towns, but to exclusively rural agricultural districts, where both farmers and tradespeopile are poor. These attempts have been more often unsuccessful than the contrary, from various causes; but, without entering into the consideration of all of these, I may state that, in my own neighbourhood, the efforts in this direction hase been crowned with eminent success, and 1 would, therefore, lesire briefly to describe our system, and to point out where there is room for improvement, and in what way this improvement could be effected.
Our Nurses' Association was started in the beginning of 1883. lighly trained uirses have proved in other places unsuitable for the general run of illnesses in poor cottages, where there is but little room and means, and often but scanty or poor food to be obtained, and it seemed necessary to form the staff of nurses from women in the same station and circumstances of life as the patients themselves, as the nurse must, in the conditions under consideration, do the cooking and mind the children as well as nurse the mother, where the latter is the patient. Highly trained nurses, as a rule, will not be content with the poor food and accommodation that are to be found in a labourer's cottage, and a second hand is required to attend to the needs of the household, the man's dinner, the children's washing and dressing, etc.
We commenced, therefore, by engaging a respectable widow accustomed to nursing, and willing to act for a moderate fixed salary; others werc soon found anxious to join, and as most parishes were eitlier too poor or too small to keep and employ a nurso constantly, an association of parishes was formed. At present there are fourteen parishes and ten nurses. The parishes are limited to those within twelse miles of the secretary's home. In each parish that joins some lady must be found to represent it on the committee, to whem application is to be mude by those reguiring a nurse, who will watch any case in her parish, and is willing to collect and guarantee a certain annual' sum. This sum is fixed at $£ 8$ from each parish, with $£ 1$ more for every 100 people "ver 800. There is no central home, but the nurses lodge in different parts of the district. There is a sliding scale of subscripions and fees at a rate that enables people of each class to keen $?$ nurse for a month for the same cost that they would pay for ten
days' nursing in the ordinary way; subscribers getting the right to have a nurse at half fee. For instance, the labourers subscription is 2s. annually; they have a nurse for $2 s$ a meek. Gentry's subscription not less than 10 s . annually, and fee for nurse 10 s. weekly. Board aml lodging, also, for the nurse to be provided in all cases, but in specially poor cottages they have an extra allowance from the Association of $2 s .6 \mathrm{~d}$. per week. The nurses are paid a fixed annual salary of $£ 26$, and board and lodge themselves when not out. The Association puts by £I a year besides for eacli nurse, which she receires with accumulated interest on leaving. Toung Tomen of 21 or 22 are taken as probationers, and if they show care and interest in their work, and some competence in nursing ordinary cases, we give them a month's training in the City of London Lying-in Institution upon certain conditions.

Our standard of nurses is gradually rising, thanks partly to the popularity of the occupation bringing better women as applicants for racancies, and partly to the readiness and eagerness with Which the medical man's directions and suggestions are adopted, but we feel the want of some training in a general hospital for them, not to the perfection to which a thoroughly-trained nurse is brought, as we hare our first-rate nurse in our local village hospital to which the more serious cases are taken, but training for a more limited period, enough to enable our nurses to comprehend something more of the nature of illness, and of her duties in watching and noting what occurs under ler eyes. It may consist, for instance, of such elementary instruction as is given in ambulance classes, with some other matters mhich make up a nurse's daily and hourly duties. Our means, howerer, are quite inadequate to enable us to pay for this desirable instruction ourselves, but we think that by combined representations from many similar nursing associations to the Committee of the Queen's Jubilee Fund, a grant might be obtained for the purpose, which, together with some fee from the Nursing Association, might be paid to some general hospital, which should undertake in return to gire the required training.

If the committees of nursing associations generally throughout the country would make the necessary representation of their needs to the Secretary of the Duke of Westminster, Grosrenor House, their applications would withont doubt be considered with ready courtesy and good will, and will probably meet with success; and thus much might be done to increase the efficiency of the nursing of the sick poor, with all its attendant good and advantage. I would gladly gire as much information as possible, but fuller particulars with pamphlet (price sixpence) can be had from Sewell, Stockhridge Terrace, London, S.W.-I am, etc.,

Capel; Surrey.
J. L. JARDINE, 1l.R.C.S.

## TIIE BIRTHPLACE OF CONSLMPTION.

Sir,-In last week's Jotranal you have done me the honour of alluding, in one of your leading articles, to a paper of mine dealing with the abore-named subject.
The writer of the article does not accept the conclusions that I had ventured to consider probable. His scepticism is, however, hased upon an entire misconception of the statistics which he adduces. IIe has unfortunately attributed much weight to an apparent contradiction between the figures given in the aborementioned paper and some statistics queted by me in a health lecture on "Foul Air and Lung Disease." He affirms, as if with my authority, that the "Consumption death-rate from IE65-76" was for Fingland $3.5 \pm$ per 1,000, for Salford 5.12, for the registration district of Manchester 6.10, and for Manchester township in 1874, 7.7. It is thus mado to appear that the alleged breeding grounds of phthisis have really a lower phthisis-rate "than the more healthy regions of the whole area of which they form a rart."
With such premisses as these. it is not wonderfnl that the writer of the article should consider that all the subsequent conclusions of my paper are "ritiated." But he has, by inadrenture, been led here into a serious error, and one that I must beg you to rectify as soon as possible.
The figures that he gives as referring to consumption do not relate to that disease at all, but appear in the Resistrar-General's tables, and also in the lecture, as diseases of the respiratory organs, not plithisis. In the Registrar's returns there are two distinct columus, in which deaths from (a) Phthisis, and (b) Disease of the Respiratory Organs, are grouped. The table quoted by me from Mr. Baxendell includes only the latter greup, and as these diseases kill about twice as many as phthisis, the death-rate
mentioned by the nriter of the article is about twice as large as the true cqnsumption death-rate.

The consnmption denth-rate in England has uever been much more than 2.5 per 1 , 0.0. It is now only 1.7 , whilst the death-rate from diseases of the respiratory organs is about 3.6 .

The consumption death-rate for Salford in IS 71 was' 2.3 , not 5.12, and that for Manchester was 3.6, not 7.7 ..

Hence my contention is conclusively proved, that the deathrate from consumption in the districts selected is more than trice that of the general plathisis-rate.

It is hardly necessary to notice the writer's other objections to my tigures. Still I may mention that, if he had been better acquainted with the districts, he rould not have spoken of "shaps" as a source of error. There are scarcely any shops, even in the comparatirely larger streets. All the streets I hare named in the paper are almost wholly composed of small two-roomed "back to back" houses, and they are strictly "comparable as to the character of their populations.
Lastly; the writer mentions children's deaths as a source of fallacy; but, in fact, there were scarcely any such deaths amongst those who had died of consumption.-I am, etc.,

## Manchester, Fehruary 28th, 1888.

Arthur Ransome.
${ }^{1}$ MEDICAL OFFICERS AND THE JYDIAN COUNCIL.
Sm,-There died a few days ago at Cannes a distinguished lawser, a man of letters and a member of the Indian Council, Sir llenry J. Sumner Maine, who, the Times kindly informs us, was the son of a "medical man."
IIis place in the Indian Council has been filled, I see, by Sir Charles Turner, K.C.I.E., another distinguished lawyer, at whose appoiutment we all, who had the honour and pleasure of his acquaintance in Madras, will rejoice.

If we look at the list of members of the Indian Council, however, we find it to consist of fifteen members, of which eight are soldiers, five cirilians, one lawyer, and one merchant. Not a single medical officer! And the question which naturally arises to one's mind is, Why is this?
Now India owes a.great deal to the medical profession. Old Orme tells us, in liis unrivalled IIistory of Ilindustan (vol ii, book 6 , page S), that to Dr. Broughton, temp. 1636, the Monoarable East India Company owed its first settlement in Bengal, and that most gallant and accomplished soldier, Sir Veville Chamberlain, G.C.B., G.C.S.I., only the otber day, proclaimed it as his opinion, "That the peaceful and cisilising influence of the work done in the hospitals and by regimental surgeons on the frontier of India has been in political importance equivalent to the presence of thousands of bayonets.
"The great question to be solved in the future is that of how we can best bridge over the clasm which separates the rulers from the ruled. The means of accomplishing this. end may be mainly. hoped for in the sympathy to be created between the races; and 1 think the medical profession will always have it in its power to give most important aid towards the attainment of this object."
And jet not a member of this important profession is deemed worthy of a scat in the Council which directs the affairs. of this great depentency of England. Surely there is something wrong here, for it can scarcely be denied that sanitary: and medical matters occupy as important a place in our administration of India as even the law.

Nuch more might be written on this subject, but in deference to your urgent request for brevity from your correspondents I desist. 1 am , etc.
M. C. FurnatiL, M.D.; C.I.E.

The Riviera, February 20th, 1888.
IMAUNITY OH CERTALN TOWNS FROM DIPHTHEHA.
Sia,-In reply to the inquiries upon the origin and mode of propagration of epidemics of diphtheria; which the Collective Investigation Committee issued at the beginning of the year, I have been informed, amongst other things, of the complete immunity from epidemics of membranous discase of some towns of considerable size and importance. Will you 'allow me to say, through the medium of the Joursil, that the Committee will be clad to receive information of such immunity wherever it has heen observed to exist? It will add, of course, to the value of the fuct if some details of the sicuation and character of the town or tlistrict be at the same time given.-1 am, etc.;

IsAmpard OHES,
Secretary to the Coll. Ins. Comm.
5, Hertford Street, Mayfair, March 6th, $18 \% 8$.

THE IMPROVEMENT OF BRITISH IIEALTII RESORTS.
Srr,-The observations contained in your interesting letter on
Carlsbad, as to the importance of increasing the attractiveness and usefulness of our own health lesorts, are worthy of the earnest attention of all parties concerned, and it has been for years a matter of astonishment to me that something has not been done long ago in the direction indicated, especially during the last few years of agricultural and commercial depression.
The absolute necessity for changes in the working of our commercinl system, in order to meet successfully foreign competition, is forcing itself home to the minds of our legislators, and stimulating inquiry into our methods of technical and commercial education, and it may well be asked if something should not be done to raise British sanatoria to a higher level of popularity.

Physicians who practise abroad know at what sacrifices and by means of what rigid economy many invalids contrive to winter 'abroad, and haw many things which to an invalid are necessary comforts hare to be dispensed with. It is unfortunately our to par experience that such persons are only too often unable to pay eren rery moderate professional fees, and all this nothome.
I have often asked myself if many such invalids would not be better in England, where any special advantage of wintering abroad would be counterbalanced by the increased comfort of an English house, English cookery, and the associntions of home and proximity to friends, while the expenses of a long, costly, and often uncomfortable journey and sea-passage would be avoided, and the distress of mind incidental to parting whilst in feeble health from the family circle would be spare! to the invalid.

To the rich the special adrantage of foreign residence will always be attractire; but even to these the long journey will sometimes be a serious consideration.
There are many South Coast sanatoria which, if properly dereloped, would often enable the inralid to remain in England. My own experience while practising in Devonshire long ago conrinced me of this; but, for the completeness of such, an entire reorganisation by the establishment of winter gardens, pleasure grounds, baths of rarious kinds, libraries, and really good cheap music would in almost every case be required. It is incomprewhich, to me that some such organisation as that at Carlsbad-Germany-sh certain local modifications, exists in every spa in Buaton has been renowned for
Beng since applied in England. testify to has been renowned for centuries, and thousands can able, invigorating, bracing air and high altitude. Thanks to rhat has been done br the Dukes of Deronshire, it has of late what undergone great improvement ; but why should the sufferer from gout or rheumatism be umble there to have his treatment raried or modified by: baths of Droitwich brine or similar addition, as is in Germany accomplished by the employment of various "mutterlenge," pine-needle extract, etc.? The Kurtaxe of a German bath is never felt as a burden, but in the aggregate prodnces a sum which enahles all the expenses of the Kurhaus, gardens, etc., to be defrayed.
So far from its being cheaper to take a "cure" in an English watering place, it is much cheapur to go"abroad to such places as Ifomburg, where the expenses of living are so much less than at an equally fashionable English health resort as to more than make up for the extra expense of the journey. I feel sure that the experiment only needs to be tried in a really intelligent manner in order that it may be found to he a grent pecuniary success.-I ain, etc,"

## 3, I'iazza di Spagna, Rome, February 24th, 1888.

RULING OF TUE JUDGES IN CASES OF INSANITY.
Sir,-In the Journal of F'elruary 25th, Dr. Forbes Winslow directs attention to the contradictory ruling of two judges in cases of insanity. On the day previous to the trials referred to, a man was tried for murder at W orcester before Lord Chief Justice amined the By order of the Treasury two medical experts had exCrown. We were all asked by the Judge for our opinion as to the state of the prisoner's mind.-1 am, etc.,
Stourbridge.
G. H. Richards, M.D.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## TIIE IRISII CONJOINT SCIIEME: THE KING AND QUEENS COLLEGE ON I'IIYSICIANS $r$. THE APOTHECARIES

 JALI, HUBLIN, AND OTHERSTHIs case began on Weducsday, Marcl lst, and terminated on Saturday before the Vice-Chancellor. The plaintiffs sought a declaration that the Apothecaries' Hall are not entitled to hold a qualifying medical examination under the Nedical Act, J886, or to grant a diploma in respect of medicine within the meaning of that Act, and that the Apothecaries'. Iall and the College of Surgeons are not entitled to enter into a combination for the purpose of holding such examination.

Mr. Serjeant IIEMPHILl, in stating the case for the plaintiffs, said that in 1692 the College of l'hysicians was founded, and by the powers granted it had since, after due examination, granted licences to persons to practise medicine. In the thirty-first year of the reign of George III the Apothecaries' Mall was founded, and from that time the governor and company of the Apothecaries' Ilall had a shop for the sale of medicines in Dublin, and held examinations under the Act, and granted certificates to persons who passed the examinations that they were properly qualified to practise the profession of apothecary. Shortly after the passing of the Medical Act, 1886. a'scheme was formed for a combination between the College of Ihysicians and the College of Surgeons. The governor and company of the Apothecaries' Hall applied to the General Medical Board on November 9 th, 1886, for an examiner in midwifery and surgery, and that application haring been communicated ta the College of Pbysicians, they wrote pointing out that the Apothecaries' Hall had no power to grant a diploma in medicine, and it was only empowered to grant a certificate in pharmacy. The College of Surgeons, howrever, entered into a combination with the Apothecaries'Hall, and the Medical Council appointed, on May 19th, 1887 , two examiners in surgery to the Apothecaries'. IIall. No examinations, howerer, had since been held at the Apothecaries' Hall, but adrertisements were issued for a conjoint qualifying examination to be held by the tro bodies, and it was to present this intention being carried out that the present injunction was sought. The College of Physicians submitted that the Apotbecaries' IIall was not a medical corporation capable of granting medical diplomas, or capable of entering into a combination with the College of Surgeons to grant dijlomas, and that the effect of allowing such a body to. grant diplomas would be to lower the status of the profession. They, therefore, asked the Court to declare tlat the Apothecaries' Hall was not entitled to hold a qualifying examination in medicine under the Medical Act, or to enter into a combination with the College of Surgeons to do so. The position of Members of the Callege of Physicians was wholly different from that of ajothecaries, and this was intended, both by clarter and statute. Physicians alone were entitled to practise medicine in Dublin and throughout the country, while the business of apothecaries, who were really given a monopoly, was simply to sell and compound medicines, and follow the prescriptions of the plysicians. He referred to the Aets regulating the position of apothecaries, and contended there was nothing in them giving them the status of a medical corporation capable of granting a diploma in respect to medicine, nor was such power given to the Alsothecaries LIall by the Medical Act of 1886: nor was the llall entitled to obtain, the aid of the examiners in surgery appointed by the General Medical Council, or to enter into a combination with the College of Surgeons to hold a conjoint qualifying eximination under that Act. IJe submitted that the effect of the statute law was simply to enable the apothecaries to register thentaehes as they did previous to 1858 , and at the passing of the Act in 1886 the Ilal] was not in a position to grant a medical diploma. The claim of the Apothecaries' Jlall to confer medical diplomas was wholly inconsistent witl its Act of Parliament, by which it hould stand or fall, and was in contravention of the rights of he King and Qucen's College of Physicians and of the provisions of the Medical Acts. 'lie Apothecaries', Iall had no right, and iad never acquired any right, to grant diplomas in medicine, and lot having it they could not combine nith the College of Surgeons vith tbe object in question.
Mr. Bewtel, Q.C., on the part of Dr. Jeard, the Registrar. said $t$ was not the business of lns client to support the contention of ither party in this suit.
Mr. J'Unceli, Q.C., on behalf of the Apothecaries' Mall, sub-
mitted that the case made on the other slde was unfounded in fact, untenable in law; and was wholly unjustifiable. On the true canstruction of the Acts of 1858 and 1886 the Apothecaries' Hall was clearly entitled as a medical corporation to combine with any ather medical or surgical body named in the Aet of 1886 for the purpose of carrying out qualifying examinations and granting medical diplomas. So far hack as any recoris existed about apothecaries, they had been under the common law and by usage practitioners in medicine. They had that status even before any clarters had been granted, and before their own Act of 1791, which did not restrain their status in that respect. From the Act of 1791 to the present hour the apothecary had been, by virtne of his position, a practitioner of medicine. His clients had been most anxious to combine with the Colleges of Physicians and Surgeons for the objeets contemplated by the Act. The General Medical Conncil, by their resolution of June, 1863 , had decided by a large majority that the licence of the Apothecaries" Hall was a licence to practice medicine. The present wras not the first attempt on the part of the College of Physicians to destroy the status of the apotheeary. It was only one of a series of attempts made during the past thirty years, all of which had failed. Every effort had been made by the General Medical Council to induce the College of Physiciuns to enter into this combination, in order that all the examinining bodies might be in union for the purpose of having one strong licensing body in Dublin.
Serjeant Campion, for the College of Surgeons, said his clients had acted on the opinion of the General Medical Council that the Apothecaries' Hall were a medical corporation, competent under the Act of 1886 to combine with them for the purpose in question.

Serjeant Jelsemt, on behalf of the College of Pbysicians, said that the Medical Act (1886) clearly distingulshed between medical corporations pure and simple and medical corporations capable of granting diplomas in medicine or surgery. In order to bold a joint examination in medicine, surgery, and midwifery under them, there should be a combination of two or more medical corporations, of whom one at least was capable of granting a diploma in surgery. Universities could grant both those diplomas. If, therefore, the Apothecaries' Hall had combined with a university, they would bare been entitled to do that which ther claimed to do; or, if they could combine with both the Colleges of Physicians and Surgeons, they would be in a position to hold the qualifying examination and grant the diploma. Fuiling to obtain those combinations, the only course open to them was to apply to the Council for examiners in both medicine and surgery, who would hold for them an examination the passing of which would qualify: the person to be registered under the Act of 1858.

The Vice-Chancellof: Do you concede that the Apothecaries' Ilall are a corporation competent to grant a diploma conferring on the holder, if he has yassed the qualifying examination, the right to be registered under the Act of 1858 ?

Serjeant Jellett said he did. The position of the Licentiate of the Apothecaries' Hall in Ireland was quite different from that of the Licentiate of the Apothecaries Hall of England. By the charter of the College of I'hysicians of Ireland the whole domain of physic, both as to theary and practice, had been given into their hands.

The Vice-CHancelalor said if he thought it necessary to go into the many important and interesting questionss wheh had heen so elaborately opened by counsel at both sides in order to arrive at a conchinsion; he should have thought it desirable to postpone his judgment; but as in lis opinion the ease turned on a narrow point of law, arising on the construction of the let of 1859 and the Nledical Aet of 188k, and involving but rery indirectly the subjects so discussed, he did not think any advantage would be gained by taking time for further consideration. The Acts he mentioned were to be read as one Act. The Apothecaries liall claimed the right to combine with the College of Surgeons for the purpose of holding a qualifying examination, under the Aet of 1886 , in medicine, surgery, and midwifery. The College of Surgens liad the power of granting a diploma in surgery. The Apothecaries' 11al] claimed to he entitled. under the Aet of 1886 , to grant a diploma in medicine. The College of Hhysicians insisted that a combination of these two bodies to grant a diploma in medicine was illegal, becanse no right of doing so existed in the Apothecaries' IIall. 'inder Section lí and Scked̃ule A of the Act of 1850 licentiates of the Apothecaries' Jlall of Dublin Weré entitled to registration on production of a document evidencing or conferring their qualification, namely, the licence under seal of the Apothocaries" Ilall, ant on the payment of a certain fee. A Licentiate of
that bolly, therefore, belenged to a body capable of granting a diploma, and, realing the two Acts together, to a body capable of granting a diploma in medicinc. The Apothecaries' hall was one of the constitucucy of learned bodies, including the Universities and Cone Colleges of Physiciuns and Surgeons, by whom the Medical conmcil was provided to be electel, and was made ce-ordinate argument had been addressed to the question of whether it was a wise thing on the part of the Legislature to have included the Apothecaries' Hall in Ireland in the list of bodics entitled to be styled qualifying bodies. It was said that the nature of their profession was of an inferior grade, and that the nature of their instruction was inferior and inadequate, and that therefore it was an error on the part of the Legislature to have put them on the Register with the power of practising as persons registered as medical practitioners could do. He dissented from all the parts of that proposition. 1le was satisfied that the apothecary was something very much beyond a mere druggist and chemist or compounder of medicines, and should be prepared to hold, if necessary on statutory recognitions and legal decisions both in England and Ireland, and on the eridence before him as to practice, that the apothecary was a person capable of lawfuly practising In a medical practitioner in respect of medicine at least. apothecaries since the Act of 1859 had been on a very different footing from what they rere at the time of the passing of the Act of 1791. He need only refer on that point to the affidavit made in the case of Dr. Montgomery, the Secretary of the Apothecaries' Hall, which showed that candidates for their licence were
required required to produce certificates of haring attended lectures on
chemistry, materia medica, botany anato chemistry, materia mediea, botany, anatomy, pharmaey, physiology, and the theory and practice of medicine, and were also re-
quired to pass examinations in all these various subjects. Ile also statel what had becn done to provide competent examiners also stateal what had becn done to provide competent examiners, and,
which was a matter of great importance, that the certificates of attendance were accepted lyy the Faculties of Physicians and Surgeons of Glasgor and Edinlurgh. The College of Surgeons in Ireland, though at first they refused those certificates, yet aiterwards formally rescinded that decision and accepted them. Therefore if it were necessary to go into the question it would be found that the Legislature had not leen guilty of opening a door to unqualified uneducated persons. He believed that for a century and a half, or more, the apothecaries had been accustomed to practise to a certain extent as medical practitioners. But deciding the case on the question of law. he held that under the two Acts mentioned the Apothecarics Hall were entitled to grant a diploma to combine hitlder to registration as a medical practitioner, and minations in medicine, surgery, and midwifery. These matters were all under the control of the General Medical Council, who were hound to see that the education was sufficient, and, if not, to bring the matter under the consideration of the Lord Lieutenant. Threrefore the case of the relation was not sustained, and the information should be dismissed with costs.

## AN ARSENIC POISONER.

THP numerous refinements in the art of poisoning that have been introduced of late years have not, it would appear, caused those who wish to get rid of relatives or acquaintances wholly to dispense with the old-fashioned plans. We learn from a Boston contemporary that a woman, named Rohinson, has lately been convicted at Cambridge, Massachusetts, of the murder of her brother-in-law ly the administration of arsenic. The indictment charged her with the murder of soven persons, all within the space of five years, namely, her landlord, husband, sister, brother-in-law, daughter, nephers, and son, that being the chronological order in which the deaths occurred. All died with the usual symptoms of arsenical poisoning. She was first tried for the murder of her son, bit the jury were unable to agree; the next count taken was for killing her brother-in-law, and on this charge she was found guilty in the first degree. Suspicion was not aroused against her until during the iltness of her son, the last victim, arsenic having been detecterl in the matters romited by lim. She was arrested on the day before he died, and arsenic was sulsequently found in his body. The bodies of the others mentioned above were then severally exhumed and examined, with the result that arsenic was found in the viscera in each instance. The alleged motive in at least four of the cases was the insurance meney on the lives of her victims. The chief reason of
her success-for in many respects she was a clumsy performerwas no doult that she moved about from place to place, so that her several victims were under the eare of different medical men, otherwise fle must have been found out long before. Theso murders only afford one more instance of the extrerie necessity there is that medical men should always be on the alert, and in the case of an illness commencing suddenly or gradually in an adult with vomiting and purging for its most promineut features the possibility of arsenical poisoning should always be borne in mind.

## A WOULD-BE SUPPLANTER.

A. G., writes: I have held a club appointment for nearly six years; the appointment is lield subject to a three month cint. At the last annual meetam re-clected at every annual meeting or the clas an ing a letter was read from a medical man, applying for tie post of mally asked a to apply fur the post, ners or members of the club.
I was led to understand, when I took the appointment, that so long as I discharged mp duty hononrably, the re-election was a mere matter of formto comply with the club rules.
** Although there is no rule laid down in the Code of Medical Ethics that directly bears on the case of our correspondent, he may nevertheless accept it as a fact, that snch questionable conduct as that alleged against his would-le supplanter is not only in contravention of the true spirit of medical ethies, but of the great moral law of "doing unto others as we oursclves would wish to be done by."

CHHISTMAS CARDS.
THE exceptional tuestion submitted by L. S. A., is too indefinitely expressed to enable us to crasp the special point involved therein. Why it should be "unprofessional (as our correspondent puts il.) for a medical man to send out Christmas cards." in accordance with time-honoured custom, we fail to comprefiend.

## INCOME TAX.

F. ask: Can I dednct keep of horses-and if so, how much do they allow per horse-wages of groom and of eurgery boy, rent of surgery? can deduct $£ 120$, if my return is under $£ 100$, and also any insnrance pre min there is another Important ltem whied think would miums that pupposing a man going into practice has to borrow affect, a goor man with, and of conrse has to pay interest, say fī0 per snaum, say $£ 1.000$ to buy witic, and
can he slo deduct this $£ 50$ ?
** K. has a right to deduct all professional expenses, consequently rent of surgery, eosts of keeping horses, wages of froom, and wear and tear of carriage, barness, etc. As regards interest uf borrowed money, he cannot deduct it os a professional expense, nor is it right Ife should, for in paying the inLerest, he can recoup himself by deducting the income tax from the intcrest. But, and this is most important, he may deduct the interest from his grass income to arrive at bis net income. This will often enable a person to get that $K$. is recommended 10 apply to the Income Tax Repayment Arency, 25 , Colville Terrace, W. It will help him in gettlag a fair assessment ln the first instance, in appealing against an unjust one, and in getting back past income tax. Very possibly he might be entitled to three years' refund.

ADVFRTISEMENTS IN IOCAL PAPERS.
v reply th " Not Bene"s" question, we would refer him to the Code of Medic. ethice, Ethics, page 5 , hom paper change or addition of consulting hours" etc., is in advertise iu a local paper chaquette, and derogatory to the profession.
contravention of mediual etlquette, and derogator
EXPENSES OF AN ASSISTANT'S ILLNESS.
(1). (Iliness and consequent temporary loss of service does not IR. D. ( Durham).-Iliness and consequent temporarytly agreed to treat it as terminate the contract. Ihe parves haved to salary up to the date when the now at an ond; but the assistant is entiteariments, etc., the strict rights of coutract coased. As regards expeoses of apartments, to ascertain. It seems the partles are, under the circumstances stated, har conrenlence, and it would that the removal took place as a mat ter of matua cone extra expense conaeseem reasonable that each should bear come part of quent on It.

RECENT RULING AS TTO EXPERT EVIDENCF
R. J? ocken-What the leating raticle in the Jounsal took exception to, was he exclusion of the expression of opinion (on the mental state) by the medial Witnegses when giving cvidence; it being for the jury to return a verdic when all the evidence is placed before them.

LUNACY CERTLFICATBS: ACTLONS FOR DAMAGES.

- Wer weldon $v$. INFELix. We have been unable to finat were tried we belleve at the end of 1835 Jiutherford, and Weldon $v$. Semple, were tined we Times, and are no doubt to or beginning of 1886.
wo found in tts index.
W. Y. IB.-If an action is brought to recorer the money alleged to be due, the defendant can be ordercd to produce his books, and to state on oath thent a monnt he has recelved. It is desirable howover to bave some independe. cvlionce that some money has heen paid, befora co
T. M. W. -We should thlnk two gulneas a fair charge.


# NAVAL AND MILITARY MEDICAL SERVICES. 

## RESERVE OF ARMY MEDICAL OFELCERS.

A Royar Watrant is announced on the above subject, the text of which will doubtless appear in Army Orders in the forthcoming Monthly Army List. The substance of the warrant is as follows: - it is expedient to provide for the establishment of an army medical reserve of oflicers. The ranks (of $\langle$ offeers wwill be those of surgeon-major and surgeon. Medicial officers of militia, yeomanry caralry, and volunteers, who may be permitted to join the reserve, will be required to undertake to perform army duties at home, under rules to be lixed by the Secretary of State for War, and to act under the orders for administrative purposes of the DirectorGicneral of the Army Medical Department. Acting-surgeons and honorary, assistant-surgeons will be permitted to join if they have passed the prescribed examination for proficiency. "The rauk of surgeon-major will be conferred on those surgeons of the ansilinry forces who join the reserve on ment to the auxiliary forces, and the rank of surgeon will be granted to acting-surgeons and honerary assistant-surgeons of Foluntcers. No officer will be appointed whe is not medically fit for service, and whose character and qualifications are not in all respects satisfactory. They will be liable to be called to army service at home in times of great national emergency, to take the placc of such of the medical staff of the army as may be withdrawn for active service, and when so called ont, will receive the pay and allowance of their rank.

We hope to be able to give the Warrant in full, 'with some comments, in our next; meanwhile, we would advise all concerned, before taking any action, to scrutinise well both its terms and objects.

## HONORARY SURGEONS TO THE VICEROY IN INDIA.

In the year 1881 Lord Ripon instituted, the appointments above named: thrce were given to officers of the Army Medical Staff scrving in India, and three to medical officers of Her Majcsty's Indian army. Medical officers holding appointments as honorary physicians and surgeens to the Queen wore a gold-embroidered sash as a mark of distinction. In like manner the honorary surgeons to the Viceroy of India were distinguished when in military miform by an aiguilette. We have just received a copy of an oflicial memorandum, addressed by the military secretary to the liccroy to the honorary surgeons, a copy of which we append, informing them that this aiguilctte, in deference to military jealousy, can no longer be worn by them, and that an application on the part of the Viceroy to the authorities at home for permission to substitute the sash worn by honerary surgcons to the Qneen for the niguilette was refused. The Yiceroy's aide-decamps wear exactly the same marks of distinction as those holding the same appointment on the Queen's honorary staff; but it appears that this mark of distinction and recognition of an honourable position is one that cannot be worn by "doctors," and they are accordingly subjected to the indignity, in the face of the whole army of lidia, and of society there, of having this symbol of honourable rank torn from them to gratify the morgue of a class, and the almost insane determination on the part of the militaty authorities to heap contempt on a body of officers on whem they are in their hour of ntmost need dependent for their very lives.

T'o the gentlemen thus insulted it appears to us there is but one course open: immediate resignation of the "honour "conferred on them; and for those to whom a like "henour" may in future be tendered a polito refisal to accepit it.

The fixed poliey of the anthorities seems to be to drive everyone in the shape of a gentleman out of the medical sorvice of the army, and to prevent men of the same elass from entering it. They are certain in the long run to effect their oljject.

MRMORANDIM1.
Exciapton having been taken ly themilitary muthorities to the homomary sirfrems of the Viceroy wearing an aiguiketa. it was juopased that a sash similab the higullette. This was referred fome, And the request has been refused hy the Ilome anthorities.

It is hereby notifted that that part of the circhlar dated December 1אth, Is referring to the weariog of algullettes, is entlrcly eaneelled, and the gold
aimullette is not to be worn in fitureby homorary surgeoos to lis Excellency aifullet te is not to be worn in fiture by homorary surgeoos 10 His Excellency.

By Command.
${ }_{8}$ Mjlitary Secretary's Oftlec, Calentta,
Japuary 21st, 1888. is
Medical Seqretary to the Yiceror
Medical Segretary to the Vicerop. =

## NAVAL MEDICAL REPORTS.

Inspector General Donnet, R.N., in a paper recently read before the Epinemiological Society on malarions fevers, etc., strongly urged that naval medical officers should bare some recognised official channel through which they could make known to the public their wide and raried observations on the etiology, particularly of climatio diseases. This very distinguished officer again writes to us, as he did a good many years ago on this subject, and we express now, as we did then. our entire aympathy with his views. But we much fear his wish is now eren less near realisation than it was then. In recent years, instead of relaxing, the Treasury has tightened ita purse-strings over the publication of hoth military and naval medical reports. It costs money, and in these times of retrenchment our gorernment are not likely to be induced to emulate the liberality of France, Russia, and Holland in publishing such reports. The value to the profession of the extended and varied observations of the medical officera of the public services is indecd very great. But if these expericnces are to be collected and published, we suspect it will have to be throngh private enterprise. 'As far as this Journal is cencerned we shall always be happy to do what we can in this direction.

THE NAYY.
Fleet-Surgeon W. G. Ridings has beeu placed on the retired list with the rank of Deputy luspector-General. He entered the service as Surgeon July 11 th, 1856 ; beeame Staff-Surgeen September 22nd, 1866; and Flcet-Surgeon May 3rd, 1877.
Staff-Surgeon ANTnoNy GopHam, M.D. has been promoted to the rank of
Fleet-Surgegn. He ranked as Surgeon from November $12 t h$, 1987 and as Staff-Fleet-Surgeen. Ile ranked as Surgeon from November $12 t h$, 1967 , snd as Staffluring the operations in the Malay Peuinsuls in 1875 , and was noted for promotion when qualified (medal with clasp).
Stan-Surgeon . Hickex, a. B., been bargeon. Ife was appointed Sorireon September ith, $186 \%$, and Stafi-Snrgeon March $15 t h$, 1879.

The following appointraeats have been made at the Admiralty:-Tzomas FULLER, M.D., to be Surgeon and Agent at Shoreham and Fishergate: C. L. Vasex, Staff-Surgeon to the Curaça; John Dundey, Staff-Surgean, to the Brish; Jerome BarRy, Surgeon, to the Curagoa; D. J, P. M'NabB, Surgeon. to the Banterer; James Thimple, Fleet-Surgeon to the Royal Marine Artilleey Division at Eastney; G. R. D. Charlton, Surgeon, to Sheerness Dockyard; J. W. O. UxDFREILL, Surgeon, to the Pembrole; additional.

## THE MEDICAL STAFF.

DEPUTY Surgeon-Gerfral J. B. C. RFade, C.B., is promoted to be SargeorGeqeral, ranking as Major-General, vice T. W. Fox, M.B., whe liss bedn Granted retired pay. He entered the Army Nedical Serrlee ss AssistantSnrgeon March 2ith, 185̄; became Sorgeon April 19th, 1861: BurgeorMajor, March lst 1873 ; Brigade-Snrgeon, November 27th, 1879 and Deputy Sorgcom-General, Octoher 23nd, I8Sl. Ife serred with the 3nd
Battalion Rifle Brigade throughout the Eastem campaign of $1854-555$, Battalion Rifle Brigade throughout the wastem eampaign of sebastopol: was wounded on November 14th, 1855, at the explosion of the Freueh siege train (medal with three clasps, and Turklsh medal). lle was with the same battalion during the whole of its service in suppression of the Indiam mutiny. iueluding the actions at Cawnpore, capture ol Lacknow, and numerons afiairs during the Oude campaign (medal with elasp). He was also engaged in the Afghan war in 1878-80, was mentloned in despatches, and recriver the medal granted for the campaign. He was nominated Companion of the Bath in IS96. Fe is a Monorary Surgeon to the Governor-General of ladla.
Surgeon-Major F.B.Scotr. M.D., C.M. G if promoted to be Brigade-Surgeon, ranking as Lieuteuant-Colonel, vice W. B. Ramsbothan, M.D.z retired. Brigade-Sargeon Scott's previnus commissions are dated: Assistant-Sargenn, Oetober 1st, ISb2: Surgeon, Marh Ist, 1873; and Surgeon-Mnjor. April 2sth, 1876. From Hart's Army List we learn that he received the special approbation of the Madras Government, followed by that of His loval lighamss the Conl-mander-in-Chiel, for his services rendered while in medical charge of the ISth llussars during a most virulent outhrak of cholera in the rcpiment at Secunrlerabad in May, 1871. He served in the Zulu whr of [879\% orgaoised the Bearer Compans, made the hospltal armagements at the Fort Pearson base for the Ekowe Relieving Column, served aftervands with the 2nd divlslen on the personal staff of Lord Chelmsford and in metical charge of the Headquarters Staft, was present in the engagement at Ulundl, where his servlees were deseribed by Lord Chelmsford as having been "of the greatest value" he accompanied the 17 th lancers in their charge and pursuit of the enemy, and hy rendering timely aid to a lancer who was dangerously wounded preventert his fallIng into the encmy's lands. and served sumsequently to the end of the war as Sentor Medical Ofticer of Port Durnfont and that line of commonication be tween Ulundi and the Tugela (mentioned In despatches. medal with clasp) Scrred in the Egyptian war of l8se on the personal staft of MajonGemernl the 1) battle of Tel-el-Kebir (C.M.G., bedal with clasp, and Khedive's star).
Surgcon-Major T. F. O'J wYER, M. D., is nlso ptomoted to bo Brighte-Surgeon. vice F.1 Staples. retirel. His comtnission us Assistant-Sorgeon heare date September inth, 1864 : Surgeon. March lst, Isis; and Surgeon-Kajor, Septentter Both. 1830. He servat in the Egyptian war of I882 in command of ho. 2 Hearer Companty, and was present at the action of Kassasia on Septealber sth. and at the battle of I'b-el-Kiebir (mentioned in respatches, promoted SurgeonHajor with relutive rank of Leutemant-Colonel. medat with elrsp, atid
 Surgeon-Major A. Morp\&上, at, present serving in Bengal, is directed to pro ceed to kingland during the present trooplng season, and is delailed for duly with troops.
Surgeon W. Halcapasi, M. B., on arrival from Bogland, is directed to do geueral duly in the Burthah Divislon; Madras commana.;
 Sullicherry, and acting Priucipal Medical Storekeeper, is appointed Civt Surenn of Kajahmundry, in succession to Sirrgeon-Major H. N. G. Archdal, Who Gias returned to the Military Department, but to continue to act a Indical storokeepen, unll relieved by Brigade-Surgeon li. B, Pearse.
Surgeon J. N, VAY, G\&rzel. M.B. Acting Chemical Eraminer, is appointed Civil ${ }^{\text {Surgeon }}$ of Negapatam, vice Surgeon T. IX. Iope, but to contlinue to act as Chemical Examiner until relieved by Surgeon-Major C.J. M'Nally? M.13. Surgeon H. Hzasmert, Bombiy Bolablishment, is placed on general duty in the Northern Division,
Surgeon-Majqr C. F. Ogilvie, M.J.. Bombay Fistablishment, has been grated leave out of india or one Jear min medieal certificate. © Sargeoh-Gefteral W J. Meori. C.I. W., Bomhay Establisument has retiren Irom the service from February 2 2th, nn a pension of, eysu. per anuum payabie in Englaod. ITe entered the scrvice November $20 t h$, 1850, and rose to be sur-feon-Gencial April lst, $\downarrow$ N45. He served with the Persian and at the capture of Bushire (medal with clasp),
of Bushire (medal with clasp), Pincertor, M.D. Bombny Establishment, is Deputy Surcean-General wat the Government of Bombay, vice Surgeonappointed $\begin{gathered}\text { arneral } W \text {.J. Mone }\end{gathered}$
Surgeon-Major Ji/G:i I'roner. Bengal Bstablishment, Civil Surgeon of Howrah, is appointed so he Civil Surgeoo of Darjeeling.
Surgeon T. E, Muore has been agmitted to the Madras Establishmient from November 2nd:

Surgeon-Major T. C. II. Spewcer, Madras Establishment, has returned to duty from sick furlough.
The Queen has approrta of the follnwing admissions to the Iudian Medical Serrice =-

To be 'Surgeon","laten Mareh 3Ist, 1887,-Bengal.-W. H. W. Eleliot, Javes Murrat. W. P. Clark, G. F. W. Braide, I. J. Marks, C. E. Sunder, M. A KER, A. R. Jolliffe, Andrew bughayas; P. O. W. Hatley, l. G. Fisoher, Whatam Vost, Johy Garvie, C. E. L. Gilbert, H. W. G. Maoneod, C. C. Misifold, and G. B. Jrutne. Madras.-W. G. Mceror, F. J. Crawforn,
 H. Karyey. Bombay.-C. H. L. Meyer, L. F. Cemon, Hfrbert Herbert, and T. D. O. Barry.
To the Surgeons, dated Oetnber 1st, 188T:-Bengal:-A. D. Roberts, D. M. pavinson. F. P. Maymard, J. C. Layont, A. II. Nitt, Albert Coleman, W. V. Weite, M.D., D.T, Lase, M.D., R. C. Mactatt, Wi H. E. Wondwright IV. J. BeCRAYAN, J. K. CLMAP, M.D., J. M. MACNAMARA, M.D., H. M.
 Brabazor. Marras.-W. II. M. Nahan, F.J. DFwas, Jolt, T. H. Griffith, J STRICLAFD, and T: W. STEWART.
Sorgeons G:B. Frence, W, R. Clabk, G. F. fW.Braide, M. A. Ker, A. R. Joliffee, P. O. W. Hailet, lo G. Fischer; W. Vost, J. Garvie, C.E. I. Gilf Jnlifffe, $P$. $G$. Hacleon, and C. O. Masifuln, al! of the Bengal FistablishBERT, have passed the examinatinn in Hiarlustant by the lower standard. Surgeon J. A. CeARK, late nf the Bengal Establishment, died at Ayr, N. B., on March 3 rd
March 3rd.
The undermentioned officers have leave of absence for the periods specified: Surgeon-Major T. Robissos, M.B., Bencal Establishment, for one year and 125 dars on private affairs ; Surgeon-Major G. M, J. Gress, M.B., Bengal Estahlishment, Surgeon Nafuraliat! to the T.M.S. Inrestigntor, for one vear on private affairs : Surgeon-Major $\mathrm{E}_{\mathrm{L}} \mathrm{P} \perp \mathrm{LMER}$, Bengal Estahlishment, Medical Ofticer 9th Native Cavalry, for one year on privafe affairs; Surgeon-Major.M.J. T.J. Blasioud, Jadras Establislunent, for six montis; Surgeon-Major J. Huster, MLaNOARD, Ladras Establishment, in uplical elarge of the 5 th Native Infantry, for one Madras Establibbment, in uuedical clarge ontablishment., Medical Officer, zoth Vative Infantry; for sir months on private affairs.

## THE VOLUNTERRS.

MR. JAMES HLTTER M.B., whd bas been Acting Surgenn to the Sth Volunteen Battalion Argil ind Sutherland Ilichlanders, (late the 1st, Argyll Volunteers) sluct January Mh, I8st, is now appointed Lifutenant in the same corps. Mr. Charles Dowsisg has been appointed Acting Surgeon to the brd Valmoteer Battallon Welsh legiment (late the 2nd Glamorgat), and Mr. Ford is appointed Acting Surgeon to the 21st Middlesex (Finshury
Surgeon-Commandant JANEE CANTLIF., M.B., has'tesigoed his commisaion in the London Division of the Medical Stafl Corps; his appolntment bore dato April Ist, 1883,

ARMY MFDICAL OFFICFRS AND THE SERVICE CLUB.
X. writes from the Juvlor United Service Clab, Loudon.S.W.: Twenty' candidatea of sarious ranka io the army and navy, from, aub-licutenant upwards, were up for elcotion to this ejub on February 25 th. Amongst the candidatea were smo officers of the Medical Staff, and with the exception of these were swo officers of the all the othera were duly elected, I know nothing pertwo affeers all the othera were blackballed afficers, but as they wero proposally or by repute of these two standing in the service, presumably there is pospd and acconded by nficers of standing in the service, presumanis there is nothearagainat them excrpt that they belong to the atedral scrvice. I bring the matier to vour notice as
exista even in club military lite.

## INDIA AND THE COLONIES.

INDIA
Stragon C. 'f. ADindios, Madica! Staff, who successfully established an ambulance association in Quetta last year, has now organised with much success a similar association under the patronage of Major-Geaeral D. MacFarlan (commanding the Sirhind Division) at Umballa. Dr. Addison's lectures on "First Aid", are, we inderatand, being attended by a large class.

A coumirree meeting of Lady Roberts's Homes in the Hills for Soldiers' Nurses in India was held on Friday, March Ind, at 37,
rincess Christian. Arrangements wore inade for developing the organisation with a riew of receiving further subscriptions. The amount collected since January 1st, 1888 , is $£ 1,108$, in which sum is included a donation of $£ 100$ from Iler Majesty the queen,

## HOSPITAL AND DISPENSARY MANAGEMENT.

TILE VICTORI DISPENSARY, NORTHAITTON.
The annual ruport presented at the annual meeting of the Northampton Royal Victorin. Dispensary, after stating that the Society now contained over 17,000 members, 6,454 of whom were paid up, and that there had been 3,000 fresh admissions during the year proceeded to:show that $£ 1,820,19 \mathrm{~s}$. 11d. had been paid to the five members of the medical staff as follows: Mr. Moxon,
 Mr.' Spurgin, 1362 6s. 3I. ; Mr. Rae, f595. At first sight this amount looked large, but this wis really not so, as 69,49\% atteadances had been made during the year- 42,542 at the patients own houses. Thus only $6 \frac{1}{4} d$. per visit or attendance was paid, hut still no complaints whatever liad been made. In addition to this, over 63,500 prescriptions were made up; and at the dispensary 500 permanent and 502 temporary teeth were drawn. Altogether there was upwards of £2,485 paid for ordinary members, and $£ 14810 \mathrm{~s}, 6$. by honorary members during the year, which, with a balauce brought forward, made the receipts $£ 3,815,1$ s. 7 d . The expenses of the institution were over $£ 2,576$ 0s." 5 d., which left in hand $£ 1,2391 \mathrm{~s}$. 2d., a rather larger favourable balance than last year,

## THE LEEDS GENERAL INFIRMARY

The annual report of this important institution contains some especially interesting features. The number of inmates for the year was 4,601 aganst 4,167 in the preceding year. The number of aut-patients was 23,000 . The average, cost of each in-patient was £2 I2s. 10d. The annual subscriptions had slightly fallen "off with, one most important exception, those from the working classes. The income from the subscriptions of the working men against a noble increase. It amounted to $£ 3,646$ for the year as showed an increas an subscriptions from other sources. and showed an increase of $£ 1,515$ over that of the preceding year. In
addition to this there had heen a gift of two ambulances from the work-people of Leeds, for which £398 was raised. A new semiconvalescent hospital will be opened in May, with accommodation for forty-two beds.' This is provided by the benefaction of Mr. North, who will defray the entire cost, which is something bver
'£5,000. A further requirement is for isolation wards for patients and those having infectious disase. It is pro violent erect a ner building for isolation, pathological, and out-pation purposes, of which the cost would not be less than £20,000. The receipts from. Iospital Sunday amounted this year to $£ 1,709$ as against $£ 2,101$ last jear.

## CHILDREN'S HOSPITAL, SHEFFIELD.

The Children's Hospital has been nadergoing alteration and enlargement, and at the anuual meeting, held on March 2nd, the repart stated that the new huildings would be ready for use by April. The buildings comprise boys' and girls' wards, which would hold fifteen beds each, isolating room, operating room, and suitable offices. They have been erected on vacant: land at the back of the old building, and are connected to the old block by a covered way. The huildings have becn so constructed that a second story can, if necessary in the future, be erected. The old for ont-patients, and the inside, and in future will be used onl staff.

## ROTAL BERKSUIRE HOSPITAI

The anmual meeting of the governors of this institution was enlivened by resolutions, of which notice had been given by Jir Leveson (iower, to the effect (1) that no two members of a firm or family be on the active staff at the same time, cxcepting unde special circumstances; (2) that no medical or surgical officer b more than twenty years on the active staff, or after sixty years o
age. These reaolutions had been prelnded by some rery sill anonymons lettera which have appeared in the local papers, ani there was a good attendance of governors in consequence.
quickly appeared, however, that Mr. Gower had really nothing to say of any, weight in support of his resolution, and the whole fecting of the governors, medical and non-medical, was evidently altogether opposed to laying down such restrictive rules, which, however applicable in great cities, where there is a considerable supply of, first-class, medical men and medical schools supplying young medical men aiming at consulting practice, for whom it is desirable to mako romo, hase a much more doubtful application to small toms, where thic precisely opposite conditions exist. The npshot of the whole matters discussed was that Mr. Gower's resolution found no one to support, it, and was only seconded as a matter of form by a gentleman who disagreed withit., The Royal Berkshire IIospital has long been known for excellent work, and for efficient arrangements, and the governors wisely thought that, when no case whatever was made out, it was better to leave well alone.

## MEDICO-PARLIAMENTARY.

## HOUSE OF LORDS-Friday, March ind.

Iunacy Acts Amendment Bill:-The Lord Cuangellori, in moring the second reading of this Bill, said that there really was nothing to explain with which the llouse was not already, fully acquainted, the Bill having been passed three times through their lordships' House without, any, substantial changes. It would be enough to recall shortly the leading points in the Bill, which were - - I. The introduction of a judicial authority for ordering the detention of a person as a lnnatic; 2, orders of detention to come to an end unless renewed; 3 , protection to medical men and athers against rexatious actions where they have acted in good faith; 4. restrictions on opening neve private asylums; 5 , yarigus amendments with a view to consolidating the Lunacy Laws. It would be remembered that the Bill was accepted by him from Lord Herschell, to whom it was handed down by Loril Selborne. While dealing with some subjects of a very delicate and controversial kind, it had been accepted ns a vnluable measure in all quarters, thongh, no doubt, regarded as in the nature of a compromise, and not indeed going so far as he himself might desire. It had already reeeived very full and careful consideration in their lordships House, and having been adopted at some stage of its history by each party represented in another place, it might be expected to be received in a like spirit there. If this House should pass the Bill in good time no blape would attach to the Ilouse or the Government if the Bill did not become law this session.-The Earl of Militown echoed the wish of the Lord Chancellor that the Bill might become law, and that no obstructive tactics elsewhere would prevent so important a measure from being added to the Statute Book. He regretted, however, that the Government had not taken steps to put an end to the scandals which were alleged to exist in connection with licensed houses. As long as what Lord Shaftesbury called "the evil system of profit" continued to exist, as long as the incarceration of a fellow' creature should result in profit to anyone, so long might they expect a continuance of the scandals to which he alluded. Ile noticed, therefore, with regret that existing licensed houses were not to be interfered with. The only way to prevent seandals would he by a thorough system of visitation, hut the present system could not be thus deseribed, the Lunacy Commissioners being too few in number to inquire closely into the cases of 80,000 lunatics. He faroured a schemo under which county authorities should establish houses for paying patients. Thie authorities, he felt sure, would be the gainers. There was a large number of persons in asylums who wero supported at the prolic expense, and who were able to support themselves: and if prorision were made for receiving paying patients at moderate rates, the expenditure of the counties might be considerally reduced. The Bill was then read a second time.

Tuesday, March cth.
The Phamnacy Acts Amendment Fill.-Tle IIouse went into committee on this Bill. - The Farl of Millrown moved to insert the following clanse:- " 1 shall be unlawful for a duly-qualified keeper of an open shop for retailing, dispensing, or componnding poisons to keep open shop in more places than one unless he shall engage and employ at each branch shop a person who would himsolf be a duly qualified keeper of an open shop for retailing, dis pensing, or compounding poisons, and such person is bona fide
occupied in such branch shop; provided always that each jartiocr in a duly qualified partnership may keep a separato open shop for retailing, dispensing, or compounding poisons. Frery keepor of an. open shop for ..retailing, dispensing, or compounding poisons acting in contravention of the preceding scetion sladl for all such contravention be liable to pay a a penalty of $\delta_{5} 5$, and the said penalty may be sued for and recoverod in the manner provided by the Pharmacy Act, 1852,..for the recovery of penalties under that Act." Me pointed out that it was the practice of druggists to open branches and put unqualified persons in elarge of them. This uractice was distinctly in contravention of the Act of 1868, hut it had been held that inder the Act, prosecutions could not be sustained.-Lord Merschell pointed out, that the amendment only dealt with branch shops, and there was nothing in it to prevent the pros prietor absenting himself entirely from his chief establishment and learing it, in charge of some, unqualified person-After bome further discussion, the amendment was agreed, to, and the, Bill passed through committee.

## HOCSE OF COMMONS:-Friday, March ind.!

Fon-resident Parochial Ifedical Offecrs.- Sir W: Fosxer asked the. President of the Jocal Government Board whether it was a general rule to appoint in country distriets parochial medical officers who were resident in the districts ; and, if. so, why this rule had not been followed in the Waters Upton District of the Wellington Union, in the county of Salop.-Mr. W: LaNg, in repls, stated, that as a general rule guardians, when the circumstances admitted of it, appointed as district medical officers medical practitioners who resided in the districts for which they were to act. In eases sucb ás that referred to the appointment was annual, and the guardians in Decemher ' Jast, by 15 votes to 3. determined to reappgint the nou-resident, practitioner, who had held the office for ten years with, it was stated, perfect satisfaction to the guardians and to the patients. The officer was daily in the district, and it was a condition of his reappointment that he should have a surgery in the district, where he was to attend at least two days a preek. The only objection to the appointment had beeu made by the unsuccessful candidate, who had been resident in the district about fifteen months. Under the circumstances the Board assented to the appointment.
Mondry, March sth.

1. Pasterr's Erportation of Microbes.- $\ln$ reply to Mr. Howard. Baron H. DE Wonsis said that Iler Majestrs Government could not interfere with the transmission of microbes by M. Pasteur to Australia. The Australian Government Tras fully amare of the objection which had been raised as 'to the possibility of the proposed method proving injurious to other animals besides those it was desired to exterminate. Whether or not that objection iras woll founded he offered no opinion.

## OBITUARY,

## THOMLS ELIT.,ARD CURLNG, F.R.C.S., FR.S.

 Consulting Surgeon to the Londorn Jrospital.We regret to announce the death of Mr. T'. B. Curling, for many years, surgeon to the London Mospital, which took place at Canines on March 4th, after a short illness.

Mr. Curling. was elected throngh the influence of his uncle, Sir William Blizard, nssistant surgeon to the Iondon Hospital at a very early age. He was little more than 21 when he obtained the appointment, and for some years rumour states that lie found it by no means a pleasant office, owing to a certain feeling of opposition which existed in the minds of his senior collengues. He lat a long periol of serrice as assistant, and afterwards the twenty rears permitted by the rules of the hospital as full surgeou.

Although never what is called "Irilliant," either as an operator or a teacher, he was alyays painstaking and accurate. He was a just and upright man in all the departments of life, and alsays willing to assist those whom he thought deserring of help, and to give credit where it was due. 'His clinical experience, had beeu very large, and in Jater years his opinion in consultation was always much ralued by his colleagues.

In person Mr. Curling was tall and thin, and never bore the appearance of strong health. During the later years of his life, and
especially nfter the death of a son to whorn he was much attached, he became extremely pale, and so feeble that fears were entertained that he was the sulbject of pernicious anamia. Mr. Curling became a Member of the College of Surgeons in December, 183:, and was clected an honorary Fellow eleven years later in December, $1 \$ 43$.
The most important perhaps of his original observations was the discovery of the association of uleers of the duodenum with harns on the skin. His paper on this strbject was published in 1842. 1 lis larger works, however, on Tetanus (a prize essay), on Diseares of the Testis, and on Disenses of the Rectum, abound in careful elinical research.
During the early part of his life Mr. Curling resided in Broad Street, City, but about 1858 he remored to Grosvenor Square. alleging to his professional friends that he knew where his best patients came from. At this date his practice was chiefly in reference to diseases of the testis, and this was possibly nerer a very successful speciality: It afterwards developed more in the direction of the rectum. Mr. Curling was a Fellow of the Royal Society, and this honour, like others, had fallen to him early in life. He had been an Examiner at the College of Surgeons, his term of office commencing in 1871. He was clected to the Council of that boty in 186t, in the same year with Mr. Le Gros Clark, and he was President in 1873. In $1 \times 34$ he carried off the Jaclssonian prize for his essay on "Tetanus." Mr. Curling had studied his profession widely, and took a deep interest in it. He never did slorenly work, but took great pleasure in collecting information on any new topic that had claimed his attention. Althongh his practice hecame erentually somewhat specinl, yet that his tastes were by no means limited may be shown by reference to the papers which he wrote for the Medico-Chirurgical Society. 11 is first, in the twentieth volume, 1837, was on Atrophy of Bone. Two years later he wrote on Congenital Absence of the P'ericardium, and on a case in which worms were roided by the urethra. In the twenty-third rolume there was a paper on what could then be described as a rare species of hydatid found in the human liver, the echino-
coccus bominis. In rolume twenty-five was his original coccus bominis. In rolume twenty-five was his original observafew years later he was investigating the literature of cases of hypertrophic development of the digits in connection with a remarkable example of it then under his observation at the London Hospital. Of these cases easts are to be found both in the London Hospital:Museum and in that of the College of Surgeons. In the year 1844 we find him again contributing to the Society's Transactions After these papers follows one on a fatal case of large hrematocele. and in 1850 a very important report on "Two Cases of Absence of of the Thyroid Body and Symmetrical Swellings of Fat Tissues at the Sides of the Jeek, connected with Defective Cerelral Development." In this paper we bave in some sort the germs of modern doctrines as to the association between absence of the thyroid and general changes in nutrition (myxeedema of Gull and Ord). This respectable list by no means comprises all Mr. Curling's papers in the Merico-Chirurgical Transactions, nor does it cxhaust their rariety as to subject. In the thirty-six th volume he wrote on Cystic Disease of the Testicle, and next year on a case of Traumatic Aneurysm of the Ophthalmic Artery, consequent on Injury to the Head, cured by Ligature of the Common Carotid. IIs last. and perhaps his most important, paper was in the year 1860, and was entitled An In-
quiry into the Treatmen tum by Operation, founded Congenital imperfections of the Recnine of which occurred in the practice of the anthor.

It is about fifteen years since $M \mathrm{Ir}$. Curling resigned his surgeoncy at the London Ilospital, under the rule of the institution, and very much to the regret of his colleagues. He was then elected consulting surgeon, and ho remained for several years longer aetively engaged in private practice. Declining heatth induced him at length to leave London, and for some years past le had livel at Brighton, and had retired wholly from professional pursuits.
A not uninteresting reminispence of Mr. Curling and of a past generation is the circumstance that it was through him that a paper on the possibility of seeing the fundus of the cre and the usefulness of such investigation as an aid to diagnosis was presented to the Royal Medical and Chirurgical Society. This was in 1846, Mr. Curling heing then assistant-surgeon to the London IIospital, and Mr. (nmming, the author of the paper whicl) thus foreshadowed the ophthalmoscope, one of its house-surgeons.
Mr. Curling was by nature somewhat cold, and did not lay him-
self out either to make friends or to obtain praise. His character was, however, one of singular honesty and straightforwardness, and he had a kind heart. He secured and kept the deep respect of all who knew him.

## RICKARD PATRICK BURKE TAAFFE,

M.D., M.S.Lond., E.R.C.S.Evg., S.S.C.Loxd ant Camb.

Dr. TaAFFE, medical efficer of health for Brighton, died at his residence in that town on Saturday, March 3rd, in his 60th year. 1lis last illness, which lasted for nearly four months, was of an obscure nature, and it needed a post-mortem examination completely to clear up the cause of death. This apparently resulted from exhaustion accompanying the formation of a feetid urinous abscess which had its origin from perforation of the upper dilated portion of the left ureter, which was plugged about two inches and a half from the kidney by a small calculus. The patient was under the able care of Mr. Jowers, and was seen in consultation by Sir James T'aget.

Dr. Taaffe was horn in the west of Ireland, but came to England early in lifc. He received his professional education at st. Bartholomew's, and, as will be seen by the heading of this notice, distinguished himself by taking the lighest qualifications in medicine, surgery, and sanitary science. He came to Brighton in 1856, and entered into partnership with the late Sir John Cordy Burrows, upon the dissolution of which he engaged in independent practice. In 1858 he was appointed Assistant-Surgeon to the Brighton and Sussex
Eye Infirmary, with which institution Cone Infirmary, with which institution he was connected as Consulting Physician at the time of his death. Dr. Taaffe in
1874 became the first medical officer of health for Brighton and the important duties of this office he carried out withton, and attention until his last illness laid him aside. He was Precident of the Brighton and Sussex Medico-Chirurgieal Society in President of the Section of Public Medicine at the annual 1877-8, of the Association lately held in Brighton, and in 1881 tol meeting minent part in the proceedings of the Brighton Health The Royal Alexandra llospital for Sick Children owes its existence almost entirely to the sulject of this notice, and he at all times took the lireliest interest in its well-being. It was in connection with the opening of this hospital that the Prince and Princess of Wales, with their daughters, visited Brighton on July 21 st, 1881; and on this oceasion Dr. Taaffe, upon formally asking the Prince to declare the building open, presented His Royal Highness with a gold key made to hit the principal lock of the bulding. Shortly after the opening of the new hospital Dr. Tanffe
was presented witl
 Taaffe leares a widow and two sons to mourn his loss.

JOHN WIITE, M.D.Geas., L.F.P.S.
Dr. Joun White, a well known practitioner on the south side of Clasgow, died on March 2nd, of inflammation of the lungs. A native of Kirkwall, he studied in Glasgow University, where he wns for a time Demonstrator of Anatomy under the late Professor Allen Thomson. In 187 the was President of the Southern Medical Society. He died at the age of 57 , and leaves a widow and grown up family, the eldest son being a recent graduate of Glasgow, now in practice in Balfron.

## UNIVERSITY INTELLIGENCE.

cambinidge.
Ir is worthy of note, is proving that Cambridge medical students take their full share in tho activities of the University, that the stroke of the University boat, Mr. J. C. Gardner, of Eimmanuel, is stulying medicine at the Cambridge School.
The Council of the Senate has reported against the proposal to grant the degrens and membership of the University to women.
Professior Machister is nominated an elector to the l'rofessorship of Chenistry.

Brussels.
To the Jist of names of gentlemen who passerl the Doctorate lixnminations of the Unirersity and were admitted to the degree of M.D. published in the Jocrnal on February 2ath, p. 45 , should be added G. B. Flux, L.S.A.

# PUBLIC HEALTH <br> POOR-LAW MEDICAL SERVICES. 

ILealth of English Towns.-During the week ending Saturlay, Mareh 3rd, 6,121 births and 3,875 deaths were registered in the twenty-eight largest English towns, including London, which have an estimated popnlation of $9,398,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had been 20.9 and 21.6 in the two preceding weeks, was 21.5 during the week nnder notice. The rates in the several towns ranged from 13.4 in Sunderland, 14.3 in Bradford, 16.0 in Hudderstield, and 17.5 in Bolton, to 25.5 in Derby and in Cardiff, 25.7 in Manchester, and 34.2 in Blackburn. The mean death-rate in the twenty-seven provincial towns was 21.2 per 1,000 , and was 0.7 below the rate recorded in London, which was 21.7 per 1,000 . The 3,875 deaths registered during the week under notice in the twenty-eight towns included 366 which were referred to the principal zymotic diseases, against 405 and 429 in the j two preceding weeks; of these, 136 resulted from whooping-cough, 59 from scarlet fever, 42 from measles, 39 from "fever" (principally enteric), 37 from diphtheria, 28 from diarrhea, and 25 from small-pox. These 366 deaths were equal to an annual rate of 2.0 per 1,000 ; in London the zymotic death-rate was 2.3, while in the twenty-seven provincial towns it areraged only, 1.8 per 1,000 , and ranged from 0.0 and 0.4 in Halifax and Sunderland, to 4.4 in Sheffield, 4.5 in Wolverhampton, fatality in Wolverhampton and Plymouth; scarlet fever in Cardiff and Blackburn; whooping-congh in London, Norwich, Leicester, Bolton, and Wolverhampton; and "fever" in Cardiff, Derby, and Nottingham. The 37 deaths from diphtheria in the twentyeight towns included 24 in London, 5 in Manchester, and 2 in Sheffield, Of the 25 fatal cases of small-por recorded during the week under notice 21 occured in Sheffield, 1 in Leeds, 1 in Manclester, 1 in Nottingham, and 1 in Bristol. The Metropolitan Asylums llospitals contained 13 small-pox patients on Saturday, March 3rd, of which 7 liad been admitted during the week.' These hospitals also contained 1,295 scarlet fever patients on the same date, against numbers steadily declining from 2,600 to 1,309 in the thirteen preceding weeks; there were 84 admissions during the week. The death-rate from diseases of the respiratory organs in London was equal to 5.9 per 1,000 , and was slightly below the average.
IIEalth of Scotch Towns,-In the eight principal Scotch towns, 825 births and 592 deaths were registered during the week ending Saturday, Mareh 3rd. The annaal rate of mortality in these towns, which had been 22.5 and 22.6 per 1,000 in the two preceding weeks, further rose to 23.4 during the week under notice, and exceeded by 1.9 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotcl towns, the lowest rates were recorded in Greenack and l'erth, and the highest in Paisley and Glasgow. The 592 deaths in these towns during the week under notice included 66 which were referred to the principal zymotic diseases, equal to an annual rate of 2.6 per 1,600 , which exceeded by 0.6 the mean zymotic death-rate during the week under notice in the large English towns. The highest zymotic rates were recorded in Edinburgh, Glasgow, and Leith. The highest proportional fatality of measles occurred in Edinburgh and Leith, and of whooping-cough in Glasgow and Leith. The 9 deaths from diphtheria recorded in these Scotch towns during the week inclnded 2 in Paisley and 4 in Clasgow. The mortality from disenses of the respiratory organs in these towns was equal to 6.3 per 1,000 , against 5.8 in London.

 town districts of Irelands were equal to an annual rate of a.d per 1,0on, Ane lowest rates were reeorded in Londonderry
and Lisburn, and the lhighest in Galway and Limeriel. The death-rate from the principal zymotic diseases in these towns averaged 4,0 per 1,000 , and was highest in Xewry and Listurn. The 230 deaths registered in Dnblin during the week
whinder notice were equal to a rate of $3+0$ per 1,000 , which considerably exceeded the rate recorded in nny recent week. The 230 deaths included 25 from the principal zymotic
diseases (equal to an annual rate of 3.7 per 1,000 ), of which 6 were referred to whooping-cough, 5 to scarlet fever, 5 to "fever," 3 to measles, 3 to diphtheria, 2 to diarrhoea, and 1 to small-pox.

## POOR LAW MFDICAL OFFICERS' ASSOCIAT1ON.

At a meeting of the l'oor Law Medical Officers' Association, held at their rooms, 3, Bolt Conrt, Fleet Street, on Tuesday, March 6th, the ease of Mr. Marshall, of Mitcham, who has been called upon to resign his appointment to the Mitcham Schools for alleged insuffcient attendance, was fully discussed, and it was considered by, the Council, from the evidence before them, that the charge (even if proved) was not of such a nature as to warrant compulsory resignation of a public servant after thirty-two years' continuous service. The Council, therefore, passed a resolntion that their secretary shonld write to Mr. Marshall, asking him to lay his case, before the Local Government Board.
PAYMENT FOR MEDICAL ATTENDANCE IN SANITARY HOSPITALS. Nexo writes: Is it legal for a local Board (nrban sanitary anthority) to em-
power to attend and pay their medical officer of health for medical attendpower to attend and pay their medical officer of health for medical attend-
ance on a person suffering from an infectious disease, who has been removed to the hospital provided by the local Board medical officer, not a Poor Law medical officer?
** It is no part of the duties of a medical officer of health as such, to act as medical officer of an infectious bospital provided hy his Sanltary Authority, and to attend patients therein, unless he has specially undertaken to do so. Under Section 131 of the Public Health Act, $\mathbf{1 8 5} 5$, the Sanitary Authority have power to provide medical attendance, etc., for patients in their hospital, and they can if they see fit, appoint their medical officer of health to act as medical officer of the hospltal, and pay him a reasonshle sum for his services. Such arrangements are very general. Sometimes an annual honorarium is assigned, whilst in other districtsithe payment is by a fee for each case.

## SMALL-POX IN SHEFFIELD.

Medical Officer of Health.-We do not see the least reason for doubting the accuracy of the report to which you refer. It has uo doubt heen prepareab with due exactness, and the statements it contains are in accordance with previous experience. See Report of medical officer of Local Government Board for 1881.

## BIRTHS AND DEATHS.

Dr. W. IlffFe (Derby) writes : In your statistics relating to the public health for the rear 1887, and published in the Jourval of March 3rd, with regard to Derby. I think you have omitted the registered number of births and deaths for the week ending December 31st, 1887, as hoth births and deaths in your list are below what we make them here. if this be so, does the same mistake apply to the whole of the large towns given by you?
*** As stated in the first paragraph of the article】referred to,"the, statistics for all the towns, including Derby, are a summary of the weekly returns of the Registrar-General, and relate to the fifty-two weeks of 1887, ending Saturday, December 31st. The Ggures relating to the last week off that year have, therefore, been duly included thronghont.

## REPORTS OF MEDICAL OFFICERS OF HEALTII.

St. Lcke, Middlesex (Population, 51,364 ).-Dr. Yarrow always takes pains to secure accuracy in his returns of vital statistics, aud in his report for 1886 he shows that the death-rate for the year was 22.8 per 1,000 . This rate, though slightly in excess of that for the previons year, has been corrected, as far as possible, by deductions for non-parishioners, and by the addition of parishioners who died in outlying institutions. The annnal returns have for some years shown a steady increase in the mean duration of life in this parish, evidenced by the larger number of deaths occurring amongst persons at an adranced age; and, in 1826,258 , or 22.0 per cent. of the total deaths were among persous orer 60 years of age. There was also considerable improvement in the returns of infantile mortality, the deaths of infants being at the rate of 46.4 per cent. of the whole, as compared with 55.0 and 57.3 per cent. in 1885 and 1884 respectively. The deaths registered from zymotic diseases were as follows: measles 39, scarlet fever 5 , diphtheria 4 , whooping-congh 32 , fevers 6 , and diarrhoa 68 . The deaths from diarrhea, with five exceptions, were of children under 5 years of age. There were in this year no cases of small-pox or typhns fever. The returns in all the principal zymotic diseases may be regarded as exceptionally farourable; there were fewer cases of siekness under each leading, and the total number of cases was less. The vaccination returns show that only 4.7 per cent. of the children whose births were registered in the parish during 1886 remained unaccounted for as regards vaccination at the time the returns were made, and doubtless many of these unprotected children have since been raccinated. The record of the samitary work of the year showa that the health-officer and his ataff hare been fully occupied.

## il il MEDICAL NEWS

昰 1 (1)

## Viedical vicificies.

The followitg Vacancies arvinumonded:
brifisil seimans itospimwi; Cronstast, st: Petershirg. - Resident Medi-
 ppplications to H., M, Consul, St, Tetepphurg
CILE QE ABEEDEEN, Medical Otticer of IKalth. Salacy enoo per annum
-.Applications by March 14th to W: Gotfon. Esq. Town Clerk. Atuerdeen:
CLOCHER CNION Kedical' Ofrcer, Aiphthedo Dispensaty 'Satary, Ells'
per aunum, and fees. 1 dppliditims to Komorary Secretary: of Committee. Elewtion on March.
 7i, two per anamm, sith botro, etc, Applications by March,roth to the Medi-
1i dat Supetintenderit.
EAST LONDOX HOSPIRAL POR UHMYREN, Shawell, H Resident Clinical Assistant. Board and lodigtag Applications by March 22nd to the Secretary.
GLENMCICRE PAROOHIALZBOARD, ; Parishes of Glenmuidk Tullick atid Glengaim,-Medical Othcer. Salarr, fla per. annum, titpplicatione: by
March 200 h to the Inspactor of the Poor, Ballater. $\boldsymbol{*} 1,710 s$ lom
HOSPITAL FOIE CONSUMPTEN ANDUDISEASISS OF THE CHEST
 Secretary
LEIOESTER INFIRMARY'AND FEVER HOUSE: LAssísfant Jouse-Shrgeon
 nis 2t, Friar hame, Leicester.o.
LHFERPOOL DISPFNGARIES, Two Assistants Surgeans, Salary, fig per anoum, with board, lodging etc, Applications by March

 3 Clerirs, Poor-Law Ottice, Ludlow
MALE LOCK. HOSPITAL:-Dean. Street, Soho:-House-SurgéonnSalary, f50 per annum, with Secretary, Lock Hospital, Harrow Road, W.
OWENS COLLEGE: Marthester - Protessor' of Obstetrics. Applications by
ROSSSHIRF, Parish of Revis and District-Resident Medical Officer. Salary, 262 per annura. Applications by March 15, to R. J. Eillandere, Fisq., Fortrose'.
ST. HELENS FRIENDLY SOCIETIES MEDICAL MD ASSOCLATIONK:Resident Medical Officer Applications by Alarch
UNIVERSITY OF ZDENBURGH,-Aditional Examiner in Botany- Sáary travelling expenses to a non-resideut of Edipuurgh. Applications by March 15h, to the Secrefary.
WEST, LONIDON HOSPITALa, liammersmith Read,-Clinical Assistants. Appllcations to Secretary
YORK COUNTY HOSPITALikedasistant ILouse-Surgeon. Salary, £ão, with York and lodgingo dpplications by March Iith to tho Secretary, R. Holtuy Esq., 5, New Street, York.
-

## MEDICAL APPOINTMENTS.

Ballafer, J. D., L.F.C.P., M.R.C.S. appointel Resident Acconcheur to St Thomads Hospital.
BrDerfil.
BEACREK, A.'B., M.B; B.S., M.R.C.S,i I.R.C.P., L.S.A. appointerillouseSurgeonlto the Belgrave Il ospital for Children, S.W
 !, Thprontis Ilospitalo:

 Thonarad Monplat.
 1t. the Mindlesex Mosputal.
 llousw lhyqician to st. Thomss's Mqspital.
 Thomhas: 11 osplest.




 Dniruigho Skye mice br Camplell, deceaset.
 Dixosis: On the Bournimonth Friendly Sotieties Ilealcat Association.
Dtakisit. T. A., E.IB.C.F.. If TLU.S., apminterl Clifieal Assistant In the SpeciAl Thepartimene for Ihiseasus of the skta at St. 'Thomas'a II ofyital.
Haisek, W. Dacfl, M.B./ C:M.Hdin, appointed Mudical Ofticer to the Callieries

 to the Fast Suffolk lospital, Ipswich.
Marsis W.J., M.R.C.S. R.ILC. P., arpointed Astatint Inise-Sutgeon to the Ifrminghm (icurthi H लapital, vice W. Charnterlain', whigner.

 L.S.A., resigned.

IIAWrins, F. S., B.A., M.B., B.S.Oxon., F.R.C.S., appointed liouse-Surgeon to
 Ilospital.
Oisn, E. F., appointed Medical Officer on the Cnolrain Dispensary, Monnt
 oLe, lenry, M.D.Lond, M.R.C.S, Fug, appointed Surgical Registrar amd Anesthetist to the National Orthoprade Hospital, vice A, W. Wheatley M.B., M.IR.O.S. Kng.iLLSA.; resignerl.-

 resigned..
LANKETER Frank, LIC.P. Lond. M.F.C.S. L.D.S.Eng. appointed Honse suifgeoil to the National Dentat Hospital, Great Portand street. W., tre Charles A. Pattinson;iL.D.S. Bug.; resignedh
 pprtment for Diseases of the kar at St. Thpmas's.Hospital. " coil St M RTIN, Friendu Societiey Medical Associat ion
 $\Leftrightarrow$ Conege Hospital!
 Dispensart. Athlone Union, vice H. Y.\% Kelly, L.R.C, P, Edin., F.S.C.S, resigned.
 ruomas's Hospita!
ORt W. W. M.A." M.IF:, B.S.Oxon a.R.C.S. (Exta.), appolnt da Eesident House-Plysieian to Sth Thomas s Ilopitar.
 fesigned
 Sansoy H. A., fR.C. P, M, R.C.S, appointed, Clipical. Asfistaut in the Special Department for Diseases of the Skin at St, Thomas's Hosuital.
gotry, R, V!, L.R.C.p! M.R.C.S., appointed Assistant Iloase-Sargeon in St. Triónas's Hospitalit!


 Hospifal, Nottingham.
Tonking, J. H., L.R.C.P., M.R.C.S., appointed Clinical Assistant in the Special Department for Diseases of the Fiar at St. Thomas's Hospital.
Wrliams, A. II., M.A. M.B., B.C.Oantab., appointed Honse-Surgeon to Guy's Hospital.
W゙y.riak Lonel M.R.C.S., appointed Senior Ilouse-Surgeon to the, Iark County Hospital, vice E. G. F. Morris, M, R.C.S.Eng., resigned,
UnIVERSITY CoLLEGE-The amnal general meeting was held at the college, on Werlnesday, February $29 t h$, Mr. Eric Erichsen, F,R.S., President, in the clair. In moving the adoption of the report, the Chairman alluded to the proposed Albert University of London, and said. it should be fully understood trat University Callege was not in any way animated by hostility, to the existing University of London. The following were admitted life-
 1. S. Leeşly; Professor II, S: Foxwell: I Professor D. Olivex; K.R.S.; Sir'J. N. Douglass, E.R.S.; Mr, W. H. Pexkin, Ph, D., E..R.Ss: Mr, M. II. S. Cuny rghame ; Mr. L. II. Courtney, M. E. ir and Mr. Eu Mannde Thompson, LI, D. Whe following vere eleoted fellors of the college: Ar, Walter Asommer, B.A: Miss Louisa Macdonald, M. A.: Miss Alice L. S. Riding, Ml. A.; Mr. J.J. Rowell, M.D, ; Mr. S Rideal, D.SC,; Mr. R. D. Roberts, D.Sc.; and Mr. P.D. Turner, M.Ds
TAE' Portsmóth "HOspirat, - The report présented at the arnual meeting of the Portsmouth Mospltal showed that the work'110f the hospital had been well maintained! The number of lin-patients forithe year had been 773 , exceeding the tatnl of 1886 by10. "13 the out-patient department the cases trented numbered S.296, and dustalties $1,427$. The Commlttee had, after due consideratlon, arranged to receive prohationers for training as'nurses, and nlso to mainfain ustafi of competent ilurses to attend private fumilies:' Dr. J. Ward Cousins and "other gentleman present expressed greht ragret at the retirement of the Chairman; the Rov. Eif
I. Grant. Dr. Cousins pointer ont that in the improved lospital there
whald-he lied space for at least ninety-iglit patlents, nind in the children's department for thirty-six.
TNEW Aftimeal LibtiAng in l'arisi- il library in connection with the pathological maseum of the Hôpital St. Lauis has just been opened. It contains the most important works in every branch of medical science, and numerous" Frencly and "foreryu medical. Journals. It is open free to all practitioners and students of medicine." French hnd forcign pliysiciars's're invited to conttribite their own trorks to this library, the foundation of which is due to the effarts'of the medical and surgienlstaff of the IIopital St. Lours, and which is utader the patrondge of the faministration of the'Assitante Publinie.

Tife Royal. albert orphan Asylum, Bagishot.-A pati of the good work aimed at in any educational establishment, for children should be to aid grow th and development." The following statistical summary speaks well for the care, taken of the children at the Royal Albert Orphan Asylum; it must, be borne in mind that these children are taken from among the very poor, and have often been ill-cated for previous to their admisstion to the institution.. The following figures have been carefulty.. prepared and checked by Mr. Griftin, Superintendent.

$$
\begin{aligned}
& \text { Annal increase in height and, weight as shown for a perior of } \\
& \text { about two years: } \\
& \text { Height......... } 1 \frac{1}{4} \text { inch. } \\
& \text { Height.t....... }{ }^{\frac{1}{6}} \text { inch. } \\
& \text { Weight Boys. } 8 \frac{8}{2} \text { 1b, aJlld } \\
& \text { Weight...... Girls } 1 \mathrm{~b} .
\end{aligned}
$$

Edinbergh New Town Dispensary:- $A$ classification of the diseases from. which patients were suffering, andifor which they were treated at Edinburgh New Town Dispensary, shows that diseases of the respiratory organs, including consumption, numbered 1,286 ;' diseases of the digestire organs, 1,030 ; other diseases termed general, 1,030 . There were 1,125 vaccinations and revaccinations, 291 cases of midwifery, and s11 extractions of teeth. There fere, risited at their homes during the Yefar 2,310 patients. At the annual meeting of the subscribers held on Monday, and presided over by Dr, J. T Mowbray, M.S., the reports containing the above and other details were read and approved.

Grants to Uyiversity Colleges. - A deputation consisting of Dr. Wace (King's College), Sir George Young (University College), Professor Ramsey, Mr. Garnett (Newcastle), and Mr. Clowes (Nottingham), had a private interview with Sir William Hart-Dyke at the Edication Department, Whitehall, with'reference to grauts in aid of Uniyersity Colleges, , Sir Joba Libblock, who introduced the depitation, lasked whether the; Government had made up their mind to make a grant for University Colleges in atcordance with the liopes bield out by the Chancellor 'of the Exchequiet last Year. Sir, William. Hart-Dy hise having discussed, the matter in detaits with the deputationt, promised to give them /an naswer shortly

Mir STDNE STEPHENsor, M.B, medical officer in charge of the 'ophthalmic cases in the' seliools of the parish' Lof Lambeth at Norwood, has been: reappointed for: a further term of theer months. The special arrangements far the treatment of ther Eye cases in, the. Schoals have MqW, सxisted for fifteen Honthis The numbers inder treatment afe now less thay bley hayer been since Mr. Stephenson's appointment: tho acute cases elist the infirmary inmates heing coraposed chieftio of chroinic dind intradtable cases of granular lids, which tequire a long time and much focal trentment to effect a oure.
 trates have suggested that $\pi$ meeting 'of 'magistrated he called to make a representation to the Home "Secrettiry on this sinbject,
suggesting that, in viet of the freque suggesting that, in viett of the frequent improper use of firearms, restrictions should be placed upon their sale, especially to children
 embodying the regulations.
 Edin,, has for the second time received a Government grant for syocessful waccination iu the lst Kirkoswald district of the Pearith Union. - Dr. R. Harver Hilhardihas received for ther second tine the Goveriment grant for effient raccination for the tyldeligury District of the Aylosbury Unipm

 Everereech, kath, who has been in the habit of supplying niilk







Small-Pox and Pregnaxcy--In Il Morgagni for Decembet, 1887. Dr, G, Sangregorio publishes some statistics which he has collected from the recoirds of the 'matl-por' depart indent in connection with the Ospedale. Maggiore, nt Milan, for the years 1884, 1885, 1886, and the first half of 1887 , which show the special gravity of small-pox in pregnant women; bath as regards the mother and the fotus. Ont of a total of 72 cases, there were 31 miscarriages, und 26 deaths; the former being thus about 43 , and the latter a little bver 31 per cent. Among these 72 cases there were $\tau$ of varioloid, with 1 miscarriage, and no death ; 40 of discrete rariola, with 10 miscurriages and 3 deaths; 22 of confluent small-pox, with 17 miscarriages ( 77 per cent.), and 29 deaths ( 19 per cent.). Lastly, in 3 eases of hremorrhagic rariola, there. were 3 miscarriages and 3 deaths. From these figures it appears that the prognosis is farourable in varioloid, fairly good in discrete variola, had in the confluent form, and hopeless iu hæmorrhagic small-pox.
This French Association for the Advancement of Science has made the following grants for purposes of scientific research: 1,000 francs ( $£ 40$ ) to 31. Topinard, to aid. him in completing his map showing the colour of hair and eyes in the different departments in France; 100 francs (£4) to Dr. Manrel for his researches on'the causes of paludism; 200 francs ( $£ 8$ )'to Dr. Léon Petit for the publication of, the works of Jean Méry; 500 francs ( $£ 20$ ) to M.' Turquain for the publication of a statistical map of the French population.
A Short Route to Bournemouth,-On Monday last the direct lineito Bournembuth, which shortens the journey to this popular home health resort by about forty minutes, was opened, and a number of gentlemen accepted the invitation of the railway company to visit Bournemouth on that occasion, a special train being placed at their disposal.

On October 15th, 1886, 3,966 students were registered in the Medical Faculty of Paris, and 582 began their professional studies on that date, of whom 479 were French and 103 foreigners. Amonig the 'latter there were 20 Americans, 20 Serviqus. 11 Roumanians, 11.Turks, with a sprinkling of several other nationalities: Fleven women ( 10 Russians and 1 Greek) have entered as medical students.

Ix is proposed by the Manchester Medical Society, in consequence of the approaching departure of Dr. Cullingworth to London, 'to mark their sense of his services for manr years past by presenting him with a suitable tedimónial at a dininer which will be given at the Queen's Hotel, Manchester, on Thursday, March 15th, at 7 P.M., at which Dr. DDreschfeld, the President of the Society, will preside "I
THE Commitee, charged by the Belgian Academy of Medicine to report on pablic experimerts in lypnotism, lias come to the conclasion that they are dangerons, both morally, and physically, and recommende the prohibition of thend

Dering the scholastic year $1 \$ 36-87,624$ persons received the degree of "Doctor of Medicine" from one or other of the French Medical Faculties.. Of these, 358 graduated at Paris, 114 at Boxdeatax, 64 at Montpellier, 48 at Lyons, ${ }^{2} 6$ at Nancy, and 14 at Lille.

Mas. LaNbERT, of Barnsley, has offered to build a fever hospital for that town at a cost of $£ 4,000$.
The Rer. Dr. Dallinger, LL. D., F.R.S.. who for some years has held the post of Governor of Thesley College, has resigned. Lis departure is felt to be dist inict lass to the tombor sheftield.

Royal College of Surgeoss of bighand. - The following gentlemen, having passed the hechssary examinations in Surgery, and having since obtained, Medical qualifeations. Were, at an ordinary ineeting of the Council on March Sth, admitted: Member: of the College.
Gi. Sparar: L.S.A: , Albert Tdrrace, Moor. Park, Priston; and O. E. Thomas,
The following geutemen having, passed the necessary examinations, tere, it the saide méting, adnitted Licentiatés in Dental Surgery.
D. H. Harris, 84. Hedfond Square. W. C.: H. G. Henry, 38. Wellingtori Squaré, Hastings p FiJ.Darknster M.IR.O.S. Kngd, High Street: Lelcebter: R. F.



## MEetings of societies during the NERT WEEK.

## 310NDAY.

Royal Colzeot of Suramons op Exitand, P.m. - Prolessor Charles Stewart: On Locomotion and Aheu Phenomena (Lecture 1).
 Canses of Failure to Find the Colon in Lumbar Colot Common how they msy the obriated. Local Disease?

## TEESDAY.

hoyal Collegn of Physiciaxs op London, 5 p, m.-Dr. W. J. Mlekle: The Goulstonlaa Lectures : Lectora III. On Insanity io Relation to Cardiac Disease and Phthisis.
Royal Mfical and Chiatrgioal Society, 8.30 p. Mr.-Mr. Marmaduke Sheild: A Case of Neglected Dislocation of the Humerus, followed by A Case sis of the Nerves of the Hand and Forearm, treated by Paralysis of the Nerver the Humerus. Dr. W. ITale White: On Excision of the Ifeal Microscopical Variations of the Ifuman the Nakerieye

## WEDNESDAY.

Beyal Colafoe of Suraboss of England. 4 P.M. - Professor Charles Stewart: On Locomotion and Allied Phenomena (Lecture II).
Bmitigi Gixacological Society, 8.30 P.M.-Specimens will be exhibited by Dr. Savage. Dr. Heywood Smith, snd others. Dr. Ioglis ParBoos: On the Changes proluced by the Constant Current in 600s: On the Changer John Shaw: Electricity in Gynæcology Uterine Myomata. Ir. Sody. Medical batteries and other Elec a contribuaratus will be exhibited.
Hospital FOR Consumption, Bromptoa, 4 P.M,-Dr. Theodore Williams The Uses of the Pneumatic Cabioet in Lung Disease.
Roval Microscopical Society, 8 P.M.-Mr. G. Massee: On the Type of a New Epidrmiolodical Society of Londor, $8^{\prime}$ p.m.-Mr. B. G. Comey : Epidemic Cerebro-spinal Fever in the Fiji lslamds in 1885
Humentas Society, 8 f.M.-Adjourned Special General Meetiog.
TIIURSDAY。
Royal Colleor of Physiclavs of London, 5 p.m,--Dr. W. H. Dickinson : The Lumleian Lectures: Lecture I. The Tongue as an Indicathoo of Disease.
Pabes Megenm of Hyaiene, 5 p.Mo-Miss M. A Chrelman: On Physical Harvelax Society of Londox, 8.30 p.M.-Clinical Evening. Mr. A. Q. Silcock: 1. Osseous Union in a Case of Fracture of the Patella treated by Malgaigne ${ }^{\circ}$ Hooks ; 2. A Case of Conjugate Lateral Deviatioo of the Eyes. Dr. Sidoey Phillips : Case of Hemiplegia in a Child, accompanied by Spasmodic Movement. Mr. Herbert Page: A Case of Traumatic Empyema and Pneumothorax. Cases by Mr. Treves and others. Socrety of London, 8.30 P.M.-Cases and Specimens, 8 P.m. Nevbological. Socrety of Lonbon, 8.30 P.M. - Cases and Specimens, 8 P.m. Dr. Sharkey: 1. Fatal Case of Tnmour of Auditory Nerve; on Case of Atrophy of Frontal and Parietal Lobes consequent on Prolonged Spioal Paralysis. Dr. Buzzard: 1. Sequel to a Case of Multiple Paralyaia of Cranial Nerves: 2. Case of Peripheral Neuritis; 3. Cane of Cerebral Tumonr. Dra. Hadden and Sher reuriton: Sections ahowing Ascending Degenerations in Spinal Cord. Dr. Hadden: Ruptured Brachisl Plexus; Question of Cord. Dr. Hadden: White: Pyrexia in Rabbits from Lesions Operation. Dr. Hale White: Pyrevia Case of Bulbar Paralysis, of the Corpus Striatum.

## FRIDAY.

Royal College of Surgeons of England, 4 p.m. - Prolessor Charles Stewart: On Locomotion and Allied Phememena (Lecture IIl). Cancer Hospitar, Brompton, 4.30 p.M.-Mr. F. Bowreman Jessett: On the

Sociftr oq Mfdical Offiches op Healit, 7.30 P.M.-Dr. Louis Parkes: Death-rates as Tests of Healthiness. Mr. C. A. Watts ParkinDon: Notes of an Epldemic of Preumonia.

## BIRTHS, MAPRIAGES, AND DEATHS.

The charoe for unserting announcements of Births, Marriages, and Deaths is 3s. Cd., which should be forwarded in stamps with the announcement.

## BIRTH.

Lounon.-On the 3rd lastant, at Richmond Villa, Lea Bridge Road, Leytom. Fesex, the wife of John A. Loudon, M.B., C.M. Sidin., of a daughteratillborn.

## DEATHS.

M $\angle 90$, -On Manch 5th. 1888, at 20, Belmont, Bath, Mary Anne, the wite of Friderick Mason, M.R.C.S.E., etc.
Morurti:-On February 13th, at Shajehampur, North-West Provinces, Indis, Janet, wife of Surgeon-Major M. D. Moriarty, M.B., Civil Surgeon, and seeond daughter of James Irvlng, M.D., late Surgeon-Gederal of Bengal, aged 29.
STEF $\angle 8 \mathrm{D}$.-On the 6thinstant, at his resldence, Tho Briars, Sandown, I. W. John Burdett Steward, M.D., P.R.C.P., formerly of Southall Park, and The John Burdett Steward, this, the only, intimation. No flowers.
WHyTWORTH. Whltworth, William, L.IB.C.P.Lond., M.R.C.S., at Portalade, on the 25 th ultimo, aged 28.

OPERATION DAYS AT THE LONDON HOSPITALS.

MONDAY

TUESDAY. 10.30 A.M.: Royal London Ophthalmic.-1.30 r.m.; Guy, Ophthalmio Department); and Royal Weatminater Ophthsi(Ophthalmio Department); sna St. Mark's; Central London mic.-2 P.M.; Metrupolitan Free; and Hospital for Women. Ophthalmic ; Royal Horthopadic: Woner.
2.30 P.M. : Chelsea Hospital or Royal London Ophthalmic.-1.30 P.M.: Guy's ; St. Bartholomew's (Ophthalmic Department) ; St.Mary'a : Roysi West minner Ophthalmic.-2 P.M.: West minster; St, Mark's ; Central London Ophthalmic.-2.30 P.M.; West London; Cancer Hospital, London Oph. 1 P.M. : St. Thomas ${ }^{\text {a }}$ (Ophthalmic Department).; 10 A.N. : National Orthopsodic. -10.30 A.M.; lloyal London VFEDNESDAY ... 10 A.N.: Nations Ophthalmic.-I P.M. : M Westminster Ophthalmic.- 2 P.M. : St. Thomas'a; Roysl College: Westminster; Great Northern Central; Central Loodon Ophthalmic.-2.30 P.M.: Samaritan Free Hospital lor Women and Children ; St. Peter's.-3 to 4 P.M.; Kinges College.

THURSDAY 10.30 A.M.: Royal London Ophthalmic.-1 P.M. ; St. George: -1.30 P.M.: St. Bartholomew (Ophithalmic Department) Guy's (Ophthalmic Department); Royal Westminster Oph Oph-mic,-2 P.M.: Charing Crose; London; Cenroat; Hospital for thalmic; Hospital Nor North-West London; Chelses Hospital for Women,
FRIDAI 9 A.M. : St. Mary's (Ophthalmic Department) -10.30 A.M. Royal London Ophthalmic.-1.15 P.N. : St. George (Ophtha mic Department). - 1.30 P.M. ; Guy s ; Royal Westmiustralmic thalmic.-9 p.M.: King's College; st. Ihomas (Ophal South Department); Central London Ophthslmic; Royal sout Deparm Ophthalmic: East London Hospital for Children.$2.30 \mathrm{P} . \mathrm{M}$. : West London.
SATURDAY... 9A.M.: Royal Free- 10.30 A.M. : Rojal London OphthalmioP.M.: King's College. -1.30 p.M.: St. Bartholomew's; St Thomas'в; Royal Wentminster Ophthalmic.-2 p.M. : Charing Cross; London; Middlesex; Royal Free; Central Loadon Ophthalmic.-2.30 P.M. : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Oharing Cross.-Medical and Surgical, daily, 1; Obstetric, Tu. F., 1.30; Sxin, M. Th., 1.30 ; Dentsl, M. W. F., 9.1 , Obstetric, M. Tu. F., $1.30 ;$ Eye, M. Tu. Gư's.-Medical and Surgical, dais, Filo, Tu., 12.30 ; Dental, Tu. Th. Fo, 12 . Th. F., 1.30; Ear. Tu. F., 12.30; Sklo, Tu, 12. aily, 1.30 ; Obstetric, Tu. Th. S.,
 2: o.p., M. W, F., 12.30 ; EYe, M. Th., 1; Ophthal, F., 10.
Ear, Th., 2; Skin, Th. ; Throat, Th.. 3 ; Dental, Tu. F., 1 . 2 ; Obatetric, M. Th., LoNDON.-Medica, dain, Kye, W.S., 9 ; Ear, S., 9.30 ; Skin, Th., 9 ; Dental, Tu.,9. 1.30; o.p. W. Medical sod Surgical, daily, I; Obstetric, Tu. F., 1.30; o.p.,W. S., MTDDLESEX. - W. S. 8.30; Ear and Throat. Tu., 9; Skin, Tu., 4; Dental, dally, 9. 1.30; Eye, W. Surs ; Eaical and Surgical daily, 1,30 ; Obstetric, Tu. Th. S., 2 ; St. BАRTROLOMEW's. -Medical and Surgical Taily, 2 ; Skin, Fo, 1.30 ; Larynx, F., o.p., W.S., 9 ; Eye, Tu. Th. S., 2.30 ; Ear, IU. F.
2.30 ; Orthoparic, M., 2.30 ; Deatal, M. F." 9. S., 1; Obstetric. Tu. S., 1; o.p., St. Gronoe:s.-Medical and Surgica, M. T. F. 2 ; Thront, Th., 2 ; Orthopedic, W.. Tu., 2; Eye, W. S. 2 ; Ear, Tu
St. Marr's.-Médical and Surgical, daily, 1.45; Obstetric, Tu. F., 1.45; 0.p. M. Th., 1.30; Eye, Tu. F.S., 9 ; Ear, M. Th., 3 ; Throst, Tu. F., $1.30 ; 8$ kin, M. 2.30 ; - 9.30 ; Electriclan, Tu. F., 2; Dental, W. S., 9.30 ;

Operations, Tu... St. TEOMAs O.p., W., 1.30; BYe, M. Th., 2; 0.p.; Children, S., 12.30 ; Dental, Tu. F., 10. Skin, W., 12.30; Throat, Thical and Surgical, daily, 1 to 2 ; Obstetrice, M, Tu University Collzoe.-Medical and Surgical, daily, Th., F., 1.30; Eye, M. Tu. Th. F..
Throat, Th., 2.30 ; Dental, W., 10.30 . Westminsten.-Medical snd Surgical, daily, 1.30 ; ${ }^{\text {O }}$,

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Communications reapectlag editorial mstters ahould be addressed to the Edtor 439. Straad, W.C., Loadon; those concernlag buainess msttert, non-deliver of the Jourral, etc., ah Ir order to sroid delay, it is particulariy requested that all letters on the editarial business of the Jouryal be add
Jourxal, and not to his private house.
 Journal. are requested to communicate beforchand with the Manager, Strand, W.C.
OOARKAPONDENTS who wish notice to be taken of their communicatione, anoution anaspondicate them with their names-of course not necesarily for publication anthenticate them with aners sre requested tolook to the Notices to Cort Corazspondrats not andere of the follow.
spondents
MANUGCRIPTS YORWARDED TO THE OFFIOR OY TEIS JOURMAL CAMNOT UNDER AN CIRCUMSTANCES BE RETURNED.
Publio Healte Departmint. - Wa ahall be much obliged to Medical Office of Health if they will, on forwardlag theis Annual and other Beporta, favou us with Duplicate Copies. of

## CUEITIES.

Cimonic Swrating Lv the Axille.
M. 3. noks for, arlvice int the treatment of the case of a youlug man, age 27 years, Who has bren troublid with chronle and protuse sweathg la both nxilfor for
 weather an durling the foot motitlas of summer. He has tried lotions of alum. disting wowder cequal parts of oxfle of zinc aod starch powder). If is vory clean in hils habits, washiug the ayillio several times in the day.

## TREATMENT of EPighisy.

B. ask for suggestions for the treatment of a case of epllepsy in a girl of 16, where the bromides of potassium or ammonjum are almost prohibited by their, aggravatiug actlon upom an uleer of the leg, which exists as a compti.
cathon in the crise.

## Juration of Isfection of Whooping-Cotgh

Pfrtusits asks luw loog the infective properties cliog to the iorlividual who has whooping-eough, in other words, the subsidence of which of the symptoms or gronp of symptons would justify one in pronouncing the individubl inmpable of spreaning the disease. Also, whether a child who has for a time lost thy whoop and characteristic expectoration, but who has a relapse with a returu of those symptoms, is again actively iufective.

Member weuld foel obliged for ophions and suggestions with regard to the truatment of a congenital and hajry pigmentary patch (mole) about one inch square in extent, and situated on the malar prominence, abont an inch from the lower eyeltd. Ife asks, wonld ethylate of sodiams remove the hair follieles, and pigment without eausing eontraction of skin afterwards. or wonld it he better prnetice to remove hairs fidst by electrolysis (as describet
 to canterise with the object of removing pigment, in which case as the hair follicles have been removed, the eanterisation might not require to be done so decply

## Lethat, Chambers.

R. C: II. asks: Can any of sour reaters kindly inform me whether the lethal elimuler, tirst deseribed, I believe, by Dr. W. W. liehardson for destroying dorrs, is suitable for the same purpose for horses? If so, the address of the Hace where it is in use wnak be esteemed a favour.
** The lethal chamber is at the Dogs' Home at Battersea; it is not of sufficlent slae for the deatruction of horses. A seientifie slaughter-house is in coursp of eonstructhen, under the superintendence of Dr. Richardson, at Croydou; it is desigucal for killing ahcep, oxen, and other animals used for tooil.

## ANSWERS.

Indosivonasy To Quinise
11. (Kersal) writes: Jeferring to "H. G. H.'s" communication in the Jotrral of Fehriary 25 th , on the above suhject, allow me to meation a case in which I gave mue-quarter-grain doses of quinine. with the result of producing thushing of the face, irritable rash, drymess of thront. headache, and buzzing in the ears. To satisfy my incredulity that so smal! a dose of quinine couli be the cause of these symptoms, I rot my patient to take-much aghinst her wil-a half dose in my presence, and the same result followed
within half an hour, though in a somewhat moditied form. Recently I had oceasion to aguin prescribe for the sume lady; and gave her a mixt ire containing ten-minim duses of liquid extract of einchoma, forgettiug at the momenth lier extreme suscentibility to the inthence of quinine. The constgucures were the sime as those she had experienced five years before. The lady was subject to occasional at titcks of aute eczema.
Lat me also nane another chse in which a smatl dose of morphine gives all hear signs of physiotogical action. One-twelfth of a grain causes volent srain, produces retching aod constipation, contalning only one-eighth of a
R. Tromas M. Watr (Ilowingham) writes: I had a patient who triee, when whe took quinine in fullish doses for neurnlgia, was attacked with erythema, Which eat deseribe only as ferox, and which was followed by shedding of the whole cuticle in small patches. I kept as curiosities for a bing time the oncasimu I was tolif ly the putient that "it was the medieino." The seeond time- I was convineri, anti I never gave the quinine agadn.

QUINLNE IN PBEGNANCY.
8. Gi'y N. Stepules (Cyprus Medial Service, Nieosia) writes: In the
 quinine has any artion on the uterns, mad inferentially raises the question as to whether it is a safe drug to use during pregnaney. The belief that a large number of drugs have a specitie action on the nteris, and are dangerous to nse during preguathy, is arery common one amomg all classes of patients at gynecologieal and medien-legal amprience is daily men; but aremmulating yymecologieal and medien-legal exprrience is daity diminishing the list of drugs that are capable of originating uterine action. in the ahsenee of stroug predsposition and when given in obses bot dangerous to the onateioal life itself, and the experiments of Professor Chiara, of Milan, Afford very strant "widence that guinine is not anong the number. Isesifes this, the climicai ryperienee of any medienl man pravt ising in a country where malaria is rife will cuable him to further aflim that the drug may be safely trusted not to eition to part urient nterine cont ractions, eren in cases where the predispois fearlessly; qivon to preguant women of all serts, and frequently in, aecordIng to lioghish notions, enormous duses, and without cinusiug auy evideut. terime artion. Given on the other ham, furing notual Jabonr, ind espe
ially in cases of nterine inertis from exhanstion it is ially in cases of uterine inertis from exhaustion, it is undoubtelly in mofarate doses of scren to niteen grains, a very powerfal stimnlant of the
 Itter athimation, I would cite the fitet that whereas malatial fever, whet to
itsmif, is a constaut eanse of premature parturicut action in of leirwise heaithy uteri, I have on a large number of oceasions been enabled to arrest an aburtion by large duses of quinine.

## lepohts of Visitations of Exavisations

IEPORTS of vinitors of examinntions, aud reports on those reports, bave been published frou fime to time hy Mes.rs, Spottiswoode and Co., for the Geperal IVsicalion Report. There are, in all, twent y-three volumes or pamphleta. The Fs. til,), anrl the Final Report 户y the I'isitation of Examiactions Covmilice (price, 2 s. ), are the most recent,

## Stameneraig: Oral Isstbuction of the Dfaf asd Díah.

Is reply to numerous correspondents who have recently sent inquiries about the treatment of stammering and the instruetion of deaf ami dumb chiliren, we may state that the Association for the Oral Instruetion of the Deat and Dumb
 W.. and that the director, Mr. Willim Van Prakh, is also prepared to give adriee aud instruetlon as to the treatment of stammering, stuttering, aud
ot ther defects of spech.

## Glyceride as an Injection

MR. J. Bratng (Torguay writes : In reply to "W. H. B." I have not found glyeerine diluted with water act nearly so well as when pure; in very rolit weather it is hetter co warn it, and I find Mr. Balmanno Squire"s urethral syringe the best.and tasiest for a patient to use; it holds the exaet dose. Dr. C. Palmer (Burton an Treat) writes, in answer to "W. H. B."s" question as to the injection of glycerine, that Mpssm. Arnold and Son. of 31. West Smitbtield, have made for him a very aice llitle instrument, a sman indiarulber ball witla a vulcauite nozzle.

## Improven Gas Lamps.

F.R.C.S.Eag. asks to be informed as to the most efticient and least deleterious gas light which can be recommended.
*** There appears to ve little, if any, reasan to doubt that the gas Hghts which provide for flame being supplied with heateci, insteal of cold air, are tbose which as a elass coniply with our eorrespondent's deseription of being the most efficient and least deleterious. The reason of their superiority lies in the fact that the combustion of the gas is more completely effected than in other forms of burners. The former kind are generally known in the tradef by the name of "regenerative" burners, and eau be readily recognised by their arrangement for the flame burning within a elosed glass; they are now io comparativelf common use. The principle was introduced some years ago by Mr. F. Siemens. The application of it has sinee been considerably modified by himself as well as by various other inventors aud mannfacturers. These lights differ in effeiency among themselves. It is an important consideration that this form of gas light admits of the entire products of eombustion beiag readily carried away from the roam by in suitable arraugement of the lamp, and if this is effeeted, all deleterious iufluences are entirely avoided.

## NOTEX, LETTERS, ETC

## Thb Palmer Case.

Mr. J. Vose Solomon (Birminghan) writes: Don't paint the Devil blacker than he is. In the discussion reported io the Jounali of February 2ith, on The Coachford poisoning ease, which tonk glace at the loyal Aeademy of Medieine in Ireland, the Rev. Dr. Haughton is recorded as stating that had Palmer, the Rageley poisoner, been aequitted for poisoning Cook, he would lave been put on his trial lor poisoning his mother, whose liver was found to contain six or serengrains of antinony. In this statemeat there is some mistakc, indsmuch as old Mrs, Palmer (the mother) livel during tho erial umfer an assumed name, in lodrings in the Bristol road. Birminghan, and was attended during that time by a surgeonz named Onion, since deceasef. Mrs. Palmer's identâty was mut diseoverel until after her son had met the gallows. During the frial the old lady's ailments were contined to great mental perturhation. whieh was not. relieved by lees foctor talking noout the mental pertirhation. whieh was not, relieved by her fector talking nowt th
trial at stafford, and his assurances that he believed Palmer would be hung.

Abrfst of Developmbnt by Linfavotrable fivitanment.
D. 11. G. writes: I have rather inl interesting example of arrest of development unter uufavourable conditions.
Last spring I hatehed, it a small aquarium, where there is not much sun', some towds' spawn. The tadpoles grabumbly died off about the time their leas eught to grow-the usund leugth of their lives in ennmenent, as far as my exnerience goes-hut three were alive nt Christmas, without having gone through further development, and one is still in fall vigour as a large tadpole hangh further development.
nownenty twelve months old.

Sibup of Tar iy Winter Oovig.
Mr. Whiras Vrasen, IB.A.. M.13., Lnix. Dub. (Devon), writes. Ms atteution was gesterday drawn to an artlele in the Jocrasico ou Syrup of Tar in Winter Coughs, hy IHr. William Murreli. I beg tosat that we (Dr. W. s. Gervis and myseli' have been using a similar prodnci for the past eight or
nine years and if Dr. Murrell will turn to the Lancet, vol, $\dot{i}$, 1582 , wage 1002 , he will fiml it very slort note from member the heading of Nightmare l'rodited by the Interual I'se of Tar, where 1 say that tar seenis to work wouders
 and continence in the saful anist ure. My was of making differs from that of Dr. Murrell; his is not fit fur use for some ditys, mine, on the contrars, can be usel almost at once. Ly, way is as follows: Get a janu pot, put in julv. a cacias silj; sach. sce. jit, niels liquila jifj; nit, well, ald liq.
 The product is of a light brown colour, of which 1 put from ziy. to $\overline{j t}$ in a six onnce botle of water; a tablespontul every foin or six hours; the efficacy of this is often increased by jj tinet. seille. The liq. potass. is an addition to
ny lala brawinga, not belug in the Corouer ontes. I quite agree with Dr. Surrell as to the goollar works, and is invaluable to men having the care of marnilies and clutw, ami also to thetr private putleats, for have seen this do gent where the taore expensive ant teliente flavoured matures were nowlure.

Dr. WuLtas Dowovas (Dirmingham) wrltes: White holdling yery strongly the riew phit forwam sonar time bick. "that thice L.R.C.P.bd.s admitted pror to GNin arn and were entithed to use the tithe of Dr.,"I would. with your permisalon, palat ont 34 alterition hale ly the College, whereby their old L.lcontintes are still further removed from the new ones. When 1 was admitted a licentiate in lebs. I was presemed with a copy of the rules and by laws of the Collage. Onc rule was that "any Vellow, Member, or Licentiate laws of the Colloge. She riture whe or asslatant kerp open shop for the sale of
 Arugs or any of her merchandise, shomlant fore." "Now lhave been informed enjoyed as such Pellow, Menber, or Locen sight. And, as the College lans, hy that the rule has heen dropped nut of sight. Anch as the of Dr., instituted whthlratidng thls rule, and discouraging the nse ofs in competlion with the a lower onler of Lheentintes, thus phang itself (in justice to those whio
 recojvent the liewner of the Colloge under the older order of things) in grant some priviluge wherely we may be distinguished from onf ुounger brethren in the Licentiateship, an acknowledgnent of its having conlerred, the Doctorate or the Memberslit].

## TbuGef fok 11 fremia.

M.D. Writes : 1 have just real the deserfption of Professor Rushton l'arker's nuw truss for heruia, wheh certalaly appents to be a very admirable instrumont, but when a luernla becomes, as ho deserihes, Jarge, inwieldy, and wideuecked, then from some long experieuce I do wot think a more suitable inaeckment can be obtained than tlue water-padtuss made by Messrs. J. F.
 prath and co, of suble filled water aod brerlan the pubes well, so as shaped pads of stomt raber heled escapiuk aod oyerlap the puesment of the to preveut any, chance of the fut, escaping from the loter segment of the hagged ring. They are comortable to wear, and as compared with a variety of other trusses. I have frich, are nore effective in their support and pernits moch freer motion than any recommonding any of the ir patients to the men will not do am
crre of Messrs, Pratt.

Dintativ of a linmoropathic Hospitalue in the Edinburgh
 Take $n$ rebhin's ligg
(Mind! the drumstick merely), Jut it in a tub
Fillen with water nearly Set it out of docrs
In a place that's shaty Let it stand a week
(Three elays if tor a lary) 1)rop is sponstill

Which may he marle of $t \mathrm{in}$
Or any baser nuetal : Fill the kettle $n p$,
Set it on a-boiling,
Skim the liquor well
To prevent its oiling :
For the thek'ning one riee kernel Anil use to light the tive

COMIMUNICATIONS, LETTERS, etc., have been received from
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> The Jlommprethic Jotirnal. Let the liquor boil
> Half an hamr, no longer (If tis for a man
> Of course you'll make it st rouger). Should you now desire
> That the seup be flavoury. Stir it once aroum?
> With a stalk of sayory. When the broth is mato Nothing can excel it: Then threc times a day
> Let the pationt smell it. If he, eliance to die,
> Say tw'is Nature did it;
> If he chance to live
> Give the soup the eredit. Mina Casora.
Mnis

Dr. B. Hotmeisier, Vienns; Mr, D. Mombley Gabr, ITastings; Dr. A. T. Myers, Loadon; Mr. M. E. Thomson, Xonthampton, Mr. Lawson Tait, Birmiogham; Mr. Simeon Sucll, Sheflield ; Mr. W. A. Jnyesingha, Balangoda, Ceylon; The Sceretary of the Nationul Hralth Soclety, London; Dr. Abrihnms, London Prolessor J. Berry llayeraft, Eliriburgli; Mr. G. Greene, Ferns, Co. Wexford; Mr. W, L. Audand, Northumptou; Mr, N. Mannah, Ashton-iu-Makerfiold Dr. Tatham. Salford ; Tho Seoretary ol the Hospitals Assoctation, London: 1)r. F. G. Turner, London ; Mlss Mackenzie, Tiverton; Mr. F. M1. Pierce, Manchester: Dr. D. A. Friser, Toln's; Mr. H. W. Tliomson, London; Dr. 1. 13. Cook, Loniswille; Dr. J. Rogers, London; Mr. F. I. Ilumphreys, London; Mr. Miekle, London; Mr.J. F. Pink, London; Dr. 1. Owen, London: Mr. W. Wigmore, London ; Mr. C. B. Ittchardson, Portslade; Dr. Edwardes, Lominn ; Dr. G. F. Morlgson, Brighton; Mr. C. E. Abbott, Braiutree; Dr. A. S. Mopekirk, London ; Mr. H. Greenway, Jlymouth; Miss A. Andrewes, St. IIeliers, Jersey: Mr.'T. Jenner Verrall, Brighton; Mr. J. F. Dixon, Wifst Bournemouth; Mr. W. F. Purtis, Northampton; Our Manchester Correspondent : Dr. Yarrow, Loudon; Mr. R. S. Jaques, Glasgow; Dr. T. Oliver. Neweastle-upon-Tyno; Mr. I. Griffith, Manclester; Dr. J. P. IIenry, Dublin; Mr. S. Lee, Lnndon; Dr. J. J. Lelser, London; Mr. G. F. Sydenham, TiverMessrs. Christy and Co. Lomion; Dr. H. F. I'arsons, Iondonds, Glasgow. Brandt, Cannes: The 1 miorary Secretary of the Adelaide and South Australian Brancls, Adelaide; Mr. J. W. Hartley, London; Jr, E. A. Spilsbury London:"The Secretary of the Harvcian Society, London; The Entitar of Truth, London; Dr. Laffan. Cashel; Mr. If. IIoltley, Iork; Dr. Eththoft Brighton ; Mr. E. G. Higlaton, London ; Dr. C. Orton, Neweastle-umber-Lyne Mr. F. Smith, Plunsstead; Brigade-Surgeon J. W. B. White, Tralec; Mr. J M. N. W. Lueas, Liverpeol ; Mr. Manedons. Burroughs Mr. G. P. Pizcy Loodon ; AnOld Subscriber; Mr. T. Lanhert Itall, Dilwyn; Dr. Sandford, Cosk; Mr.J. H. Morgan, Loudon; Mr. Shirley Murphy, Londibn; Our Liverpoel Correspondent ; Messrs. Burgorne, Burhidges and Co., London; Dr. J O. Lane, Mercford ; Mr. C. F. A. Voysey, London ; Dr. P. Frankland, 1.ondon; Mr. Sewill, Londm; SurgeonJ. L. T. Jones, Tremadoe; Mr. H. Hans Loudou; Mr. M. Marriutt, London; Dr. 1), MacAlister, Cambridge, ele.

## BOOKS, ETC. RECEIVED.

Aids to Dental Surgery. By Arthur S. Underwood, M.R.C.S., L. M.S. Lnnden Bailiere, Tindall and Cox. W. T. Gairdner, M.D., LL.D., and Joseplı Coits, Lectures to Practitiouers. By W. The Gondon : Lengmans, Grecn aud Co. 1888.

Prosperity or Pauperism ; Physical, Industrial, nad Teclinimal Trainlug. Fatiter by the Earl of Meath (Lord Brabnzon). London: Longmane, Green and Co. 1888.
Notes on Diseases of Women. By James Oliver, M.D., F.R.S. Lomion : Ifirsci:feld Brothers.
A Prectical Treat ise on Materia Medica and Therapenties. By Iobort Bartholow, ML.A., M.D.; LL. 1. Londou: IL. K. Lewis.

Dying Scieutifically ; A Key to St. Bernard's. By Fisculapiцs Scalpel. Lomlua: Swan Sonneuschein, Lowray, and Co. 18se By Therlor, F.R.C.S., M. D. Edin. Lectires on © Reduray The New Judgment of Paris. By Philip Lafarque. In two volunus. Vols. I and 11. Lonten: Makenthan The Calendar for 1888. Dublin : Printed by the Royal University: 1858
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## NOTES

## TWO CASES OF LAPAROTOMY

 FORPENETRATING GUNSHOT WOUND OF THE ABDOMEN ; RECOVERY IN ONE.

with remarks on recent statistics.<br>By Artilur E. J. B.trker, f.r.C.S.,<br>Surgeon to University College Hospital: Teacher of Practical Surgery at University College.

Tue following cases are a contribution to the study of a class of injuries which, though they have received far greater attention abroad, and especially in America, than in this country, must doubtless hare a keen interest for all surgeons.

Case I.-A. T., aged 23, a French jeweller, was admitted into University College Hospital under my care on Norember 20th, 1887, at 3.20 A.M., having shot himself in the abdomen about half an hour previously. He was suffering from moderate shock, and though guite conscious when spoken to, seemed dazed and frequently groaned. His pulse was 56 , and markedly dicrotous (from subsequent observation this was probably its normal condition); it was of good volume. The skin was normal, and the temperature in the rectum $98.2^{\circ} \mathrm{F}$. He had not vomited. He lay on his right side, with his knees drawn up; his breathing was slow and shallow, with an occasional catch. There was a small bullet wound, with blackened edges, over the border of the costal cartilages on the right side, one inch from the middle line, at the level of the tip of the ensiform cartilage. The pistol was a small "pin-fire" weapon carrying a conical ball II millimètres long, 7 millimètres in diameter, and weighing 60 grains. There was little or no external heeding from the wound, and no evidence of fluid in the abdomen except a suspicion of dulness in the right flank, but there was much tenderness on pressure over the abdomen.

1 first saw the patient at about 5 A.M., two hours or so after the injury, when he was beginning to recover from shock. Feeling confident from the situation of the bullet wound that the hall must have entered the abdomen and have struck the liver, and fearing that the slight dulness in the right flank was commencing effusion of blood, I had little hesitation in deciding on laparotomy in order to check hrmorrhage, suture any lesions if present, and cleanse the abdominal cavity. Having, therefore, made every arrangement for complete antisepsis, the operation was done at about 6.30 A.M.

I first made an incision two inches and a half long over the tip of the ensiform cartilage, and on drawing its edges apart could see the opening in the peritoneum through which the ball had entered the cavity. Nearly under this, and at the attachment of the falciform ligament to the liver, was a patel of ecchymosis under the serous covering of the organ, which suggested the point at which the latter had been struck by the bullet. There was no corresponding breach of surface of the liver, either here or elsewhere, though I carefull $y$ examined most of the anterior surfaces of the left lobe by pressing it down and throwing the light well between it and the ribs, and also by passing my hand over it. The surface of the organ was, however, stained with blood, and a dark clot was been extending directly downwards in the middle line. This was about the size of the little finger when drawn out, and led me to think that it came from the track the hall had taken. I therefore prolonged the incision to the umbilicus, and found some more and larger solid clots lying underneath the abdominal walls and upon the colon and omentum.

The first point was now to see that the stomach was not injured, and a careful examination of its surfaces as it bulged up into the round, as well as the fact that it was tense with gas, clearly inJicated that it was not perforated. It was therefore pressed back into the abdomen, and the transverse colon lying just below it was hooked up and drawn out of the wound to the extent of about ighteen inches for careful inspection. This also was found
intact, but the omentum along its lower Lorder was noticed to be much hlood-stained and covered with clots ranging from one the size of my thumb downwards, apparently deriverl from lesions of some of its own vessels. These clots wern therefore carefully disentangler from the omentum, and the latter was wiped clean, and while this was being done the hullet was found in its folds, and a moment later a small round wad. From the position of the bullet it appeared quite clear that it had struck the liver at the insertion of the falciform ligament, and had glanced off it and passed between the abdominal wall and the stomach and transverse colon as nearly as possible in the middle line, to become entangled in the folds of the nmentum, some of whose vessels were torn. It seemed highly improbable, therefore, that any other viscera were injured. Nevertheless, all the coils of small intestine exposed by the incision were carefully exumined; then sponges wrung out of sublimate solution were thrust into both flanks and the recto-vesical poucls, but came out unstained. The viscera expored were then thoronghly: cleansed by sponging, and were adjusted with the omentum over them, after which the abdominal wound was closed in the usual manner. The bullet track in the abdominal wall was also scoured well, rubbed with iodoform, and a very tine short drainage-tube was passed into it as far as the peritoneum, but not through thelatter. Firm bandaging over a salicrlic wool dressing completed the operation. The latter was well borne, and when the anrsthetic was recovered from there was no romiting and only moderate pain, easily relieved ly a little morphine. The patient was fed for some days with mutrient suppositories. The temperature rose the same night to $103.6^{\circ}$, the pulse to 100 , and the patient hecames rather restless, but twenty-four hours after operation both were normal, and remained so practically to the end of the case. The dressings were changed on the sixth, tenth, and sixteenth days, union having taken place by first intention, except in the bullet track, which, however, closed rapidly, the patient leaving hospital on the twenty-first day quite well. The bowels had acted normally several times.

Case II.-11. F. G., aged 37, an American, was admitted on the following night, November 21 st, at 8.30 p. . ., having been shot. in the aldomen about half an hour previously with a Colt's revolver carrying a conical bullet 15 millimètres lnng. 9 millimètres in diameter, and weighing 143 grains. I saw him a few minutes after 9 oclock, and found him quite comfortable, with no trace of shock and not suffering in any may. The slont had been fired at close quarters, and the ball had struck the abdominal wall $3 \frac{1}{4}$ inches internal to the right anterior superior iliac spine and balf an inch below it, and had emerged 3 inches behind the same iliac spine and also half an inch below it. From neither opening was there any bleeding at this time, but the elothes were considerably stained with blood. From the position of the wounds it appeared probable that the hall had passed throngh the soft parts external to the peritoneum and withont entering the abdomen. This was explained to the patient, and also the necessity of giving aus anesthetic so as to make a thorongh exploration. His assent was at once obtainel, on the understanding that he was to be allowed to come to as quickly as possible in arder to see his friends, whe had been sent for. On enlarging the interior wound a slit was seen in the tendon of the extermal ohlique muscle, and through this a probe slipped into the abdominal cavity, while a considerable quantity of blood welled up from the latter.

It was plain then that a full exploration of the abolomen should be made, but it was necessary to let the patient know his condifion and see his friends before going further. He was therefore allowed to recorer from the ansethetic. when he at once gave his consent to any operative treatment which might be necessary. his friends ton acquiescing readily. It was not, however, until 1.5 A.M. that the operatinn was begran. owing to some delay on the part of the police authorities in taking the patient's depositions. All arrangements for complete antisepsis having in the menntime been made, I commenced the exploration at that hour ly a four-inch incision in the direction of the fibres of the external nblique, and having the bullet wound in its centre. When the abdomen was thus opened blood mixed with clots. but without a trace of freces or odour, escaped to the extent of three or four ounces. Knowing from a rather large experience of gunshot wounds the extraordinarily erratic course of conical bullets in some cases, my first care was to make out the track of the ball in this instance. The incision haring passed through the aperture of entrance in the peritoneum, the aperture of exit had to be found if possible, and on sponging out the blood it was seen not



## Ablomimal Section, etc. (continued)



 reaching well inta the ablomen. A salicghe whe minutes. The pationt bore it very
tion, which had lasted one hour twenty
 complaing of pais. temperature $99^{\circ}$ to $101^{\circ}$. He vomited occasionaliy, but- only a

 tion he seemed very well, but could not retain anything take pulse $1: 2$, tempera-


 shortenpl. On the fourth day he was still bether. thongh townds evening the flum,
 lent odour, and to become yellow. The abdomen, ton, was more the there might be
 tion of matter, though there it was determined to release the stitches in the wound,


 more than half an inch from the first, am jnst helow the was not so. The bullet then had only just entered and left the abdominal cavity in the fold between trond anterior whl and iliac fussa, a strip of peritonema fuestion then whether the intestine was wounded, but this was soon set at rest when ane adacesponded to those in the wo wounds berigg wheh it had restiol when the bullet was fired. 'These wounds were romm, with slightly buised alges, from which the from them, the bowel not protrude. They blal freedy, bither side.. Fearing that to simply sulure these two wounts would seriously marow the lamen of the howel, the howel was a wedge-shaped portion of the gra, soized ma ather side. in the fingers of an assistant, and two ents were made with a scissors, reaching to the mesenteric attachment of the intestine. In this way a compred, the wesentery being only alightly motchenl. The parts having been now thoronghy cleansed, the serous surfaces of the mesmiteric notch were hrought together by a contimums sutare on both sides, and the cut edges of the wowe united by a contimnons suture of tine silk, taking up only the serous mul mascular coats just at the enge, the needle coming out on the cut murqin at each stitompetely roum the latter, care
 lumen of the lowel
A second row of interrupted silk sutures was now introduced to reinforce the first. These took up the surous and muscular couts just hojoud the first row, atur, wheng secured, the latter whs completely the fingers, or in suturing the bowel without con-



The post-mortem examination was made hy Ur. Bilton Pollard, whose notes contain the following facts., Tle small intestines were very much distonded, especially, in the umbilical cegion; therowns no gis, lynuph, or pus anywhere in the abraminal oavity, but the coils of the bowel in the tisteaded area were slightly greasy. The larue intestine was notint. ant distemrled, and seemed out of the area of inflammation, which bad affected the small intestinc solely. The latter in the reighbourlonod of the Wonnd was more allielent than elsewhere. The portion of bowel qutured, which was in the ilemabout, three feet from tha ceenm, was in a perfectly satisfactory combition. Union lian taken place thoroughly between the cutsends, Hud, the: bow eh: was not :abstructed in any way. Tested with considerable pressure, it was perfectly air and wintrr tight, There were aboit two drachms of hlood-stained fluid in the recto-vesical ponch, about half a drachua in the right Hank, and three drichms in the left, There were a few. spots of pxtravisated blood in the omentum, which ocenpied itz normal position, but was adlierent to the edge of the Hound by recent lymph. There was much bypostatic pienmonia in bot ly lungs, especially on the right side; the other organs were healthy.

It mill be seen from these notes that the cause of death was a rery morlerate amount of peritonitis limited, to the small intestine, and in addition no doubt the hypostatic pnommonia told unfatourably, Indeen, there wras so little to be found in .the abclomen indicating peritonitis, except the distended coils of bowel, that there was some lesitution in, accepting this as the cause of death! But the alsence of any other lesion except the pueumonia, left no alternatire, ot éptic condition, iu the ordinary use of the term, did not exist ; the spleen was quite normal and other evidences ulso failed: in short, one turned. away from this necropsy with an intensifted feeling of disappointment, because the patient had so very nearly recovered.

These two cases appear to me to possess each its own special interest.: In the first there can be bat little doulit that a fital peritonitis would have occurred hard not the bullet, its wad and the clots which surronnled it, been remored from the folds of the oraentum by abdominal section. Again, laparotomy enabled us to exclude from consideration all otler injuries of viscera, without subjecting tle patient to any special risk in exploration. The case is also or interest in heing the first successful laparatomy for gunshot wound of the abdomen recorded in this country.... it iust it may encourage other surgeons to very prompt action in similar cases, so that the conclusions arrived at in America as to the propriety of imnediate lianarotomy in all cases where penetration of the abomen is proyed, may be justifiel hy our experience tao. $\because$
The second case, although a source of the keenest, disappoint-- ment to me, has in no wise shaken moy belief in the rule that erery case of the kind ahould be treated immedintely ly abubminal section: indecl, it strengthens that helief,iz-efery way, What little peritonitis there was no domlat started from some spot in the peritnneum not thoroughly olemnsed. from matters escaped from the wounded bowel. Whether a move perfect antist psis could have been cinried ont by nuediau-ineision and invigation may be a question of opinion, hut 1 amp strongly inclined to think tbat it conle, though it the time 1 decided that the extra time ond strain upon the paticnt's powers involved in, a double incision and its concomitants would be too dear a price to pay. That the median incision should be the rule in the rast majority of such wommls of the abdomen I rm convinced, mud this vew will be, slarated by सweryone Nho carefully studies the diteristure of the subject. This literature is now, becoming a larke one. Sir Willian Sao Cormucis classical monograpll sufficiently attests this by the numerous cases there quoteri. But eveniu the slomt interval of only a few months which has elapsed since he, published lisicollection of thinty-two operations for gumshot. wound of the abloruen, almost in cqual munlmer of cases lavo boy, jmit, on recerd,
 this subject. These castas 1 have heen at the jains to jenllect and tabilate. A study of the results of these.opermions is most encourdging. Thejo show al greatly leasened mortality, year hy year, aml also that much more desixerate cases may be saveil hy simgical interference than has lritherto been suppozed: l give then as fully as is possible in such a table, and allow, then to speak for thenselves with only olle comment. It will be seen that, whereas out of the 32 laptrotomies ${ }^{1}$ for gunslut injury of the abdomen included in Sir $\mathrm{WF}^{\text {. }}$. lac Cormac's list, only 7 recovered, there are here collected 26 fresh cases of the same kind, with 16 recoveries and 10

deaths. Combining the tro tables, we have 58 cases with 23 recoveries and 3.5 deaths. The numbers start in this table where Sir W. Mac Cormaces cid, that is at 3 .

# THE GOULSTONIAN LECTURES LNSANITY: IN RELATION TO CARDLAC AND AORTIC DISEASE AN]) PHTHISIS 

Deliveren hefore the Royal Cullege of lhysicians of London. By Wr. ;ILLLUS MICKLE, M.D., F.R.C.P.Loxd., Metlieal Superintendent, Grove fatl dsylum. Léctrte I1.-Aortic Talfe lésooss.

Of cases of aortic'ralve lesion, the chief and predominating condition, I make four sub-gronps: (1) rortic stenosis ; (2) nortic regurgitation; (3) aortic semilunar valve disease, with no vers. marked local sigus, and aorta not rery mnch affected, if at all: (4) disease of aortic valre and arch.

First Sub-group: Stenosis of the Aortic Ostium. Of eight cases: rarying in age at death from 24 to 47 years, the arerage way almost 40, only one being young. At death the insanity bad lasted from nine months to sixteen years in different cases.. The relation', in time of incidence, of heart disease to insanity was difficilt to appraise in several cases; distinctly prior in some, it was dietinctly subsequent iu others. Nathrally, these cases were not all pure examples of aortic stenosis ; in two there was also aortic iucompetency, as well as aneurysm of, thozacic or of abdominal iorta, and in three others-at least at one perion or at several मerions-slighter mitral incompetency wqs, added. *
Of these patients, three were monomulacs, in one whom the heart disease distinctly preceded the mental: in the orhers the orler of incidence was doubtful. In the first-mentioned of these (with aortic aneury ym a complication) at first the delusions yero of persecution, for example, "was plotted against, conspired against by women, illegally detained and ill-treated:" and therewith hallucinations of hearing. .. Finally', with adyancing disease of heart aul anita came delusions of direct hodily injury and persecution, producing horrible pain compared to "electric batteries playing on him."
Of the others, one-a deteriorated wreck of former niingled hypheloudriacal axd expansive uompuania, become dementedoften, screamed shrilly, was ramliling. incoltereut, paroxysmally exciter and noisy, and on some of these occasions suddenly destructive ; finally he uttered imerely a jargon, a medere of words. The othior, a abbiect of mingled expansive and perpecutory monomania (with imivecifity), ind hallucinations of all. the special senises except of touch; together with the adranicing heart disesise; pulmpuary congestion, and recurring attacks of dysenteric dinrrbeta, hecamie deluded as to poison in the food, and as to intluences of a hostile kind brought to bear upon his bödily state and héalth.

[^48]Three others were general paralytics. In one, epileptiform attacks were frequent; fiypochondriacal and melancholic symptoms throughout more than usually intercurrent. Demented and ataxic, he for a time took on absurd ideas with expansive tinge, for example, "has oak trees inside him :" not infrequently lugubrious and depressed, he felt "very old." Another, at times conscious of being diseased in tho head and, then, recognising his delusions as sucl, had apoplectiform attacks, confusion, drowsiness, amnesia, occasional, excitement, dementia; later, depressel, lypochondriacal, stubborn, bellowing; later on, agitation silencoeuse: finally fatuity. In another, there was at first circular general paralysis, with successively maniacal, lucid, depressed, phases; later, delusions as to poison, and hence retnsal of
of impending injury Irom those about him, fear; later, variable, restless, excited, violent at night; by lay confused and incoherent, muttering about " thousands" and "millions."

In the seventh case the cardiac disease preceded insanity. The son of a drunkard, after an erratic course, rebellious to control and resistive of all regulating intluences, and during which he was syphilised and alcoholised, he fell more deeply into drink; under delusien, made a homicidal attack; beeame much excited, atterupted suicide, and fell into the abyss of melancholia attonita, from which, dying of rapid, caseons, pneumonic phthisis, he roused sufliciently before the end to speak again, and to express delnsions as to adrerse influences brought to bear upon him, and fear of hostile entities.

The eighth hat at first delusions as to military officers being brought to England under his charge, to be tried for an attempt to murder him. On this soon supervened profonnd amnesia ns to dates, passing of time, order of eccurrences, or recollection of them. Oecasionally were seeming hallucinations of hearing.
Sommary. -Thus the enses of stenosis at the aortic ostium, with clange of its sigmoid valves, in which the cardiac most probably influenced the mental state, showed some or other of the following-mental depression; ideas of persecution, of adverse influencers, of direct bodily injuries, inflicted pain, ete. Possibly, also, sulhen intercurrent outbursts of mental excitement aud violenee of act. Others in whom the sequence of events was doubtful, or in whomenes (some indistinetly), to which may be added delusions ns to bad or poisoned food, and perhaps refusal of it for a time.

Second Sub-group: Aortic Regurgitation.-Of several marked cases of incompetency permitting regurgitation at the nortic gateway, as the chief morbid cardiac condition, the ages were from 30 to 50 , and the arerage 38 years, at death, at which, also, the insanity had lasted from a few months to fion and in all but in a complicated ease of seventeen years duration; and the heart disease citlier distinctly or apparently preceded the insanity. In two there were both regurgitation and obstruction at the aortic orifice.* Two were general paralytics. One of these cases began with leadache, racant expression and manner, failing memory and speceh, delusions as to his own ideutity, and declaration of himself as various other persons. Then general paralysis became more manifest, with big ideas, and some hypochondriacal ones concerning his eyes aud head. From this he passed into a relatively lucid state, recognising his former delusions as such, but being chillish and somewhat demented. Fimally, he also became rambling and incoherent in his deseriptions, and died in a state of supervenient stupor, or apoplectiform seizure, with pulmonary congestion and hypostatic pneumonia. Gencral paralysis in the other was insillious in its onset; observed to be eccentric, the patient also made mistakes in performing military duties, so as to be unfit to carry them on; and was subject to sumden outbreaks of dangerous passion and destructiveness; of
markedly impaired percentire, reasoning, and mnemonic powe he became quint, olocdient, childish, incoherent, demented, extremely amnesic; at times smiling and pleased, at times devoid of cmotional feeling and expression.

Another, maniacal, in some respects resembling a general para-

- Ifesm, sverage weight, 3 ozs., av. Ineompotency of sortic valve, with sarious degrees of deformity. illckenlmg. atheroma, ibrotic change, cohesion. The left ventricle hypertrophiod amd dilated, ustally much so, big and rouncied; while in one casethe left auricle, and In one the conns artertosus of the right ventricle were noticeably and unduly canaciuns. The aortic sinnses of Vabsiva were usually moth changed. and the aortfe areh (In some the whole thoracic were usuably much changedated, calcareous, atheromatous, or dilated. The aorta) more or less notulated, calcareous, and the average $8 \frac{1}{3}$ ozs., had in some

 5if ozy. It bime washaly firm. Mr prasenting
lytic, at a comparatively early date was sleepless, loquacious, abounding in expansive delusions as to wenlth, rank, titles; continued partly tho same throughout, being also restless, prone to interfere, troublesome, talkative, and sleeping badly at night; agitated and noisy if thwarted in his impracticable wishes: obstinate, and requiring much attention and tact in management. Were we to stoy here, these cases might seem to indicate that by (if not a factor ing) insanity of a more or less expansive lind and exhibiting emotional exaltation. Cases similar to the kind, have led some, but not its originator, Mildner, to the idea that aortic orifice and valve disease is apt to occasion, or to be associated with, insanity presenting tho maniacal rather than the melancholic type. To mako suggestion on this point will oceupy us under the fourth sub-group of aortic-ralve cases; and here I hasten to add an example of what I believe to be more accurately tenable as insanity produced by, or influenced in its production or aqpect by, regurgitation of the blood stream at a dated aortic gateway, and incompetency of its now decrescent

Here, with insanity snpposed to be of several weeks' durntion, on admission, but possibly of three or four months', and with obviously chronie cardiac disease, were well-marked aortic diastolic murmur, also purplish, leaden, marbled congestion, of irregular pain, the patient heard imaginary voices, took the delusions that he was followed everywhere by persons who prevented him from earning a living and tried to unarder him; and restlessly he muttered. Admitted, he still asserted that these persons followed him, talked about him, acensed him of various crimes and his him, on which "on the streets, and once they tried to murder not see or hear his supposed would-be murderers a shop, he did say who they were, or ussign any reason why ther should or aet so; and he denied having done any wronglin criminal act Ilallucinations of hearing, only, were acknowledged as having existenl, and these as occurring at night solely. Later on, he was restless at night, getting out of bed, anxious, in fear, declaring there was a conspiracy to injure him in some way he could not detinitely explain, and that his bed had an evil smell (hallucination). Later on, he refusted to rise from bed or dress, and struck the attendant who insisted on his rising. Still hater, were deluto share that particular females got under his bed at night, or came That of such complexion, as in this last case, is the mental modification dependent on regurgitation at the aortic ostium,rather than a likeness to or identity with that found in the three cases preceding it, which presented expansive symptoms, otheras it were, in spite of severe gains also, I think, some support from the next case I will merntion here-that of the chronic lunatic in whom incompeteney of the aortic semilunar ralves, as well as abdominal aortic anenrysm, at times, and a diastolic apea murmur the aortic bruit was doublo A soldier becomes eccentric, surly, attempts homicide, has dehusions as to a conspiracy against him in the regiment, and that he is ordered "to act daft;" becomes sullen and threatening in connection with hallucinations of sight and hearing as to "persons Whot his and others' out of the regiment," and las the delnsion later, that ceverything went against him in the army, and the regimental doetor's mesmerism still affected him. Later on, quiet, sumblued, confused, of bad memors, incolerent and irrelerant in replies; he says he "would rather be dead thions influence stilt exerted on him by "a change of his number in Ceylon:" hallucinations of sight and hearing continuing. After curdiac disense and abrominal aneurysm are well-marked, at various times he is dull, emotionally depressed, "has people inside his skin lurting him," "flew at night." At times suddenly noisy and threatening about being kept in bed; delusions as to the occult constraint on
his limbs, extraordinary personal bodily injuries inflicted his limbs, extraordinary personal hodily injuries intlicted on him,
or that his breath is stopped by thick ail, or that he is anked through with medicine; hallucinntions of liearing; is sleepless, he says, and troubled, and devoid of self-control hecause of a book he has read, and makes other delusional statements. Here wo have a depressed modification of the emotional state, and delusions of pursonal injury and constraint more marked when the
cardiac and anewrysmal discases were becoming more disabling
and severe.
Although he did not definitcly become insane, I may mention the case (not counted in my statistics) of an attendant, of robust frame, moderutely athletic habits, active mind, checrful, somethat buovant disposition, fond of conversation, sociable, and free from special soutrces of andlety or care. Unaware of special discase, he hecame depressed, gloomy, brooding, silent, taciturn, forgetful; nor could his wife elicit from him any definite reason for this; in vain, ly reading, conversation, and other arts, did she seek to rouse him permanently from this state; he wonld soon relapse, although the condition varied wnel from time to time. Interest in his work failed, his duties were performed without life, mechanically, and in a defective perfunetory way. Fceling general physical malaise, and pain in the hepatic region, and suffering from pulmonary symptoms, he consulted me as to his health. Examination revcaled severe aortic regurgitation, the leak working backtrard on lungs and liver. He left, and a few weeks later dicd of his cardiac disease

Here, also, I may mention (althougl, like the last, not included in my statistics) a casc of aortic valve disease in a joung melancholiac, witl hallucinations of hearing voices which swear at him through the wall and tell him to cut his throat.

Third Sub-group: Aortic Iralne Disease; no very marked local Signs: Aorta not very mueh Affected, if cit all.- Kext there is a small group of cases which I shall not linger to discuss. Lisually the falve's crescented flaps were thickened, rigid, unduly opaque, and usually more or less eoherent or fused together. 'I'lese hearts also presented various degrees of flabbiness; but. with these comparative exceptions, they were not gravely disensed, had not undergone any very marled degree of compensatory lyjpertrophy, and no very great abnormality of cardiac function or physical state had been noted; nor in them-was there any, severe degree of discase of arcuate aorta; thercfore, they do not serve our present purpose. One was a case of hypochondria, one of dementia sccondars to mania, one of placid, gay syjuilitic dementia with congenitally feeble mind, and one of melancholic general paralysis in a syphilitic subject.

Fourth Sub-group: Disease of Aortic Ialie and Aortic Areh.Aortic valyular thickening, rigidity, fibrotic change, or atheroma: and marked atheroma or nodulation, or ceven ectasis or dilatation of aorta.

In this sub-group there were, conjointly, marked disease of the lumulate aortic flaps aud of the aortic arch, or in some instances of the whole thoracic aorta, but morbid physical cardiac sierus were moderate or even slight, and the valvalar alteration did not lead to marked obstruction or regurgitation of the kind I hase just been discussing, or to the grosser sorts of cardiac hypertrophy, dilatation, and so on.

Althongh they number twenty, yet four of these cases are mentioncl elsewhere in these lectures as illustrating some other point, and the following is a summary of the remaining sixteen only.

Tarying from 27 to 66, the age at deatly, on the aterage, was $42 \frac{1}{2}$. Tho order of precedence was doubtful in some; of the rest, in about onc-half the insanity scemed to liave preceded the licart. disease, and in about one-half the heart disease the insanity.*

Kental State.- Five were general paralytics, and onc other a general paralytic, recovered as to the physical state. In all but one were more or less expansive symptoms; in several with marked maniacal states, as well as the usual dementia, and in one with hypochondriacal symptoms. The remaining one was an example of the demented form of general paralysis. Some of these gencral paralytics wreresjphilitic.

Three others were syplilitic cases, as (a) a syphilitic, demented, ammesie, emotionally weak subject of right hemiplegia and general spusmodic tremor; (b) a syphilitic, melancholic, and suicidal, apathetic, confused patient. With rare fleeting excitement, later

- Of the anrtic valves in these rases, there were, in order of relative frequency. and differently combined in difterent cases, some of the following changes: - whe thickenetl, rough, opaque, coarse, occasionally much deformed, or thgid, me linot fo, calcareons, nodulated at thelr hases; or with corpora Arantif usergrown or fusci topether, or with dilated aortie sinuses of Falsalva. Aortic arelt tuose or less atheromatons, deformed; in some ridged or calcified in parts. The Sidneys were much granular and atrophied in only two cases; but in the masjority were one or more of the followiug changes: slightly uranular surface, or aliglit adiesion of capsules, or slight ordinary eystic change. Two cases hav Fule, or yellowish, or fatty-lookiug, and one rase somewhat lardacrous, kidneys, ome kidiey contained a rreamy caflection; in eno case was jremature and obauring decomposition of the kidneys.
tility, annoyance, and the general malevolence of those around him; and (c) a syphilitic, excitable, suspicious, moody, phthisical subject.

Three others were monomaniac; one chiefy of the persecutory type, one chiefly expansive, one partaking of both characters, bnt the persecutory element being the fundamental bnsis left after the early maniacal cxcitement had cleared up.r In all three, more or less deterioration, mental incompetency, tendency to confusion, and to incolerent, rambling replies land occurred before death together with persistent hallucinations in two.

Of the remaining four, three were secondars dements, their dementia being consecntive to melancholia or mania; and one was demented, amnesic, yet with some absurd, expansire jdeas, and witl emotional facility (dialsetes mellitus, destructive lesion of striate hody and crus, secondary degeneration thence downwards).

Thesc cases show a state of leart and norta which seems as if. it might often well be an early stage, or less marked degree, of the changes fonnd in the severe examples of incompetency or of constriction at the aortic orifice, forming the first two sub-groups : and in which, with marked signs of cardiae affection and of disturbed circulation, and grave alteration of heart and aortic valves, were also severe change and deformity of the thoracic aorta. In some cases an originally more active inflammatory basis is a requisite foundation of the eventnal changes we have studied under the marked examples already gronped as stenosis, or as incompetency, of the aortic lmate cusps; but the slighter cases, composing the present fourth sub-group of lesions of aortic valre, throw light, in my opinion, upon those grarer cases, and elucidate those (of nortic valve incompetency especially) in whieh we found a clinical history telling, rather, of excitement, grandiose delusions, and emotional exaltation, than of suspicion, ideas of persecution, self-nbasement, or melancholy; which former set of symptoms, as I stated at the time. I believed not truly to exemplify the modification of mental symptoms by the nortic ralve disense and its results and associated conditions; while 1 proceeded to illustrate by other cases what I take to be the mental phenomena or modifieations really dependent on a wideued aortic gateway, or one defectively guarded by its. crescentio folds. Whilst, as regards aortic stenosis, we found chicfly melancholy, delusions of persecution, of adrerse influences, of clirect bodily injuries, and. 111 some, occasional sndden outbursts of noisy excitement, riolence, or destructiveness.

I believe that many of the cases in this fourth sub-group originated in the way following: umeler excitement, or co-existent with some expansive mental disorder, there is great physical activity, and mneh straiu is thrown upon the circulatory organs. Before becoming insane, the future subject of such insanity often is active, engrged in strenuous effort, under a never ceasing urgent industry and activity, whether in toil or in the pursuit of pleusure. Fnergetic, pushing, free-eaters, free-drinkers of intoxicating liquors, ever ready to plunge with zest into work or play or debanchery-these persons, while sane, strain their hearts and aorta and other blood-yessels: and, should they become insane. are apt to get at first some excitable and expansive form of mental disorder, and, in some cases sub-inflammatory or active degenerative states of brain and cord. But whetleer as preceding or following the outbreak of insanity, the powerful leart, working irregularly, fitfully, at times violently, pumps the stream of blood forcihly into the systemic arteries; the kidneys, too, are averwrought, their function is emburrassed, the blood imperfectly depurated, and discase of the aorta and aortic valres follows (comes almost as part of the general condition), that of the norta being often primary and assisting to bring nu a valvulitis, or slower indurating or degene entive clange, in the, aprtic semilumar valves, casting, as it does, upon them a still greater strain, and inducing a further irregularity in the circulatory movements of the blood and of its impact on the crescents of the aortic valve,
llere, at first, is increased arterial tension. but in the bater stages, if with hidneys relatively affected in but slight degree. the tension remains normal, or is lowered, and there is no atsance beyma a moderate degrec of the disease of valre aud arcuate aorta. Usually with this latter eondition, and in a merely incidental way, is associated some deterioration of the former mental state: lut not the production of the symptoms I have found to lio those ordinarily seen with disabling aortic valve disease and its concomitunt affections and conditions.

Now, let the same chunge proceed further; let the valyular orifice become constricted or become unduly patent; let the signz,
revpectively, of obstruction of the hloodstream, or thase of the ruguruitation of incompetency, como into being; nud tot the killuey becmue more affected than before, aml still there may be, on the mental side. merdy is deterioration of the former excited or axpansive state, inasinuch as other influences may intervene and prerent the development of trae elaracteristic cerebral symptoms whuld remp aortic valve disease, anul these very magned cases whuhd repwent and explann those with expunsive symptoms reach at least one prohahle reason why aortie valve disease has been'erroneonsly held by some to bo charaeteristically associated with excitement. in cmitrast with melancholia, supposed by the same to characterise mitral disease.
Ifre we might well branch of into the subject of other eases of distuse aftecting the thoracie rorta, but, before passing to that, it is desirable to insert a few brief summaries as to torms and conditions of cardiac disease otller'than those already examined. And, first, as to disease gravely and about equally affeeting both the mitral and the aortic valves.
Both Mitral and Aortic Valves (with other changes).--1Lere come fourteen eases, but six of these are also mentioned elsewhere: Varging from 32 to 84 , the average age at death was 53 rears-the highest arerage we have met with thus far. With regaid to the cardiac sounds, pulse, and other plysieul conditions, the abnormalitics of these, marked in some eases, were in a few comparatively moderate only; yet 1 need not linger to analyse these signs and symptons in cases so complicated, but note, by the way, the frequency of feeble, irregular, intermittent beartis action and pulse in the more aged patients; also that, while it was difficult to estimate with certainty the order of precelence of in more sets of eymptoms, the morbia cardiace seemed to precede of the examples this point cannot be decided with certainty, so slow and insidions were they.*
Mental State-Six were general paralyties. On the whole, these 1 resented more irritability, surly moroseness, and intolerance of examination, interference, or management (and perlaps more depression) than the ordinary arerage run of caves of general
paralysis. Some of them, too, werc of long duration and aberrant course some of them, too, werc
Three were senile dements. Two of these were extremely restless, excited, noisy,. destruetive ; and one of these latter had delusions as to heing " 3 noisoned.
Two were subjects of "organic dementin," one being a 'ense of dementia with organie local destructive brain lesion, and the following clinical succession: epileptiform fits; dementia; ituprovement: maniacal exeitement; fits; left hemiplegia; fits denth. The other (gliema cerebri) was restless, confused, "lost.",
Thrce were' either deteriorated monomaniacs or eluronie maniacs. (a) Deteriorated, demented, muttering, confused, dt pressed state, following on delusions of change of sex.- (ib) Chronte mania, with periods of depression; latterly quiet, dexpressed, deteriorated, phthisical. (c) Persentory monomania : deIusions of being tormented; later, depressed, solitary, taciturn: lastly, delusions that his bodily organs are "eaten into."
Somewhat resembling those already given under the aorticralve sub-groups, these eases differ from the latter chietly in (a) the relatively prominent positiou held in the present group by senile dementia, and hy dementia associated with still grosser organic lesions than uncomplicated senile dementia is, the proportion of aged cases being high and unusual in this present group; and (b) in the relatively some what stronger number. of general paralytics in this than in the alove four combined aortie-valve sub-croaps. Meatally, those of the present group also resemble
nortic-valve much more than they do mitral cases, although several constituent members of the group showed something of the inental eomplexion olserved in many mitral stenotic eases,

More' or Less Gemeral Hypertrophy and Dilatation of Heart.
Of the twonty-two cases coming here, twelve are also made use - of in exemplification of other points. At death the average age

- Average welght of lientt, 13.2 ozs. av. The mitral and aortic valvespreseated some of the following changes: thlrk, ouaque, coarse, athromatons, oocasionally stenatlc or incompetent: ocea -ionally, fu the nortlc falyres, ulso.
 In't few cages, slmilar hist lerds eliange of tricuspld or mulmonary valves. The rentrlcles and suricles, ane or moro, hyluert ropluiad or dilated, or louth in sorue inatances tha left ventricle most frequently, natances tha left ventricie most irequebly, next the rigat ventracerate in auricle. The heart muscle niten more or less fabby, or even regenerate: ind carditic adbestons. The heact dicaserl In many examples, sind variously so.
was 45.6, years, the range being from 27 to 72 . The cases being linked together by the existence of hypertrophy and dilatation, very difierently distributed in the several enses, and associated or not with intrinsic valuular changes rarying in seat and extent, the physical signs necessarily differed much in the several chses, and so did the necroscopical recorde. The avernge weight of the leart was 14.36 ozs. av., and was brought down very much hy
hearts dilated bat not, or not much, luarts dilated bat not, or not much, hypertrophied.

$$
\begin{aligned}
& \text { Left sentricle hypertrophied in } 10 \text {, dilated in } 17 \\
& \text { Right auricle } \\
& \text {, auricle ", ", 4, " } \quad \text { it }
\end{aligned}
$$

In three or four of these dilatation was slight only.:*
Wental State.- Four were melancholic, depressed, deluded Mental state--rour were medanchos.
Six of monomania, abont equally divided, collectivcly or individually, between the expansive and depressed forms.
Four of general paralysis; of which one was expansive, loquacious, restless, intertering, obstinate, difficult: another demented, restless, nols, filthy, brutish; another slightly expansive, childish, querulous at times: and the last one successively expansive,-manacal,-hypochondriacal, abusive, querulous,-dementel, dolorois.
Three of dementia from organic brain discase, or coming on comparatively early in life:

## Two of senile tementia.

Three scattered single cases of other forms, derressed rathicr than expasive. maniacs, one throughout was of the perseentory form (electric batheries pluying on hin, conspiracies against him) ; one, formerly expansive, was lattely depressed, quiet, sombre: in one the earlicr mingled expansise and persecutory form had deteriorated into a relie of the latler element, associated with more quermonsness; one, formerly exalted, latterly got ilusions of extraordinary in-
fluences on his. powers and eonstraint on bis fluences on his. powers and eonstraint on his speech, hence his
dejusional silence: one, formerly expansive, eventually tool dol lusions about dead one, formerly expansive, eventually took debodily illness, and was childish and somewhat demented; and in nne early excitement and hallucinations, and subsequently mingled expansive apd perseeutory monomania, were to a larce extent replacer, latterly, hy delnsions abont "poison" in the food, and health.

Take these monomaniacal cuses, take also the particular general paralytics of the group, take the melancholic cases and the depressed delusional states, take the dements and senile dements, and we find the tendency of nore or less general hypertrophy and
dilatation of the heart is to be associated with depression, inelancholia, moroseness, sullenness, and also with dementia, amnesia, and, a general deterioration and defect of the mental powers; rather than with any symptoms of pure active mania, or symptoms of a more exalted or expansive form. Cndoubledly a number of the cases in this group presented expansive symptoms, but these were chiefly found in the earlier stages of some of the protracted cases. Exceptions to this exist where the compensatory lyper-
trophy Jas been-full and complete, and the limen a powerful stream of blool the brain; ohstructiou outsid the heart, if more than usual, being nevertheless overcome with the parative facility: Yet, the usual tendency of heart disease which ends in hypertroply and dilatation of any cxtreme degree and wide extent is to disable the heart and circulation: and disablement of heart and circulation tends to defective quality and quanand to mental depression the brain, to renous congestion thered and to menulonsucss, rather than to any aetively gay or cxalted symptoms. Concomitantly, and in some cases partly dum to the lieart disense', is the "dementia ohserred in so large a jroportion of the cases of this group, and in some of them grave brain degeneration as well.

The inental symptoms in this group of somewhat general dilntation and lyypertrophy of heart resemble those fomd with mitral

* In JB one or more scts of values rwere considemaly cliwensma. It 15 the heart-muste was to one ar several of the following statem: male: thathy, Trinte.
 wis conslderable disease of mortibe The kidheys, whose arentge welghe fer kidaey was 53 -12ths ozs. ar., hat' a 'degree of yranular change in one-hall. sind In a lew moro were palo, fatty, or presented ot her alterations, Average weish of spleens 8.1 oxs. av. Hall of them unduly firm ar hard: of many the caymultio of spenened, pigmontel, or cicatrised.
more than those with aortic-valve lesions; but there is a greater chronicity, and a greater variety in the mental clepression, and relatively more ilementia in this than in the mitral gromp. And that this resembles the mitral rather than the aortic-valve group is, of course, largely due to the fact that, the latter is weighted in one direction by the fourth sulb-group of sortic-valve cases, that in which valvilar change is conjoined with grave alteration of the arch, and in which, as we have already found, is a considerable. proportion of cascs with expansive and active mental symptoms, and a well conserved vital cnergy.

Partial Dilatation or Hypertrophy of Heart.
I have not included here the cases of slight or comparatively mild cardinc changes. Of such milel kind is the majority of the cases in which cardiae dilatation or lypertroply is due solely to the long-protracted, irregular violence of the heart's action, or strain of it, under persistent or frequently recurring montal excitement in clironic cases of insanity, or the resliratory embarrassment of the depressed.forms. let in some of the more extreme cases nuder this group, as woll as other gromps already mentioned, mental excitement or tepression probaloly lad some share in the prorluction of dilatation or hypertroply, notwithstamling the" operation of such factors as valvular lesion, or organic disease of brain, kidney, or lung.
llere wonld come trenty cases in which the condition was rery marked; but, inasmuch as many of these quite partial lypertrophies or dilatations-that is, those affecting one chamber yery chiefly or even exchasively-are due to, or connected with, either a preceding valvular change, or else incompetency of a valve, healthy in itself, but unduly patent owing to dilatation of a cardiac
chamber; and, inasmuch as eleven of the present group are of that nature, and therefore coming under some of the preceding heads; I take here the remaining nine only.

In them, the arerage weight of the heart was about 12.4 ozs. In five the hypertrophy, with or without dilatation, rery chiefly or solely affected the left yentricle; and in four the right ventricle, or it and the right auricle. The former were mostly genera] paralytics with-at least, in the advanced stages-well-marked symptoms of emotional depression. The latter were chiefly cases with well-marked pulnonary disease (tubercnlar plithisis), and mostly with irritability, moroseness, dépression, taciturnity, mental deterioration; and one, with both right, chambers immensely dilated and hypertrophied, was an asthmatic monomaniac (formerly of considerably exalted type), with typical changes of lung ("large-lunged vesicular emplysema"-Sir William Jenner ${ }^{27}$ ), nul of all the large, hard, congested viscern.

Any valre disease that existed in a few of these was comparatively slight and umimportant. In the former sulb-group of five cuses, there was obstruction to the systemic circulation from the bram disease of general paralysis, and in two also from the coexistent decided renal disease (in one there being subacute very slight gramular change. This obstruction induced left. ventrlcular hypertrophy; whereas, in the latter group, phthisis pulmonalis or asthma threw heavy work on entrophic right arcliac muscles, leading to their hypertrophy, the left not becoming similarly affecterl.
An interesting deviation from the above arrangement was the -ase of one who, besides phthisis, had hypertrophy of left venricle only, in a marlied degree, old adhesions of jsenua to the xricurdium dragofing the latter leftwards, and finally two lluied punces of pericarilial thid, and sub-pericardinl adenit over the "hat side of the heart. Although their cortices were thin, the zilneys weighed 6 and $5 \frac{1}{2}$ ozs. Latterly, he was irritable, norose, intolerant of examination, and bit attendants who held
nim. The irascibility, sullenness, and bad im. The irascibility, sullcuness, and bad temper were more ike the symptoms frequent in phthisis pulmonalis in the
nsane, than either the querulousness or apprehensive fear so ften observed in cmbarrassing or disabling heart disease.

This case conveniently leads us to glance at the heart in hthisical insune persons.
lut hefore cloing so 1 must mention a form of heart hisesise, inted at above, often consecutive to mental disoreler, hut often luparently of constitutional origin, aud commected with or formig part of the general vascular and circulatory contiion natural the individual, and becoming morbid in degree lefore or after 10 onset of insanity. I refer to moderate hypertrophy or dilataon of the right side of the heart, unaccompanied by marked is A Nystem of Medtcine, eatited by J. Russell Reynolds, M.D., vol, iii, 1. 1s6.

Valvular disease, Cases of this kind are scarcely represented in my statistics, inasmuch as they are comparatively slight or moderate degrees of organic clange, are cases, therefore, of a kind which Ihave excluded from eonsideration here, for the reasons already mentionenl. $13 y$ others the pure cases of this kind are usually mixed with cases presenting also hyyertrophy of the lett rentricle, and to this combined and impure (that is, mixed) grony is attributed a causation by the strain on the heart due to prolonged mental and physical exvitement and overexertion, as well as by the obstruction and interference with cerebral circulation oceasioned by the ohscure changes of minute vessels in some forms of insanity. This has been found mostly indementia and in chronic or recurrent mania. Thns, Dr. Burman, ${ }^{24}$ drawing this conciusion, however, from a single examination of the living cases in an asyhm, reported that he found hytrertrophy of right beart, with apex beat in the epigastric region, in 10 per cunt. of the cases of consecutire dementia, in 1.5 per cent. of chronic and recurrent mania, and in $3 \frac{1}{2}$ per cent. of melaucholia: yet the addition of examples complicated hy replacing or by modifying murmur yielled proportions very different from these.

But I think some further discrimination is necessary here, and that in a molderate number of cases, slight or comparatively moderate dilatation of the right side of the heart is consecutive to insanity, or springs from the same general vascular and const itutional condition as that which predisposes to the insanity, and that these cases take the depressed form : and the anguish of the melancholic and hypochondriacal patients, witly the interference with respiration thereby engendered, further aggravates this tendeney to dilatation of the right heart, or even dilatation and some hypertrophy.

As Mr. J. A. IIngeston ${ }^{29}$ said, with enlargement of veins, a general temency to varicosity, the mind is usnaliy maffected, but occasionally mental symptoms arise "from dilatation of the right side of the heart superinducing premature old age. Patients thus affected never are strong-minded or courageous, they have no heart for great things, but are timid and vacillating. They end by being fatuitous. Fout is often at the bottom of this malady."

The ITeart in Phthisical Insane Persons.- Of the insane who die, or die cbiefly, of phthisis pulmonalis, there are not a few whose hearts are more or less hypertrophied, and of full or over weight, like the patients mentioned in the preceding group, with hypertrophy of right rentricle or of both right chambers. For example, at the moment of writing, I observe the notes of a case not included in my statistics. This male patient, formerly of medium size, and weight, died phthisical at the age of 38 , with a heart as much as. $12 \frac{1}{2}$ ounces in weigbt, mottled, pale, flabby, friable, without any disense of coronary arteries, but with slight atheroma of aortic sinuses of Valsalva, and some pericarditis.

Nevertheless, the majority of the phthisical insane die with small, wasted hearts, which usually also are flabby, friable, and not seldom somewhat granular or granulo-fatty, that is to say, exhibiting that form of degeneration under the microscope. This oceurs more freguently than I had supposed it to do before the space of time during which I regulncly examinen the heart, microseopically, in almost every case in which 1 made a necropsy.

In the phthisical, anel in the tubereular, insane 1 have met with several examples of another form of carliac affection, consisting of taberculosis of the myocardium or pericardium, not infrequently with pericarditis. What I might say here on this subject I have nlready published ${ }^{30}$ in the Lancet several years ago, together with tro eramples of the affection, since when I have met with two more oxmmples. It is $a$ secondary clange, and unimportant in relation to our present subject.

Fatty or Cranular Degenerate Mearts in the Insame.-Only a fraction of tho examples of fatty or gramulo-fatty degeneration of the heart I have observed in the insane can be taken up here.

Of the twenty-five cases which happen to come in the notes amalysed, in twenty-four were necropsies, and one is a living case. But six of these cases of microscopically fatty heart had severe valvalar or other cardiac or aortic disease: in these few dases, therefore, the effects of the fatt $y^{*}$ leart, and its relations, are too much complicated for our purposi, whatever may have hecil the importance of the fatty change as a factor in the state of brain-nutrition. Derlucting these.t the remaining nineteen eases are adapted to our present purpose, nnd these alone are utilised

[^49]in the following. In many the fatty change was later than inannity.

4je- The average nge at death was about $44 \frac{1}{3}$ years.
Height of Ileart. The weight of the heart varied from 6 to $17 \frac{1}{3}$ nunces. The nverage was just over 11 onnces.
Degenerate Muscle of Ileart.- The muscle of the heart, whether pule, or of dull appenrance, or mottled by pale aud hy congested patches, was in all cuses llably, frinble, and in a state of granulointty or gramular degeneration. 13y which I mean that either the fatty molecules were scen; or else, there was a homogeneous appearance of the fibres, free fut-molecules, indistinct strix, and gramular collections, or the fitres also readily splitting up; or the muscle was of a granular appearance, the transverse strice quite hurred, almost effaced, hut fatty corpuscles or beadlets absent.

Coronary Arteries.-Of the casus in which the point was noted, in two-thirds were more or less atheroma, or whitish, or whitishyellow opugue thickenings, or nodules mul calcified patehes, in the enonary arteries, occasionally in the left one only.

Lunys.- In nine cases of the present group the lungs were more or less phthisical; one of these was fibroid phthisis or cirrhosis pulmonum.

Mental State.-In 6, delusions of persecution, ill-treatment, annoyance
4, dementia, secondary or primary.
". 3, later stages of general paralysis.
t, mental depression, melancholia (following violent excitement in 1).
$\because$, semile mental affections.
19
To particularise: I suh-group.-In six were several of the following synuptoms: thelusions of persecutiou or annoyance; for exnmple, $p^{\text {mitient suys he "is followed hy women who talk about }}$ him:" or, as in another case, "torment him." Next most frequently came delusions of bodily injuries inflicted upon them, such as bring "thrnttled," or of injuries done to their health br real or imagimary persons. In some the alleged injuries were of an extmortinary kind, were perhaps called "tortures," or attriluted to the malpraxis or malevolence of the medical man; in others the alleged injuries were rague (as part of general illusige), or nuly threatening or impending. Occasionally were deluaions as to the food being noxions: or ordinary hypochondriacal lleluaions, for example, as to the stomach being "full of fooll." In In some were may or may not exist.
In snme were restlessness, and irritable, angry, excited, ill-tempered. querulous, hostile atates of mind, or even hatred, associated With delusions such as the above; or obstinacy, contrariness, and solnesa: ar latterly in some, confusion and incolyerence: in sannesa: or latterly in some, confusion and incoherence; in
soveral cases, symptoms such as the ahore more or less superseded prerinus intermingling expansive ones.
II Sul,-group.-In four was dementia; ono of these, formerly maniacal, latterly was profane, oliscene, gross: one, at first maniacal, then threatening, insulting, with slightly expansire ideas: became a restlesa, impulsire, sitent, destructive windowbreaker, but finally quiut and more demented. A third for many years was a nerrous, apprehmensive, easily-startled dement; in the fourth, irmentia followed on early depressed delusional states.
III such-qroup.-In three was the demented third stage of general paralysis. Sinultaneously, one of these was also impatient, donuncinting, mornse, seltiah, jeslnus, foul-monthed, profane; nunthor, lepressed, weeping, stapicl; the other, obstinate, morose, dementel, hrutish.
IV S.eh-group.-In four was melanchnilia, with delusions of cuil impending or vernactunl injuries, conspiracy, poisoned food, false accuatinns against, the patient, with self-ahasement ; or refusal of cond unler the delusion of heing followed ly those to whom it belonge: or vague fears of poisonefl [ond, of leing electrified by a tnuch, or killed, of being atout in be burned, or injured by medical treatment ; or ussertions hy the butient that he has "no swallow and no stomach, and this Wr. cut otf his privates;" or he is Haciturn, hatheinatwh, depressed. uphthetie, amnesic, incolverent. Here 1 may" add inather cose. Afrar an early outhurst of excite-
ment under ragu: terror and with impurfect consciountess, tho pationt had idens of ill-treatment and of linstility to him, varue patient had idens of ill-treatment and of instilityo to him, vague uprehensinu, anxitty, nervousness, semi-terror: and early delirious confusion, rapid failure of heart, and teath under the onset of moderate pneumonia and congestion of lungs.
$r$ :- Besides the ahove, were a case of mania in old age, and one of semite tementia.

Although an accompaniment or even a factor in the eausation of symptoms such as the above, fatty henrt is not always an unmixed evil; incleed in some cases it may be a preservative lesion, for when the arteries are disalaed it may be safer for the suldiect to have a feebly-acting heart than a normally strong and vigorous one, as taught by Sir William Junner. ${ }^{31}$

Ancemic and spanemic as are many of these insume, yet the fatty degeneration in the above cases was more associated with a general deterioration of tissues than due to the defect of the oxy-gen-bearing elements of the hlood in grave and prolouged anemia. latty cardiac degencration from this latter cause has been found in almost all cases of jernicious anmmia, as originally abserverl hy Drs. Adlison and Wilks, and this degeneration of the heart in ordimary anmmia was made prominent in Dr, Coupland's Goulstonian Lectures ${ }^{32}$ several years ago.

Syphilitic IIearts.- As might well be expected, the four cases 1 have to offer in which the heart was syphilitic exhibit the most rarious states of mental symptoms, and present nothing characteristic, or on which one can fasten.
One of these cases of syphilitic heart $l^{33}$ published in full in the British and Foreign Med. Chir. Revien some years ago, and cited cases observed by Drs. Wilks, Ricord, Lebert, John Jorgan, Virchow, Haldane. Aitkin, and Mr. Jonathan Ifutchinson, In-
teresting pathologically, these casos of syphilitic licart are scarcely teresting pathologically, these casos of syphintic hicart are scarcely to our immediate purpose, and l leave them.

Anearysmal Mearts (four cases).-All the patients were males, aged at death $34,38,44$, and 50 years, respectively, and in all the left rentricle was the aneurysmal chamber.

One was the subject of dementin, annesia, childishness, and some depression. with excessively feeble circulation of blood, and tendency to peripheral ulceration and gangrene.

Another latterly, and differently from his previous mental state, had delusions of the fumes of sulphur and of corpses affecting him, and of darts of fire coming on him.

Annther, who had previously been in a mingled expansive and hallucinated state, with necasionally some ideas of being annoyed, latterly took marked delusions of annoyance by hallucinatory rices (chiefly women's), and including the roices of persons who "had been burned alive:" said he was " 300 years otd," and made absurd, incoherent, childish statements, especially on religious topics.
Another, having at first had hallucinations and depression, 111 defined alarm or excitement, for years with delusions of being sent to the asylum to be killed, of persons sent for the purpose, attempting to take his life, and these delusions necasioning paroxysmal cxeitement and violence; became subsequently the sulject of more circumstantial delusions-for example, people "rise in his mouth," "reply to him," "sit on his mind," " hreathe on him," and while thus persecuting him, desire andintend to take his life.

Without further comment or recital of the cases in detail, we may now add a summary of the modifications of mental state coincidently with disabling cardiac aneurysm. Usually in these cases of ancurysmal heart, when in an atranced stage of more or less physically tismbling cardio-aneurysm, the tendencs was to a moditication of the previnus insane mental slate in the direction of delusions of annoyance, physical injuries, and damaging acts and influences hostile to the patient's bodily state and health, and sometimes taking the strangest forms; or, persecution of another sort, and chiefly ty hallucinatory voices; while other delusions and hallucinations of sombre tinge, relatiug to denth and corpses, were observed in two. The compratively recent case of mental disease tollowing the cardiat necessarily related to our present topic.

Aorta: its Diseased Stathes in Relation to Insanity.
llere we take up (1) ancurysm, (2) nodulation, and (3) more ordinary atheromatous change of the anta.

1. Ancurysm of Aorta.-One might have spoken of the [requeney of heart disease in solliers. Fery frequent also is arterial aneurysm, hoth facts holling a relation to the comparatively largo amount of eardiac diseasu or ancurysm, and the large military element, in the cases for some years naler my eare.
[^50]Of the two lesions cliefly affecting the aorta in soldiers, (a) the passire limited opacity (sometimes fatty), and (b) the fibroid growth, Brigade-Surgeon F. 1I. Welch ${ }^{34}$ concluded that it is the latter which, lisintegrating, so often leads to ancurysm, or to implication of aortic valves, or to hypertrophy of cardiac chambers ; this growth is connected with syphilis in a major degree, with rheumatism and alcoholism in a minor degree; while the chest constriction and forced temporary exertion of the soldier act as adjuvants to the disease of aorta in the production of aneury sm.
On the other hand it lias loen licl ${ }^{35}$, that splis is On the other hand, it las been lichd ${ }^{35}$ that syphilis is only the predisposing and not the direct canse of the aortectasy.
The frequency of heart discase in soldiers whs attributed by Surgeon-Major A. B. R. Hyers ${ }^{38}$ to the prejudicial constraint of the uniform and accontrements, so obstructing circulation as to lead to abnormal stran of the lieart, a strain which may be brought about or aggraratel hy disease of the aorta, such as aneurysm, which latter, in the woing sollior, often appars to be due
to an acute inflammatory suftenimg, brought about by some screre to an acute inflammatory siftening, brouglat about by some screre distension of the affectet vessel.
Not accepting mechanical strain alone for heart disease in the
 E. Riordan made the anmurysins of conldiers to be usually secontary to heart disease, and the heard disnase to be due to Irill and discipline; the early drill, with rinlmat exercises and alteration of
form of chest, clanging the condilion of circulation much the form of chest, clanging the conclition of circulation much, the
discipline causing mental anriet and worrs. Sow, to a large
 ing the (real) aggrarating influence of the soldier's uniform and
acentrements therenjom. accout rements therenjon,
Entirely omitting small pouches or dilatations not giving rise to marked local or systemic symptoms, and not the cause of death, I bring forward eleven extreme cases, eight of the thoracic aorta, and three of the abominnl. Here i can only find space During and for a few particutars as to the mental state.
During, and for some time prior to, the attainment of large size
$y$ the still growing aneurymal tumour, in one were jeculiar delusions of being formented. grievonsly, hurt, "destroyed," and is bones bored into, ly snaki's, scorpions, weasels, in body and mbs. Once he had "seen" and once he had "heard" them. Ile shis body is full of snakes, scorpions, rats, and weasels, which lim up, gnaw on the banes, etc. "They are the most jonrible armint ever known." Later, often foels his head and hand falling has "pains all over," worse in trunk and head, equally on ctwo sides, and "boring pains through both jaws." "Is eaten alive; some of the "rarmint" make sores, which others eat, every day. It began the sume way six or seren years ago. Hillions of smakes and scorpinns grot insille him, and began eating his
body: They now push ont lifis ribs, first at one side then at the other, and eat them, and finaly level them one side then at the
out and eat the jaws." Later", heing short push put and eat the jaws." Later", heing short of hreath, he says it is corced out by the " rarmint "insille him. "His chest is all sores, and every inch of his hody is the same." Interscapular tubular pliration, 1 rofuse clammy swat. Later, respiration made in a dlen, rapid, autible way as if by one taking breath after a long
certion. Later, tracheal wherzing. Still later, he says the top his head, especially its left side, and the ribs are "split out." rgiu, sweating face; brassy congh. Once, subsequently, he ays the vermin "carry pocket knires, and during the last twentyur hours have leen scraping his ribs, first on the edge nod then peration of breaking them.". Drspncea, orthopnoen, giddiness, reeliness," and "n blindness" (as he called them), with cold nd purple hands, ear-tips, nose, and lips preceded somewhat sulen death.
Of another, the enefificates stated that he had the delusions that Was ploted against, conspired ayainst by certain women and a retain-, and also lig the men of the regiment; that, in an cited way, he demanden immentiate frial, or redress, refused to aswer questions about himuself, und was restless and exeited in ppearance.
Ou admiss
Ou admission, the delusions continued, hut he was taciturn, and mplaincd of pain in the chest amd dysumea (much relieved hy atment), with congestion of lings and expectoration, at lirst
ar, then streaked with bloml. Sn the case went on. He said

[^51]the men watched him and talked about him in India, and therefore he was sent into hospital. There wiere dyspncea, congested lungs, blood-streaked sputa, constant hacking cough, occasional severe pain in scrobiculus cordis, right infraclavicular and subscapular regions. IIe retrograded steadily, suffered much from orthopnoa, moaning, restlessness, malaise: declared that a galvanic battery was constantly applied to lim by Captain - and others; this they "took off," he said, on the approach of the asylum medical ollicers. He asserted that he distinctly heard them talking about hin, and what they would do to him, and saying "give it him," etc., and often he urgently pressed to have the police brought in, or to be allowed to make oath before a magistrate as to these hallucinations, and secure the protection affordel by law against his persccutors. Of anxious and painful expression of countenance, gloomy and anguished, he was a type and sample of the mental and physical suffering engendered by aortic aneurysm. (Edema, romiting, anorexia, icteroid and livid countenance, and, finally, painful delirium and orthopncea, preceded death.
Another was formerly the subject of monomania of persecuted and hypochondriacal type, blended with some expansive ideas: for example, "God and others speak to him in visions; internal voices cause him to speak and aet without power of self control." He had hallucinations. "IIis wind-pipe," he said, "is worked up and down; has two personalities in his body; there are two meanings in what he says; has been sent here in mistake for someone else; a false nerve is worked on his body." He made treacherons homicidal attacks on attendants. Later on, quiet, depressed, sullen, irritable, complaining of his detention, and subject to delusions of ill-treatment.

Dr. Sibson's conchusion, that the symptoms during life are less formidable in aneurysms that end by rupture of the sac than in those which kill without such rupture, is just what we rould expect as a general rule, and as such is easily explained on the ground that those which kill without rupture do so by their pressure-effects, which are formidable and painful.

It is well known that some cases of aortectasy, owing to their position and other circumstances, are almost unattended by any symptoms indicative of pressure : yield only local, innocuous physical signs; even when fatal give rise to no special functional disorder or organic change or pain of any other part until death, or until rapid changes in the tumour, rupture, or leakage, set up some painful distressing symptoms shortly bcfore the close of life. Aortic aneurysins, too, far more readily in the insane than in the sane, may not lead to complaint, as in one or two of the cases in my atatistics, and as may still more readily be the case if the lieart be fatty and friable, as in an example by Dr. T. B. Worthington, ${ }^{38}$ in which sudden death from rupture of a previously untaciturn melancholiac. And $1^{33}$ described a case in which thoracic aneurysm was unattended by symptoms until hæmorrhage from it occurred about twelve days before death.

In such cases we do not expect to find any marked or, indeed, any distinct, modifieation of the mental symptoms as a consequence of the aneurysm, its pressure or other effects. that is to say, as a consequence of the construction put ujoon, the interpretation arrived at of, the pressure effects and circulatory disorders engendered by the aortic aneurysm, that construction and this interpretation being those of a morbil mind. Consequently it is in cases such as those of some aspects of which I have just given a brief summary that we find symptoms which I believe to be those most likely to arice when aneurysm of the aorta modifies the precions mental state by its effects upon the important parts and structures aljoining it, and of these upon the brain. Into the other cases of large thoracic aortectasy I need not enter; they were not attended by characteristic mental modifications.
Aldommal tortic Aneurysms.-In three insane patients under my care the cause of leath was aneurysm of the abdominal anrta. It is perhaps unnecessary to give summaries of these cases, especially in view of the limitations imposed by waning spaee. Suffice it to say that in these cases of athdominal aortic aneurysm we find illistrations of the interpretation put by the insane mind upon th, symptoms, especially the pains, diseomfort, arising from the

[^52]pressure and other effects of the auenryam; nul wo find that interpretation taking the form of delusions of definite types, or showing a tendeney thereto. Wio trace in these abduminal aneurysmal cases at lenst the same character of delusioms as to loeal bodily injuries, lamages, personal injurics, hostile intluence:3 nud effects, and delusions of mingled persecutory and hypochonAriacal types, as in sone thoracic ancurysmal eases. Yet the abduminal aneurysms were complicated with wore or less heart disease, and, therefore, were not pure cases.
Of these rleven cases of large ancurysus of thoracic (8) and abdominal (3) aorta, only, five gave evidenca of nodulation of the norta; and of these the majority not so very markedy ns many other cases. This brings us to
Nodulation of the Aorta: Cases.- Here I mention twenty-seven casts, of which five are describel under aortic aneurysun, and several others presented small aneurysms or poucles.
Age--At death the average age of all the cases was 38.8 years; of the five with large aneurysms, ti2 years; of the rest, $3 \$ .05$ years.

Condition of Aorta.-The norta becomes irregnlarly nodulated hey greyish, somewhat translucent tissut, the elevations formed by which, and sometimes projecting boldy into the lumen, erentually contain opaque or yellowish patches; or the semi-translucent devations are more or less ridged; or at a subsequent, or cren at an early, stage the internal surface of the arta presents small, rounded, opaque, whitish, thickened patches; or in one part flattened, whitish prominences, at another sull-whitish or jellowish patches and infiltrations; these at points may be undergoing incipient erosion, or the elemated, fllroid, whitish and slightly bluish, semi-translucent formations may be associated with yellowish and calcareous patches, or the filroid thickening with yellow deposits here and there. Still later, and commingled, are puckers. yellow patches, calcareous plates, and whitish, somewhat translucent, ronud elevations projecting hetween the depressions; or nodules are surrounded ly stellate cicatrices, and, of the molules, the large ones have sometimes firm, yellowish-white centres. The conlition, is chietly a deforming inflammatory is usually included under the name "atheroma."

- Syphilis.- As to the question of syphilitic causation. In six; were distinct histories of antecedent syphili; ; sears on penis. or on tongues, in several cases. In a case or two each, syphilitic rashes, enlarged inguinal phanls, nodes ou perinsteum or bones, or syphilitic headache. In several cases, syphlititic lesions, gumantons or inithnmatory, of hrain, meningus, of or both. Calvaria dense, or of worm-enten appearance meternaly, meninges of brain very tough, dural hambrrhage or rusty films, "xcessive "adhesion and decortieation," or irregularly "listrilhated sclerosis of lerain cortex or other parts, ineluding pons anil medulla oblongata; syphilitic arturitis in vessels at hrain-base, or olsewhero. In one there was a syphilitic gumma in the wall of the heart; in another a guminntens pateli in a corvinary artery. In seven were gummatnus truces in the liver: in seven (mostly the eame) oll perihepatitie adhesions: in three, irregular thickenings of the caps perisplenitie uhnesion nembranes; in twa, irregular thickeninga of the capsule.
Mental state,-Fifteen were seneral paralyties, A larger proportion of these cuses than usiml presemteil markind emotional depression and corresponding delisinns and retions, heing cither raelancholic or lypochomiriacal. Some were of the demented form of general paralysis, anil many were inclineyl to the early pxhibition of restless, excited, itstractive, troublesmue, and atgradel states. Yot, in some, grandiose ident were well-marked cither interningled with or moxlifiel hy thu degressect ones, or - Hrart.-Ilcart on ilm average 11 mas., av.: It m marlo. Anbly, friable, in half the cases. Warked hypurtrophy of luft ventricip in five casta, und dilataion in thres of thewe; right ventricle hywertrophled aml dibation thred ceses.

 comnary arterim dimmaed. Climonle gortiovalvo dinmare exiafen in fon mas in

 sert in two : ether changes in sisugh ceases.





 huer. were clancred in many cases. In even the liver was eimatrivet, is in the manner tua to former guiniuat ; one liver wat lardiaccous. In a few was wery slight cirrhosis.
standing revealed in the more ordinury form. Of the groups of
general paralytics descrihed in my work on the subject, the third and fifth would bo those relatively represented in larger proportion hy the cases just mentioned, and, with unusual froguency, the eerehral changes inchuded irregularly but widely distrinated corticul or other somewhat localised palpable sclerosis, or tough rucninges, or an extensive distribution of that ehange which sclerove termed "adhesion and decortication."- One case of lead sclerosis, rcsembling general paralysis. Three cases of syphilitic dementia and emotional depression. Three of monomania, chiefty of persecutory or of hypochondriacul type; some of them much
deteriorated, but in two of them the earlier symptoms largely, the later slightly in two of them the earler syinptons of annoyance, of being tormented by women or others, with halluciaations, or resembling querulous or persecutory monomania, but not markenly systematisel. In some of them, at times, was an expansive tinge. Two of dementia, of different forms, following melancholia or mania. Total, twenty-seven. (Accompanied, not caused by nodulur
To begin with, several groups of facts stand out here in strong relief.
(a) The relative frequency with which aortic nodulation is found in general paralyties (certainly in military general paralytics), at least double their share relatively to other forms of mental disease and ratio of necropsies , so, also, the relative frequency with which comparatively localised sclerosis affected their
briin cortex, or other parts, or with which the meninges brain cortex, or other parts, or with which the meninges were un-
usually toughi or markedly adherent tensive area; and the relative frequency with which over an extensive area; and the relative frequency with which nelancholia,
dementia, and restless degraded states predominated ns comprel with the more nsual clinical aspects of general paraly sis (b) The relative frequency with which there is some history some clinical indication, or some necroscopical evidence, of syphilis (irrespective of the aortic change itself).
(c) Other points are : that most of these patients were comparatively somewhat young, or of early middle age; excluding the rery markedly aneurysmal, an average age at death of only 35 years: and, again,
(d) That the heart was not so often or so extremely direased na to be the dominant faetor in the morhid druma, either clinically or pathalogieally. The coexistent heart affection was, on the
whole oftener and more severe in affectivg the aortic rat her than the mitral ralves, a fuct which brings these cases much into line with a group already discussed nnder aortic-valve affections, and composed of examples of coexistent nortic valve and arch disease: in relation to which I showed how these cases arose cliefly in persons of sanguine temperament, active circulation, vigorous vitality, and bodily and mental activity, abounding energy, free livers, eaters and drinkers, and by no means frigid to the other
ser: who, beeaming insane, tend, on sex: who, beeoming insane, tend, on the whole, to have expansive
symptons, at least in the carlier stages, rather than synptonis, at least in the earlier stages, rather than ilepressul
ones. Avoiding repetition of that discussion, here, I merely add that the aorlic disense aud the similar changes affecting distant hlood ressels, even if in a minor degrec, aecount for some of the hyprertrophies found in a share of these eases, and chiefly of the left ventricle. And the last of the points here is:
(e) That among coincident clanges, were frcqueutly degrees of spate: and then there was the relative frequency of traces of gumstata of liver and spleet, of perihepatitis and perisplenitis of a rast dnte.
That the larger arteries of the body may be nffected hy syphilitic lesion has long been known. Lancercaux esen cited obsernatinns of the kind from the older writers on the subject; and
bainuler, examples. Cut it is especially from the medical officers of the British nrmy that has come the wiow as to the very frequent depoudence of arrtie diseaso upon syphilis. Thus Brigade-Surgeon thancis nortic endoarturitis a distimetuished from mere opacity or fatty degeneration of the inuer coat of the veasel, in the majority of cases was ennected with syphilis. In mast ensey of aortic aneurysm he foum that syphilis was the only diathetic condition to which the vascular disense could be att ributed. And in for per cent. of the cases of syphilis, terminating fatally through specian lesions, aortie nolulation was found. He coneluded that

In Jonmal of Mental Scimee, Jan., 1.66, pp. 5il-6. Jbid., Apr.

aoldiers there is often "a lesion of the aortic walls characterised by the presence of a fibroid growth in the deeper layers of the internal cont which as a rule ultimately disintegrates, and that this growth is connected with syphilis in a major degree, and with rheumatism and alcoholism in minor degrees as exciting agencies. There is also a lesion of the aortic wall, characterised by limited opacity and fatty change of the inner coat; this is common in all diseasea associated with prolonged general deterioration." And it Was the former of these two kinds of textural derangement of the ressel-wall which twas so often the precursor of aneurysm.

Practically, very similar views were held as to the frequency and effects of syphilitic arteritis in military patients by Professors Aitkin ${ }^{12}$ and W. C. Maclean. ${ }^{43}$

More Ordinary Changes of Aorta.- Here I bring thirty-five cases, a number which I might easily increase.*

Mental Condition. - In nine, general paralysis, of different forms.
In nine, dementia with local organic disease of brain, or widelyspread atrophy, and including cases from syphilitic affection of brain, and one of epileptic dementia.

In seren, deteriorated, incoherent, feeble-minded states supervening in monomania, or occurring in chronic alcoholic insanity; many with expansive elements formerly.

In three, monomania of mingled form, but the expansive clement more marked in the earlier stages, the depressed or persecutory in the later.

In three, parorysmal manircal excitement: delusions of annoyance, lostility, evil intent, poison in food, and as to surrounding and ubity; or expansive delusionis, and hallucinatory visions.

In fonr, either melancholic hallucinations and delusions, for example, "is robbed,"" is told by a spirit to cut his throat," "is peculiarly, affected by air;" and perhaps suicidal or apathetic states; or delusions of liostility and malevolence, or unsystematised delusions of persecution.
Total, thirty-five (The state of aorta a concomitant, not a cause).

Of the thirty-fire, eleven hare already been mentioned under "rortic valve and aorta" disease, the fourth of the sub-groups Imade of affections of the aortic ralre. These I might have omitted, and in place of them takenotlers with less or no valvular change; but the thirty-five cases fairly illustrate the average associations and combinations of the ordinary disease of aorta, and the conditions coincident therewith, except that senile dementia is comparatively little represented, the examples of that form. included, having also organic changes of a grosser kind than that at the basis of simple senile dementia. In ordpr to select the present group from cases of aortic change taken indiscriminately, we should exclude examples of extreme cardiac or valrular affection in which that affection completely dominates, and in which the coincident ordinary aortic atheroma is an affair of comparatively little moment, and we should exclude also the cases of marked aneurysm of arcuate aorta, as well as those of nortic nodulation.

Here apply many of the remarks and the general principles and conclusions mentioned in my commentary on the sulb-group of aortic valve affections, presenting coincident disease of a ortic ralve and arch; for here also do we find that in many of the cases in which aortic atheroma is marked at the necropsy there is an expansive mental element and excitalifity, in the early years

## th Practire of Medirine vol, $\mathrm{ii}, \mathrm{p} .6 .1 \mathrm{t}$.

43 13Ritisit Menical. Jourval. 1876, vol, i, p. 293.
 ordinary at heromatons kind, irregular thickening of the internal eoat. or internal mid middle coats, of the arch of the aorta; opaque whitish slightly mised patches, sometimes a gelatinous appearance. but more nften rellowish patches, some of them event ually becoming ealcareous. The surface of the aorta may be rembered more or less irregular, slightly ridged; the change often affected the sinuses of Valsalva, or the areh near where it springs from the heart. In a majority, one or both of the coronary arteries were more or less affected iu s manuer similar to that described for the aorta.
in some of thesp the left, wentriele alose hrpertrophied. partially or genemally in some of thesp the left, ventrielr alome was hypertrophied, or was an more than the ot her clamhers, whero several wero so affected. In the great majority
the hearts at the necrons were more or tess ta the hearts at the necropsy were more ur less fiabby, friable, or softenad. Iu
wighteen, was very deeded artic-valve disense. of these "onghteen, was vory deched aortic-valve disease; of these, In one was marked thirtern, was some mitral disease, on the average loss severe than that of the anrthe valve and orifice in the cases just mentioned; in ome of them there was narked mitral regurgitatiogn.
some of the large cerebril irteries at the base of the brain were atheromatons. The renal conangicumesty diseased in teu cases.
in the renal changes were as follows, In nind usually more than one of them existed in the same case: In mine the granular, in thre the ordinary cyatic chauge. "pht. With eapsules adherent or greatly thickened, two atrophic, and one in Curate, yut not distinctly granular; three entereal either as "montled" Kidney,
of as " subacute neplaritis, and one lardaceonf,
at least, even if later on there comes a demented or a painful and worried state, or one of imagined persecution; and we find that the diathetic conditions which favour the production of aortic atheroma, å a relatively marked change, also co-exist, with, and even favour, the production of activity, montal and physical. free-living, and so forth. And with these also is the influpnce of the sanguine temperament. Hence mental disorder is apot to hes active, expansive, often subsequently degenerating into a state of disagrecable, painful hallucinations and delusions, and eventually into a worse failure of mind and incoherence. But the widespreal vascular changes, so often coexistent, promote diffuse degeneration of nerrous tissue elements; promote, too, local destruetive lesions, visible to the naked eye, and destroying masses of nerrous substance; and not only so, but also setting up a number of secondary degenerative changes in neighbouring or else in syste-matically-connected and comparatively distant parts of the hervous system; and not only so, but also tending eventually tó - atrophy of the nerrous organs. Therefore it is that we find a large proportion of the cases with aortic atheroma end, on the raental side, in dementia, while some consist chiefly of dementia from the first; in them also are local and general motor and sensory symptoms prominent.

But in the later stages of many, eases there are depressed or psychically painful symptoms, and if the aortic is only part of a gencral atheroma-or in some cases where this is not so-melancholia, or states such as of unsystematised delusions of persecution and annoyance; or, again, the persecutory or hypochondriacal forms of monomania, may be observed. I am speaking of very marked atleroma; yet atheroma in its slighter degrees is so common a condition with advancing years, that we may speak of slight aortic atheroma as the usual, nay almost the normal, senile condition. Nevertheless, when it is very marked, atheroma is usually co-existent with cardiac lesion or degeneration, which dominates the situation, or else with disease of the peripheral vessels, whieh is far more important than the nortic atheroma. Therefore, with atheroma affecting the arterial system widely. and associated with embarrassed circulation, it is no matter of surprise, but, rather, to be anticipated, that the imperfectly supplied and bndly-nourished nervons system evinces emotional depression, mental suffering, mental failure, dementir.

## Statistical Summary of the Preceding. <br> Meart, Cases of Diseake of.



Of the 236 instances of diseased conditions, 163 trere of heart. and 73 of aorta.
Of the $16 \overline{3}$ separate disnased inlividuals, 107 were entered unfer " heart"only, and ts under " norta" only.
Besides the abore were many hearts in phthisical subjects nlready mentioned but not enumerated. I shall not take up the consideration of cases of embilism and thrombosis (often cerebrall. Before me is an incomplete table containing fifteen of the cases I have seen, to which others are to be adiled.
Ture distribution of prizes to the Volunteer Medical Staff Corps by Iler Royal llighness the Duchess of Albany, on Saturday. March 17 th, has, on account of the drath of the Fiuperor of Germany: beon iadefinitely postponed.

## ABSTRACTS OF THE MILROY LECTURES

 SOIE GENERAL CONDITIONS WITH REGARD TO EPIDEMICS.Delivered at the Royal College of Physicinns of London, Febriury and March, 1853.
by robert lawson, ler.c.S.Ed., Inspector-General (Retired) Army.

Lecture 111.-Epidemiological Asphets of Yetiont Feter. Sympton 8. -The Lecturer said that, from a elinical study of yellow fever in Jamaica during the years 1856-60, he had formed the opinion that the distinetive charnctors of the disease rrore:1. That it usually terminated in death or convaleseence from the fourth to tho seventh day, but that either event might occur as carly as the second or as late as the tenth or twelfth, or even later. :2. That the general yellowness of the eyes and surface commenced at rarious periods in different individuals and epidomics. 3. That the urine presented certain symptoms, namely, on the crening of the third or morning of the fourth day traces of albumen ; on the fourth day a considerable sediment, consisting almost wholly of resical epithelium; on the fifth day an equally copious sediment consisting almost exclusirely of granular renal tube casts. The urine by this time was scanty, contained much albumen, a diminished quantity of ehlorides and urea, and, if there were much yellowness, some bile pigment ; the excretion might formed comptely suppressed. From the thirl day the fieees, when formed, were greyish, or yellowish white, with an intermixture of hack matter, when flmid consisting of mucus of the above colour, or coloured by bile or blood. \%. As the urine and faeces assumed these (so-called fre was a tendency to baces, or ceen from therrhages is to the character of the fever it was necessary to recognise that the disease occurred both sporadically and in epidemics in a periodic (remittent or even intermittent) form, as well as in a continued form with a paroxysm of seventy-two hours, followed by the characteristic symptoms of the disense.
Mode of Origin of Epidemics.-Two views were held as to the mode of origin of the dispase in a locality; one attributed it to eauses in operation have been introduced by persons other supposed that it must have been introutuced by persons the ereat majority of examples adduced in support of the contaginusness of rellow fever, no attempt had been made to exclude a local cause. In numerous well-authentieated instances persons have contracted yellow ferer in a locality where the disease was prevalent, have removed to a healthy locality, and passed through the ferer there without affecting anyone about them, and that even when their numbers were consilerahle. The case of II.M.S. Bristol frigate was quoted as a particularly striking example; from this boat, soon after her arrival in Sierra Leone (December, 186.5), where there was a severe epidemic, a party of 116 oflicers and men were sent to the receiving ship Isis, which had had several cases on board ; the party slept na board the Bristol each night, and did not go ushore. Though the crew of the frigate included many young men fresh from lingland, and consequently fiade unacelimatised, not a single ease occurred in anyone who had not been on boart the Isis, though a large number were accurred among those whtentance on the thirtheright eases which accurred among those whon hud. The case of ll.M.S. Brillant was yellow fever on shore, while the ship herself was quite healthy, a severe ontbreak occurred; the slip went to sea, and after the period of incubation had expired no fresh attueks oceurred.
Alleged Instances of C'ontagion.-There was, it was said, no well zuthenticated instance of yeilow fever having been communicaterl ixy jersons who harl contracted it on board an affected ship to other persons on shore who lad not come within the range of the amnations from the ship. The instances, suppoed to have been afforderl by the Anne Marie, atSt. Nazaire, and by other vessels, were examined and shown to be capable of bearing a different anterpretation.

Influence of Local Conditims.- The behavinur of yellow fever if: Barbadoes was next discussed at great length, and while it was shown that the disease on many of the occasions when it was in-
troduced did not spread, certain local conditions were pointed to in connection with swanpy gromm, which appeared to stand in intimate connection with the outbreaks. The instances of the United States steamship, Susfuchanna and of 11.11 .5 . Orion were quoted as instances of ships nequiring the eondition necessary for producing yellow fever withont communication from a jrevious case. Statistics and oflicial reports were quoted in support of the proposition that certain epidemics of yellow fever in bermuth sprang up at different points in the islands without the previous intronaction from elsewhere of persons labouring under the disease. It was clear, therefore, that such an introdnction did not required to produce yellow fever, while the immunity which followed more extensive importations of persons labouring under the disease into liealthy localities, or during the healthy part of the year at those which are occasionally subject to the clisease at certain seasons, went far to prove that the introduction of eases of the disease had no influence in determining an epidemic. The potential factor must be widely diffused by aêrial means, but in a form incapable of giving rise to the disease until it meet with' a suitable soil for further development. The immediate exciting cause was clearly particulate, and was given off from a collection
of mud of mud in a ship's hold, or from a marshy or danip spot on shore.

## A CASE OF ANGIOMA OF THE LARYNX. Br l'ERCY KIDD, M.D., F.R.C.P., <br> Assistant-Physician and Pathologist to the Mospital for Consumption. Brompton

Anemita M., aged 50, came to the out-patient room on December 2nd, 1887, complaining of loss of voice. With the exception of two attacks of bronchitis twenty years and treelre montlis preriously, she had not been troubled with cough or expectoration For the last eight or nine years, "perhaps longer," her voice harl been very weak, and frequently had been lost completely. Menstrnation occurred every fortnight, and was excessive, otherwise her health was fairly good.
The patient was a spare woman, with a fresh complexion, lut was profoundly nerrons, and conld only speak in a whisper. Hel face flushed on the slightest excitement. The julse in the right brachinal and radial arteries was smaller than in the correspondinvessels of the left arm, but the pulse on each side was rery small and weak. The elhest presented no abnormal signs. On laryngoscopic examination a small tumour was seen springing from the anterior extremity of the left vocal cord. This tumour, oval in
shape and imperfectly bilobed, had a dark-red a ripe raspberry, its surface being faintly colour like that of uneven. The growth was attached to the mpper surfuce of the rocal cord by a flat ribbon-shaped pedicle, which pernitt of the movement. During deep inspiration the tumour at times slippie down into the sulgglottic region, and was almost lost to view, r appearing on phonation. The appearance of the tnmour roughly indicated in the accompanying diagram.


The mucous membrane of the larynx in other respects was perfectly healthy in every part. The rocal cords presented no trace of congestion, but, when phonation was attempted, they exhibiteal curious oscillating choreiform movements towards the median
linc. On inspin linc. On inspiration abduction was normally performed. Examimation was rendered somewhat difficult by the patient's
nervousness, which fare rise to spasmodic contracti sphineter miseles at short
Bromide of potassium and simple lozenges were prescribed, and the patient was advisel to have the crowth removed. A fortnight later, that is, at leer second risit, the throat was sprayed with a small quantity of a 2.5 solution of cocaine, and the tumour was antirely. Very little bleeding followed, but the patient was so
hysterical afterwards that she had to be kept in the hospital for a couple of days. Since then she has attended as an outLatient.

The left rocal cord was much congested for a few days after the tumonr was removed, hat the injection soon diminished, and a small, translucent, odematous swelling was noticed at the part where the growth had been attached. This has now disappeared, and the only morbid appearance which remains is a slightly swollen and congested condition of the left rocal cord, mainly affecting its anterior third. Tho patient's voice began to improre almost immediately, and is now quite normal.

The vocal cords still exhibit the same choreiform morements of adduction during laryngoseopic examination. The patient comes "wery few weeks to show herself, and was last seen on March 6th, 1888, when her condition was that which has just been described.

Microscopical Eramination of the Tumour.-The growth consists of a हystem of cavernous, rascular spaces of various sizes. Some of these spaces are partially obliterated by thrombosis, others are quite free from thrombus. Blood corpuscles are seen here and there in the lacunae, but in most cases they have dropped out during preparation of the sections. In many places remains of thromhosed spaces are visible, and there is a considerable quantity of coarsely tibrillated tissue having a lamellar arrangement (nrganising thrombus), sitnated between the individual lacune, especinlly towards the base and near the frec surface of the tumour. The growth is covered by a laminated pavement epithelium like that investing the healthy rocal cord, but not marked ly the nsual papillary indentations. Between the elpithelinm and the angiomatous tissue there is a thin layer of loose, delicately reticulated connective tissue containing scanty ronnd and branching cells and capillaries.
The vascular spaces are bounded by thin walls, which consist of glassy-looking, homogeneous connective tissue, lined by an endothelial membrane, and contain no monstriped muscular fibres. The structnre of the tumour is thus seen to be that of a cavernons angioma, closely resembling the form of angioma not infrequently found in the liver. Its origin is doubtful, though from the prevailing cavernons structure, and the complete absence of cellular growth, it seems clear that it was essentially an angioma. The history would seem to show that it developed in adult life.

Angioma is an extremely rare form of laryngeal tumour. Sir Morell Mackenzie, in his work on Diseases of the Throat, says that he has only met with two growths of this kind, "one grew in the right hyoid fossa, the other from the right rentricular hand." "A similar growtl,", he says, "has been observed in the former situation by Fauvel."
l can find no mention of angioma of the larynx in the pathological textbooks of Comil and Ranvier or Ziegler.

## OBSTETRIC MEMORANDA.

## PUERPERAL CONVULSIONS IN A I'RIMMPARA.

J. G., aged 25, married nine months, eight months pregnant, was taken prematurely in labour on Sunday, February QGith, cansed by having, on the evening of the 21 st, when seeing her mother off lyy the train, slipped and fullen into a carriage just as the train was starting.
1 was called to her at 12 p.M. nad found the membranes ruptured and the labour well advanced, the head presenting. The 1atient was flushed and excited in manner, but quite sensible and not much distressed by the pains. The infant, an undersized female, was horu at $1: 45 \mathrm{l}$.a. The placenta followed readily, and there was very little loss. I stayed with her some threequarters of an hour, and left her apparently doing well.

At 4 A.m. I was summoned, and reabled the lionse about 4.20 A.M. Shorly ly fore 4 A.M. sle complained of a strange feeling of oppression in the hend, and was scizel wilth a violent attrek of eclampsia. The couvulsions were genern, the tongue being bitten, and a quantity of bloody froth escaping from the month. On arrival the consulsion had ceased, but the putient
was maniacal and wandering. Twenty Wus maniacal and wandering. Twenty grains of chloral hyolrate Were given by the mouth, and she shortly fell asleep.
At 8.30 A.m. I was again sent for, as the convulsions had recurred at intervals, the tirst attack coming on within half an hour ul my learing the house. I prescribed a mixture with ten-grain doses of potass. bromid. to be given every hour or two, and visited
her soon after. She had then recently had a conrulsion, and was violently maniacal; the jaws were closed, anl it was found impossible to get her to swallow. I at once injected thirty grains of chloral in warm water into the rectum. This produced a speedr result, as the patient became quiet, and in a few minutes fell aslecp.

With some difficulty 1 introduced a catheter, and drexs off about an ounce and a half of cloudy urine. This, on being tested, was fonnd to be highly albuminous, quite a third albumen.
At 4 P.M. she was seen by my partner, Dr. Beeby, who gave by the mouth thirty grains of bromide of potassium. Slie was then quieter, but dull and semiconscious, haring had a convulsive scizure, but of less sererity, a short time before. Altogether, from 4 A.M. until 4 P.M. she had ten fits of conrulsions, the first fire by far the most scvere, and the intervening periorls occupird by maniacal excitement, except when sleeping for a short time after the doses of chloral,

I saw her again at 7 P.M. She was then more excited, and had not slept. 1 administered ly rectal injection forty grains of bromide of potassium, with twenty grains of chloral hydrate, and dusted five grains of calomel on the tongue, which she protruded when desired. She slept well during the night, and in the morning carly the bowels acted freely, the motion being dark coloured and rery offensire. She now awoke conscious, recognised her mother, and passed urine roluntarily. This urine when tested contained only a trace of albumen. From this time she made uninterrupted progress, the mammary secretion became established, and she was able to nurse her infant.
The patient was a fair, slightly made, delicate woman. During pregnancy she had suffered from a severe attack of plenricy on the left side, and after recorery had an attack of intercostal neuralgia. At 17 years of age she had an attack of scarlet fever. She herself had not suffered from convulsions previonsly, bnt a brother, at the age of 14 , after scarlet fever, had a series of convulsive attacks lasting over some time.

It is a curious fact that the patient lost all recollection of the events connected with the labour, and of all that happened in the days preceding it up to the date of her mother's visit on February 21 st.

Her recovery seems in great measure due to the effects of the chloral and bromide of potassium administered, and shows the value of the injection of drugs by the rectum when a patient is unable to take medicine by the month.

Bromley, Kent. Jlerbert J. Ilott, M.D., C.M.

## SURGICAL MEMORANDA.

## A CASE OF SUBSPINOUS DISLOCATION OF THE HUMERUS.

Owneg to the rarity of this accident, I think the following case may be of interest:
E. II., aged $5: 3$, a strong, muscular labourer, came to the infirmary on February Sth, I888, stating that while excarating for foundations a fail of earth occurred, and knocked him backwards against the side of the trench, his left elbow being driren forwards and inwards, and at tho same time upwards. He complained of great pain in his left shoulder and arm, which he could only move very slightly. It was found that he had a subspinons dislocation of the humerus, the diagnosis being easy. There was distinct flattening of the shoulder and prominence of the acromion, while the head of the humerns could be plainly felt lying on the dorsum of the scapula below the spine, and nearly halfway hetween the head of the scapula and its interual border. The elbow was dirccted formards, and could be made to touch the side with some difficulty. There was an inch and a half of shortening. The reduction was easily effected by means of extension at rightangles to the body and external rotation. The man made a good recovery, heing alle to move his arm well and touch the top of his head with his hand in three weeks' time.
W. F. Actlasd, M.R.C.S..

House-Surgeon to the Northampton General Infirmary.

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# REPORTS <br> ${ }^{0} \mathrm{~F}$ 

## IOSPITAL AND SURGICAL PRACIICE IN THE HOSPITALS AND ASYLUMS OF （YREITT BRITAIN，HRELAND，AND THE COLONIES

## LIVERPOOL ROYAL INFIRAARE

A C゙ASE WHEIRE A SLPPCRATING SFLEEN WAS ODENED AND DRAINED．
〔udur the care of Dr．Caton and Mr．Reginali Ilamilison．） ［From notes by Mr．L．Vifghas l＇arrx：．］ Tus following case（which in the first instance was under the tomporary care of 1r．Davidson，and then of Dr．Caton in the Liver pool Roval Infirmary，and was subseqnently transferred to Mr． Reginalid lfarrison for surgical treatment）will be read with intorest in connection with a somewhat similar instance recorded in tho Journal of November 1こth，1887，from the practice of the Burtwan Jhuieipal Hospital．
T．D．，aged 30，was admitted on December 5th，1886，complaining of shboting pains in both legs，particularly the left，with some wwelling．He had not resided abroad，nor was there any history of his having suffered from any form of malarial fever．lie appeared to have been a temperate man，confining himself to drinking a moderate amount of beer daily．He had an attack of aeute rheu－ matic fover fire years ago，and bad suffered a good deal in this way since．Ho was by occupation a painter，and was a good deal ex－ posed to damp and cold．He lad a rather severe fall some time previously，and tras unconscions for three days．He also appeared to have suffered from a severe attack of bilions vomiting three years since．His present illuess seemed to lave commenced a month tugo with shooting prins and swelling in the lower limbs，from the groin downwards．
On admission he presented the appearance of a fairly nourished， healthy－looking man．There was no jaundice colour，the skin being white and free from odema，except over the abdomen．There was no ardema of face；thero was fluid in both kneo－joints，and the right metatarso－phalangeal joints were swollen and tender． l＇ulse $8 t$ ，temperature $100^{\circ}$ ．Cardiac dulness increased．A thrill felt below the nipple，and a systolic murmur audible over second loft costal cartilage．Slight dulness over the bases of both lungs Ou＇examining the abdomen the liver dulness was found increased to four inches and a half．On the luft side a chull area extended lown mards from the last rib for four inches，and this dulness could be traced forwarda up to within half an inch of the umbilicus． There was phin and tenderness on pressure in both lumbar regions， eapecially in the left．The urine was normal in colour；specific tion：he stated acid；a trace of albumen．He frequently had reten－ he had never had any rigors．
During the next few days incrensing pain and tenderness in the left lumbar region and in the left side，alone the iliac crest，was comphaned of．On the II th the temperature rose to $102.4^{\circ}$ ；on the 13 th a distinet thmour wis discovered enineiling anteriorly and superiorly with the area of dulness referred to above，on the the loft shle，and posteriorly terminating at the anterior superior iliae npine．On the 15 th he suffered mmeh from pain in the lum－ bar regions and thighs．The urine was found to contuin pus，which previously had lreen absent，also liynline casts and granular epi－ thelium．The blond presented an abormal amount of white cor－ puscles．The splenic dulness was found to be continuons with that of the tumour；on these gronnds splenic abscess or tumour was diagnosed．On the lith tho tumour，which was inereasing in wize，tirst manifester fluctuntion．On the 2 thh，fluctuation being distinct，and there being much pain und tension，with a tempera－ ture of $102^{\circ}$ ，an aspirating needle was introduced two inches above the iliac creat，and nineteen ounces of dark choeolate coloured Huid were withdrawn．The microscope showed this fheid to contain rultitudes of altered red corphseles and lencoeytes．
The patient was better on the whole for some days after the anpirution，but the tumour was not mueh diminished，and on January Brd it was needful to repeat the neeration．Thirtern onnces of fluill，similar in claracter to the first，were withdriwn； the tluid was quite sweet．On tha lith ten nunces more were withdrawn．On the 21st the patient was uttacked with acute abuloninal pain．He was becoming emaciated，and it hecame clear that the medieal treatment pursucd the details of which are，for
the sake of brevity，omittel）needed to be supplemented by surgi－ cal interference．
On January plst Mr．Reginald Larrison saw the case in con－ sultation with Dr．Caton and Dr．Davidson，and advised that the tumour should be openerl into freely from the lumbar region．An incision was made parallel with the last rib on the left side．On reaching the sul）－peritonend fat and connective tissue the finger was passed underneath the rib in an upward direction，when it cutered a large collection of matter．About thirty onnces of pus， of a dirty yellow colour，escaped through an opening，which was freely enlarged with the finger．It whs noticed that masses of broken down tissue，which were proved to be splenic on further examinution by the mieroscope，were present in considerable quantities in the discharge．Alarge drainage－tube was intro－ duced after the abseess cavity had been washed out with a weak solution of carbolic acid．
The jatient rapidly improved after this operation．The dis－ charge was very free for some days，and contained many pieces of broken down spleen tissue．In the course of time the discharge became entirely purulent．On Mareh tht another incisiou wis made by Mr．Currey in the neighbourhood of the original wound to facilitate drainage；this was followed by an impovement in all the symptoms．
Steady progress continned until June，when there was some hardness and pain felt along the line of loupart＇s lignment on the left side；this erentually proved to be a collection of matter．The patient being phaced under ether，Mr．Iharrisou made an incision above the line of Poupart＇s ligament，and after making a deep dis－ section through the abdominal muscles，a collection of matter was discovered beneath them．This abscess appeared to be an inde－ pendent one，as no connection between it and the lumbar collec－ tion could be made out．
After this the patient＇s recovery was minterrujted，and he left the infirmary quite well on Angust 222 nd ， 1857 ．Ife has since re－ ported himself，and was in good health．

Undonbted instances of acute inflammation of the spleen termi－ nating in suppuration are，it is believed，exceedingly rure．As the whole process of this affection terminating in the recovery of the patient is illustrated in this instance，it has been thought worthy be，in this country at least，but little clinieal experience．

## REPORTS OF SOCIETIES．

## ROYAL MEDICAL AND CHIRURGJCAL SOCJETY．

## Tuesdat，Mated 13th， 1888.

Sir F．II．Sieveking，M．D．，President，in tho Chair．
Case of Neglecten Jislocation of the HLumerus，followed by Paralysis of the Nerees of the Hand and Forearm，treated by Lircision of the Head of the Humerus－ 3 Mr．A，Manadocke Sireind related the case of a man，aged 45，who was admitted into Charing Cross．Ilospital on September hum，Sot，suffering from ${ }^{2}$ subcoracoid disloeation of the left humerus of twelve
weeks duration．There had been mueh swelling and severe pain after the necident．Signs of inuplieation of the median and ulnar nerves were marked，the hand being almost nseless：the radial pulse was also diminished in force．Moderate attempts at reduc－ tion under ether failed to move the head of the bone，which
seemed tixed． seemed fixed．Exeision was therefore performed，and the hend
of the humerus removed at the level of the humerus removed at the level of the anatomieal neck patient was able to followr his rocation as waiter at a London lintel．The hand was regaining strength gradually，hat the museles of the little finger were still weak．Movernents of the shoulder were satisfactory．The method of performing the opera－ tion was briefly tonched upon，and short accounts of similar oplerations were relaten Reflecting upon the disastrous conse quences that might follow the foreible manipulation of ancient dislocations of the shoulder，excision of the head of the humerne was brought forward as a preferable method of treatment for case and scmptoms of nerve pressure cvided the Mr．J．W．JIrive fon－ gratuiterl Is．Sheild on the suceess of his case by a methoi
grate which he beliced limself to give great relief in excentional in stances．The procelure，of course，was not in any way novel． had been adrocated long ago ly Von langenbeek in his Arehin and was laid down as the standard practice by 11 uter and others in

German textbooks.-Mr. W. AD Ass thought the operation had been well devised, and had given suceess as complete is could le in such conditions, where, indeed, no other operative course was apen. Nicglected dislocations of this kind were not very common. Ile had himsolf met with a similar case at the Quepn Square ITospital in 1879, which had remained unpublished. The patient had had an accident as porter and lamplighter, but no dislocation lad been suspected : his deltoid muscle wastel, and he lost power in the arm, and for that was sent to Queen Square lifospital about two ycars after the accident, when the head of the lumerus was found to he lying on the clorsum of the scapula. Tho hcad of the bone was excised just bclow the surgical neck, and after about a year the patient became aghin fit for the lighter duties of a railway porter. Again, in 1885 , he had met with an unsus-
pected dislocation of the femur in a child which he treated by excision of the head of the bone, with a satisfactory result: Ife expectel that the operation would become more widely practised. - Sfr. IIoward Marsh asked whether Mr. Sheild had made the division of the bone through the anatomical or surgical neck; some expressions in the paper seemed to leave the point doubtful. He could bear willing testimony to the complete success of the operation, for he had examined the patient when he had been present at a previous meeting. Ile told the story of a less fortunate case which had been in st. Bartholomew's Hospital, in which there was much wasting of the muscles and excruciating pain for a long time. There were very many close adlhesions which Mr. Baker had in part broken down, witheut relief. Then the case came under his care, and he attempted to stretch the brachial plexns, an operation he had found very difficult, and which had made the man no bettcr. After that Mr. Sarory had excised the head of the bone, but the pain remained about as screre as ever.-Mfr. Holarfs had listened with great interest to Mr. Sheild's paper because he had always maintained that in some cases of unreduced dislocation excision was the best method of treatment, but he had had no opportunity of performing the operation himself. It was usual for pain after unreduced dislocation of the shoulder gradually to sulside. and to leave the patient with an arm that was of some nse to him, and temporising measures of passive motion, etc., were often advised. He lonked himself with great suspicion on subcutaneous section of the neck of the bone, or subcntaneous sections of the adhesions, and thought them more dangerous than open excision, considering the large number of important yessels and nerves close to the bone in the axilla. Dislocation might do much injury to ressels, as in a case he had brought before the Clinical Society in which the artery was bruised and leaked, and a very large hlood swelling resulted. . Tre had been unable to persuade the man to allow any excision of the head of the bone as he adrised, and death had ultimately resulted. When excision was allowed in appropriate cases it furnished a better limb than ankylosis or any irregular attachment of the dislocated bone to the scapula. They owed many thanks to Mr. Sleild for showing them a gond instance of this.-Mr. R. W. PARKER asked if Mr. Sheild attempted to reduce the bone after exposing it. He had been much interested by the case related that erening, and also hy an essay by Paul Bruns, of Tübingen, adrocating similar treatment.-Mr. II. W. PAGE thought it would be well to remember that the case in which Mr. Sheild bad operated was one in which there mas paralysis of the hand and forearm from pressure ly the head of the bone on the nerves, and he imagined his primary object had been to reliere that pressure. TIe had found himself that a very small relief of pressure might produce considerable results: in two cases when he had seemed to do little more than free the musculo-spiral nerve from not very constrictive surroundings, it had lerl to great benefit.Mr. SuEtco felt much obliged for the spirit of general approval with which his case had been receivel. Anong previous cases he had heard of another from. Sir W. Mae Cormac about eight years ago which was alluded to in the St. Thomas's IIosyital Reports, in Which the surgical neek of the hamerus had been divided and the head excised, but the result of the operation was not stated. In his own case he had divided the anatouical and not the surgical neck of the bone, from a wish to relieve pressure as much as pos-
sible, and also to avoid disturbance of the parts. Je had rounded very carefulty the end of the bono which was left in the wound, so as to make it ns like the real head of the bone as possille. He had made no attempt to reduce the head of the bone when it was exposed, and indeed lie doubted if it would have been possible, so tightly was the hone held by adhesions, and also he expected that if the bonc had been reduced the dislocation would
hare recurred. To reliere the prossure on the norves and ressels was, as Mr. Page had said; his main object; it was soon obtained, and the patient, as soon as he felt himself getting monch better, paid little attention to the passive exercise and, use of galvanism, Which would probably have produced a still more complete recorery than had been actually effected.

On the $\begin{aligned} \text { Taked liye and Microscopical Yariations of the ILuman }\end{aligned}$ Thyroid Body. By W. Hále Wirte, 3.D.- The anthor said the thyroid body was not sufficiently examined for it to be known -how variable it might be in patients dying of diseases which, as far as we knew, were unconnectéd with the gland. This paper was based on the examination of forty thyroids taken at random from patients dying in Guy's Hospital. The size of the organ was very rariable. It was as a rule emaller in adults over 50 than' in those under 50 . Its shapo was rery inconstant. Sare in myxedema the size and shape were unconnected with the fatal disease. The same was true of the size of the resicles, the average of which was one twenty-fifth of an inch in diameter. The more distended the resicle the flatter the epithelium, and the less the connective tissue between the resicles. Parenchymatous cells, leucocytes, and red blood-corpuscles, could all immigrate into the vesicles, and there, together with possibly the help of the epithelial cells, form the granular debris so frequently seen. Often all the resicles in the whole of one section might be thus transformed. The indentation on the edge of the colloid matter and holes in its substance were due certainly to its invasion by parenchymatous cells, and perhaps other cells had a share in its production. Sometimes the colloid matter had a double contour, and sometimes it contained oxalate of lime and cholesterine crystals. None of these changes could be associated with'nny particular disease. The amount of connectire tissue was rariable. One case of myxoedema in which the organ was completely atrophied, being nothing more than a little fibrous tissue, was describerl, as was another case presenting the same degree of atrophy in a patient dying of antic aneurysm. It thus appeared that atrophy of the thyroid did not inrariably produce myxeedema. The origin of vesicles from parenchymatons cells was considered. Lastly, the lymphatics were described.-Dr. Cheadle thought it certainly worth note that there was no myxoedema in the case in which Dr. Hale White had shown such complete atrophy of the thyroid. Ife considered the myxcedema to depend partly on the early nge at which the atrophy ocenrred, and to be of yery slow onset.' In two cases Dr. White had mentioned pressure on the recurrent laryngeal nerve, which perhaps had a trophic function, along with atrophy of the thyroid. Ihe should be interested to know if the ressels also were in these cases pressed upon.-Mr. J. Berrey had, during the last two years, examined eighty-three specimens of the thyroid gland, but considered the numbers too small to warrant any general conclusions, but sufficient to suggest some points of interest. He had found very great variations in shape and size; some were large and of a yellow tint. and full of secretion, and these were more common in cases of emaciation. Others were small and red, and with little secretion, and one nearly constant accompaniment of this condition was a good deal of fat on the body. It had been very marked in a case of great nbesity, weighing 2,10 stone. In old age the thyroids were somewhat atrophied, but of the structure remaining a fair amount was normal tissue, and in that respect very unlike the fibrous glands of misacedema. He had seen a case at Genera, in which the thyroid had been completely extirpated for fire years, but which showed no sign whatever of myxcedema beyond anxmia. The myxodema which was produced artificially was a much less marked state than the eondition that bore that name in England, which perhaps might be better distinguished as cachexia strumiprim.-Dr. W. 11 ALu White said that in the eases of atrophy with pressure on the recurrent laryngeal nerre there had beeniuo pressure on the vessels: and that in the case where he had found complete atrophy after death, Dr. Wilks had noticed no signs of myxadema during life.

## CLANTCAL SOCIETY OF LOSDON.

## Friday, March 9tif, 1888.

Howard Marsu, F.R.C.S., Vice-President, in the Chair. On the Operative Treatment of Dislocated Semihamar Cartilage of hree-Joint-Mr. Croft described the case of a labouring man, aged 39, who was admitted into St. Thomas's Hlospital in April, 1887, for well-marked symptoms of disloeation of the internal semilunar cartilagc of the right knee-joint. The joint had been attacked by rheumatic inflammation eight years previously,
fut had not been permanently lamed by it. The accident which had eausel the injury to the cartilage, and consequent lameness, had oceurred three weeks before the patient's admission to the hospital. As the man was quite incapacitated from following his cmployment, and suffered frequently from the displacements of the cartilage, Mr. Croft advised him to submit to a radical operation. In the belief that the anterior extremity of the cartilage had become detached, Mr. Annandale's operation was deeided on. The joint was opened on March 5 th, $18 \%$. The eartilage was found to have preserved its anterior and posterior attachiments, but to have been torn loose from its intermediate connections. It was lying in the intercondyloid spree. A tongu-shaped piece, about 3-sths of an inch in length, projected from its upper surface. This had been partly torn up from the upper surface of the cartilage. This was a worse condition than had been expected. The anterior and posterior insertions were cut through, and the cartilage drawn out of the joint. The joint was earefully closed. Drainage was provided for. The operation was done antiseptically. On the fortieth day after the operatiou the man was diselharged cured. He was seen four months later. and then had been in full work for some time. He attended for inspection by the members of the Society. Mr. Croft referred to the few positive data in Knglish works coneerning the subject, and drew the following deductions: (a) That the cartilages may be dislocated from their anterior and from both these insertions. That rupture of the posterior in zertion must be very rare, if it ever oceurs. (b) That when the circumferential relations are ruptured the cartilage tends to be displaced into the intercondyloid notch. (c) That in such cases as Mr Annandale's a. good result may le obtained by refastening the lonsened anterior portion of the cartilage to the tibia, and that in such cases as Mr. Brodhurst's and his own (that above described) the whole eartilage may be safely excised. (d). A working man may preserve a strong, useful, morable knee-joint, though the whole internal eartilage lans been excised. (e) Obstinate cases of this dislocation, attended by numerous "attacks of pain and disability, may be safely subjected to "inspection," aud, if necd be, to operative treatment for radical cure.Mr. AnNandale (Edinburgh) said he would confine his remarks to the displacements of the semilunar cartilages and the operation which he had suggested for the relief thereof. He had operated in five cases, the result in all of them being perfect. In four of the cases the internal eartilage was the one displaced, and this was usually the case. Ife had found it displaced in three different manners; in two of his enses the cartilage was separated at its inner attachment, and was displaced back wards and out wards; in one ease the cartilage was separatel and folded upon itself; in another case the internal edge was folled over, and the joint had thereby become sometimes locked; this loeking oecurred also at the operation, when, the joint being opened, it was found that the eartilage was partly in the intercondyloid noteh, which was the canse of the locking. In his fifth ease, the external cartilage was separated and displaced backwards. As to the operation, he made an ineision around but a little below the upper artieular surface of the tibia, a little lower than would appear to be necessary for the opening of the joint. The articulation being exposed, and bleeding all stoppert, the capsular ligament was opened, and with a blunt hook the cartilage was drawn forwards, nad then fived in position by two or three stitches to the eapsular ligament and head of the tibia. In his last two cases he had fixed it with a catgut ligature. Ite usel no drainagi-tube, finding it nnnecessary. He did not venture to move the joint earlier than six weeks aiter the operation. At first he used phssive movement only, and no active morement until quite a fortnight later.-Mr. Wivins Colhey mentioned a case on whieh he hail operated five months previnusly. The patient was a genthman, aged 21 , who was riding. when his horse rearel and fell on his knee. which soon became much swollen. All did well, however, until some six monthis afterwarls, when, as he was playing lawn-temnis, his knee-joint theeame dislocatet outwarts, almbictel, semillexeld, and fixed. The disloeation was remlucerl, hit synovitis followent, and the dislocation thenerforwnel recurrell frequently, ealling severe pain. Often when on horsebneck he lual in roll off his harse in order to rectify th: dislocation, which was not preventel liy knee-capse, de. Mr. Davies-Colley then prociendel to operate in the mannar which Mr. Annamhlo had described. He found that the internal carthage had two rents in it, rumning parallel, and the divilimg the cartilage into three rihbons. It had doubtlesz heen gylit at the time of the original uccident, im-
proved by the two months' rest whieh followed it, and then again separated by the sudden strain during tennis. Ite had stitched the strips together so as to fix them to the internal tuberosity of the tiliia. The case did fairly rell. There was at first a discharge of gelatinous material from the joint; but after a fortnight this ceased, and the eutgut sutures were discharged at intervals. After two months the patient conld bend the knee through an angle of abont $60^{\circ}$, and he eculd now walk about four or five miles, wearing a support which kept the knee fixed. Mr. Davies-Colley did not think it would be right to allow the patient to use his joint without support until six or eight months atter the operation. He would ask what was the best treatment to adopt in sueh a case.-Mr. MI. Allivgham remarked that he had shown at a former meeting a porter who had dislocated his internal cartilage. In October last, the speaker had cut down upon the cartilage, found it movable, and had fixed it to the bone. The patient was now well, and conld walk well.-The Chairmas said that the semilunar eartilage was evidently not neeessary to the functional use of the kneejoint. He alluded to a paper puhlished by Professor Kocher, which also supported that conelusion. The cartilage in Kocher's three cases being affected with a fungous disease, he removed it entirely, and the joint was just as good after as it had been before the operation. He exhibited an apparatus reeommended for many years past by Sir James Paget, which was yery beneficial in many
minor condition or eighteen montlhs, of ten produced complete cure worn for twelve thought that one form of disloeation had not been noticed by previous speakers, that which he designated "marginal." It might be produced in two ways: ( $a$ ) where a sharp instrument ran into the cartilage, and then upon being pulled out dislocated the eartilage outwards ; (b) where the knee was dislocated outwards and the semilunar cartilage was foreed outwards from the heat of the tibia.-Mr. Croft said his ease was verified by inspection of the interior of the joint, in this was its great value it was not a mere surmise, as were so many other eases in which the joint was not inspeeted. He thought that possibly in Mr. Davies-colley's case
convalescence would strips operation.
Notes of two cases of Disloeation of the Index. Finger, reducell by opening the Joint and dividing retaining Diand, after Failure of
the usual Methods.-Mr. Syanosps read notes of these cases. Both were boys, aged 9. In one the accident was eaused by a blow from a ericket ball, in the other by a fall on to the finger. The first phalanx was displaced liackwards, its base projecting above the level of the metacarpal bone, to a slight extent. The finger could be brought straight, so that the displacement of the phalanx was not severe. The most unticenlle feature was a prominence in the palm cansed liy thead of the metaearpal bone. The skin was tightly stretched over it, and almost perforated. There was also a deep sulcus running round one side of this prominence. Every method was nsed to effect reduction, including dirision of the tibrous struetures in front and round the back of the metacarpal bone. Finally, by a vertieal ineision, the joint was opened on its outer side, and while the base of the phalanx was fully expmed, the head of the metacarpal bone was concealed by a fibrons strueture, through which it had passed button-hole the The moment this was divided the head was released, and the dislocation reduect. I small fissure was then observed in cach ease in the cartilage. This extemded into the bone, was eri-
dently the result of injury; but did not contribute to the dif of reductions ref injurs, ion with useful joints to the diffieulty cases. In the scemil case an at lempt was made to divide the retaining structures sulicutaneonsly liy the light of the first That this failed Mr. S ymonls thoughit was due to the fact that the incision was badly phamed. He surgested that in future eases a tenolomy knife shonld be passed into the joint, and an ineision made on the head of the metacarpal bone from before haekwards. This, if carriced well forward, would have divided the fibrous ring thint retained the hend of the lione. The fibrous band was considered to represent the anterior ligument.
1), wocation of the Metacarpm-phalangeal Joint of the Thumb Dackecards, in which Frrision of the Heall of the Metacarpal Bene wras practised.-Mr. (i. R. Truser rend partieulars of this ease. The injury was eleven days old when first seen. and all attempts at rewluction by manipulation and extension having prowd un-
availinct on incion arailing. nu incision was made, and the laterul nponeuroses of the was found to be the tendo nain olstacle to reduction, however,
was was found to be the tendon of the long fiexor, which had slipped
iumards. After forcible traction had been made, this reduction was effected, but the dislocation was so ensily reproduced, and the parts were so tence and swollen, that it was thought hest to remove the head of the metacarpal hone. The wound healed kindly, and the man recovered with a perfectly movable joint. IIc was =hown to the Society some weeks ago, and, cxcept for a very little shortening, the injured was as good as the sound tlumb. The point of interest in the case was the obstacle to reduction offered by the long flexor tendon. Excision of the lead of the metacarpal bone in irreducible cases of this dislocation was adrocated.Atr. Cnoft lad had a case similar to the one mentioned by Wr. Symonds. The index finger was dislocated on to the palmar aspect of the head of its metacarpal bone. Attempts at reduction nnder chloroform baving been made and failed, Mr. Croft made such an incision as Mr. Syinonds had advocated on the outer side of the joint, and then, finding the capsular ligament stretched and the bone escaped from it through a buttou-hole opening, this was nalarged and the lateral ligament nicked. The bone then slipped back directly, and the child did well. He thought the casc showed the wisdom in the present day of not leaving stich a dislocation unreduced.-Mr.DAvies-Cormey asked what was the particular anatomical structure which prevented the reduction in Mr. Symonds's case? In a case of his orn, that of a child with dislacation of the first phalanx from the metacarpal bone, the glenoid ligament formed a band or apron which was pushed hack before the bone every time an attempt was made at its reduction. This band, when the force was remored, again pushed the hone out of position, and it was foumd impossible to reduce the bone until the band was divided. The case did well, and after three months only some stiffuess remained, but there was a capability of passire morement. -Mr. Symonds said that he considered the structure cut by him was the anterior ligament of the joint.

Adenoma of the Pinna.-Mr. Bland Sutton described this case. W. S., aged 64 , detected three Jears ago a small tumour hehind the left pinna. This tumour Tas situated over the mastoid process, and was about the size of a nut. It slowly increased in size. Ile was adrised at this time by an eminent London surgeon never to allow anyone to interfere with it. The tumour continuing to increase in size, inrolved the pinna, extended down the auditory meatus, made its way into the cavity of the tympanum, prodaced deufness, and incapacituted the patient from playing upon the violin. Ile was a skilful violinist, and in his leisure hours taught this accomplishment. In December, ISS6, the patient presented the following condition when Mr. Sutton saw him in consultation with Dr. Hollings. A tumour of the size of a big orange was found welged in between the mastoid process and the lower jaw; the pinna projected from the midst of this mass. The auditory meatus was quite blocked by the tumour, and its surface had ulcerated in two or three spots. Mr. Sutton took counsel with his friend Mr. Ifenry Morris. After due consideration, a full exllanation of the risks was submitted to the patient, and he was allowed to decide for himself. The patient was most anxious for the operation, and in January, 1887, the tumour was removed. It occupied the tympanum, and by its pressure liad opened ap the mastoid cells ; indeer, the anatoms of the middle car was clearly visible. The patient recovered rapidly, and in fiyc weeks was again occupied in his oflice. Three days after the operation he could again distinguish musical notes, and in a few days more the hearing rapidly returned. In a month from the day of the operation be commenced anew his studies on the violin, and for the next twelve months enjoyed lis fayourite instrument. Things went on wcll nutil February of the present year, when lie agrain [elt unwell, and on examining the scar it was clear that there was some return of the tumour. At this time he showed signs of aphasia, which gradnallj increased until he could not remernher auy moun, common or proper, not eren his own name. As the loss of the memory of words was the only prominent symptom, it was lecided to trephine the skull in the situation of the pterion and ascertain the limits of the iutra-cranial growth, and if possible again remove the tumour. This was done February 2Gth. The turuour was far too large and infltrating to allow of its remoral. Three days later the patient died. It the post-mortem. examination a tumuur of the size of a small oranire was found in the left midulle fossa of the skull; a portion of it had hurrowed backwards and projected into the lateral sinus. The tumour had extensively invaded the temporo-sphemoidal lobe, but Broca's convolntion had remained unafiected. The primary tumour was fonnd to be an adenoma, but the nature of the intra-cranial portion could not be determined in time for the mecting.

Dry Wouth or Suppression of the Salivary and Buccal Secre-tions.-Dr. HADDEN read this paper. The patient was a woman, aged 65, who had suffered from no affection which could throw light on her present condition. There was no history of familyparalysis, or of the prolonged use of belladonna. Her month began to become dry some months previous to obserration. The tongue mas red, devoid of epithelium, cracked in all directions like crocorlile skin, and absolutely dry. The mouth generally was dry, and the mucous membrane smooth, shiny; and pale, with a few patches of injection. There was also deficiency of moistureat the back of the plarynx. The tonsils were natural. The salivary glands, as far as could be made out, were natural in size. Common sensation of the inside of the mouth was unimpaired, but the sense of taste was retarded in consequence of the deficiency of moisture. When the mouth became moister later on, the saliva was found to be slightly acid, and to exert no action on a solution of starclı. During the time the mouth had been dry, perspiration had notably diminished, and the lachrymar secretion was arrested. The patient received much begefit from the use of jaborandi. A case of similar nature under the care of Mr. Hutchinson was alluded to, and one under Dr. Rowlands, of ${ }^{\circ}$ Liverpool, was communicated by the author of the paper. In conclusion, it was suggested that this condition of dry mouth was due to some disorder of the nerrous apparatus.- A MEMBRR asked if the patient had any dilliculty in digesting food.- Mr. Golding Brad asked whether, as the reaction of the saliva when it reappeared was acid, Dr. Hadden had first boiled the starch, and added an alkali, before testing the action of the buccal secretion on the starch.-Dr. HADDEN said that his patient's digestion was perfect. The starch was boiled, but no addition of an alkali mas made to it, as it was only discovered, after the testing had been completed, that the saliva had an acid reaction.

## OBSTETRICAL SOCIETY OF LONDON.

## Wednesdat, March $7 \mathrm{TH}, 1888$.

## John Williams, M.D., President, in the Chair.

Specimens.-Dr. Aust Lawaence showed a specimen of Extrauterine Foetation, with the Primary Gestation Sac.-Dr. Merman exhibited a Fotus and Placenta from a successful case of operation at the fourth month, two and a half hours after Rupture of a Tubal Sac.-Dr. Penrose brought formard a specimen of Left Tubo-abdominal Pregnancy, in which the Corpus Luteum Verum. was in the right Orary.

Scarlatina during Pregnancy and in the Puerperal State.-Tho two remaining sections of Dr. Boxall's paper, partly read at the January meeting, were now brought forward. VI. With regard to the clinical relation of scarlatina to puerperal septicemia, a brief summary of the sixteen cases of undoubted scarlatina was given, and it was pointed out that in one case only were the scarlatinal manifestations associated with signs of septic poisoning. Forts lying-in patients were known to have been exposed to one or more of the above cases of scarlatina. This serics was presented in a tabular form, giving the time and duration of exposure and the course of the puerperium. On this eridence it was apparcat that such exposure resulted in no detriment to the puerperium. As it might be urged that the 300 patients or more admitted during the prevalence of scarlatina were to a greater or less extent exposed, a chart (together with the percentage tables from which it was constructed) was also appended. This indicated the morbility (as judged by the temperatine) prevailing not only during the whole scarlatinal perind, but included, in addition, the three montls which preoeded the outbreak. From this it was evident that the prevalence of scarlatina in the hospital exerted no appreciable effect on other cases lying-in during the same period. The special ralue of local antiseptic measures in scarlatina during the lying-in perioul was discussed. The following conchasions were offered: 1. That infection by the poisen of scarlatina generally produced in the puerpera a disease which presents for the most part the usual symptoms of scarlatina, and runs the ordinary course of the disease without the appearance of septic manifestations. 2 . That the disease, in aldition to the usual symptoms of scarlatina (to a certain extent modified), may occusionally present sicus of septic poisoning; that, when present at the outset of the diseasc. pelvic intlammatiou and septicemia may usually lie regarded as accilental complications, but, at a later stage, such signs may be the expression of a septic process, analbgous to the secondary throat of ordinary scarlatina. 3. That in rare instances tho disease may asstume a masked
form, in which the orlinary signs of 1 scarlatina are alisent,
 that, in sumbe singh cuses, the only manifestation of the illness may be found in sigus usually referrech to septic poisoning. V11. With regard to the treatment of scarlatim during pregnancy tud in the pherperal state, Dr. Boxall, after referring brielly to romedial merasures, tiscussed the nemas which should be adopted to. preyent the spread of scarlatina to pregnait and parturicat women, Ho pointed aut the advisatility on the one hand of isolating all scarlatinal cases and disinfecting all contaminated articles, and ou the other of shielding pregnant and parturient women from the many risks of scarlatinal infection which surrounded them, and, wheu inssible, of removing such patients froun any district in which the disense was prevalent. The inHuence of a third person as a vehicle of infection was discussed with specinl reference to the conditions under which it was likely to be exercisel, nad, finally, tho measures which miglit be allopted to comateract that inilluence were pointed out. It was concluded, thally, that, as the poison might be carried not only directly by the hands, but also indirectly by the clothes and general surface of the booly, and possi'ly also by the breath, and subsequently given off into t're atmosphere (from which it was inhaled by the pat ient), therough washing and disinfection of the hands was not sufficient to insure protection, but that a disinfectant bath, a completechange of clothing, and active outdoor exercise should be nlso incluiled in the nccessary precantions, and that these measures should be adopted not only by the doctor, but also ley all other persons who have been bronght into contact with scarlatiaal poison, and eepecially by the nurse, prior to attending on at lying-in woman, or even visiting a patient advanced in pregnancy. -Dr. Dolas (1talifax) said that in privato practice it moult be imposible to carry out all the precautions laid down in Dr. Boxall's valuable paper. From persional experience he found that, contrary to the gencrally received opinion; the puerperal roman did not applear to contract scarlatina, eren thoing exposed to the danger. The puerperal death-rate did not rise in Halifax during seadutial epilemics. Two separate classc af/ practitioners, the first to attend labours ouly, nud the secord to attend cases of yeariatina, could not possibly be established, nor would such a system le necessary- - )r. P'LAyFAll reviewed some older opinions on Dr. Boxall's subject. Scarlatina had been held pecaliarly dangerous, under certain circumstances, to lying-in women. On the other hand, it might run a perfectly normail conrse. Lastly, the fever was supposed to run a very untypical course in some pucrperal cases, appeuring practically identical with puerperal fover or septicomia. Dr. Boxall's maluable obserrations did not disprove theso opinions. His patients, it shonld first be remembered, were $p^{\text {hanced }}$ in the most favourable conditions, where the praver effects of scarlatinn could hardly be looked for. Nevertheless, he admitted that he had obscrved a very mild form of cearlatinn, and also a mavked form, resembling cases of septic poisoning. Dr. Boxall had noted the incrensed susceptibility of puerperal wonen to searlatinal infection; the molification of certain symptoras, and the existence of some unknown modifying influence under the circumstances. If so, this inllucuce would be yet more powerful and less impeted in cases unprotected by the precanfons enforead at tho General Lying-in Ilospitat. Dr. Playfnir ragqested a thenry which would cxplain the signification of mild typical scarlatina nccurring in some puerperal cases, and of a masked and septic form in other cases. In the one case the I sease was contracted through the ordinary chances of infection; in th. other it was conveyed directly to the genital tract lyy the lmulk of the obstetrician or midwife, or lay iufected sponges, etc. Twenty-five years ago a lying-in ward was estnblishcd in King's tollege llospital. The arrangement was disastrons, and was at chuth abmidoned. During the existence of the ward there were ontlinenks of erysipelas in the surgicul cuarter of the hospital, and oincident epilemics of puerperal fever in that ward, hat the lying-in patients had no eymptoms of erysipelas which, on the ither hand, were scen in simue of their infants. Ilere was an analose with the conduct of the scarlatinal poison.-Dr. AUST Lawnever (Clifton) believel that some of these cases did not die of the ferer itself, but from decomposition of the lochia induced lyy the puison. In one ense the patient was saved by timely washing-out of the nterus.-Dr. Mebmar criticisal paragraphis 2 and 3 in the sixth, section of Dr. Boxald's puper, which incluled thenries alrealy nccepted by others. hut though still based more or less on conjectures, Dr. Boxall's conclusions were the result of a sound method of investigation,
for he began with the parent factore, the scarlet fever and the pueryeral woman. He had not, like others, started with the case, hunting back for the canse. Still, Dr. Herman was of npinion, conparing the above conclusions with the ruluable morlility tables before, during, and after the prevalence of scarlatina in Dr. Boxall's hospital, that the paison of scarlatima, when communicated to the lying-in woman, produced that dispase nud nothing else.-Dr. Leite Napien ilwelt at lingth on recent observations with regard to rashes which were not really scariatinal, and gave his own expurience on rubcola in the puerperium. These rashes must he remembered in relation to any case or series of cases of alleged mild and not, fatal scarlatina in the puerperium.-Dr. Braxtox lifess heliered that scarlatinal poisoning was frequently mixel with puerperal fever or septiciemin, thie scarlatinal elcment being lateat or occilt.-Dr. Mattmews duncan notell how antiseptic treatment kept away t'le microbes of suppuration and septicæmia, but did not ward off scarlatina: he bellered in the theory that the so-called scarlatina of midwifery and surgery included more than one disease, but he regarded true scarlation occurring within a few days of lying-in as a discase of enormous mortality. IIe had observel a red rash, with fever, which hegan around the wound made in opening a chronic inguinal parametric sinus. The rash spread, but there was no certainty that it represented sc rrlatua. Dr. Duncan did not beliere in the commingling of scarlatina and puerperal fevcr. When the former disease raged This fact aireed weck, there was no increase of puerperal
Adjournment of Discussion.- It was resolved by Dr. Garabra, secondel by Dr, ilozrocks, that the debate on Dr. Loxall's paper le adjourned. The resolution was carried unanimously.

## hariveiny society of london.

## Thitrdat, Marci 1st, 1888

Fillian Sedgitice, M.R.c.S., President, in the Chait.
Treatment of Eimpyema.- Mr. Mansell Mordidin read a paper on the suryicni treatment of empyema, based on an analysis of thirty four cases. In sixteen of these a discharging thoracic sinus was alrcady present. He pointed out, that the primary cause of the collapse of the lung Was the accumulation of thuid; but that the permanent cause of its non-expansion when the pressure Was relieved Was the alteration in the structure of the pleura and
the lung itself, and that this alteration was the effect of the ab sorption frelf, and that this atcration was the effect of the absorption from the irritating fluid in the cavity. When air had
already gaiued admission without drainage being perfect, so that the pus had decomposed, the thickening of the pleura wis much greater and more ofstinate than when the cmpyema had never been operated on at all: Everything pointed, cxcept in children and tubercular cases, which wcre expressly excludect, to operation as early as possible. l'rimary resection of a nib was hardly ever required, unless the empyemn was loculated; india-rubber tubes
very Yery soon wore the ribs awny, so that there was little chance of their being nipped as the thorax collapsed. Two thenes must they migh inserted, aven in the same intercostal' space, but there must be two for iffective drainage. The most convemient situation wras the one usually ndopted, in the fifth or seventh interspace in the mild-axillary line. Washing ont the cavity was quite unnecessary: if air was nillowed to pass freely in and out there whs no decomposition; the amount of pus discharged diminished almost to nothing, and the carity rapilly closed in. In old cascs the first
thing was to estallish free drninage by making a second ling was to estallish free drninage by making a second opening:
on five occasions it was necessary to trephine the rihs, as the of the chest lad practically become a solid bony cuirass. In two cases some of the ribs had been resected; in one, two inehes of four had been removed, in order to nullow the thorax to collapse, but the patient, who was already suffering from amyloid diserse, sank from exhaustion ten days after. In the other, portions of only two ribs were excised, as the simns ran rather round the thern, following the direction of those riks, than upwards as in
the former case. This was attended with considerable beufit. No trouble was experienced from the intercostal arteries on any occasion. The direction in which the simuses run must in each case determine where the ribs should he ent, how many should be remored, and how much of each.-Dr. Philups criticised the foew thint an operation sbould be performed early. He had secn goorl results follow from aspiration. He also thought that tro ophings were not essential, and was prepared to show cases which load made a stcady recovery after one. A hard-and-fast
rule could not be laid dowr'as to the best place for the opening. - Mr. Lickwood saill cases often fell into the hands of surgeous after a preliminary aspiration had been tried and failed. He had been accustomed to raake two openings and drain from eaeh; washing out was in many eases essentinl.-Mr. Mansfil. Moctur said, in reply, that thongh hie would not deny for a moment that cases of empyema could get well with ouly a single drainage-tnbe, he was sure they slood a hetter chance with two, as it was innpossible that a cavity like the thorax could drain satisfactorily from one; there must be an in-draught and an out-draught. He preferred an opening in the axillary line to one by the angle of the scapula, because there was less tissue to divide and less risk of displacement from movement of the arm, and especially when patients were lying in bed the plenral cavity could empty itself quite as thoroughly through one as through the other.
On the Functions of the Uvula and Eriglottis.-Dr. Scanes Spicer read a paper on the functions of the uvula and epiglottis. The rarious funetions of the urula in deglutition, phonation, articulation, respiration, and secretion. as set forth by different authorities, were first discussed, and then the author described an important function which had hitherto eseaped detection, namely, that the uvula served during normal (nasal) breathing as a conductor, guide, or dripping stone to convey the nasal and lachrymal seeretions out of the breath-may on to the lingual tonsil, there to undergo reabsorption into the circulation. These flnids were deliyered ou to the base of the tongue in a plane anterier to the epiglottis. From the lingual tonsil the unabsorbed portions trickled into the glosso-epiglettic fosss. and thence into the pyriform sinuses or hyoid fosse, along the lateral grooves of the epiglottis. It was mentioned that troo previous authors lad considered the uvula as a conduetor or dripping stone to convey mucns', ete, into the larynx for lubrieating purposes, or to the base of the glottis, where it accumulated until swallowed or harrked up. Common experience taught us that such intrusion of fluids into the larynx, as was assumed, eaused cough and spasm; these views were hence, in part, the antithesis of the one expounded. The functions of the epiglottis were next considered, and it was pointed out that the balnnce of evidence was against any deglutition function of the epiglottis, but in farour of its morements and position having an important couneetion with the piteh, intensity, and the quality of the voice. The author described the epiglottis as a permanent vaulted dam, which kept the salivary tluids, etc.., as well as those conducted by the urula from the nose, out of the larynx, and which shot them off laterally (if not absorbed by tonsillar tissue) into the pyriform sinuses along the grooved spouts of the epiglottis, which projected orer those sinuses normally. Clinieal obserrations and experiments bearing on these views, and tending to show their correctness, were given in detril.

## MEDICAL SOCIETY OF LONDOY <br> Monday, March 12 th, 1888.

Sir Whliam Mac Cormac, F.r.C.S., President, in the Chair.
Vote of Thanks.-On the motion of Dr. Althaus and Mr. Waishar. a rote of thanks was passed to Dr. J. Mughlings Jackson, the retiring I'resident, and the secretary and oflicers of the Society.
On the Caruses of Failure to find the Colon in Lumbar Colotomy. - Mr. Herbert Allinghan read a paper on the canses of the difficulty which was sometimes experienced in finding the colon in lumbar colotomy, and the best method of olviating them, which it is proposed to publish in full. Mr. Lockwond said the points alluded to ly Mr. Allingham had exeited lis own interest. IIe pointed out that Mr. Allingham's figures hearing on the arerage presence of the mesentery differed from those put forward some time since by Mr. Treves-a difference which, he thought, nnight be attributable to a difference in the methods of investigation.- Mr. Treves expressed his surprise that surgeons slipould pay so much attention at the present time to the bands of longitudinul fibres. He harl done a great many colotomies, and had never troubled to look out for the bauds. There were ample means of distinguishing bet ween the large and the small gut. He had examined 100 dead bodies, and foumd that in 52 of them the mesocolon was absent on looth sides, in 14 it was present on both sides, in 12 it was present only on the right side. and in 12 only on the left side. He thouglit the pructice of senrehing for these hands would be a waste of time, and would involve the risk-of rupturing the gut.-Mr. Marrisor Cgiprs pointed out
that the operation depended greatly on whether it was undertaken on the disteniled or on the empty gut. When distended there was seldom any difficulty in finding the colon, but when empty the diffieult - might sometimes be almost insurmountable. He advised inflating the colon in such cases. As to the bands, he certainly looked for them, though he did not attach the same importance to finding them as Mr. Allingham did.-Mr. Aflingitan, in reply, said that in stripping off the peritoueum the longitudinal fibres were often stripped off as well. He failed to see what objection there would be to opening the peritoneum when this, for any reason, appeared desirable.
Is Cominion Psoriasis a Constitutional or Local Jisease?-Mr. Malcola Monris first criticised the name "psoriasis," which, he said, ought to be restricted to a particular disease, a typieal example of which he showed in a boy. After discussing the manifestations of the disease, he declared its etiology to be "shrouded in ohscurity." He asked whether any relation could be shown between psoriasis and any recognised constitutional disease such as the eruptive ferers or syphilis. He pointed out that psoriasis only occurred in healthy subjects, and only involred the skin, not even the mucous membranes. He claimed that the alleged connection of psoriasis with gout was not founded on fact-that gout was comparatirely rare in hospital practice, while psoriasis was as common as in private practice. He scouted the idea that struma and gout-two altogether different affections-could gire rise to similar cutaneous manifestations. Out of 100 cases in private practice, only 3 had a gouty history, and he quoted Garrod as to the lack of fonndation for the belief that gont could give rise to psoriasis. He claimed that psoriasis was. so to speak, a disease of health, and if the standard of health wus lowered, whether by disease or drugs, then the eruption faded away to recur on the return of normal health. Ile queted several cases in support of this riew. He attributed the influence of arsenic in this disease to its action on the cells of the rete Malpighii, wherely the seat of disease was starred. In couclusion, he maintained that drugs only acted beneficially by influencing health unfavourably, and that sooner or later. on their cessation, the disease was sure to recur.

## OPIITHALMOLOGICAL SOCIETY OF TIIE UNITED KINGDOM.

Tillrsday, March Sth, 19 g. 3.

## J. W. Ilclefe, F.R.S., President, in the Chair.

On Retinal Hamorrhage in the Fellone Spot Region.-Mr. Lava read the notes of a case of a large macular hæmorrhage which was absorbed. leaving perfect vision. He remarked that in these cases where the rision was restored it was most proballe that the hemorrhage took place between the hyaloid membrane of the vitreous and the retina, and not as hitherto believed between the layers of the retina or in the chorvid. In support of this contention hedrew attention to the red colonr that the light presented to the damaged eye, and also to a folded appearanco of a membrane seen in front of the extravasation, and which could only be the displaced lyyaloid raised by the bamorrlage. TLe also explained the circular appearance of these hamorrhages by an anatomical condition noticed by Mr. Mareus Gunn-namely, that at the macula the hyaloid was pmbablynt attached to the retina at all. or at any rate not so firmly as it was around the yellow spot region, therefore a hemorrlage wonld be likely to be limited in the circular manner so frequently seen.-The finesinest observel that probably the hemorrhage did not own the same source in all the cases.-Mr. Silcock beliered that De Weeker gave a drawing slowing that the hemorrlage was in the ehoroid. In a case of his own the patient did not find objects. red: there was a very small central, absolute scotoma. ITe iuferred that the haemormages were choroidal because they were large, and at a point where there was no large retinal ressel, and, moreover, they generally cleared up entirely.- Mr. IETTıESIn showed diagrams of two cases of large semicircular bxmorrhage at the yollow spme ; the inferior maenlar artery, whieh traversed the blood patch, was found to be ohliterated in one case, and greatly altered in the other. These cases showed that the ressel which supplied the hlool-effusion was a retinal one. In some of these easery the blood in the early stage was fonnd extending on to the surface of the optic dise; in some the blood burst forwards into the ritreous some days after the extravasation at the fundus. These faets could be readily explained on Mr. Gumn's and Mr. Lang's hypothesis, but could hardly be explained if the blood came from
the choroidal vessels.-Dr. Andrason mentioned a case of retinal hwinorrhage where post onortem it appeared that the bleeding nust have taken place between the retina and vitreous.- Mr. Iasig explained that it was only in the cuses where complete recovery took place that the hemorrlage was in front of the retina. Ciliary Tunours.-Dr. Numss rend this paper. 1 to drew a line at primary ciliary origin, traversing knapp's view of their frepuency. Wetailing the varieties of these wrowths, after their division into the two great classes of benign and malignent, he referred to their diagnosis as between ciliary tumours and those conlmed to the iris, and lad stress on an early and accurate diaguosis, to be followed in tho case of iritic tumours by the immediate removal of the affected portion of tissue. Ile lointed to the value of a beam of light in cases where the diagnosis was doubtiful hetween early ciliary staphyloma and ciliary tumour, and deprecated the differential diaguosis between intra-acular tumours and barmless retinal separation by acupuncture. adducing examples of its danger. He further referred to the locality of these growths, and corrected his previous statement that they always arose at the inner quadrant. The mode of development was tonched on. The "iridodialysis" was explained as taking place in three different ways, each interesting, and suggestive of general infection. By the kindness of members, drawings and sections were shown ilhistrating the paper.-I'rofessor llirscmberg contributed some fine slides of ciliary and other ocular tumours, the author from his own collection bringing forward specimens and drawings of those rare affections.- In reply to the President, Mr. Lawfond mentioned that he had lately examined a tumour of the ciliary body, which proved to be a mixed round and spindlecelled sarcoma. The tumour grew from the wasal side.- Mr. Simeon Snfll had operated on two cases of sarcoma of the ciliary body in persons advanced in years.-Mr. McIlARDY mentioned a point of diagnostic value. He had found that where there was detachment of the retina, with intra-ocular tumour and diminished tension, the tumour had its origin in the ciliary body. -Dr. Meles annonnced bis intention of presenting the series of drawings used in illustration of his paper to the library of the Society.

Sarcona after Sclerotomy for Glaucoma.-Mr. Simeon Snetel (Sheffield) related this case. The patient was a man, aged 42, and sclerotomy was performed on Jlarch 27 th, 1884 , for subacute gla ucoma; great pain + T 2 , media turbid, cornea steamy looking, but vision was ${ }^{3}$ ? relief to pain was immediate, vision improved to $\frac{2}{2} \circ$, and tension became normal. Clear, and a good riew of the interior was obtainabje; beyond excurvation of the aptic disc there was nothing to note. In Ianuary, I8AG, he came with two small " lumpis," one on the site of the puncture, and the other at counter-puncture for sclerotomy. The selerotomy had been performed with HeWecker's knife, and thus the wound was limited to the puncture and counter-puncture, and to the width of the inatrument. The pain was relieved and the staphylomns subsided with eserine. Jle returned to work, but he said that during the whole of this year pain was never really absent. In September, 188f, he came with severe pain, and again eserine did some good. At the end of December, lisf, he was agnin seen, and then in addition to the staphylomas, at the punctures for scleratomy, was another above and between them; tension was decidedly inerenset, The lens was more opaque, and a view of the interior was not possible. He still saw large letters by turning the eye outwards. Iain was very severe. l'uncture of sclerotic was performed December 30th, with temporary reliof, and repeated on January 2nel, 1887. The 1847, enmeleation of globe; besides the autgrowths in front. Which reached behind, there were large nodules on sclerotic behind. The optic nerve was divided as far back as possible, and suspicious pieces of tissise removed. (irowth returned, and on Jily luth the orbit was cleared out, and chloride of zinc paste applied. No re-
curence. The tumour was a small spindle-celled sarcoma fillod the "ybluall, except a little space helow and to the inner side; it hal prrforated the sclerotic above, midway between the optic nerre and the: enrnea, and also at the onter side of optic nerve fontranes. Suetions of the eyeloull, monnted inglycerine jelly were aliown.-Mr. lawromb asked if there had been any sympitom of glancoma in the second eye.-The l'resinnast thousht it was very difleult to assign cause and effect in these eases, and remarked i hat sometimes a sarcoma tomained dormant for a very long time. - Mr. Draws thought that the ease wus one where his small beam of light would have been of diagnostic survice.-Mr. Power re-

Cerred to the danger of chloride of zinc: he had applicd it after clearing out the contents of the orbit in one case, where the patient had much pain afterwards, and died in two days fromythe artery being attacked by the caustic.-Mr. Netriesurp had seen bad results from the use of chloride of zine to stop hæmorrhage in these cases, and once death, which he attributed to it.--Mr. SNEL, briefly replied.

Punctured Hound of Upper Eyelia followed by complete Palsy of the Third Nerve and Optic Verve Atrophy.-MIr. Simeon SneLi (Bheflield) related for Mr. W. A. Gambari the ease of a boy, aged 7 . who, on April 19th, 1887, fell while holding a piece of stick, which pierced the left upper eyelid just above the margin. A boy puiled it out, but there was no reason to think it had piercos deeply. Ile was admitted at the Rotherham IIospital. The next day the eye was closed, on the fourth day the eyelid was still drooping, and, on raising it, dilatation of pupil, loss of movements of eveball, and the characteristies of complete palsy of motor oculi were discovered. The optic dise was normal. On May 9th, Mr. Snell saw the patient; the optic disc was a little paler than its fellow; complete paralysis of third nerve was present; accommodation was paralysed. A few days later recovery commenced by his being able to raise the eyelid a little, nnd by June 2nd ptosis had disappeared, and the movenents of the eyeball were good. When seen in November all affections of motor oculi had disappeared; the optic papilla was atrophic; the vessels were nat reduced in size; vision was very imperfect. At no time were the fourth, or sixth, or ophthalmic division of fifth involved. In discussing the nature of the lesion in this case, Mr. Snell said that direct injury to the parts at the back of the orbit was fxeluded, as the stick did not penetrate. Leber had accounted for cases of monocular amaurosis after blows about the supra-orbital region or head as due to fracture in the vicinity of tho optic foramen, and not to interference with the fifth nerve. Holder had pointed out also that in fracture of the base in 60 per cent. at post-mortem examination fracture of the wall of the optic foramen was found. Berlin or rent dhat Nuhn, in 18, shaght an explanation in an injury doubtful if the blow on the eye in the case related was sufficient to cause fracture, as Leber suggested, but it might have been enough to have driven the eyehall into the orbit, and causing jarring, or compression, of the optic nerve. The question why the The slow onset of the optie nerve atrophy se for explanation that the lesion of the downwards. The almost immediate presence of the thind passing palsy suggested effusion, which would allow of the recovery the completeness of the palsy pointed to the lesion being close up to or at the trunk of, motor oenli.- Mr . Netrieship thought that more proof was required that there had not been a penetrating
wound of the orbit. The explanation of the case he offered that there had been such a wouml, and he instanced affered wa similar case where a penetrating wound had passed unnewhat Some reason was wanted to explain why one nerve would and not another ; the optic nerve rarely recovered.-Mr. Edgar Dnowns took the same vien of the ense as Mr. Nettleship did, and mentioned a case whare ecehymosis was due to an unsus pected pipce of pipe stem hofged in the orlat. - Ir. Irrost had ha which a fatal tetanus resulted from a foreign body in the orbit. Dr. VaN JII.I.IN(iEN lud seen ptosis withont any other parulysis result from a blow on the orlit.-Mr. SNELI, in reply, said that the patient had been seen at once by a rery good observer, ane juat he himsolf lad been unable to detect any mark on the con-
junctiva and he adhered to lis beljef that there had mot been penetrating wound: even if there lad been, he conlel not seo then it would explain the jaralvis of the whole of the third nerve which lad been oliserved in this case.
Pulsating Tumnur of the Orbit with Prontosis. -The Passidext showed a case illustrating this condition.-Mr. ADsme Frost thonght that the patient's higtory was at least as consistent with an intracranial as with an intraorbital lesion, and the evi dence afforled ly the jathology of otluer cases would dispose him to take this riow of the case. unless there were strong evidence ir the other direction. In answer to questions, the man had again
and again stated that the jueee of wood that strick him was as thick as lis thing and weighed many pounds: that it struck lim with considerable violence: aud that the end was blunt and a. large as a fist. It was easy 10 mulerstand that the penetration of s sliarp fragment into the orbit miglat produce an arterio-venou
communication within the orbit, bat surely a severe blow from a blunt body without a perforating wound (as far as was known) would be more likely to produce a fracture passing across the carotid artery in the cavernous simus. The case presented difficulties riewed fron cither standpoint.

Card Specimens-1)r. Van Milinaen: Instruments-Mr. E. T. Collins: Disease of Choroid (? Colloid).-Mr. Bickmutan : l'iece of Glass removed from the Anterior t'hamber.-Messrs. Crimchint and Julerr: Case simulating (ilaucoma.-Mr. Dosse: Niew form of Optometer.

## EDINBCRGII MEDICO-CIIIRTRGICAL SOCTETY.

Wednesdat. Marcif Tif, 1888.
John Smuth, M.D., LL.D., in the Chnir.
Specimens, Clenical and Patholugical.-Dr. J. Duncav drew attention to a method of applying the principle of siphon exhaustiou to empyema. With the help of a very simple piece of apparatus he had thus been able to effect almost complete emptying of the chest cavity, the viscera being bronght into close apposition with the costal walls. He had beon disappointed to find, howerer, that adhesions did not occur.-Dr. Duncan also deseribed a case of hip-joint disease, when an abscess had burst into the ureter, with the distressing results that the urine constantly made its escape hy the abserss opening. The patient suffered much discomfort, and incurred considerable additional risk from the tendency to bedsores. This had heen olwiated by a pretty application of the principle of capillary drainage. Threads of worsted were passed lonsely through a piece of india-rubber tube. the mouth of which was inserted into the wound with the ends of worsted projecting. The tube served as a water-tight channel through which the urine circulated till the edge of the bed was reached, where it dripped from the worsted ends into a vessel.Mr. Cathcart showed a patient suffering from a Colles's fracture, proluced in an unusual way. A severe blow had been delivered on the palmar aspect of the hand towards its distal extremity, with the result that the radius was fractured just above its head. There mas no lateral displacement.-Mr. Chifne exhibited anexample of uncontracted blood clot. The blood had been drawn in the ordinary way from the horse, for the purpose of demonstrating the contraction and formation of the buffy coat, but the clot bad remained uncontracted.-Dr. Brece showed a bladder and urethra with extensive diphtheritic-looking membrane attached to the mucous surface. The patient had been irequently catheterised, and there was the suggestion of false passages.

The Clinical Talue of Temperature Obsertations in certain Acute and Chronic Diseases.-Dr. J. O. Affleck read a paper on this subject. The remarks were based on personal observations. The value of temperature registration was increased by comparatively greater frequency: Thus a four hours' chart gave information which was omitted in a twelve hours' chart. Speaking of the individual fevers, Dr. Affleck drew attention to the special value of a study of the temperature in typhoid. The usnally described clinical course of three weeks was by nomeans regular. In a large proportion of cases the duration was much longer. When the temperature rose above $103^{\circ} \mathrm{F}$. it was to he interpreted as indicating an increase in the ulcerative process. Pulso records should go hand in hand with those of temperature. Sometimes the results appeared contradictory. The temperature fell cluring delervescence, but temperature registration should be made from time to time. In illustration a temperature chart was shown where the temperature, which fell to normal on the twentrninth day, rose again on the sixty-third. With any alteration of diet or similar condition, the emperature was to be wateled. His lospital experience was rather opposed to the adoption of intemal antipyretic remedies in typhoid. In typhus ferer the best regults were to belooked for when the temperature fell at the end of the seventh day. In the exanthemata the value of temperature observations was less than in the eontinned fevers, thongh here, too, much might be learned by careful study. Thus, for example, the contimuance of a hicher temperature hevond the usual period suggested the probability of complication, which must be carefully sought for. Similar dedinetions miglat he made in connection with croupous pheumonia and acute rheumatism. In the latter frequent temperature records might timeonsly reveal the onset of hyperpyrexia. A chart was shown where the temperature in one hour had risen from $103^{\circ}$ or $104^{\circ}$ to $109^{\circ} \mathrm{F}$. The early observation of this, followed quickly by the cold bath, might be of the utmost consequence. In chronic disease tempara-
ture observation, though of less striking value, presented many mints of interest. Thus in the cases of pernieious anxmia which he had brought before the Society, the temperature had been eltvated more or less at first. gradually returning to the normal a* improvement took place. In myxodema he had shown at a previous meeting how the temperature tended to remain subnormal, in consonance with the experience of Mr. Horsley in the case of monkeys after ablation of the thyroid. The state of the temperature suggested the propriely of the line of treatment by hot baths. Further, he had found that in diabetes, as a rule, the temperature was subnormal.-Tbe Presment thought the thanks of the Society were due to Dr. Afteck for his most careful and suggestive elucidation of a Eubject so eminently practical.-Dr. Allax Jamieson corrohorated many of Dr. Aftleck's facts, and referred to the climatic or atmospheric influence as affecting temperature. In going ronnd the fever wards, Dr. Wood and he had frequently remarked how, on certain davs, a large proportion of the temperatures wonld le raised. They had tried to fram. theories on the subject, but so far were not possessed of a gond working bypothesis.-Dr. Matder was inclined to lay less strezs on thermometric records than be did in earlier clays. In all cases it was of importance that the pulse and respiration curves should be recorded synchronously:-Dr. Ciocston dretr attention to the value of a study of temperature in mental diseases. Thus in acute mauia and in certain stages of general paralysis there was eleration of temperature. Moreorer, if medical practitioners would, in all doubtful cases of supposed insanity, take the temperature of their patient, there wonld be less sending to asylums for mental treatment of patients suffering from acnte febrile processes. A number of such arkward mistakes bad come under his obserration.

## BIRMINGIIAM AND MIDLAND COLNTIES ERANCH. <br> Pathological and Cinical Section. <br> Fridat, Febrcary $24 t h, 18$ <br> A. S. Underulle, M.D., in the Chair.

Primary Cancer of Liver.-Dr. Simos showed a specimen of primary cancer of the liver, taken from a man wlo had bad no symptoms except progressive asthenia.
Perihepatitis in a Boy.-Dr. Simos also showed a specimen of perihepatitis. The lirer was from a boy aged 14, who bad harl ascites two years previously. Cyanosis was marked for some time before death.-Dr. Scceming and Dr. Cnooke made some remarks.

The Uterus in Menstruation.-Dr. Hogbes exhibited microscopic sections of the virgin uterus, taken from a girl who died during the menstrual flux. No shedding of mucous membrane was discernible.

Enlargement of the Liver in Rickets.-Dr. Hogbes also exbibited sections illustrating the enlargement of the liver in rickets. The specimens showed a cirrhosis of the more diffuse kind (multilobular), with thickening of the bile ducts and multiplication of the biliary canaliculi. The circumference of the pobules was invaded to some extent by a small-celled infiltration of the portal canals, and there was a slight degree of fatty inflltration of the hepatic colls. -The Chalmasis remarked that the enlargement of liver in rickets was more apparent than real, owing to the flattening of the chest causing downward displacement of the organ.

Rare Fracture of Olecranon.-Mr. Jonnan Llovd showed the upper end of an ulna which he had removed during an excision of the elbow for unreduced dislocation of eighteen months' duration. The patient. a man aged 27 , had been umable to work since the accident. The olecramon was fractured frum its upper end at its posterior surface downwards and forwards into the centre of the sigmoid notch. The fragment had been driven downwards and furwards so as to narrow the noteh to a depth of less than balf an inel, and hal united firmly in this situation. Rerluction of the humerus into the contracted sigmoid carity was mechanically impossible.

Simple Stricture of $G$ :inphagus..-Mr. Barlina showed a specimen from a man aged (in), who hat suffered from paiu and difliculty of swallowing for four months. The patient died suddenly after sharp pain due to swalluwing fuod. There was no history of syphitis, of injury, or of swallowing cornsive fluids. Tho stricture was close to the eariliac orifice and eneircled the osophagus, extending vertically for about threequarters of an inch. There was some destruction of the mucous membrane at the seat of stricture, and marked thickening of the coats external
to that Microscopic examination of sections from the whole thickness of the stricture showed only inflammatory new formstion. 'There was nothing to suggest inalignant growth, nor was there any enlargement of the mediastinal glands.
Salivary Calculus.-The Cuamman showed a calculus of unusual size, removed from the submaxillary gland of a man aged 40.

Prostatic Calculus.-Tho Cinamman also showed a calculus removed from the prostate of a child aged 6 years, who suffered from incontinence of urine and painful micturition. An ordinary sound failed to detect any calculus, but on passing a soft bougie a distinct grating could be felt. Rects? palpation coufirmed the diagnosis of caleulus in the prostate. By a median incision it was found encapsuled where the prestate should have been, evidently, some time previonsly, when smaller, having been washed down with the urine from the bladder. Its weight was 162 grains, length one inch and seven-twelfths, and breadth eleven-twelfths of an inch.-Dr. Ilognes referred to a case where a salivary ealculus was composed of uric acid, the patient from whom it was remored being gouty.

Diseased Suprarenal Body.-Professor Allen exhibited a diseased suprarenal hody from a sheep, with mieroscopical sections.

## PLIMOUTII AND DEVONPORT MEDICAL SOCIETY. <br> Mondat, Fenruary 20th, 1888. <br> G. Jackson, F.R.C.S., in the Chair.

Hhooping-Cough.-The Chairman opened a discussion on the trentment of whooping-cough, and stated that he had found Iobelia and belladonnn in the early stages cnt short the disease, whilst vaccination was of temporary benefit.-Mr. Wilson adrocated the use of bromides and belladonna, and change of air if chronic.-Dr. Bamptos preferred to treat the disesse on general princlples, but considered that chloral and carbolic acid were particularly valuable.-Mr. J. E. Square had had good results with creoselene.

Paralysis from Peripheral Nouritis.-Dr. Bampton rend a paper on this subject. Ife related the ease of a rhenmatie subject who had pain and weakness in the legs, followed by loss of power and numbness, slight swelling of fect, darting and shooting pains in shins. The patient alwnys felt cold. The right hand followed with loss of power and sensation, and later the left arm was attacked. There was absence of knee-jerk, but no eye symptoms Erentually the patient died of bronchitis, to which she was subject. IIe also gave an account of a case in au intemperate woman, aged 30. She improved under coffee and stryehnine, but died whilst slceping during the night.-Mr. Breston recited a ease of alcoholic paralysis, with bladder symptoms, that recovered under quinine and 'strychnine.-In the course of the, discussion, Dr. Danpros threw out the suggestion that possibly. cases of ininfantile paralysis were primarily of peripheral origin, caused by acute rhcumatism.-Mr. W. Woolcombe considered that the embolic theory explained the phenomena of infantile paralysis.-Dr. Bampron suggested that in the initial stage of infantile paralysis, salicylate of soda should be given, relating a case where convulsions were impeading, that responded at once to the drug.

## SOUTH INDIAN BR.LNCII (MADRAS).

## Fildat, Novpmber 4te, 1887.

Surgeon-Major Drake-Brockiman, Vice-President, in the Chair.
Surgical Statistics of the General Mrospital.-Brigade-Surgeon Sintronpe read notes, illustrated by an elaborate series of tables, on the statistics of the General Hospital, Madras, for nine years ending 1896. He stated that his objects in so doing were to place the statistics on record for future reference, and to improve the method in which they are recorded. New forms for the annual returns and the new edition of the remenclature of disease had come into use in 1887. The General Ifospital contained 308 beds, distributed as follows: medical, 110 ; surgical, 152 ; cholera, smallpox, and special wards, 33 ; oflicers' quarters, 13. The average number of admissions of Furopeans was 1,198.22, varying from $1,0: 27$ in 1842 to 1,562 in 1878 ; of natives, the average admissions were 2,296 . 66 , warying from 2,038 in 1883 to 2,536 in 1878. Average daily sick: Europeans, averago $6 f, 8$, varying from 56.21 in 1880 to fisfì in 1878; natives, average 130.8 , varying from 119.72 in 188I to 139.92 in 1878 . Mortality: the total admissions of both Europeans and natives come to 31,454 , the total deaths 2.028 , or a ratio pur centage of deaths to admisions of 6,44 . As to the form of the
returns, it was pointed out that the system of returning such a large number of diseases under the heading of "other clisethes" (for example, (1) syphilitic affections, (2) scrofula, (3) leprosy, (4) other diseases of this class) was unsatisfactory. The total admissions of Luropeans were $10,78 t$, the total deaths 518 , showing 8 ratio per cent. of 4.8 deaths to sdmissions for the nine years. The total admissions of natives were 30,670 , and the total deaths 1,510 , showing s ratio per cent. of 7.31 of deaths to admissious for the same period. In a later part of the report it was pointed out that native patients when in a morihund state were frequently removed by their friends. Statistics of a few operations were giren, from which the following death-rates may be quoted: Remoral of elophantiasis of scrotum, 68 cases; death-rate, 7.3 per cent. Operstion for strangulated hernia, 71 cases: death-rate, $46 . t$ per cent. Internal urcthrotomy, 27 cases; death-rate. 7.1 per cent. External urethrotomy or perineal sectiou, 54 cases; death-rate, 24.07 per cent. Major amputations, 108 cases; death-rate, $19.4 \pm$ per cent. of the 21 deaths represented by this rate, 3 were due to pyomis, 6 to septicrmia, 2 to gangrene, and 6 to tetanus. In conclusion, certain improvements were suggested in the way in which the hospital records were kept.-The Vice-President thought that itfrould never be possible to have reliable statistics of the General IIospital until medical and surgical registrars were appointed. Surgeon-Major Branfoot concurred.-To the notes were appended extracts from the surgical reports of the General Hospital for 1882 and 1883 by Surgeon-Major R. W. Cockerill, aud for $188 t$ by Surgeon-Major J. J. L. Ratton, M.D.

Ovariotomy.-Surgeon F. Clarence Smiti read notes of the case of a Brahmin woman, aged 33, for whom he had performed ovariotomy for a very large cyst.-The Vice-President made some remarks on the case.

Laparotomy.-Surgeon J. Smytir related the case of a Mindu womau, aged 42 , upou whom laparotomy was performed for enor mous distensiou of the abdomen. Maliguant disease was suspeeted ; this was confirmed at the operation, and the whole of the new growth could not be remored. The pmient suecumbed or the thirteenth day after the operation.-The case was discusse by Brigade-Surgen Sibthorpe and Surgeon-Major Branfoot.
Cysticercus Cellulorre: Surgeon H. Armstrona resd notes of case of eysticercus cellulose of the brain, which will be publishec in full.

## THE CLINICAT SOCIETY OF MANCHESTER. Ttesday, Febrtary 21st, 1898.

## S. Woodcock, M.D., President, in the Chair.

Enlarged Spleen and Liver in Rickets.-Dr. Railtan showed child, 18 months old, who suffered from rickets, and who had al of the liver. The child was perfectly blanched, and there wa
puftiness in the face and on the baeks of the hands puffiness in the face and on the backs of the hands and feet There was no history or appearance of syphilis: Lardaceou
disease, cancer, tuberculosis, and lencocythemia disease, cancer, tuberculosis, and lencocythemia, were each the right nipple line was 3 inehes, its surface was quit smooth, and its border was felt to be somewhat rounded but ever The spleen extended as low as the ilinm, was 43 inches long, an $3 \frac{1}{2}$ inches broad. There was no sscites, no onlargement of lym phatic glands either within or externally, the heart, lungs, an urine appeared normal. The blood showed no excess of whit corpuscles.

Mitral Stenosis-Dr, Railiton showed a patient, aged I: suffering from mitral stenosis, the result apparently of th chronic rheumatism known as "growing pains". There was history of scarlet fever, chorea, or acnte rheumatism. The supe ficial cardiac dulness eatended upwards to the third rib, but the was apparently no right hypertrophy, and the apex beat was with
the nipple line. During the tranquil action of the heart, the murmur oceurred as a faint roll occupying the diastole, imme diately following the second sound, and ceasing before the fir: sound. If the heart scted more quickly the roll disappeared, sn a rongh presystolic murmur became sudible, leading directly the first sound. The patient suffered no inconvenience from th disease, except some dyspncea on exertion ; there was no hom ptysis, cedema, congestion of liver, or other symptoms of failure the circulation.

Pseudo-filioma.-Dr. Hill Griffitif showed a child, age 4 years and 10 months, blind of both eyes from the conditio
knorn as pseudo-glioma following "inflammation of the spiue."
demonstrated the clinical characters of the affection, and remarked on the dificult diagnosis of pseudo-glioma (aplastic cyclitis) and real gliomn of the retina, illustrating his remarks by a typical pathological specimen of each.
Spinal. Injury--Dr. Willian Thorbtran showed a case of spinal injury sustained in April last. The patient had at that time lateral dislocation of the head and neck, with paralysis of the limhs, and trunk, etc. The dislocation being reduced a. few hours after the injury, almost complete recovery has ensued.

Mercury in Ophthalanic Practice-Dr. Emirys-Jones read a paper on the value of mercury in ophthalmic practice. He gave the result of his clinical experience for the past twelve years, and enumerated a number of illustrative cases of paralysis of the third nerve, chancre of the eyelid, descemetitis, iritis, retinitis, neuroretinitis, choroiditis disseminata, and atrophy of the optic nerre, in which mercury had been of sigual serviec. He expressed a preference for the treatment by mercurial inunction in most cases, and adrocated its rapid administration.

## SOCIETY OF HEDICAL OFFICERS OF HEALTH. Friday, lebreary 17 the, 1888.

Port Sanitary Administration on the Tyne.-Dr. Henry E. Armstrong read a paper in which he gare an outline of the history of the River Tyne Port Sanitary Anthority, which consisted of in joint board of representatives from Nerwcastle, Gateshead, Tynemouth, South Shields, Jarrow, and the local boards ou each hink of the Tyne below Newcastle. During recent years great changes in the port had been made by the Tyne Commissioners, who had spent half $a$ million on the rarious works for widening and -deepening the river, making piers, docks, warehouses, and otherwise improving tbe narigation and developing the trade of the Tyne. The effect, of thege works was greatly to increase the rolume of salt water in the river to a distance of several miles ahove Neweastle, to the sanitary adrantage of the riparian population. The effect of these inprovements on the commerce, of the Tyne was proved liy returns of shipping, slinpbnilding, imports and exports, ceal, etc., showing the large and increasing trade now donc in theport. The hospital accommodation of the Port Sanitary Authority incilded a pontoon hospital of thirty beds, in three-ward blocks; the original float of ten beds, which will be abandoned on the completion of the administrative block of the pontoon hospital; and a cholera bnspital of ten beds, built on the Dutch galliot Allimice. The nature and extent of the diseases for which patients were admitted to hospital during the seven years under review, aud the grts or countries from which such diseases were bronght, were stated in tables. The cholera precantions adopted in the port were described in full. A series of tables set forth the numbers of ressels arriving in the Tyne from cholera-infected or suspected ports. An account of the general sanitary inspection carried on in the port was given. A shurt statement as to the smoke nuisance and the action taken in respect to it, followed by some obserritions on the relations existing between the Port Sanitary Authority and the Local Government Board, brought the paper to a close.
Sanitary Administration in Tęo Fork:-Dr. Campbele Munro read a paper on this subject:

## MIDLAND MEDICAL SOCIETY.

Wednesday, February 2end, 1888.
Surgeon-Major Turton in the Chair.
Fracture of First Rib.-Mr. Marsu read a paper on this injinry. Ile thourht that it might be produced: 1 , by direct violonce to the posterior portion of the rib; 2, by force arplied to the manulirium sterni; 3 , by force transmitted through the clavicle. Two cases had recently been under his treatment:
Sarcoma of Uterus.-Mr. Jordan Luoxd showed for Dr. Hay Moxr, of Newhall, a nterus remeved post mortem frem a child aged 3 years. It was the seat of a mixed round and spindle-celled sarcoma, and wras as large as a feetal head.
Suprapubic Lithotomy.-Mr. Jordan Llond read a: paper on suprapulfic lithotomy, with notes of, six consecutive successful cases.
Llephantoid Cidema of the Face from Lnipus.-Dr. Scokinna showet a womant, aged 45 , suffering from this condition. There Was no family history of scrofula or lupus, and no family or persomal history of syphilis. When 14 years of age, she had some spots like pimples on each cleek, which spread over the cars and nose, and, finally attacking the scalp, caused loss of the hair. Abont
five years ago the upper eyelids becnme puffed and the swelling had since extended over the face anil neck. The face was much enlarged, and the upper eyelids much puffed, pitting slightly on pressure. The skin of the face was scarred and bleached on each cheek, these patches being connected across the nose. The forehead and upper cyelids were unaffecta? by the scarring process. The disease had extended along the s:uly on both sides, leasing white, bald, cicatricial patches. The neck and face presented patches of eczema, and the skin of the trunk was harsh and eczematous. There was no glandular enlargement, and the patient's gencral health was excellent.

## SUNDERLAND ASD NORTII DURIAM MEDICAL SOCIETY thersday, Febreary 16tif, 1838.

G. S. Brady, M.D., F.R.S., Vice-President, in the Chair.

Penetrating Wound of Chest.-Dr. Grat showed a man who had heen stabbed at the lower border of the second right costal cartilage. Pleurisy sunersened, and forty ounces of serum were removed by two aspirations at an interval of six days. After the second tapping the temperature rose at nights and the chest again filled; twenty ounces of pus were drawn off by the aspirator, and the man was now conralescent.

Urethral Calculus.-Mr. II. S. Rominsoy showed a boy, aged. $\overline{4}$ years, from whose urethra he had removed a small calculus. Ten days afterwards, when the wound had almost healed, severe hæmorrhage occurred per urethram, and was ouly arrested by tying in a metal catheter for forty-eight hours.
Syphilitic Psoricsis - Dr. Prowde showed a case of this disease. -The Chairman and Mr. Hopgood made remarks as to treatment.
Charcot's Joint Disense.-Dr. Prombe showed preparations of the knee-joint and head of femar from patients who had previously been exhibited before the Societ $\}$ as well-marked cases of this disease. The head of the femur was found to be completely detached from the neck of the bone, whic̣h had to a great extent disappeared.
Aldinism.--Mr. P. Bucmer showed a case and gave the family history of it, as well as of another which had come under his ob-servation.-Messrs. Legist and Sertile made come remarls.:
Ancesthetics.-Mr. H. H. Munic real a paper in whick he adrocated the claims of ether--A discussion ensued, in which Messrs. Robinson, Blumeir, Legat, Seviiliee, and Morgood, and Drs. Gray, Shelmerdine, and Prowde took part.

## Northumberland and durhay medical society. Thersday, Marcil 8ti, 1888. <br> G. II. Hune, M.D., President, in the Chair.

Cases.-Dr. Lxos showed a Bor with Congenital Deformity of Hand.-Dr. Arstson showed a Child with Multiple Enchoudromá of Fingers.
Excision of Portion of Sciatic Nerbe.-Dr. Ilcnes showed a man from whom a pertion of the great sciatic nerve had been excied for tumour. The tumour was a fibro-sarcoma, was of five monthis growth, and eccupied the greater part of the back of the thighl. At the operation Dr. Hume found the tumour incorporated with the nerve; the nerve was divided high up, and the growth shelled out; lower down the nerve was cut at the popliteal space. Thie mound healed by first intention. The patient could now walk Well.--In reply to Dr. James Drumano. Dr. Incme thought that the patient would retain lis power to walk, judging from his experience of another case similarly treated.
Lilephantiasis of Scrotum.- IIr. Prowne showed a man with elephantiasis of, scrotum. The diseaso commenced ten years ago, wheu he had stricture of the urethra, follewed by perineal abscess.
Sarcoma of Thigh.-Mr. PAGE showed a youth, aged Ie, whise left thigh lad been ampmitated for sarcoma. The operation was performed a year ago. The patient was now in excellent health:
Pyosalpinx.-Dr. Colure exhibited a wosalpinx remored from a young woman to whom he was urgeutly called. She was then in a state of collapse, nult in a ferm hours after she died. The tube had ruptrred. Tr. Cellie raised the question as to the results that might have beca ebtained had aldominal section been performed.
©Renu Valgun.-Dr. Colure exhibited photographs of genu valgum.

Caleuli--Dr. James Dromand exhibited calculi: remored be suprapubic lithotomy. from a man, aged $7 \pi$.-Mr. PAGE showeil
*even urinary and three salivary calculi; one of these latter was removed from the sublingul duct of a patient who hind cancer of the tongue.-Dr. Cntsp exhihited three calculi, one of which had been removed from the bladter of 14 woman by dilatation.- The nuelens of one of the calculi exhibited by Mr. linge was a pebble Which the patient some rears before had placed in und afterwards pushed up his urctl ra. hemarks were made upon the urimary calculi by Dr. Asid:RSOE, and upon the relationship of salivary calculi and cancer of the tongue by Dr. Oniver.

Rhinoplasty- -Mr. Ritulrmord Mombson exhibited photographs of cicatrix, and also showing effect of phatic operation; also photograjpls of new nose.

Chareot's 7isease.-Dr. l'rowne showed a knefoinoint and head of femur from a ease of Charcot's joint disease. They were taken ifrm a man aged 62 , who had never had syphilis, und who had no family or personal history of rheumatism or joint affection. Eight years ago symptoms of locomator atany showed thenselves. The lince-jnint rapidy swelled, and severe pain was complained of. The joint afterwards lecame dislocated, then the left hipjoint became affected, and this was followed by disintegration of the lift elbow-joint. The joint exhilited was completely disorganised, but on its under surface some new growth of bone was discernible-Dr. Oliver betieved in the association of this joint affection to the locomotor ataxy, and drew attention to the presence of new bony formation in the specimen exhibited-this not being the rule in these cases.-Dr. Limont also laid stress upon the recent hony growth in the knee-joint.

Anenrysin of Thoracic Aorta.-Dr. Onter exhibited an aneurysm of the descending thoracic aorta which had burst into the pleural carity. During life the man, aged 41, had suffered only from backache. Ile was pale and emaciated. There was dulness and pulsation below the inferior angle of the left scapula, and here a systolic murmur could be heard. The patient died suddenly

Anerrysm of Aortze Arch-Dr. Jimes Drummond showed an aneury*m of the areh of the aorta opening into the right auricle primarily, and afterwards rupturing into the left pleural cavits. The patient had never complained even of pain until threc days before death.

Malignant Tumours.-Dr. Heati exhibited several malignant tumours. One, a scirrlus of the breast, had the nipple so completely retracted as to be quite out of sight. The sides of the groove thus formed were eczomatous when the patient was first seen by Dr. IIeath, and the two things together led him to the diagnosis of cancer, for the diseased nodule in the breast was extremely small.

Iydatiol C'yst.,-Dr. Heath also exhibited several hydatids which he lad removed from the abdomen of a woman.- In the remarks whieh followed, Dr. Mantle raised the question as to how iar retraction of the nipple was to be regarded as diagnostic of cancer. One of his own cases had had retraction of the mipple for the last six jears and no cancer.-Mr. P'sae said he was interested in the remarks made by Dr. Heath whilst exlibiting the Torms of the cchinococcus, as he hal two cases of liydatid disease of the liver at present under lis care. Tapping and the injection of a weak solution of bichloride of mercury gave the best results.

Chboro-ancmia.-Dr. COLEY read a paper on chloro-anemia, in Which he dwelt on the relationships of this blood condition to liseaserl states of the gastro-intestinal tract, to tubercle, curvature of the spiné, etc. Whilst in many of his eases a mitral systolic murmur had disappeared under treatment, in not a few it so persisted that he could not but regard chloro-ansemia. as a cause of permanent mitral regurgitation.-Dr. Oliver instanced a few cases where dilatation of the left ventriele and mitral regurgitation never disappeared after chloro-ansmia; Dr. Mastie spoke of the relationship to ulcer of the stomach; lor. James Drumanest spoke chielly of its cause from constipation; 1)r. Nastwoon traced it to indigestion; whilst Dr. Asperson dwelt more npon its treatment ly iron and salines.

Tubercular Laryngitis.-A paper by Dr. Ligirfoot on this sublect was taken as read.

## SHEFFIEID MEDICO-CIIRURGICAL SOCIETY. Tilursday, Mareh 1st, 1888.

M. M. De ljartolomé, M.D., President, in the Chair.

1) Mplecy.-Dr. Wrsos showed some specimens from a man, aged 31, who was admitted to the General Intirmary in the apoplectic condition, and died the day following. llis previous listory was singularly free from illness of any kind. Ile was coma-,
tose, head turned to the left, pupils contracted, the left conjunctiva insensitive, tho right much less so. He moved his right arm, but not the leff; sensation was apparently abolished in th beft arm. On post-mortem examination a large hemorrhage was found in the right optic thalamus, which lad hurst into the ventricle, pierced the septum, and invaded the left ventricle. Thr left rentricle of the heart was greatly hypertrophied, the valrew fairly healthy; there was well marked carly stage of atheroma in the aorta. both kidncys were small and granular.

Ulceration of Popliteal Artery: Amputation of Thigh.-31r. Conmbe read notes of this ease.
Rupture of the Popliteal Artery, folloued by Gangreneand Midthigh Amputation.-Dr. Teeling related a case. The lower part of the femur and the popliteal vessels, mounted by Mr. Bunham, were shown to the Society.-Remarks were made by Jlr. Jaceson and Mr. Garrand'.

Clothing.-Mr. 'PYe-Smitir read a paper, in which he said that fabries manufactured from the wool of animals were greatly to be preferred for garments to those made from cotton or other vegetable fibre, being much superior as regards conduction of heat, absorption of moisture, porosity, weight, cleanliness, natural colouring, inflammability, strength, offness, flexibility, elasticity, and durability. Their roughness of surface was advantageous except in the rare cases in which even the tinest varieties cansed unbearable irritation of the skin. Special stress was laid on the: valne of socks with a separate compartment for each toe as a preventive of corns and deformity of the toes.-The following joined in the discussion: the Pleesident, Drs. Porter and Watson, and Alessrs. Jackson, Wilhiams, and Atkin.

## REVIEWS AND NOTICES.

Opiftialmic Surgery. By R. Brudenell, Carter and W Adams Frost. Cassell and Co. 1888.
THis manual contains some 550 pages of elosely printed matter for about half of which each of the joint authors is more particularly responsible.

It opens with a capital account in brief of the anatomy and pliysiology of the eye, following which the methods of examination of the eye are discussed, with succeeding clapters on the diseases of cornea and conjunctiva, all arranged upon the usual lines.
The fifth chapter treats of affections of the iris. Mere in some respects the work appears decidedly insuficient. For, while inveighing with some rather smart writing against the practice, too much used in his opinion, of diagnosing an iritis as dependent on some constitutional condition, and directing the treatment accordingly, the author proceeds to the opposite extreme. Thus, while indicating that iritis is often a phenomenon of syphilitic diseasc, he omits to define, except in the most rague way, the period of its onset. Nor does be mention the occasional occurrence of nodules on the iris, a condition so characteristic of syphilis. Similarly, he says not one word as to the distinguishing points between the iritis dependent on the rheumatic taint and other forms. Iritis is not eren alluded to in relation to gonorrhoe. As might be expected from this, few will agree with him as to the treatment of iritis. For all forms indiscriminately he appears to adrise the internal use of mercury. The operation of iridectomy is another yery favourite means of cure and prevention, while the application of warmth is not mentioned.
-The chapter on cataract is clear and practical, but that on glaucoma is distinctly inferior. The position of the incision for iridectomy is deseribed only as immediately behind the corneal The description of scleratever is remarkable, since the author divides, in marked opposition to the practice of erery authority, the bridge of scleral tissue, leaving only the conjunctiva, a form 'of operation long ago discredited as extremely liable to be followed by an unsightly bulging of conjunctiva and iria, and eren by sympathetie disease. The section on the normal fundus with be found of great service to young ophthalmoscopists, but it is marted by an unfortunate slip which represents three millimetres increase of height of the swollen dise, as corresponding with one dioptre of hypermetropio refraction by the ophthalmoscope, whereas the increased height should be a third of a millimétre only.

His choice of the term "choked disc," instead of optic neuritis or papillitis, will not be generally accepted. Certainly it is not free from the reproach which he applies to the other terms, that of suggesting what is in many eases au unsound explanation.

When, under the head of embolism, it is stated that the connective tissue of the retina becones white and turbid, surely it is meant that the retina becomes infiltrated with serum. The statement, though it is perhaps only a question of words, will surely convey a strange impression to the minds of most. The adviec given as to the performance of Mules's operation in cases of choroidal sarcoma is open to grave question, notwithstanding the cases of nou-recurrence to which the author refers. The same, also, with regard to retinal glioma, in which disease, also, eviscerntion is spoken of as sometimes practicable.

In treating of tobaceo amblyopia it is stated that certain authors deseribe an increase of interstitial tissue and an atrophy of nerve fibres in the neighbourhood of the yellow spot, whereas the changes in guestion relate to certain fibres within the optic nerve itself.

The remaining elanpters, including sympathetie disease, refraction and the ocular muscles, are clear and extremely well expressed. As a whole the book may be said to be rather defectire with regard to treatment by drugs, and to incline rather more often than is usual to operative proeedures, especially to iridectomy.. But, notwithstanding the defects to which we have called attention, its clearness and conciseness will canse it to be welcomed by students and young practitioners as an agreeable and useful guide to the modern practice of eye diseases.

Mantal of Materta Memea and Therapeutics. By Wm. Crarg, M.D., C.M.Ed., etc., Lecturer on Materia Medica, Edinburgh School of Medicine. Fiftll Ellition. Elinburgh : E. and S. Livingstone. $188{ }^{\circ}$.

Thas concise little manual, though intended primarily to assist. students attending the author's own elasses, possesses several characteristics which have rendered it more generally popular. Special emphasis is laid upon alterations in nomenclature which might otherwise escape attention. The anthor, in reproducing Irom the British Pharmacopaia such a statement as that the dose of tiucture of aconite may be 15 minims, would have done well to have added a word or two of cantion or commeut.

The volume concludes with a posologieal table, a schedule of poisons and their antidotes, together with a somewhat meagre appendix of contracted terms in common use. It is beautifully printed; and is altogether a very handy and convenient volume for the use of students preparing themselres for examination.

## REPORTS AND ANALYSES

DESCRIPTIONS OF NEW INVENTIONS,
in medioine, surgery, dietetics, and the ALLTED SCIENCES.

## KINGZETT"S "BACTERICIDE."

Under the above title, the Sanitas Company, of Letchfords Buildings, Bethnal Green, has brought out a new germicide, oxidant, and antiseptic.
The great power of corrosive sublimate as a germicide and antiseptic, has been repeatedly proved by experiment, and in surgical practice of late years it has been largely and increasingly employed in the antiseptic treatment of wouuds caused by operation or otherwise.
leroxide of hydrogen is an oxidising agent of very considerable nawer, but we are not aware that until the present time it has, beeu actually used in surgical work. Kingzett's "bactericide" contains in permanent solution 5 per ecnt. of mercuric chloride (corrosive sublimate) and fire volumes peroxide of hydrogen, and it is capable of being largely diluted with water without precipitation.
, Such a combination is calculated to be especially useful, since not only are micro-organisms destroyed, and their development prevented by the corrosive sublimate, but it is very possible that tho oxidising power of the peroxide of hydrogen may split up and render innocuous those subtle chemical poisons which are produced by micro-organie life.

It is recommended that for general purposes the "bactericide" should be diluted with fifty times its own volume of water. This would of course give a solution containing 0.1 per cent. of corrosive sublimate, or in other words 1 in 1,0010 . The preparation is worthy of extended trial, and from our own observations we can heartily recommend its employment.

SLACK AYD BROWNLOWS PERFECT FILTER.
 hesstr. Slack \& BrownLow, of Manchester, have issued a revised catalogue for 1838 , which shows recent improvements made in the construction of their filters. Foremost among these is the "Perfeet " $\mathrm{H} l \mathrm{lter}$, which is shown in the aceompanying sketch; it is fitted with a movable lining, so that every part is accessible. Messrs. Slack and Drownlow have recently had their filter tested by Alfred H. Allen, Esq., the public analyst for Sbeffield, who gives a most satisfactory report, especially as to the powter these filters have when fresh of removing dissolved lead from water. This is, howerer, not to be relied upon for any length of time.

FORCEPS FOR POST-NASAL GROWTHS.
Berng dissatisfied with the numerous kinds of Löwenberg's forcep* now in use, and having occasion to remove some post-nasal growths from the sides of the naso-pharynx, 1 caused a pair of forceps to be made somewhat similar to the pair depicted by 11 r . T. Mark Hovell in the Jocrnal of Jarch 3rd, but with an anterior and a posterior cutting blade, so that the lateral growths in the naso-pharynx should be cut off. Tbe whole of eacli blade has a cutting edge of steel, with a fenestrum behind it, which allows of a growth being seized and cut off in any position sare where it

grows round and about that posterior nares, and for this one must use Löwenberges forcejs. It also allows of a growth being cut quite clean through, instead of being tom off as is the caso where any description of Jiowenherg's forceps is used.
i remorel lateral growths in four cases with these forceps in 1887. They were made by Mappin and Co., of 121, New Strect, lirmingham. Wricerr Witsos, F.R.C.S.Edin., ete. Surgnon to the Birminglam Ear and Throat IIospital.
21, The Crescent, Birmingham.
A lecterar on the "ploysien Training of the Greeks and Romans" will bo delivered on Thursday, March 2nnl, at 5 oclock, at the l'arkes Museum of Ilygiene, Margaret Street. Regent Street, by Mr. A. S. Murray, Keeper of Greek and Knman Intiquities. British Muscum.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Stbscrimpoas to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the samo to their, respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Office, Migh IIolborn.

## Tbe Gritisl Atcdical Jourmal.

## SATURDAY, MARCH 17TH, 1888.

Mr. STANHOPE ON THE ARMY MEDICAL SERVICE.
Mr. Starhope's reply to Dr. Farquharson is, we fear, not likely to improve the relations of the military authorities with the Army Medical Service. It is conceived in the strictest spirit of officialism, and assumes an attitude towards the civil profession which has never heretofore been taken up by any Secretary of State of any of the great service departments, naval or military, British or Indian. The intervention of the civil profession, and especially of the British Medical Association, has, during a long series of years, been accepted by suecessive Secretaries of State, First Lords of the Admiralty, and Secretaries of State for India with courtesy, consideration, and, if we may venture to say so, with respect. Most of the more important warrants making concessions to the medical services of the army and uayy have been issued as the result of representations thus made, whether by deputation, by memorial, or in some other form. The history of the present deadlock is noteworthy in many ways. It hegan with a thunderbolt out of the blue abolishing relative rank. This official aet created great consternation, and caused inuch excitement throughout the whole modical department at home, in India, and in the colonics. The explanation which was given by Mr. Stanhope to a deputation from the British Modical Association and in the House of Commons to the effect that abolition of relative rank meant nothing since relative rank itself meant nothing did not improve matters, and some eoncessions which bave sinco been made, in response to the appeal of the British Medical Association, in the forn of gazetting medical officers on promotion, have not restored equanimity or contentment in the department, although no douht they wore intended to do so. In view of the immense mass of communications received by the Parliamentary Bills Committee at the office of this Journal, and by Members of Parliament, exprossing the profound dissatisfaction of the great bulk of the officers of the department at the absence of any titular or substantive military rank, Dr. Farquharson asked Mr. Stanhope in the House of Commens last session whether he would pernit any form of direct or collective expression of the
sentiments from the army medical officers on the subject to be made to him officially, and he replied that ho could not allow it, as it was altogether contrary to military disciplino.
The report of the Parliamentary Bills Committee at tho annual meeting of the $\Delta$ ssociation set forth as impartially as possible the information of which the Committee was in possession as to the existing dissatisfaction in the ranks of the Army Medical Department on the subject of rank. The DirectorGeneral of the Army Medical Department, who was present at the meeting, delivered an ablo and elaborate speech, evidently earefnlly prepared for the occasion, in which he emphatically denied, not only the validity of the alleged grievances, but the existence of any general dissatisfaction. Thereupon a considerable: number of medical officers who were present in Dublin proposed spontaneously to make a statement of their views, which, it was well understood, would confirm the state ment in the report of the Parliamentary Bills Committeo of the British Medical Association, and whieh would have invalidated the statement of the Director-General as to tho absence of this dissatisfaction. Immediately, however, that it beaime knowr that, they proposed to !do so, intimation was issued to then officially that such an action would be regarded as ia breach o. discipline.
As a result of the statement pnblicly made by the Director General of the Army Medical Department, a sqecial fcommitte was appointod by the Council of the British. Medienl Association to inquire into the facts; before it were laid, not the collectiv opinion, but the individual opinions, statements, and argument of nearly 1,000 medical officers, each writing separately, privatoly and in his individual capreity. Mr. Stanhope now states tha this is a breach of discipline, and he declines to histen to th statements of any civilian body, however influential, on behalf c their military brethren. It is obvious that this is altogother new departure at the War Office, and one which is quite contrar to long-estallished precedents. "If it lis desired to "treat th army medieal officors with this peculiar harshness, to shut Ithe mouths collectively, and to refuse to afford them any opportunit of stating their views individually, except in such a guise shall make it individually perilous, it is obvious that a state things will be bronght about whieh can but increase the oxistir dissatisfaction,' and which affords no obvious way of bringi about that good understanding which it has always' boon tl object of successive Secretaries of State to maintain "with tl medieal officers of the army department; and with tlie civil pr fession, which is professionally interested in the status and wi fare of the Army Medical Department. is no.
We are willing to assume that Mr. Stanhope, is acting und the momentary impulse of the irritation felt by cortain of 1 advisers whose predictions and declarations on the subject ha, proved to be ill-founded. It is obvious, however, that the morter cannot'rest here, that the evivil profession is not likoly, to prevented from continuing to feel the interest which they ha: always manifested in the position of their professional brethe in the public services, and that further Parliamentary action yl
follow. "Already the profound discontent and irritation existing in the Arny Medical Department have communicated themselves to the schools and to the universities. Many of the leading collegiate bodies in the kingdom have made representations in vain to Mr. Stanhope as well as the British Medical Association. The supply of candidates from the schools is serionsly threatened by anything which engenders and develops distrust of the War Offee, and which brings the conviction that the Secretary of State for War is nat disposed to treat the army medical officers with the consideration and courtesy which are due to so important and distinguished a department of the public serrice.
Mr. Stanhópe's reply can only be accepted as a purely official formula. It settles nothing, and it does not advance the interests either of his own department or of the professional elements in the service.

## tile recent meeting of the executive COMMITTEE OF THE GENERAL MEDICAL COUNCIL.

A great deal of business was got through at the last meeting of the Executive Committee of the General Medical Council, Owing to a temporary indisposition, from which we are glad to learn he had completely recovered a couple of days later, the President was unable to 'le ' present, 'and the ebair was taken ly the senior Treasurer, Dr. Quain; the Committee worked so hard that all the agenda were got through in one day. The official notification of Dr. George Yeoman Heath's appointment as representative of the University of Durham was received, as was also the formal aninouncement that Ceylon was, within the meaning of the Medical Act, 1886, a British possession, which afforded to the registered medical practitioners of the United Kingdom just privileges of practising in Ceylon. The opinion of counsel (Mr. Muir Mackenzie), as to the interpretation of Section 21 of that Act, which deals with the registration of diplomas in sanitary science, was received. It was to the effect that it wás not necessary that the candidate for the special diploma should be a registered medical practitioner at the time he presented himself for the special examination, but that it was sufficient if he were so registered when the diploma, was granted.
The Cominitteo also considered the report which it was required to make to the Council as to the circumstances which would render a medieal practitioner liable to the censure of the Council in reference to the empleyment of unqualified assistants. As the matter is oue of such great-importance, we aro glad to be enabled to reproduce the exact terms of the report of the Execntive Committee, which are ns follows :-
" $\Delta$ registered medical practitioner would render hinself liable to the censure of the Medieal Council iu case of the employment of an umqualified assistant in the practice of medicine, surgery, or midwifery, on behalf and for the benefit of such registered practitioner, either in complete substitution for his
own services, or under circumstances in which due personal supervision and control are not, or cannot be, exercised by the said registered practitioner. The Executive Committoe furthermore takes this opportumity of stating, in reference to the procedure known as 'covering,' that in its viow a registerod practitioner cavers an unregistered person, when ho does, or assists in doing, or is party to, any act which enables such unqualified person to practise as if he were duly qualifed."
The Committee also called attention to a rosolution adopted by the Council five years ago, which oxpressed the opinion that further legislation was then needed to subject any registered practitioner who depnted "a person not registered or qualified to be registered under the Medical Act to professionally treat on his behalf, in any matter requiring professional discretion or skill, any sick or injured persen. . . . . .to the same legal liabilities as a person who falsely represents himself to be a legally qualified medical practitioner." A further clause excepted any duly regulated training of pupils in medical schools or otherwise by legally qualified practitioners, the use of trained pupils in partially treating the sick or injured under the direction, supervision, and respensibility of such practitioners, and any legitinate employment of nurses, midwives, or dispensers:
A very important memorandum by the President, with opinions thereon by the Council's legal advisers, was, oming to the absence of Mr. Márshall, postponed to the nest meeting; the documents dealt with the disciplinary or penal powers of the qualifying medical authorities and of the Medical Council as regards the erasure of qualifications and names from the Medical Register. The legal opinion, we understand, was to the effect that fresh legislation is needed to extend and define the powers of the miversities and corporations to withdrase qualifications, and of the Council to erase a name fiom the Medical Register, when all the individual's qualifications have been thus withdrawn.' If, is is proposed, the qualifying bodies were empowered to withdraw a 'qualification temporarily, their disciplinary powers, and indirectly those of the General Medical Council also, would be very greatly increased. At present there is no alternative between a mere reprimand; which has, of course, no legal and binding force, and the permanent erasure of a name from the Register; some internediate penalty would greatly strengthen the Council in dealing with questions of discipline.

## THE NEW ARMY MEDICAL RESERVE WARRANT.

Wis publish in another column the test of the Royal Warrant, of which we garo a summary in our last issue.
We fully recognise the urgent need, and would gladly weloome any well considered scheme for the formation of a real reserve of medical officers for army duties; for large and expensive as tho economists say the regular full-pay medical serrice is, it is but. harely sufficient for the mere mobilisation of two army
coms, and quite inadequate to meet tho wear and tear of a big war.
The Wrarrant has heen talked of for some months, and has not theroforo been issued without due deliberation; but though wo npproach it in the most friendly spirit, we think in tho interests of the service and the profession it is open to criticism. It is bald and serere, as such doeuments usually are, but we find an interpretation to its clanses in the "instructions" appended by the Secretary of State for Wiar. On these instructions we found our comments.

The first instruction is that "no medical nfficer of the auxiliary forces shall bo appointed to the Army Medical Reserve who is not medically fit for service, and whose character and qualifieations are not in all respects satisfactory."

If there be any modical officers of the auxiliary forces, now or in tho future, "medically unfit," or "whose character and qualifications aro not in all respects satisfactory," such, we think, should not merely be debarred from entering the reserve, but at once removed from the corps lists altogether.

The second instruction provides that the names of all officers of the Army Medical Reserve shall be included in a special Army Medical Reserve List. This is necessarily so. But why have we not in tho Army list a definel list of the retired regular medical ofticers in resorvo up to a certain age? It is strange they are not mentioned in the Warrant. Was not the object in granting them carly retirement that they should form such a valuable reserve? The cconomists, in their outry against early pensions, ignore this; but we are surprised the Secretary of State and his medical advisers seem to have lost sight of it also.

The third instruction provides that " officers shall be removed from the Medical Reserve List on attaining the age of 65." We fear a very considerablo proportion of any reserve will be hopelessly " medically unfit" before the sixty-fifth year of life, so that constant weerling will be necessary to secure efficiency.

The fourth instruction is that "officers of the Army Medical Reserve shall be liable to be called to army service at home in times of great national omergency, to take the place of such of the Medical Staff of the Army as may be withdrawn for active service." When "times of great national emergency" unfortunately occur, we tako it that Militia, Yeomanry, and Volunteers will certainly be ombodied, so that medical officers of theso branches will in any case come out with their corps. But if, in such an event, they are to he called upon to take the place of the regular medical officers, who will fill their shoes in tho mobilised auxiliary forces: To stop one gap while creating another is like robbing Peter to pay Paul. We cannot help thinking that, if the threatened reductions on the home establishment of regular medical officers are carried out, a mero Egyptian war or such-liko will, as far as our medical reserves are concerned, be held to constitute "a great national emergency:"

The fifth instruction is nutside "great national emergency;", and not even necessarily connected with a reserve; yet, we doubt not, has had something to do with the issue of the Warrant. Here the authorities seek to secure, by a direct binding
"shall," the services of reservo medical officers at "contract ratos" when required for duties with troops quarterod near their houses. The "rates of remuneration" alluded to in Art. 354 of the Pay Warrant are as follows :-

For medical attendance, which includes cost of medicines, on all persons entitled - officers, mon, women, childron, servants, certain labourers, etc. Yearly.

If there bo less than 10 persons $\ldots \quad . \quad$ ij 0
If there be 10 persons or moro, for every complete 25 , or partion of $25 \quad 10 \quad 0 \quad 0$
We published last week some account of the duties with regular troops, so that medical reserve officers who undertake these duties will be able to judge of what is expected of them for the terms offered.

The sixth instruction is nothing ners, being already embodied in the regulations.

The seventh instruction is too broadly stated, and wo demur to it. The reserve medical officers, under orders of the Medical Department, would when necessary be undoubtedly severed from their corps. Indeed, this would ho unaroidablo if the auxiliary forces were embodied and massed together for service, unless some such body as the Volunteer Modical Staff Corps could form ficld hospitals and bearer companies, and thus allow regimental medical otheers to be left with their corps.
The eighth instruction is a routine detail.
Such comments, necessarily hasty, havo occurred to us on this important Warrant; we leare those concerned to judge of their fairness or pertinency. What we would like to seo is a reserve of medical officers which shall in every way support, but in no way supplant, or be made a handle for supplanting, the regular Army Medical Service.

IIer Royal Ilighness Princess Beatrice, Princess IIenry of Battenberg, has been pleased to appoint John Williams, Esq., M.D., to be Physician-Accoucheur to Ifer Royal Highness.

The Croonian Lectures to be delivered before the Royal College of Physicians next June by Dr. Donald Mac.Alister, Fellow of St. John's College, Cambridge, will be on "Antipyretics."

We regret to notice the death of Dr. Robert Gorclon Latham M.D., F.R.S., the well-known philologist, who was at one tine assistant physician to Middlesex Hospital. We hope to publish an account of his carcer in our next issue.

The C'roonian Lecture of the lioyal Society for this ycar will $b$. delivered by Irofessor Kühne, the eminent physiologist of Hcidel herg, on Monday, May 28th, in the theatre of the Royal Institu tion, Alhemarle Street.

THE annual dinner of the Medical Society of London took place at the Whitehall Chambers, IIôtel Métropole, on Thursday March 8th, the retiring l'resident, Dr. J. llughlings Jacksou F.R.S., in the chair. Sir Thomas Crawford was also present. Cor dial thanks were tendered to Dr. Jackson for the manner in whic he had conducted the work of the Society during his year o oflice.

ROYAL COLLEGE OF PHYSICIANS OF LONDON. TuE approaching anmual election of the I'resident of the Rosal College of Physiciaus is, as is not unusual, the subject of much discussion in medical circles in London. In this connection the name of Sir Henry Pitman has been prominently put forward. We are informed, howerer, that this is entirely without his antlority and enutrary to his wish.

## ROYAL MEDICAL BENEVOLENT COLLEGE.

We learn with much satisfaction that the festival of Epsom College, which is fixed for April 17th, is likely to be a great success. Tho acceptances are already so numerous that the Dinner Committee will sloortly lie under the necessity of closing the list. A few seats, however, will still be reserred for old Epsomians.

## TREATMENT OF DIPHTHERIA.

Tum France Médicale of the Ist February gives the following [ormula, recommended by Dr. C. Roese for the treatment of diphtheria:-1\& Oil of turpentine, 15 grammes; spiritus ætheris, 1 gramme. This mixture is given three times a day, Erery two hours one tablespoonful of a 2 per cent. solution of salicylate of soda is administered, and a gargle with a solution of chlorate of potasl. M. Roese employed this treatment in sirty cases of diphtheria. The number of cases which proved fatal was only 5 percent.

TREATMENT OF DIABETIC COMA.
To combat the acidity of the organic fluids in diabetic coma, Dr. Jsccoud recommends saline purgatives, and large doses of alkaline substances. Inhalations of oxygen and subcutaneous injection of ether are also beneficial. Excessive fatigue and digestive disturbance thould be guarded against; they hare a considerable effect in causing diabetic coma. An exclusirely meat diet should be aroided. The acid impregnation of the organism (the usual characteristic of diabetic coma), is betrayed by the presence of axybutyric acid in the urine. This substance is easily decomposed into acetone.

ELECTRIC ILLUMINATION OF THE BLADDER. Elactric eystoscopy is legimning to be of use in practical surgery. On Wednesday last, at St. Peter's Hospital, a female patient under the care of Mr. Heycock, who had suffered for some time from resical hæmaturia, was examined with Leiter's incandescent-lamp eystoscope, recently described in these pages by Mr. IIurry Fenwick. A growth the size of a walnut, covered with phosphatic incrustations, was plainly seen on the left side of the trigone. The position, aspect, and character of the growth were immediately confirmed by digital exploration after dilatation of the urethra. Mr. Fenwick has also, we learn, used the apparatus successfully in other cases of vesical tumour and in one of latent calculus.

## DILATATION OF THE PYLORUS.

THe operation of dilatation of the pylerus for non-malignant stricture is still upon its trial, and su ns will be interested to learn that the patient operated upon by Mr. Robert lhagyard, of Hull, in March, 1886 , has continued to improve since the report of the case was publisherl in these columns (vol. i, 1887, p. 386 ). She is now, we are informed, perfectly well, and there has been no return of vomiting. The dilatation of the stomach continued for some time after the nperation, but gradually subsided, and the argan is now apparently normal in size. The patient herself thinks so well of her state of health, that she has recently married. It may be remembered that at the time of the operation a pair of fine dressing forec ps with long alligator hlades were with some difficulty pushed chrongh the stricture into the duodenum.

CARBONIC ACID IN DYSPNGEA AND COUGH. Sousb time ago, l'rofessor brown-Séquard stated that inhalation of carbonic acid gas produced anresthesia of tho larynx: Dr. Weill, of Lyons, moved by this statement, has made use of carbonic acid inhalations in dyspnce, and finds that, whatever the cause, that distressing aymptom is appreciably relieved. In [hthisis the results were particularly good, an observation confirmed by 3. Linossier (Lyon Médical), who said that both the difficulty of breathing and cough were quickly relieved by merely inhaling the gas given off from a glass containing a solution of bicarbonate of soda and tartaric acid in effervescence.

## ROYAL METEOROLOGICAL SOCIETY.

At the ordinary meeting of the Society, to be held by kind permission of the Council of the Institution of Civil Engineers at 25, Great George Street, Westminster, on Wednesday, March 21st, at 7 p.M., an address will be delivered by the President, Dr. W. Marcet M.D., F.R.S., on Atmospheric Electricity, illustrated by experiments; after which Mr. G. J. Symons, F.R.S., will make a short communication on "The Non-existence of Thunderbolts, elucidated by accounts of searches after them and the exhibition of specimens." The meeting will then be adjourned, in order to afford the Fellows and their friends an opportunity of inspecting the exhibition of apparstus connected with atmospheric electricity, including lightning conductors, photographs of lightning and damaged objects, and of such new instruments as have been inrented and first constructed since the last exhibition.

## dISPLACEMENT OF THE TESTICLE.

AT a recent meeting of the St. Petersburg Society of Russian Practitioners, Professor Vladimir N. Popoff showed (Vratch, Mo.t, 1888, p. 75) a unique case of ectopia of the testicle in a patient aged 24. The scrotum was found to be normally developed, with the right testicle in its usual situation; but the left half of the scrotum was empty, while exactly at the root of the penis there was a swelling of the size of a walnut, covered with normal skin and containing an oval body which messured about four-fifths of the normal testicle, but felt somewhat softer. The patient said the swelling had been there since birth. He had, however, suffered in early childhood from an inguinal hernia, and Professor Popoff thinks it more likely that the displacement of the testicle developed under the influence of the rupture. The man's sexual power was formerly quite normal, but for about six months bo had been impotent. Dr. Popoff could find no similar case in medical literature. I'rofessor Wenzeslar 1. Gruber, the great Russian anatomist, who takes special interest in anomalies, considered the case unique.

## ANOMALIES IN THE GENITALS OF IDIOTS AND EPILEPTICS.

Is the Journal of February 25 th appeared a review of Madame Sollier's work on the dentition of itliots. The result of a series of researches on the genitals of patients similarly aflicted was published in the Irrogris. Medical of February lsth. This task has heen performed hy Drs. Bournerille and Sollier. These observers found that certain malformations of the male organs were very frequent in 728 cases of idiocy which they examined. These malformations were phimosis, bypospadias, ineluding tho least aggravated form where the meatus lies unusually fer back, in the normal site of the fronum, varicocele, atrophy or arrested derelopment of the testicle, cryptorchism in rerious stages, and lastly club-shaped penis. The latter condition siguities a disproportionate size of the glans. The authors note that there is no cridence that this anomaly is produced by bad habits. We beliese that they might have safely added that it represents a reversion to a lower trpe. like the flattened-out ears frequently seen in
idiots and meak-minded persons, and very eharacteristic of the cars of tho higher quadrumana. The authors finully conclude as follows: 1. Idiuts and epileptics present very frequent anomalies of the genitals, as proved hy eareful comparison with sane subjects. 2. These anomalies are least marked in epileptics who have not fallen ill till many years after hirth. Their sexual potency, unfortunately, appears less impaired than in more aggravated cases, judging from the relative rarity of cryptorchism amongst them. 3. Atrophy of the testicle is slightly more freduent on the left side. t. The physical and intellectual degeneration produced by epilepsy seems to exert a distinct influence on the production of varicocele, hardly erer seen in non-epileptic idiots. 5. Epilepsy beginning at lirth produces a far more marked arrest of development, rspecially in the genitals, thau when it appears later in life. 6. ldints, epileptic or otherwise, frequently present a special club-shaped form of the penis, as above deseribed.

## ST. THOMAS'S HOME.

We understand that.there is a wide-spread feeling of dissatisfaction among london surgeons with the way in which the institution called St. Thomas's Itome is conducted. It will be remembered that the easternmost block of St. Thomag's Hospital has been converted into a home hospital for paying patients; for an inclusive charge of eight shillings $n$ day, they are provided with board, lodging, drugs, skilled nursing, and the services of a highly compretent resident medical officer. It is alleged that no supervision whatever is exercised over the admission of patients, and that no inquiry is made as to their social or pecuniary circumstances. A. Tery strong feeling exists that, under the guise of charity, a great injustice is being done to the medical profession, whose patients are, by extensive advertising, indueed to enter St. Thomas's Home. It is said to be the practice, in surgical cases which are not treated by the resident medical officer, to call in some member of the St. Thomas's 1 lospital stnff, who has to be anaisfied with a reduced fee. Olviously the mere fact that many persous avail themselves of these facilities is no proof that they are deserving objects of this viearious charity. There are in London a considerable number of nursing hormos, whlch afford, at rarious rates, the advantages of a home hospital to patients who can there be treated by their own medical men, and there is a general opinion that a public churity like St. Thomas's IIospital ought not to go out of its way to compete for private patronage, and interfere with the ordinary relations existing between medical men and their patients.

## DERMOID CYST OF THE MEDIASTINUM.

At a recent meeting of the Berlin Medical. Society, Dr. Loewenmeyer hrought forward a tumour of this kind, rather larger than a child's head. It was removed from the hody of a man who had been shown to the Society four years previously, his sympitoms heing then diffieult to interpret. Apart from hemoptysia aul a moderate degree of pleuritic effusion on the left side, the attention was chiefly drawn at that time to a projection of the left side of the thorax, with loss of resonance, reaching from the clavicle to the sixth rib. The apex beat could not be felt over the eurdiac region, but a thrill was noticed to the right of the sternum, also epigastric pulsation. I precise diagnosis was not made. The patient improved somewhat in hospital, and then went,out and worked for a few years regularly, but no symptoms of pressure came on till quite recently, when severe recurring attacks of dyspncea and cyanosis quickly induced a fatal result. The necropsy revealed a tumour occupying the greater part of the left half of the thorax. Anteriorly it was in coutaet with the ehesit wall, having puslecl the heart cuticely over to the right. l'rofessor Virchow hall examincd the tumour, which contained in its interiar cysts lined with epithelium and filled with soft anb-
stance of gelatinous consistency, but the outer and firmer portion of the tumour was composed of dermoid products, namely, cpidermis, hair, fat. Cartilaginous plates were also found. E:vidently there had existed abuormality of the chest wall in the embryonal stage of existence of the patient, so that part of the iutegument had heen displaced inwards, and part of the respiratory apparatus outwards, at the time of closure of the thorax.

## MEDICAL SICKNESS, ANNUITY, AND LIFE ASSURANCE SOCIETY.

At a meeting of the Medical Sickness, Annuity, and Life Assurance Society, held on Wednesday, March 14th-present, Mr. Ernest Mart, in the chair, Dr. de Havilland Hall, Mr. S. W. Sibley, Mr. Noble Smith, Dr. Major Greenwood, Mr. F. Wallace, Mr. J. Brindley James, Mr. E. Bartlett-it was reported that seventeen proposals for membership had been receired during February, sixteen of which had been accepted after due examination; £It 6 had been paid during the month in sickness pay for cases of locomotor ataxy, pulmonary disease, severe pneumonia, compound fracture, vesical calculus, etc. There was a sum of $£ 2,000$ surplug reserve available, $£ 1,600$ of which was ordered to be invested in municipal bonds at 3 per cent., making a total invested reserve of over $£ 22,000$. It was stated that $£ 5,000$ of the reserve which had been invested in corporation stocks showed an improvement in market value to the extent of £514, and that the other investments of the Society were in an equally healthy state. Inquiry was ordered into one or two claims in respect to which apparent irregularities had occurred. It was mentioned that since the startiug of the Society in 1854 over 1,000 candilates had sent in proposala for membership. Mach satisfaction was expressed at the continued prosperity and growing professional usefulness of the Society. Forms of application and copies of the rules can be obtained of the Secretary, Mr. C. J. Radley, 26, Wynne Road, Brixton S.T.

## MORTALITY OF MODERATE DRINKERS.

Some light is thrown on the vexed question of the superior health fulness of abstinence or moderate drinking by recently published returns. The Luited Kingtom Temperance and General Provident Institution has two sections of lives. The one section consists of abstainers only; the other of non-abstainers, known drunkards being excluded. During the period of 21 years the number of expected deaths in the moderation section was 5,785. Only 164 fewer deaths actually occurred. The expectancy among the abstaining assured was 3,655 , and the deaths amounted to 1,076 less. There is, therefore, the enormous deficiency in favour of teetotal survivors beyond expectancy of fully 26 per cent. The teetotal assured have received bonuses, on an a verage 24 per cent. higher than have accrued to the restricted drinkers. Authentic returns of the time during. which members of friendly societies have received benefit tend to show the comparative freedom from incapacitating illness of abstainers. The Rechabite Directory for 1587-8 (quoted by the Hiltshire Ceunty Mirror, and Express) gives some interesting comparisons. Between 20 and 60 years of age the salford Unity of Rechabites (all abstainers) show only 48 weeks, as against 59.6 weeks of the Manchester Unity of Oddfellows, a auperiority of 11.6 weeks. Between 60 and 70 years the Rechabites had 50.1 weeks to 62.5 weeks of the Oddfellows, a difference of 12.4 weeks. Grouping these figures together, the Rechabites had 08.1 weeks as against 122.1 weeks of the Oddfellows, a gain of 24 weeks. The abstaining followers of the son of Reclab also come out well compared with the Foresters. From 20 to 70 years of age they suffered from 08 weeks of ill-health, as opposed to 126.3 weeks ameng the Ancient Order of Foresters; between 70 and 80 years, from 122 weeks as opposed to 148.2 weeks among the Foresters. Collecting theso returns together, the Rechabites
required financial benefits during 220 weeks, and the Foresters during 274.5 weeks, a difference in farour of the Rechalites of 54.5 weeks. Thure can le little doubt as to the general tendency of these striking tables in favour of the healthfulness of abstaining temperance.

## HOW A BLIZZARD KILLS.

A coriocs ohservation has been made from a study of the condition in which the victims of the blizzard, which recently swept over Indiana and a wide tract of the Forth American continent were found. It seems that death was due not to the cold, but to suffocation; the unparalleled suddenness and extent of the fall of temperature converted the snow into ice crystals, which were ground by the gale to a fine, dry ice-dust, and the air was thus rendered quite unfit for respiration. Tbis would make the effect of the blizzard analogous to that of the dreaded sand storms of the Sahara. It is stated that the number of deaths, so far from being exaggerated, has been a good deal understated by the local newspapers.

SULPHUROUS INHALATIONS FOR PHTHISIS.
$A$ series of observations has recently been made on a method of treating pulmonary tuberculosis, which, if not curative, would appear to possess a beneficial power over the progress of this dread malady. The method consists in the systematic inhalation of an atmosphere. impregnated with the fumes of sulphurous anhydride $\left(\mathrm{SO}_{2}\right)$; and several ingenious plans of obtaining a constant supply of the gas hare been devised, the best of mhich is a lamp constructed to burn bisulphide of carbon. The simple plan of burning flowers of sulphur in a closed room can, however, be resorted to if desired. Under its influenee, it is said, the expectoration becomes more liquid, the mucons surfaces are relieved from the irritation caused by the presence of muco-purulent secretions, and the patient is spared the fatigue of violent paroxysms of cough. In a certain number of favourable cases the improvement in the general health which follows is reported to be sufficient to allow of the cicatrisation of cavities and the subsidence of the more disquicting symptoms. The irritating affects of the vapour may be mitigated to some extent by burning ppium and gum benzoin at the same time. Some two hundred bservations have already foen recorded, and the results have yen aufficiently good to warrant a more general trial. Caution $s$ advisable in the quantity of the gas, which should not exceed certain proportion, which must be ascertained by close superision of the patient during its administration.

## CEREBRAL HYGIENE.

'He science of hygiene has accomplished so much good for aciety, that every one must look to its further development as n object to be desired by all well wishers of mankind. We deire here to refer to a special branch of hygiene which seems , call for more consideration than it has received at the ands of sanitarians. Mens sana in corpore sano is the wish of rery man, and it is our work to discover the conditions under hich this is to be attained and preserved, as well as how to roid typhoid fever and small-por. We possess already much aowledge upon these matters, but tre need fuller and more prese information; orerwork and constant worry lead to brain ear, but we want to know exactly how such agencies produce eir effects; we need to formulate the physieal signs of fatigue Id brain exhanstion, and to cullect profof as to the exact nature their more common antecedents. The signs of rickets are ten found in those who suffer from epilepsy, recurrent headhes, anel other neuroses; but the exact causal connection has $t$ to be demonstrated, and the frequeney of such causation eds to be shown by large bodies of statistics. Syphilis, both
congenita! and acquired, may produce brain disease, but how common this eause is we do not know. It is a matter of common observation that climatic and atmospheric conditions affect the working condition of the nerve system; some men work best in warm weather, others have most strength when it is cold. Dr. Warren P. Lombard has contributed an elahorate article on "the variations of the normal knec-jerk, and their relation to the activity of the central nervous system" in the American .Journal of Peychology, and has there shown the relation of knee-jerk to atmospheric conditions; such exaet observations are very important. What is the average strength and capacity for work in a man's nerve system, and how may it be estimated? There is a widely spread opinion that modern civilisation and social pressure have caused some degeneration of brain power, and that insanity and neuroses are on the increase; this is a question of vital importance to us. The effects of present systems of ellucation on the hrains of children may not be all for good, yet their object should be to aid cerebral evolution. It wonld be very interesting to have some exact information as to the brain condition of a large body of school children, founded upon observations carefully earried ont.

## EAST END SWEATERS.

A vovel but by no means an insignificant application was made recently to a magistrate at Thames Police Court, on behalf of an organised trade society of East End tailors by its seeretary, himself a tailor, that proceedings should be taken in respect to the insanitary condition of $2,000 \mathrm{dweilings}$ used as sweaters' dens. The complainant stated that he had a right to make the application, because he had reason to believe that the local authorities would not take any action in the matter, althongb they were fully cognisant of the evil. It would be, in our opinion, ratber delicate for a magistrate to accede to such a course without some deliberation, because there was no evidence to show either the existence of 2,000 dwellings used as sweating dens, or that the administration of sanitary law with which local authorities are charged has been neglected to the extent stated. We have had ample proof, however, of the weakness of existing lets on labour to grapple with this evil in places where adult labour only can be found, and we hare also had an exposition of the inattention of local authorities to enforce cleanliness in those places wherein their several jurisdietions lie. But, whatever view be taken of the application, it scems clear that the sweated men and women in the East End are availing themselves of the various revelations lately made by official reports and declarations made in the Ilouse of Lords to rid themselves of the bondage under which they groan in haring to work in sach filthy places. It is singular that the persons complaining aro not of the immigrant class, but London born, and it is they who ery out loudest against immigration, although their parents were introduced here under circumstances now so loudly complained of by their children. Mr. Slade stated that if any evidence could be adduced to prove that local authorities rould not act after application to them, he would then grant process; but the let of 33 and 33 Fict. eap. 55, known as the l'ublic llealth Act of 1875, says that the local authority has power to cause inspections to be made of any house as to the existence of any nuisance, and such inspection to lre hetween 9 A.M. and 6 p.M.; and if any persou make a written emplaint that a muisance exists, the local authority may authorise their officer to inspeet, after twenty-four hours' notice, or without notice in ease of emergency. A house is defined to include factories and other buildings in which persons are emplored in any manufacture, trade, or business. There is nothing to show that other steps ean be taken by a complainant, unless porrer such as is asked for here can be granted under 11 and 12 Vict. cap. 43, upon cath of complainant that by his persoual application in writing;
lie failed to move the local authority. It is nothing short of a 1 mblic disgrace that these 2,000 dwelling-houses should be conwerted into filthy dens of workshojs, where not only are persons assembled for daily work, but where the rooms are occupied by the families of immigrants or of workers for the sweaters. There hare been reports enough for yenrs past to show that this great aril is not abated, and it is high time that the Acts, now seemingly inoperative, should be made living fuctors by defining the duties of all lncal authorities, and making it incumbent unou the inspeetors under the Local Government Board, especially the medical staff, to see that local oflicers do their work as men ought who are entrusted with important duties. The filthy condition of these wrorkshop dens and dwelling-houses, which were huilt for ledrooms in small liouses, where the atmosphere is pestiferous and urer-crowding excessite, ought not to be allowed; such places are not to be found amongst our country people, but entirely amongst the foreign population, who import inter alia their dirty habits to the East Find, at present stocked with at least 30,000 men, women, and children of foreign Jews. If the applicant can make cood his case, and can show, as a deponent to facts, that the local :uthorities have failed in their duty, it will be good primá facie rvidence that higher powers should be evoked to aid sufferers who seem resolved upon asserting their right as ratepayers to ask that the servants of the restries be called upon to do their luty eren though vested interests should, in some cases, intervene.

## NURSING IN BURMAH.

Tue first annaal report of the Burmah Branch of the National Association for Supplying Female Medical Aid to the Women of Inclia is a record of the inportant work which the Countess of Dufferin's Fund has, by its extension, been able to accomplish at Kangoen for Burmese women. Failing to obtain the use of the female wards of the Rangoon General Hospital as a maternity hospital, a large lungalow, centrally situated, was rented and opened as a hospital in April of last year. Accommodation has now heen provided for 15 in-patients, and the total number of patients up to November 30th, 1887, was 142; of this number, 88 rere ubstetrical cases; 5 patients died. The Local Gorernment makes an annual grant of 4,000 rupees, and a like sum has been promised by the Municipal Committee of Rangoon. Obstetric cases, except under particular cireumstances, are received at the Lady Dufferin IIospital instead of at the General IIospital. Dr. Maria Douglass is the resident medical offeer and superintendent, and Brigade-Surgeon Griffith consulting medieal officer. It has heen decided to grant six seholarships of 10 rupees a month to nssist as many needy pupils. The difficulties of the teacher are necessarily great, for no books bearing upon the subjects of instruction have hitherto been printed in Burmese. Of those chosen by the committee for tranalation, one, First Aid to the Injured (St. John Ambulance Association), has already appeared. Dr. Barnes's Manual for Miduives and a book on nursing are leing prepared for the press. l'romises of grants in aid of the .ducation of midwives hare been received from Prome, Pegu, and Paungde. The honorary secretary is Dr. T. F. I'edley.

## SCHOOLS AND INFECTIOUS DISEASE.

Dr. Tatmax, the health oflicer of Salford, has done well to call public attention once more to the dangers resulting from the attendance at school of children who are suffering from infectiona disease, who have not sulliciently recovered from an infections discase, or who are still suffering from ear discharges or sore throats. He points out that scarlet fever, diphtheritic sore throats, Whooping-cough, ctc., wre at the present time very prevalent, and that there is reason to believe that they are being extensisely propagated through the instrumentality of schools. A very large
proportion of the sore throats occurring amongst ehildren of school age are communicable from person to person, aud there is ample evidence that children sent to school before they have perfectly recovered from scarlet fever or diphtheria, or whilst theis throats are still in an inflamed condition, have, again and again, been the means of communicating disease to their school-fellows. The same remark applies to children who have not perfectly recovered from whooping-cough. School managers and teachersare often blamable, especially when they disregard, or do not fully recognise, the extent of the danger, and when, with an eye to fees and the government grant, they encourage the too speedy return of children to school after illness. But more generally the real eulprits are the parents (and by no means the humblest of those only) who persist in sending their children to school solely to get them out of the way, and without consideration of their power of doing mischief to others. Dr. Tatham, therefore, adrises managers of schools to refuse admission to any pupil (1) who is suffering from a sore throat, or from discharge from the ears; or (2) who has only recently or but imperfectly recorered from scarlet fever, small-pox, diphtheria, or whooping-cough, or (3) who comes from a house in which either of these diseases prevails, although the pupil himself may be apparently well, unless a medical certificate is produced to the effect that the pupil may return to sehool with safety to his fellows. It may lee well further to draw attention to the provisions of Section 126 of the Public Health Aet, 1875 , which prescribe a heary penalty against the wilful exposure of persons whilst suffering from any dangerons infectious disease and it is desirable likewise to let it be generally known that the sending of a child to school whilst imperfectly recovered from such a disease constitutes exposure, and would render the parent or guardian liable to punishment under the Act.

HAYA POISON AND ERYTHROPHLEEM.
Dr. F. Goldschmidt, of Nürnberg, has made a further trial of the Haya poison (Centralb. f. Klin. Med., No. 7). Ile confirma Lewir as to the effects of the abore doses, hut tried still weaker dilu tions-namely, ro per cent. Instillations of this strength eaure perfect anæsthesia within ten or fifteen minntes, and the connec tire tissue and cornea could be treated in any way, even with thi aetual cautery, without giving any pain; but the effect only laste three or four hours, then gradually declining, whereas the large dose took effect for two days or two days and a half. The anæsthesi could be prolonged at will by a daily instillation of a small dos and this fact is important to notice. There was only a slight ter porary irritation of the conjunctiva after the ? per cent. instilla tion; the pupil did not widen, intra-ocular pressure was not in creased, and no corneal turbidity ensued after several days' use the solution. The iris was less sensitive after several appl cations, but could not be rendered perfectly anesthetic. Th anosthetic effects were then tried in the out-patient departme (Dr. v. Forster's eye patients), and were found to be excellent. drop of yo per cent. solution applied to the eye induced in fiftef minutes perfect insensibility of the cornea and conjunctiva lastir three or fonr hours, There was at first alight conjunctival irri tion, also o feeling of heat in the eye, soon giving place to and thesia. If the eye was already inflamed the irritation was st greater. Splinters of iron in two cases were extracted from $t$ eye under its use, and the lachrymal canal was in onc case up without any pain. The anesthesia was accompunied by va cular dilatation, not, as in the case of cocaine, by vascular co traction, llence foldsehmidt thinks that the new drug will ha a less extensire field of application than cocaine, but, on the otl hand, it has net the effecta on the pupil which cocaine has, r does it affect accommodation or intra-ocular pressure. Whet it can be used for iridectomies and such-like deeper operations perience must determine. As to it action on the buccal and phary
geal mucous membrane, I per cent. solutions had no effect ; but it must be remembered that cocaine also requires to be used here in much stronger doses than when instilled into the eye. Goldschmidt obtained some of the drug from Herr Weigle, Nürnberg, but the price is very high at present. Professor liebreich has a long article on this sulject in the Berliner Klin. Wochenschrift, February 27th. He is of opinion that the IIaya poison is in reality a snake poison from the Naja Inaya (snake), and that the specimen examined by Dr. Lewin was accidentally contaminated with erythrophlœum cortex. Professor Liebreich bases his opinion on the fact that the poison only acted when injected beneath the skin; as to the frogs rendered insensible to pain by it, he declares that they pass into a "leuco-phlegmatic" condition in captivity, already described by Du Bois Reymond, and are insensible to injuries; further, that undoubted IIaya (suake) poison supplied to him by Professor Robert Koch caused the local aneesthesia of the cye, and other physiological results attributed by Lewin to erythrophloum; lastly, that a great many substances cause local anæsthesia, especially those which coagulate the blood-for example, iron perchloride, dialysed iron solution, resorcin. Liebreich is somewhat severe in terming some of Lewin's conchisions "a mixture of hypothesis and erroneous observation." Finally, Mr. T. Christy has written to IIerr Lewin to say that the name "Ilaya" was given because a Mr. May; of Aden, procured the substance.

## SCOTLAND.

## GLASGOW TRAINING HOME FOR NURSES.

The annual report of this llome shows that it continues to grow in the estimation of medical men and of the public. From it nurses had been sent ont to 448 cases during the year, an increase of 31 over the preceling year; while 216 patients lad been treated in the private hospital, 157 of whom required to undergo operation. The total expenditure was a few pounds short of $£ 4,000$. The institution is now practically self-supporting, and during the fourteen years of its existence no less a sum than $£ 26,000$ had been carned as fees for nursing.

## LANARKSHIRE LUNACY DISTRICTS.

Tue General Board of Lunacy has decided to divide the Glasgor Lunacy District, which embraces the whole county of Lanarkshire, into four districts. Of these, three-that of the City of Glaggow parish district, Bavour parish district, and Govan Combination parish district-are mainly town districts, the fourth embracing the remainder of the county of Lanark.

BLIND AND DEAF-MUTE PERSONS IN SCOTLAND. Br the latest return, it appears that the number of hliud and deaf-mute persous in Scotlund assisted from the poor-rates was, on May I4th last, 987, of whom 345 were blind males and $4: 1$ blind females, while of deaf-rantes there were 102 males and 119 females. Of the total number, $35{ }^{2}$ were hohsed anil 635 were in receipt of outcloor relief. The cost to parochial boards for each adult maintained in special institutions raried from \&io to $£ 2$. .

## MILK ADULTERATION.

At the Glasgow Sheriff Court, on Jarch 9th, a particularly had case of milk aelulteration came up for disposal. The analysis showed, in the case of eream, 22 per cent. of added water and 10 per cent. of boiled stareh added for thiekening purposes; and in the case of sweet milk, 3 mr cent. of water and 6 per cont, of boiled stareh. The sherifi marked his sense of the grossmens of the fram by imposing a tiue of $x d y$, with the altermative of thirty days' imprisonment.

## POISONING BY CARBOLIC ACID.

A child, 6 years of age, died at Cambuslang on March 9th from the effects of drinking earbolic acid. The boy was ill with typhoid fever, and had been left alone for a short time. During this time he got up and drank part of the contents of a bottle of carbolic acid obtained for disinfection. He died in four hours, having speedily become unconscious.

INFECTIOUS DISEASES IN EDINBURGH.
The daily return of patients in the City Hospital, Edinburgh, submitted to the Town Council on Tnesday, showed the number was the lowest for a year. There were 31 patients under treat-ment- 53 adults and 38 children-and the cases consisted of 36 of scarlatina, 21 of measles, 14 of erysipelas, and 10 of enteric fever. This is in marked contrast to the state of matters a year ago, when it was scarcely possible to accommodate the great number of cases of scarlatina requiring admission.

## ST. ANDREWS UNIVERSITY STUDENTS AND DUNDEE UNIVERSITY COLLEGE.

Bx a majority of rotes the Students' Representative Council of St. Andrews University have given the cold shoulder to the proposed amalgamation with Dundee University College. A meeting for the discussion of the subject was held in one of the class-rooms on Monday, when the following resolution was proposed and carried by a large majority of votes:-"That this meeting strongly protests against any proposal which would interfere with the integrity of St. Andrews Lniversity, as amalgamation with University College, Dundee, would most certainly do." By amalgamation, the resolution meant any arrangement whereby Dundee University College should become part of the University of St. Andrews, and its officials have a share in the management of the University. A counter motion was proposed, but was defeated by eighty votes to eighteen. Fortunately for both institutions and their probable united future, the resolution passed is of ephemeral and purely academic interest. Any suitable arrangement by which a proper School of Medicine and Science in Dundee may become an integral part of St. Andrews Lniversity associated with it in the teacling of medicine and granting of degrees would be of infunte salue to both, and would utilse the large field of Dundes for clinical purposes and of St. Andrews Unirersity for culture.

THE SCOTTISH UNIVERSITIES' BILL.
A peputation, representing the Eniversity Council Associations of Edinburgh nad Glasgow, waited on Lord Lotbian at Dorer Mouse on March 9th. The deputation consisted of Mr. McKie, advocate, and Dr. Littlejohn, of Edinbargh, and Drs. McTail, Duncan, J. K. Kelly, and Knox, of Glasgow, with the Secretary and Treasurar of the Glasgow Association. The deputation was introduced by Lord Wemyss, and accompanied by an imposing array of Scotch Members of 1'arliament. Mr. HeNie and Dr. slefail, on belalf of the Asociations, which now number fully 2,000 members, urged that the University Council under the Bilk should be representative of the Semate, the graduates, and the public in equal proportions, and that the Court should be mado the University governing hody, with sole control of the funds. Dr. MeVail urged that power should be given to the universities to afiliate colloges. Lord Lothian, in reply, expressed the belief that the linl would be found generally to meet the views expressed in a satisfactory mamer. lle indicated his desire to hare the students represented in the Court, with which Mr. Mclie and Dr. McVail expressed sympathy. He also indicated that the Bill. would be made public in a ferr days.

MYSTERIOUS EPIDEMIC IN GLASGOW.
Dre. Hussele, Medical Oflicer for Glasgow, is investigating an epidemic diseaso which has appeared in the Roman Catholic Industrind Schools there. (A telegram receivod from a high mothority in Glasgow states that a large number of boys have been attacked in rapid succession, and four huve died. Tho girls', school, which is a separate building, but with a kitchen common to girls nud boys, remained exempt till very recently, when two girls employed in the kitchen hecame infected-it is supposel by direct contagion. Many of the sick have been removed to the Belvedore Hospital, but as yet no information has been obtained tending to elucidate the nature, or cause of the epidemic, which has some points of resemblance to a rery malignant type of influenza, and is often attended by pneumonia, butinot by any characteristic eruption, the temperature often rising to $105^{\circ}$, or even higher, but with very marked remissions, not, distinetly periodic. In two fatal enses a post-mortem examination was made, but nothing very distinctive was clicited. The school is in close proximity to an old grareyard, and otherwise has been regarded as under suspicion from a sanitary point of view. Dr. Russell is preparing a report on the whole subject, and an inquiry is' also being conducted according to instructions from the ITome Office.

## IRELAND.

BELFAST DISPENSARY DISTRICT.
The Local Government loarl has confirmed the decision of the Belfast Dispensary Committee dismissing Dr. Spedding from his position as one of the dispensary officers for Belfast.

## OVARIOTOMY IN BELFAST.

A great reviral of the operation of ovariotomy has taken place in Belfast within the last two or three year.. At the last meeting of the Ulster Medical Society, a rery satisfactory series of successful eases performed during the past twelve months was reported, the operators being Professor Sinclair, Dr. Dempsey, Dr Byers, Dr. Kennedy Wheeler, and Dr. Mackenzie.

BELFAST MEDICAL STUDENTS' ASSOCIATION.
IT a recent meeting of this Association, the President reported the result of an interview with Dr. Dunne, secretary of the Royal Unirersity, regarding the gricvances of the medical students of the Lelfast School of Jedicine, and stated that his representations had been most courteousily received, and that the University had agreed to coneede some of the most impertant points in dispute. A long discussion ensued on some points regarding elinical teaching in Belfast, but finally the whole question was adjourned for further consideration.

## FEES TO MEDICAL OFFICERS OF HEALTH.

 A CAss: interesting to medical officers of health was decided in the Appeal Court, Dublin, on Saturday, Marel 10th. The cass Fas brought by the Irish Jfedieal Isseciation, on behalf of Dr. Ronlstone, against the Guardians of the Strabane Union. The Court of Queen's Bench had alrealy ruled in farour of the defendants. The question turned upon the constrintion of the following rule: "We, the Local Government Board, do hereby, in the cracs falling within the provision reciterl, nuprove of such rate of remuneration, not less than £11s., and not exceeding £2 2s., a day, or part of a day, as may be fixed by the sanitary authority, in each case of legal proceedings as aforesaid." The plaintiff contended that the fee was to be paid for each case, while the defendants held that it was only to be paid for the day's attendance. The Court of Appeal now gave ;judgment, uphold-ing the decision of the Court below, namely, that the rule prescribes a payment per diay. It appeats certain that the rule, although elumsily drawn, does mesn this: The phraso is "per day," "in each case of legal procaedings as aforesaid." But the discussion suggests that the hocal Government Board should have been more liberal in its allowance. The fee "per day;" which may mean that the witness has to trarel a long distance and give evidence in fifty cases for $£ 11 \mathrm{~s}$. is a prepesterous one. Inagine a barrister being paid in the lump in this fashion. We would suggest that the Irish Medical Association should now seek to havo this rule revised. The medical witness ought to he paid a feo of $\mathrm{f}_{\mathrm{L}}$ 2s. for the first case, and at a'smaller rate for those which succeed at the same sitting. l'erhaps tho new Medical Commissioner; whoerer he may be, will signalise his advent by a more liberal view of the valuo of medical services. When a medical man permits such an estimate to bef put on the work of his professional brethren it is hard to expeet that others will view it differently.

## THE LOCAL GOVERNMENT BOARD 'COMMISSIONERSHIP.

THEs statement which we made last week, on the ruthority of a Dublin telegram, that Dr. Henry Fitzgibbon had been appointed to suceeed the lato Dr. Croker King as Medical Commissioner of the Local Government Board, was incorrect; it had, however, some foundation. There is no doubt that the appointment was determined ujon, but an unwary divulgence of the fact brought out very strong opposition from the Dublin newspapers, and further set in motion an active member of Parliament, who protested against the intentions of the Government. The original determination has not been carried out, and it is now stated very confidently that Dr.F.F. Maccabe is to be the new Commissioner. To this gentleman there can be no possible objection on the score of his entire fitness for the office. He has been a dispensary medical officer and an inspector under the Local Government Board. He is now medieal member of the Prisons Board aud Inspector of Reformatory and Industrial Schools. He is generally regarded as a very able administrator, and he is certainly an experienced official. The mode of making these appointments is a rery bad one, and in this case it has inflicted a grôss injury upon a candidate. Dr. Fitzgiblon was selected, and then as quickly "dropped," owing to political pressure. It is the business of the Government officials who confer these appointments to make them on merit alone, and not for reasons of friendship or influenee. There ought to be no undue haste, but a deliberate weighing of the abilities of every candidate before a decision is arrived at. Of course, it is hardly neeessary to say, this is not done. Very often it is "first come, first servel; or the importunities of a pushing friend end in carrying away a prize whiel ought legitimately to go to someone who better deserves it. Eren such high personages as Cabinet Ministers are paid by the country to do their duty without farour or affection. It does not add to our respect for them when we find that they must be reminded of this elementary fact so frequently. On March 15 th
the Irish Times the Irish Times announced on authority that "the statement of and will in all probability correspondent telegraphs the found ineorrect." But our Dublin general that Dr. Maccabe has boén appointerl, and that Dr O'Farrell, Local Gorcrnment Inspector, will succeed him on tho Prisons Board.

THE LATE DR. DELAHOYDE, OF DROGHEDA. Dr. Deratoyds, the oldest medical practitioner in Drogheda died recently, aged 78. He had for many years held the post 0 medical officer to St. Mary's Dispensary, Drogheda Union, but re signed last January. It was proposed to present him with
retiring allowance, but penling the consideration of the 'matter his death took place. The guardians last week adopted a rote of coudolence with the deceasod gentleman's family:

THE WATER SUPPLY OF BELFAST.
Tus alarming reports which have lately been in circulation regarding the quality of the water supplied to the inhabitants of Belfast are not eorroborated by the repurt just issued by the borough analyst, Dr. Houlges, which is somewhat reassuring in character. Six specimens were submitted to him for examination, and have not been found to differ materially from those examined in previous gears. They show, however, an increase of solid matters, both mineral and organic, but these "are chiefly in suspension, and are rapilly deposited on the water being allowed to remain at rest." Dr. Hodges adds that the amount of free and albuminoid ammonia present, and the absence of nitrates (except 3 trace in one specimen), also the small amonnt of chlorine, are satisfactory proofs that the organic matter is mainly vegetable in origin. One specimen he regards with suspieion, as it shows an excess of albuminoid ammonia. Ileconeludes by stating that the water is one which is greatly inproved by subsidence, and would be still more improved by efficient filtration. The prolonged and unprecedented drought has greatly increased the difticulties of the Water Commissioners, who have in the past earned public confidence by their zeal and efliciency. They are pushing forward the new extensive waterworks as rapidly as possible, and hope to have at least a portion of them in operation by next July or August. Fortunately, a considerable rainfall has now come to reliere their most pressing necessities.

## DEGREES FOR LONDON' MEDICAL STUDENTS THE FORTHCOMING ROYAL COMMISSION.

Lomd Cranbroon's oflicial statement in the House of Lords foreshadows the early appointment of that Royal Commission for Which we asked from the first to consider the applications of the Colleges of lhysicians and Surgeons of London for a degreegranting university, and the collateral applications of the Teaching University of London and of Unirersity and Fing's Colleges for like powers. In some quarters this decision of the Government has cansed great disappointment, for some at least of the delegates of the two Colleges were led to believe that they had only to ask the Privy Council for the powers which they sought, to obtain them: and if this application had been expressed in a more eonstitutional and well considered scheme, that antieipation might well have been realised. We pointed ont from the first that such an application could only succeed unler the conditions giving to the new degree-granting power a suitable representative shape, and creating university powers with due regard to hroad and just principles, and without aiming at a special monopoly.

Those counsels did not prevail, and the powers were songht in such a form as jcopardised the principle involved. Under the circumstances the appointment of a Royal Commission beeame absolutely necessary, and its early issue is very desirable. This will of course put an end to the proposed legal arguments, which would otherwise have been' held before the l'rivy Conncil, and there can be little doubt that the much wider lasis of inquiry which will be opened by the investigations of a Royal Commission, will lead to a broader discussion and a more valuable result than conld otherwise lave been attained. As to the fersonnel of the new Royal Commission, many rumours are in circulation, none of which have, we believe, at present any solid foundation. Among those mentioned are loord selborne, Lord Iersehell, Sir Prancis Sundforl, Sir Lyon Playfair, Mr. Mundella, Mr. Plunket, and reprekentatives of the London University and the two Colleges; lut speculations as to the constitution of the Commission are of course complicated hy the doubt whether any or which of these gentlemen would be willing to serve. For our own part we shonle be glad to see such men as Lord Derby and Sir llenry James acting on the Commission. It is abore all things desirable that it shonld he meighty and impartial, and not likely easily to yield to the powerful personal influences which may probably be bronght to bear npon it.

# ASSOCIATION INTELLIGENCE. 

COUNCIL.
NOTICE OF MEFTIAG.
A meeting of the Council will be held at the Offices of the Association, No. 429, Strand (corner of Agar Street), Loudon, on Wednesday, the 18 th day of April next, at 2 oclock in the afternoon.

F'rancis Fowne, Cieneral Secretary.
March 15th, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION゙ OF MEMBERS.

Meetings of the Council will be held on April 18th, July 18th, and October 17 th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, March 28th, June 27th, September 26th, and December 2 Sth, 1888.
ANy qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Couneil unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

The Report upon the Connection of Disease with Ilabits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1887 will shortly be published in the Jocrinal.

Reports upon the two remaining inquiries, namely, that into Dipitheris, and that into the Geographical Distribltion of certain Diseases, are in preparation, and will be published as soon as ready.

The following inquiry only of the first series remains open, namely, that on The Etiology of l'hteisis.

A fresh inquiry into the Origisand Mode of Propagation of Epidemics of Dipetheria has been issued.

Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collective Investigation Committee, 4i9, Strand, W.C.

## BRLNCII MEETINGS TO BE LELD.

South-Easterx Branch: East ayd West Suseex Diatricts.-A conjoint meeting of the above districts will be held at the Grand Itotel. Brighton, on Thursday, March 22na. F. W. Salzmann. M. R.C.S., will preside. Meeting at 3.30 P.M.; dianer at 5.30 f.M. : charge 6 s., exclusive of wine. The following comnunications are promised: Dr. Starling: A case of Fibroid Induration of the Stomach (with specimens). If r. Ifowari Jarsh: Recovery after Laparotomy Stomach (with specimens). bir. Mowark Marh : Recovery after Laparotomy
for Inteatinal Ohstruction; with Remarks. Dr. Mackey will show : Casts of Lopms Erythematosns, ete. Geatlemen deslrous of contributing short papers or cases, ilzould write at onco lo the undersigned or to lor, Gostling. Wiest Worthing.-I. Jevier Verrali, Honorary Secretary, gi, Mantpellier Road, Brighton.

Shropshire and Min-Walfs Mraxch. -The next meeting of the Mraneh will be held at the Salop Infirmary, on Tueslay, March 3 ith, at 3 P.M. Mr. Wr. Jddowes in the chair. Gentlemen wishing to exhibit or read notes of cases, or to bring Eorward subjects Eor discussion, are requested to communicaio with the honomary sceretary, Enw and Ceretox, Slurewsbury.

Southerk Braxct: South Wilts District.-The nest meeting of this llanch will be held at the Bath Arms, Warminster, on Welnesdur. March 2lat. at 4 o'clock. Dinner at 6 o'elock. Tickets 5 s.,. not to includo wine. Mumbers intending to be present, to communleate with the homorary secretary, II. J. Maymivg, Laverstock, ncar Salishury.

Fist Angliay Branch : Fssex District.-The mext meeting of the members of tho Eissex Dist rict and their friends will be held at the Sameen's IIeui ILotel, Dunmow, on Friday. March 23ri, at 2.30 P.31. R. B. Marriott, Fisq.. Swafliam, President of the Brameh, will preside. There will bo high tea at the hotel at the nonelusion of the merting. Trains leace Dunnow Ior Braintree, Colcheater, and 1 pswich at 6.35 , and for Stortiord and London at 6.45. The folColehester, and lpswieh at 6.35, and for Storthardand Landon si ci45. The following papers have been pronised:-R. B. Marriott, lisq. (President): Short
foles on a few eases of Stone in the Blader. Dr. F. do Ifariland Mall (Lon-

Ion): Remarks on certain 1 R-medies employed for the rellef of Pain and Spasm. R. C. Lyle, Foq. (T)ummow) : leunarks on two unusuat cises of Comstipation. fimblemen wishing to bex prasent will kindy commumeate 10 that effert with lw 11 unomry Seeretary on or beforo Welinesday, March glst.-C. E. Aauotr Honorary Secretary

Norta Wiles Braxat.-The intermeilate meeting of this Branch will be Sorta Wales brascif.-The intermenate mee Thestay, Maroh 2uth, at 2.4ö
 bum. Charles Willams, big.. ressibut of lieliver his uhitress, postponad from nsual formal business the Presitent will teliwer his antress, the anmua! neeting. Thof following papers mut eommuntations foriyn Bobles Mr. T. M. Bickerton: Two cases of sucerssfil Fixtraction of Forenn Bomes Irom the liye. Mr. 1. F. Cox: Climacterio Insanity. Dr. F. Inalach: A case of liystero-Epllepsy of twenty years duration Ireated ly Removal of Uterine Aprondages. Mr. ifotmort Jones: Some Common firors in the treatment of
 Fnotures. Dr. John Roberts (Menaing Pneumonia." Mr. J. Lloyil leoberts Eputum of a case of socalleat Williams : Some remarks on the Remeval of Nasal

 holling Consultations with heral y Guattred
IIoworary Secretary, Lortondoc, Braintree.

AbERDFFY, BayFf, Ayd Kivcabmise Braver.-An ordinary meeting of the Branch will the Jell at 19\%, Union Street, Aberdeen, on Weduestay, March 21st, at 8 P.M., Dr. Smith. of Kimainly, President, in the chair. Business:-1. Mluutes,
 John Anderson, Elmhill House, Aberdeen: Protessor Cah, Dee Aberdeen; Du been; Dr. Iluicheon, Alford: Dr, Genrge Mair, Crown Street. Aberdeen; De Morrison, Rosiebura, Methlie: Dr. Stephen, Belhelvie; and Dr. Wattm, Aberchirder, as ordinary menbers of the Branch. 3. Communieation from Connoll of Assoclation anent fees payable to medical withesses in eriminal cases. 4. Dr. Gordon : Case of Complete Derlucion of External Auditory casentus (exhibition of matient). 5. Dr. Gordon: Exhibition of Electrical Apparatus. inoludiog a Urethral Endoseope and demonstmeiom of its Cse. 6. Dr. Kackenzie Bunth: Case of so-called Spontancous Combustion. with Photo-
 graph. 7. Dr. Edmond: ilpectuens Secretaries.

Softe Walfs and Moymoutishire: Braych.-The spring meeting of this Branch will be held at lontypried nhout the second or third week in April. Hembers wishing to remd papers, ele., are requested to send titles to either of the IIonorary Secretaries by the end of March, fa order that they may be insirted io the circulara--Alpred Sheex, M.D., Cardiff; D. Artuur Datees, 1.B., Swansea, Honorary Secretaries.

Metropolitas Cocstife Brasca: Nurte Lovony District.-The next meating of this district will be hell at the North West Ilospital, Kentish Town Reatl, ou the evering of Weilnestay, March 24th, at 5.30, when A. E. Durham, F.RC.S. Presidunt of the Brinch, will take the chair. Some interesting case to the hosptal will be exhibited. Dr. Howd will read a papor ou Empyema fol lowine Pneumonia: or Clinical Notes ont Memhramons Sore Throat. The
 ew eommitee Canden Road, N.

ADKIAIDE AND SOUTII ALESTRALIAY BRANCIT.
Tue monthly meeting was held on January 26th, 1888. The Iresident (Dr. Davzes Thomas) was in the chair, and the followingr gentlemen were prusent: Drs. Lawley, Garduer, Lendon, Mackintosh, Mitchell, l'oulton; Messrs. Aitken, Bickle, Clindening Corbin, Fimiss, Giles, Haywarl, Lawrence, and the IIonorary Secretary (Mr. Cileland)

Vew Member.-William Baly, d.R.C.S., was elected a member of the British Medical Association and of its South Australian Brancli.

Casce:-Dr. Poulton brought forward a man whose nuklo he had excised for disease, the result being a usefui joint. Hr. Cornax exhibited a patient suffering from exophthalmic goitre. -Dr. Lesinos showed a case of buphtlalmos in a little girl, a patient at the Adclainc Chilhrens loospital.

Fixcision of Cancerous Jarym.-Dr. (i.andsern read notes of a case in whicli he had successtully removed the cutire larynx for carcinomn, nnd showed the specimen. He had performerl the operation twice, each time suceessfully. Ile thought sullicient data had not jet been callecterl, owing to the paucity of cases -not over 100 in all-to cnable surcreons to decide whether the operation was a justiliable oue or nut. If llahn's (of Berlin) success could be calculated on, namely, where one at least of his fifteen cases had had 110 recurrence of the disease after a lapse of seven rears, the operation certainly woull be justifiablo. Lnfortunately in Great leritain there was a projulice against the opuration, and he thonght the ill-success was mainly due to clinstic inlluences. The artiffeinl laryox lue recommembed was a vulcanite one made by l)r. Wookburn for him, modelled after Dr. Voulis's original instrument.

Inthte Mouth.-Dr. J.\&NDOs real a brief account of a male infant who was muder his care: at the Alebaide. Chiblren's Iospitnl, and who lived to throe months ohe. The patient had two months, separated posterincly ly a central pillar al the fauces, and leading into a common jliarynx, but united anteriorly by a common
buccal orifice, to the upper border of which was attached the remains of the fused adjacent cheeks. These oceupied at great portion of the mouth carities, and extended backwards to the central fancial pillar. There were two tongucs, which moved indepenlently, and two pairs of jaws, considerably distorted in parts. There was a third central nostril. The division of the larynx was doubtful. No post-mortern examination was allowed.

## BERMUDA BRANCII.

A arnerst mecting of the Branch was held at the Town lall, Ilamilton, on Saturday, January 23th. Dr. l'abe Tlecere, l'resident of the Branch, oceupied the chair. Abont twelve members and visitors were present.
Aarentic Inelriety.-13y request of the Society, Dr. J. B. Mattisox, of Brooklyn, gave an address on the subjeet of narcotic inebriety. Attention was called to the increased use of opium, ehloral, and coeaine, notably in France, Germany, and America. The genesis of the disense was a plysical necessity in most cases. The apeaker said in such cases his plan was to establish an entire narcotic disuse by regular reduction in ten days, meantime bringing the nervous system under the sedatire inflnence of bromile of sodium in initial doses of thirty grains at twelve-hour interrals, increasing the dose ten grains daily, and reaching, if required, a maximum of 120 grains at the end of the withdramal period. The resultant reflex irritation was treated by hot batha, eannabis indica, coca, and electricity, with a subsequent strengthening regimen. The prognosis was good as to recovery, but in most eases sooner or later there was a return to the narcotic due to a renewal of the original cause, or to other conditions beyond control.

Tote of Thanks.-A rote of thauks to Dr. Mattison closed the meeting.

SOUTII-EASTERN BRANCH: EAST SLRREY DISTRICT.
Thes spring meeting of this district was held at the Queen's llotel, Lpper Norirood, on Thursidy, March 8 ,
Vert Meeting.-After reading the minutes of the previons meeting, it was proposed by Dr. Thompsor, seconded by Dr. A. Carpenter, and unanimonsly resolved, that the next meeting be beld at Croydon on Thursday, May 10th, and that Mir. T. A. Richardson, of Croydon, be invited to preside.
Representatice on Council:-Dr. John II. Galton", was unanimously nominated by the meeting to represent the Branch in the Council of the Association.
Mechunical Treatment of Joint Disease.-Mr. Noble Syitr gave a demonstration of recent improvements in the treatment of diseascs of the joints, cxhibiting numerous splints and other mechanical contrivances, and their mode of application in each particular casc.
Possible Danger of 17ill Diet. - Dr. Arfred Carpenter showed a hard mass of soliel cheesy substance romited from the stomach of a calf fed entircly on milk, and pointed out the possibility of a similar concretion occurring in patients restricted to milk dict.
Thystorectomy.-Mr. If. (i. Plummer read notes of a case of rupidy-growiny soft tumour of the uterus, which, even on nodominal section, seemed so fluctuating that it closely simulated an orarian cyst. After remoral of the uterus with the tumour ovaries), the stump was fixces in the lower angle of the abdomina? wound. The progress of the casc was very satisfactory. The tumour was a mexa-myoma.
Dimner:-After the meeting fourteen members and visitors dined together.
Endesta.-In the review of Dr. McVail's Tracoination Tindicated, publishet on Mareh 10th, there is an error in the statement
with regard to to kilmarnock then withregard to the Ciluarnock statistics. Instead of ( P .541 , line 12)
"small pox was accountalle for 91 ont of 5 jears of age," read " 91 out of every 100 deaths from small were under 5 years of age;" also, in the concluding linie of the first paragruph of the review, for "Moyal Commission," read "Select Cominittec."

Ambulance Cliss, Tobermory,-Dr. Shaw, Glasgot Royal Infirmary, examined the ambulance class conducted by Dr. Maxwell, Tobermory, awarded a certificate of proficiency to ever member of the class he had examined, and complimented them on the very satisfactory appearance they had made.

# SPECIAL CORRESPONDENCE, 

## VIENNA.

[FROM OUR OWS CORRESPONDEST.]
On the Diagnosis of Carcinomatous and Tuberculous Perichondritis of the Larynx.-Syphilitic Conjunctivitis.
Dr. M. Majek, assistant to Professor Sehnitzler, reports, in a recent number of the Internationale Klinische Rundschau, a case of laryngeal discase which he had observed at the Vienna Polyelinic, with the riew of showing that the differential diagnosis between eancer and tuberculosis of the larynx sometimes presented the greatest difficulty, cren when every possible means of diagnosis was used. A man, aged $\overline{5}$, was, on June 15th, 1887, admitted, for the first time, into the wards of Professor Schnitzler for hoarseness, which had lasted three jears, and severe dyspncea, Which had recently superrened. The patient had previonsly been treated by Dr. Mabl, of Lemberg, who gave the following particulars of the case:-" The patient had, in March, 1886, fallen ill with symptoms of simple laryngitis, and, from three to four months later, Dr. Mahl discovered a growth as large as a bean and haring the appearance of a gooseberry, on the right vocal cord. He remored the growth with forceps and cauterised the seat of implantation with cliromic acid for some days. The patient's veice greatly improved after the operation. Six weeks later the growth recurred, with regetations on the edge of the cord. Owing to repeated chills to which the patient was exposed in the course of his daily work (he was a railway servant), considerable swelling of the right arytenoid cartilage, with gradual immobility of the right part of the larynn, also took place. The patient's condition grew worse from that time; cough, dysphagia, and dyspncea gradually increased."
Laryngoscopic examination in the Vienna Polyclinic revealed the presence of considerable swelling of the epiglottis, and extensire swelling of both ventricular bands and the arytenoid cartilages, the right one being almost immorable. The vocal cords could not be seen, except the posterior end of the left one, which appeared to be moderately congested. The snbglottic region conld not be seen owing to the great narrowing of the rima
glottidis.

Jxternal examination of the neck showed that the thyroid and cricoid cartilages were much thickened, and that the surrounding tissue was infiltrated. The cervical glands formed a tumour as large as a man's fist, which at one spot showed distinct fluctuation on the left side.
Examination of the lnngs revealed the presence of catarrh of the apex, but the patient had never suffered from hemoptysis, and there was no tuberculosis in his family. The sputum proved to be free from tubercle bacilli after repeated examinations. The patient had never suffered from syphilis.
Taking all these facts into account, what diagnosis could be come to? luberculosis was first thouglit of. The infiltration of :he epiglottis, and the swelling of the ary-epiglettic folds, which was characteristic of tuberculosis, was suggestive of diffuse tuberculous infiltration of the laryax.
The fact, however, that the inter-arytenoid mucous membrane, which as a rule is chielly affected in tuberculosis, was only lightly swollen, and that no ulceration could be detected anywhere, led l'rofessor Schnitzler to diagnose cancer. There were nevertheless certain features in the case which male the diagnosis of carcinoma doubtful, namely, the size of the enlarged cervical lands, the fact that they were not so solid as they usually are a the ease of cancer, and the presence of tluctuation over a cir:umscribed area, which is also not a common accompaniment of 'areinoma of the larynx. All these conditions, on the other hand, rere characteristic of scrofula.
The enlargement of the lymphatic glands in carcinoma is geneally limited to the sub-maxillary glands, which were solid and rever attained any consilerable size. The fact that no tubercle acilli could be detected in the sputnm had to be takern into acount as far as active tubercular diseaso in the lungs was exluded by it ; it was of no significance, however, as establishing he nature of the laryngeal affection.
Recourse was next had to two kinds of exploration, namely, 1) puncture of the fluctuating cervical gland; and (2) excision of part of the right ventricular band for microscopio examination. The pus which escaped; on incising the abseess quite
resembled that from'suppurating scrofulous glands, and it was supposed that a tnbercular perichondritis of the thyroid and cricoid cartilages, with chronic odema and a tubercular cervical gland might be present. There were no tubercle bacilli in the pus, a fact which was not, however, inconsistent with the theory of tuberculosis, as it had been stated by several authors, such as Koch, Garre, Kranse, etc., that pus of tuberculous abscesses contained only few or no tubercle bacilli. The microscopic examination of the excised portion of the right ary-epiglottic fold was negative; only the epithelium seemed to have been relaxed. It was, therefore, reasonable to suppose that the whole swelling at the orifice of the larynx was only due to chronic cedema, and that it was not due to the deposition of tuberculous or carcinomatous. material. Two possibilities, had, therefore, to be taken into consideration, namely, a subglottic carcinoma with chronic odema of the larynx and consecutive perichondritis, or frimary tnberculous perichondritis of the thyroid or cricoid cartilages. No positive proof, however, could be obtained of either hypothesis.
-Professnr Schnitzler adhered to his diagnosis of cancer. The condition of the patient grew worse from day to day, and, four weeks after his admission, tracheotomy was performed hy Professor von Frisch. Bronchitis developed, and at the end of the seventh week after admission a piece of cartilage was expectorated, to which a little quantity of blood adhered, a fact which did not throw any additional light on the case, as such a condition was met. with in tuberculosis as well as in carcinoma. Effusion into the left pleural cavity, together with hemorrhage from the larynx, supersened in a short time; these symptoms, combined with the lorrible foetor of the patient's breath, indnced eren those who had hitherto doubted the presence of carcinoma, to accept the diagnosis. Professor Schnitzler considered the pleuritic effusion to be of carcinomatous origin. The patient died in a few days after these conditions had been observed, and the postmortem examination, which was made by Docens Dr. Zemann, fully confirmed the diagnosis of cancer, as well as that of a carcinomatous pleuritic effusion.

At a recent mecting of the Royal Society of Plysicians of BudsPesth, Docens Dr. Goldzieher made an interesting communication on conjunctivitis syphilitica. Eyphilitic affections of the cyelids had to be divided into three classes, pamelr, primary lesion (initial sclerosis), exanthem, and gumma. Discussing the rarions pathological conditions in syphilis of the exclids, he said that the symptoms of diffuse syphilitic conjunctivitis had not yet been deseribed as a whole. Hie related two cases which showed that there really existed a sort of gramular ophthalmia which was due to syphilis. The first case was that of a man agred 32, who had contracted syphilis six years before, and had suffered from chronic iritis since that date, so that iridectomy had to be performed. For the last few months an inflammation of the conjuuctiva had supervened, which had been treated for a long time. On his admission into the hospital, erythema and diffise swelling of the pyelids, with the formation of gramulations in the mucous membrane. were found; besides this, there was swelling of the lymphatic glands in the region of the ear and the neck. After energetic treatnent by mercurial inunctions for four weeks, the conjunctiva regained its normal appearance, and the patient was discharged cured. The second ease was that of a man aged 26 , who had contracted syphilis two years previously. Six months before his admission into the hospital he was attacked with conjunctivit is in the left eve, and was, like the first patient, treated without suecess by aprications of the nitrate of silver, sulphate of coppor, etc. Ile presentel exactly the same ehanges in the conjunctiva as the first case, and, moreover, keratitis profunda, iridochoroilitis, and lymphatenitis miveralis. Atter an antisyphilitic course of treatment, he was also quite curect. Dr. Goldzieher remarked that similar changes of the conjunctira were observed in syphilitic inflammation of the tarsal cartilage. As the conjunctiva possessed a layer of adenoid tissue, and the infiltration referred to abore was ouly to be looked mpon as a follicular regetation of this layer, the morbit process above described bail, therefore, from the anatomo-pathological standpoint, to be considerel as being identical with syphilitic lrmphadenitis.

## SAN REMO.

[FROM OLT OWS CORRESPONDENT.]
The past week has heen an exciting nue in San liemo. When 1 last wrote you Prince William was still here, with Professors von

Bergmana and Waldeyer, and the attention of half Europe was concentrated upon the result of the latter's microscopic examination of the expectoration of the Crown I'rince: This rcsult, as I predicted, has not heen made known, and the statements made in the daily, pupers int reference to it are purely speculative and imaginative. I have reason to believe, howerer, that his obscruations coincided to a rery great extent. with those of Virchnw, hut that his deductions from theru differed some what materially. The events of the last fers days, howover, hare even thrown the absorbing interest of this subject temporiarily into the background. Priuce William left somewhat hurriedly on Jonday for Berlin on account of the Emperor's indisposition, and on Wednesday his critical state became known, and the subject of the Crown Prince's possible return was discussed. In the cyening worse accounts arrived, and it was practically decided that he should go. I belicse that Sir Morell Mackenzie very reluctaitly came to this decision, as his august patient was gaining ground rapidly day by day. The cough and expectoration had nearly ceased; the latter was only occasionally tinged with biood, a re-sult-attributed largely to the introduction of the new cannula made here. The patient was sleeping and cating well, and spending the greater part of cach day in the open air. state
exigencies, howerer, were, I believe, imperative, and I understand that Prince Bismarck himself urged the step, if. it were in any way practicable. Four or five days before it would have been simply impossible: but the Crown l'rince himself, with returning st rength, was keen to undertake the journey.
On Thursday morning, after Sir M. Mackenzie had held long and anxious consultations with the Crown Princess, the start was fixed for Saturday morning. All Thursday telegrams from Berlin poured into the Tilla Zirio, and by evening it was known that there was no possibility of the aged Euperor rallying. The Crown l'rince was much agitated and affected by the news, and on Friday morning at $100^{\circ}$ clock, when the fatal tidings arrived and were communicated to him, he nearly fainted, being supported for a moment by Dr. Schrader, the household physician. He soon regained composure, and attended during the day to the innumerable despatches arriving. IIe walked in the garien for some time, and dined for the first time with his family.
I am told a very toucling and pathetic incident occurred on this occasion. The new Emperor, upnn entering the room, approached the Crown Princess-or, rather, Empress-and invested her with the Order of the Black Eigle.
On Saturday morning the Royal train-a German one-was ready at nine oclock. The departure was made as private as possible, but, owing to the. intense sympathy felt, a large concourse of people assemblcd outside the station. Beyond the Goverument and town officials, only a limited number were admitted on the platform, a few resideats, and those personally known to their Imperial Highncsses. The scene was a most impressive and almost funerea] one, all the Germans being in black and others in mourning, and the day itself heing overcast and gloony. The Emperor and Fimpress arrived in the last carriage, and were grected outside the station ly the national acclamation of the assembletd Germans. The Emperor walked firm and erect, bowing right and left, and shaking hands with many whom he recogniscd. He was very pale and looked like a man who had gone through a serious illness: beyond thiz, there was nothing to suggest the niperation and malady from which he is suffering, except once, when, wishing to speak to a lady; he puts lis hand pathetically to his throat. The Tampress, witli that claracteristin so well known in all our Royal lamily, recognised each individual with whom she was acquainted, and shook hands and said a kind word tonll. She graciously accepted one or two bunches of San Remo wild thowers, of which she is very fonl, the customary parting bouquets being, of course, dispensed with.

Sir M. Mackenzie and Mr. Mark llowell travelled in the Royal carringe, the former looking careworn and haggard, and eridently freling the heary responsibility attaehed to him. He is, 1 nm told. confident as to the result of the actual journey, and, while Iranding the climate of Berlin, trusts that the Einperor may not remain there except for a short time, But speedily go to Wieshaden, which is much milder and emmparatirely warm.

Whatever may lee the verdict of Cicrman or nther professional (1) inion on Sir M, Mackenzies management and treatnent of this ohscoure and difficult case, it cannot be denicl from one phint of winw that hie hans achieved an enormnus success. Ilis aim and whent has lieen to prolong the Crown l'rince's lifw. It is; freyly suid here that, had lie gone to Berlin with the (irown

Prince instead of the Fmperor of Cermany, it would have been at considerable risk to his own safetr, so great is the fanaticism on this point said to exixt in the (ierman capital. -
On Friday, the cve of departure, the Empress, in spite of the extreme anxiety and sorrow she was under. graciously received two or three resilents, amongst them Dr. Freeman, to whom, I beliceo, she expressed her intense recret that circumstances compelled the Empleror's departure at the moment when daily improvement was so markel. She added, however, that it was a necessity. IJer Majesty also sent messages of regrot to the ladies of the "IIome" here, the institution in which she has taken so much interest.

## PARIS.

[from our own correspondent.]
Lactic Acid in Laryngeal Phthisis.- Freedlïnder's Microbe in the Saliva of Healthy Persons:-Chlorate of Potash in Epithe-lioma.--Hypodermic Injections of Fucalyptol in Phthisis.- Poisoning by Berzine and Nitro-Ben-ine.-M. Terrillon on Ovari-otomy.-Sanitary Aspects of the Pilgrimage to Mecca.-Transport of Sick and Wounded by Water:-Discrse in Imported Meat.
The treatment of tuberculous ulceration of the larynx by lactic acid and iodoform; recommended by Dr. Krause, of Berlin, and Dr. Heryng, of Warsaw, has lately been successfully employed by Dr . Luc, in the case of a young woman suffering from laryngeal tuberculosis. The patient was wenk and thin ; the least fatigue produced dyspncea, and aggravated the wheezing from which she constantly suffered. At night there was fever followed by profuse perspiration. The roice was completely lost. The patient coughed incessantly, and the sputa contained numerous bacilli. There was dulness, with moist rales at the apex of the left lung. The epiglottis was but slightly affected. The vocal cords were red and swoilen, and could not be completely adducted; this was apparently due to infiltration of the mucous membrane covering the nrytenoid cartilages, which was studded with excrescences whicl were especially prominent in the glottis. The
appetite was ponr. The patient complained appectite was poor. The patient complained of intense pain in the larynx when she conghed or spoke. 1 fetr days' rest mas
prescribed, during which prescribed, during which medicinal inhalations were adminis-
tered. The laryx' was anæsthetised by means of a solution of hydrochlorate of cocaine applied with a brush. The arytenoid excrescences were destroyed by galvano-crutcre. The the end of a fortnight the eschars came nway. The infiltration of the mucous membrane was considerably reduced. The membranc presented a granulating surface of heaithier appearance. The rocal cords were more easily brought together, and
the voice was much stronger. Duiring sir mouths the laryin the roice was much strouger. Duiring six months the larynx
was constantly painted with a 50 per cent.' solution of lactic acid. Powdered ioloform was insufllated after each appiication of the acid. Under this trentment the patient recovered her voice. The stridor and laryngeal pain disappeared; expectoration diminished, nocturnat coughing ceased. Dr. IIeryng, who examined the patient aftcr this treatment, regardel the laryngeal lesions as completely healed. This method had no effect on the general tuberculous symptoms.
The report of the Societe de Biologie of Paris, of Deccmber 30th, 1887. contains in interesting cnnmmuication from Dr. Vetter relating to his discovery of the microbe of Friedländer in the saliva of healthy persons. Dr. Netter found in the saliva of three
healthy persons a path healthy persons a pathogenic microle capable of causing the death
of certain animals. This organism discorered by Friedlander in the indentical with the attacked by pneumonia, and known as the diplabacill pastients monie of Weichselbaum. It is sometimes associsted with the 1 meumococcus of Fränkel. This micmbe is very rare, and the anthor found it in only three cases out of 180 samples of saliva taken from 105 healthy persons. It is easily cultivated, at the ordinary indnor temperature, on peptonised gelatine, etc., and can be isolated by cultivating in gelose or gelatine the biond of animals that have died after subcutaneous injection of saliva. Its presence may be but temporary, and; as the experiments of Thoet have proved. l'riedländer's microhe maý sometimes aiso be me With in tbe nasal mueus of healthy suljects. The presence of the pneumonic pateh, but it does nat necessarily follow that it dangerous to man, for although, when injected into the blood a
guinea-pigs and mice, it rapidly causes the death of these animals, it has no effect whatever upon rabbits. Man may possibly share this immmnity; for it has not yet been satisfactorily proved that this microbe is really dangerous to man, and for that it remains yet. to show that it is necessarily active in pncumonia, ozena, rhinoscleroma, and otitis. Dr. Netter, after passing in review the 'observations of triedländer, Weichselbanm, Fränkel, Talamon, and others on this subject, says that he thinks himself justified in considering pneumonia as always conneoted with the pneumococcus of Frankel, the presence of which in the pheumonic patch has been proved to be constant, but that the pathogenic action of Friedländer's microbe in pneumonia is far from being proved, and that where this organism was found it was undoubtedly simply in cases of secondary infection due to the presence of the hacillus in the air-passages, and jts subsequent development on the surface of a favourable region. It is , however, worthy of remark that if this microbe is sometimes met with in healthy subjects, it is more frequently met with in the saliva of those who have previously suffered from pneumonia. The anthor concludes that the pathogenic action of Friedländer's microbe still remains to be determined, and that subsequent stadies can alone elucidate the question.
Dr. Hyvernaud has treated 63 cases of epithelioma by local applications of clilorate of potash; 'of these, 32 were cured, 15 were benefited, and 16 cases were nurelieved. In the successful cases the disease wras situated on the skin of the face, nose, eyelids, cheeks, neck, in the lumbar region, on the back of the hand, and on the inner surface of the leg. Chlorate of potash fails as a rule when the mucous membrane is the seat of disease, although two cases of epithelioma of the lips and nostril. were eured by it. it is especially useful when the affection is slow in its progress. A 6 per cent. solution slightly heated, or a fine porter of chlorate of potash, is applied to the wound, after it has been freed from scabs. The dressing is renewed once a day or oftener. The effect of the solntion is chiefly to heal the wonnd, while the powder slightly cauterises it. . The surface of the tumour or nleer is thus destroyed, small eschars come away, and cieatrisation ensues., In most cases several weeks, or even months, are required to obtain complete cicatrisation.
M. Edmond Habert has found subcutaneous injections of eucalyptol and iodoform useful in ordinary phthisis accompanied by bronchial catarrl, and also in emphysema and chronic bronchitis. Cough and expectoration are diminished; 'the general condition is improved; sleep and appetite are restored. There is, however, no diminution in the number of hacilli in the sputa. The following solutions are employed: R Alsolute eucalyptol, 5 grammes; oil of vaseline, 20 grammes. is Absolute euealyptol, 5 grammes; iodoform, 0.25 gramme; oil of vaseline, 20 grammes. Ench. Pravaz's syringe contains 0.20 gramme of ellealyptol for the first solution, and 0.1 more of iolloform for the second. The doses, whieh gralually increase, vary from 2 to 5 centigrammes in twenty-four liours. The solution must he alsolutely pure, and the syringe nust be properly disimfected. The quantity of liquid injected should not exeeed thirty or farty drops. The needte should be introduced a good way heneath the skin.
MH. E. Neumann and Lllb, Pabst, in the Amales d Hygienne, have published some observations on the morbid phenomena produced ly. benzine and nitro-benzine. In eases of slight 1 misoning the symptoms, which are principally met with in persons enployed in dyeing and clcansing, are: headache, rertigo, dizziness, and intnxication, which may reaeh the unconscions stage. These symptoms rapidly disappear if the patient leaves his work and goes into the open air. Benzine also canses slight trembling in the hauds anil arms, accompanied by tingling selsations and numbness. MM. Tenmann und Alb. lalist helieve that these accidents are unt. entirely clue to benzine. Benzine in a pure state is very exphusire, and is usually rephaced in dyeing and clensing estatilishments by homologms sulstances which boil at atwe $130^{\circ} \mathrm{C}$. (2lifi Fuhr.) (methylhenzine, or toluene trimethylhmzine, or cumene, etc.), or by a kind of petroleum oil, sold as henzine. 1n workmen employed in benzine distilleries symptoms of a more serimus mature are sometimes observel, namely, intoxication accompanied by delirinn; the patient talks incessantly; in some cases his speech is embarrussed, and he stutters. Aplinsia which lasts several days is sometimes present: also eprileptitorm attacks. followed lyy coma, aphonia, and mental disturlance. looss of sexual power is often one of tho earliest symptoms of clironic hensine poisuning. l'aresis, paralysis, facial hemipiegia, disturbances of sensibility (anesthesia, hyperesthesia), are alsomet with.
M. Quinquaud has observed ancemia in workmen engaged in distilling lenzine. The pulse is accelerated but regular, the skin hot, the eyes and face are animated. The patient emits a strong odour of benzine; the teeth and sums present a blackish edging, darker than that observed in lead-1wisouing, and threatening to spread all over the teeth. The digestive organs are normal. The action of benzine may be compared to that of cliloroform and alcohol. Workmen whio are addicted to taking large quantities of alcolol are more rapidly and serionsly affected than others by the influence of benzine. Nitro-benzine, like aniline, may he introduced ly the digestive passages, or hy inhalation. The first effects are observed half an hour or an hour after it has been taken. The symptoms consist of general uneasiness, weakness, headache; the skin of the face and extremities assumes a livid, bluish hue ; the nails are of a dead blue colour. Cyanosis invades the mucous membranes, the walls of the mouth, the gums, tongue, plarynx, etc. The patients exhale an odour of hitter almonds. Vomiting occurs in certain cases. The romited matter and the sputa smell of bitter almonds. These first symptoms are follorred by dyspncea and quickened action of the beart, which gradually becomes slower. The pulse is accelerated and weak. Conrulsions, cramp, contractions in certain museles (trismus, opisthotonos, etc.), are observed. There is occasionally loss of consciousness, of sensibility, and of reflex power;. the intellectual faculties are not usually affected. The urine has the odour of bitter almonds, and is thick, but fren from allumen. In certain cases the affection runs a rery acute course, and death speedily easues. In others the morbid phenomena become gradually more marked, ending in coma or conrulsions. These often last several hours, and are followed by death. In some cases coma is followed by the gradual disappearance of all the phenomena. of forty-four cases of poisoning by nitro-henzine, fourteen proved fatal. These symptoms are frequently manifested by workmen employed in establishments for the manufacture of nitro-benzine. Oceasionally they are limited to a general sense of uneasiness, heat in the mionth, pricking in the tongue, cranosis, and vertigo. Coma is only observed in those who have worn clothes imbued with liquid nitro-benzine for a considerable period. Most of the symptoms disappear if the patient abandous his calling, but they frequently recur when he resumes it,

If. Terrillon has performel thirty-five ovariotomies with twenty recoreries, lvour of the patients died. all from exhaistion, after operations of exceptional difficulty. In no case did death occur from peritonitis or septicxmia. il. Terrillon insists on the necessity of nsing proper antiseptic precantions. Ile considers it adxisable to substitute regetable sponges or a spongy tissue for ordinary sponges. The cleansing of the peritoneum with boiled, filtered water, is an important matter. M. Terrillon gives purgatives the day after the operation, especially in the case of patients Wha are troubled with wind, or colic

In a report by M. Mahé, Fremch Sanitary Officer at Constantinople, on the Malometan pilgrimage to Mecea in 1.8.7, he states that amongst the 90,000 pilgrims. 605 deaths were known to hate necurred, and it was prohable that there were in reality three times that number. Dr. Jahe points out: I. That the station of Camaran, established in 1882 for the landing and inslection of the pilgrims coming into the Red Sea from the Indian Ocean, checks the spread of disease, aml is a resting prace for those debilitated by the woyage. This control over the pilgrims immediately on landing has prevented the inportation of cholera into. Madjaz during four consecutive years. 2. As long as the presence of Christians in the pilgrimage is prohihited, a nuiform healthy condition of the pilgrims cannot the hoped fur. .3. One of the greatest clangers to the pilgrimage is the extraordinary number of pilgrims from India, with the close crowding and nnhealthy state of the vessels whieli transport them. A new statute is being formulated by the Conscil de Sunté le Comstantinople, with a view to alolish this exil.
The administration of the sanitary service of the War Department have repeated the experiments made last summer on the transport of the sick ly water. In orler to seo whether this plan could be employed with equal sucens in winter, a steamboat left the Quai Ilenri IV., last week for a two days royage. The passengers were composed of army surgeons, eagineers, and hospital attendants. The hoat was heated by different kinds of stoves. The experiment was eminently successful, and proved that this Plan, ly which the sick and wounded mar be conresed withont jolting or shaking, will be of great advantage in time of war.
The Comite Consultatif illyygicue de France met the other day
to discuss the importation of fresh meat, especially mutton. 'A question was raised lye the Conseil Supérieur de l'Agriculture as to the necessity of the risecra being left in careases imported from abrond, in order to determine the presence of disease. It was decided, after a short discussion, that the presence of the viscera is not indispeneable.

## SHEFFIELD.

[FROM OOR OWN COLRESPONDENT.]
Lead in Drinking Hater: The Action of Peaty Water on Lead. -Inquests rithout IFieving the Body.-Wercs.
Mr. A. II. Allen, the horongh analyst, read $n$ paper before the Shefield Literary and Philosophical Soeiety, on March 6th on the Action of the Sheffeld Water on Lead. ife did not agree with some observers, that incredibly small proportions of lead would produce poisonous effects. llis belief was that, except in the case of very susceptible persons, poisouing had usually occurred from the habitual drinking of water containing more than a quarter of a grain per gallon. Anything over that proportion must not be neglected. He referred to the water supplied from Redmires, as being that which aeted so prejudicially on the lead piping. Dr. Tidy and his coadjutors believed that the activity was duc to the small amount of silica at present in the water, and suggested that it should be subjected to an elaborate system of filtration through flint and limestone, with a view to introducing the requisite amount of silica, which was at least half a grain per gallon, to render it inactive. As, however, the Redmires water contained a sensible quantity of free acid which was of vegetable origin and probably derived from the oxidation of peat, he regarded the presence of this acid as a highly probable cause of the activity of the water. He did not think attempting to neutralise this acidity by bringing the water into contact with limestone would be suflicient. At Keighley it had been necessary to supplement the limestone by placing blocks of quieklime in the consuits. He thought it would be preferable to add the lime in fine powder, or in just such quantity as would nentralise the acid at present in the water. The special aetivity of the Redmires water just now appeared to be due to the absence of rain. During last year the rainfall at Redmires was under 25 inches, whereas for a whole period of fifty years, the average had been 41 inches. After an exceedingly dry summer, the Octover rains came in limited quantities, with the result of getting all the acid without the water to dilute it. The President, Dr. Dyson, pointed out that the opinion of medical men agreed with Mr. Allen, that in regions supplied by the Redmires water, patients had suffered from lead poisoning which could not be attributed to anything but drinking the water. lle did not think the matter was a light one, for in many instances the damage was hasting.
Following the example of the Sheffield coroner, an inquest has been held liy Mr. Busby, without viewing the body, at Jew Tupton, Clay Cross, on a miner who was found dead in his house on the previous morning. Medieal evidence was given that the crusc of death was hemorrhagic small-pox. A verdict to this effect was returned.
Dr. McDowell, who has been for several years at the Wadsley Asylum, has bcen appointed Medical Superintendent of the new Menston Acylum. While congratulating him on his well-earned promotion, his old friends at Sheffield will regret his departure from their midst.

Mary Price died on March 3th in the Fir Yale Workhonse, Sheffield, having juat passed her lolst birthday: She was bornon March 8th, $17 \times 7$. Her husband, a soldicr, was engaged at the battle of Waterloo, which she witnessed. He died many years ago.

## NEWCASTLE-UPON - TYNF.

## [FRDM DCI ows comestondent.]

The Horkhouse Scandal.-Medico-Teyal Cuse at Durhaw"-Issizes. -The Pathological Society. - The College of Ifellicine.
At the meeting of the Neweastle Board of Fuardians last werk, The matarand medical officer of the workhouse were re-elceted, though only a few weyke hefore a Government inquiry had heen huld to ennidur the manner in which hoth officers had lately discharger their duties, with the result that hoth were called upon to resign forthwith. The mastir was reelected by 26 yotes to 1.5 the medical oficer by 20 to 14 . The Board has thus set the

Local Government Board at deflance, and it remains to be seen what the outcome will be; the ratepayers at a town's mecting held to consider the sulbject, with the Mayor in the chair, by a very large majority, earried a resolution'condemning the re-election of hoth gentlemen, and also recommending that the result of the meeting should be forwardel to the central body in Londen. Dr. IIardeastle has held the appointment of medical officer for many years, and thongh not altogether free from blame in the manner in which he has diseharged his duties, is yct probably more sinned against than sinning. Until the advent of the present master everything seems to have gone smoothly, but during the past few years the master and medical officer have not been on good terms; bickerings have been constantly going on, the climax being reached during the tate outbreak of scarlet fever. The guardians have decided to appoint a resident medical officer, whose duties will be to work under the senior medical officer: a good many candidates are nalready in the field for this appointment.
At the Durham Assizes last week, before Mr. Justice Charles, an action for negligent treatment was hrought by a miner against Mr. Ellis, of Dishop Auckland. The facts of the case are shortly these. Mr. Smith, an nnqualified assistant, in the alsence of Mr. Fllis, attended the plaintiff's wife in her confinement; a portion of the placenta was left after delivery. She subsequently became very ill, delirious, and unmanageable. Mr. Ellis still being away from home, Mr. Arnold, a Licentiate in Medicine of Durham University, was called in; he preseribed mustard poultices and injections; finally, the portion of placenta was removed, and the woman recovered. Mr. Arnold was submitted to a very severe cross-examination by Mr. Waddy, as to the nature of his qualification, and also as to his antecedents, eliciting many details having no bearing on the ease, but which could not tend to increase the ralue of Mr. Arnold's evidence. Dr. Oliver, one of the physicians to the Newpastle Infirmary, gave evidence that, on examining the woman, he found evidence of inflammation, but it could not be traced to parturition. The judqe thereupon dismissed the case.
The last monthly meeting of the Pathological Society was held on Thursday last, and was well attended ; the agenda paper was a long one, and many interesting patients and specimens were exhibited. I understand that Drs. Anderson (Seaton Delaval), Murphy (Sunderland), and Gowans (South Shields), were nominatell for the post of president for the ensuing two years. The result of the roting will not be known until next session. All three gentlemen are active members of the Society, and have pretty equal claims on the members for election ; tho contest will be a very close one.
The Council of the College of Medicine, at their last meeting, elected a demonstrator of anatomy, or, rather, a medical tutor, for the primary examinations. Three candilates applied: Dr. Ridley house-surgeon to the Nerrcastle Dispensary, who lately passed the primary F.R.C.S., and who is engaged in giving tutorial instruction to students for their first examinations; Mr. Rutherford Morrison, a local surgeon; and Mr. Bennington, a surgeon, now reading for the Durham degree. Mr. Bennington was elected to the post. Mr. Henry Armstrong haring resigned the post of Socretary to the College, Dr. W. F. Mears, lecturer on anatomy, was elected to the racancy.

MANCHESTER.
[hrom our own correspondent.]
Owens College.-The Royal Infirmary.-The Vacant Obstetric Chair--Small-Po.r at Blackburn.
At the half-gearly meeting of the Governors of Owens College, the Duke of Deronshire was re-elected l'resident for another perion of five years. The Court has decided that permanent arrangements shall be made for the instruction of women students. So fur this regulation does not apply to the medical classes.-A on Professor lund, who has resigned the chair of Systematic
Mr. A. M. Paterson, Senior Demonstrator of Anatomy in Owens College, has been elected a Leeturer in Victoria Uuiversity.

The total sum collected on IIospital Saturday amounts to $£ 2,558$, and on Hospital Sundny ex.484.

We understand that important negotiations are being conducted between the authoritins of Owens College and the Royal Infirmary board of Management with the view, if possible, of securing a more intimate relation between these tro institutions. At the
present time the elinical teaching at the Infirmary is earried out by the Infirmary staff, and a professor of medicine or surgery in Owens College as such has no beds attached to his chair. Were the College in a position to offer to its professors of the practical subjects not only the position of professor, but beds in a hospital, withont donbt there would be a much larger number of candidates for these chairs. Another question under consideration is the division of the hospital fees paid by the medical students. At present the medical students pay a sum for the hospital practice, and for instruction therein, and this sum is divided amongst the members of the Infirmary staff, and it does not appear that the Infirmary funds profit ly the large sum thus annually contributed by the medical students. In some hospitals it appears that a separate fee is charged for admission to the hospital and another sum or sums for the elinical instruction therein received. The former sum goes to the Infirmary, and the latter is divided in certain proportions amongst the members of the teaching staff. In Manchester, however, practically all the hospital fees go to the staff.

The racant chair of Obstetrics will probably be filled about the end of this month.
Small-pox continnes to spread in Blackburn, where at present there are nearly thirty cases.

## CORRESPONDENCE.

## LOOSE BODIES IN TIIE KNEE-JOINT.

Sir,-In the report (lounNal, March 3rd, p. 469) of the brief discussion on this subject at the Medical Society, I am correctly stated to have expressed my scepticism with regard to the possibility of the formation of these borlies by the detachment of portions of the articular eartiłages; and 1 would be glad to state more at length my reasons for this scepticism, knowing that the riew which regarels this as one of the modes of origin of such bodies is generally accepted.

1. It must be a very extraordinary and riolent accident that would break off juto the lnee-joint a piece of the articular eartilage, with or without bone, of the femur or the tibia. One can scarcely imagine the occurrence of such an accident, or conceire how it could take place. Even a smart blow from a hammer would hardly produce it; and in any event such an aceident would be attended with serere shock and contusion of soft parts, echymosis and immediately consecutive pain, inflammatory and nther trouble, which the sufferer would not quickly recover from, and would not easily forget, but which we do not find forming part of the history in cases of loose boties in joints.
2. Such a detached or semi-detached fragment could scarcely assume the cven-surfaced, sphericul, or circular flattened form of a loose cartilage.

We have a ready and sufficient explanation of the formation of lonse bodies in the growth into the joint of tufts or processes of synovial membrane which may assume various forms. which, naturally containing eartilage cells, may become the seat of carti-Inge-growth and ossification of the cartilage, which become pendulous as they increase, and by rupture of the pedicle become Inose in the joint: and we frequently sec the various stages of this proress in the same joint. We need not therefore seareh for other and highly improbable modes of origin. 1 may observe that the ossification which takes place in then accords with the ordinary process of ossification in cartilage: and a section of one of them does not correapond with that of articular cartilage and bone. This process is quite sufficient to explain the origin of the single as well as of the imultiple loose bodies, which latter are common in rheumatic arthritis; and we not infrequently meet with inctanees in young persons where a solitary loose body, not having Yet broken loose from its moorings, retains its attachment to the -ynovial membrane.

I can scarcely suppose that anynne really belieses that a portion of bone detached by the process of necrosis can be converted into me of these hodies. though such a suggestion is actually made in n recent and important work on surgery.
The explamation of the ilea that these holies are sometimes due to the detachment of portions of the articular ends of the bones is. 1 lelieve, to be found in tho fact that now and then we meet with a loose eartilage whieh does not present a cartilacinous covering over its whole surface, the bonc being more or less cx-
posed at one part, so simulating, though very remotely, a detached fragment of bone and cartilage. But in these instances, so far as I have observed, the exposed bone is smonth, and its exposure is due to the cartilage which eovered it having been rubbed off byattrition against some part of the femur or tibia in the movements of the joint ; and the attrition may hare produced a depression in one of these hones, which may be thought to confirm the idea of the loose body laving been caused by a fracture. This is well illustrated by a specimen, in the pathological collection of this Unirersity, of a linee-joint with rheumatoil artbritis which I excised, with good result, from a man aged 60. In addition to tbe usual evidences of the disease, such as wearing away of the articular cartilages and the bones, with bony growths around, and with thickening of the synovial membrane and filamentous processes from it, there are numerous masses of various shapes aud sizes, for the most part spherical or spheroidal, consisting of true lyyaline eartilage and true bone, some of which are loose in the joint and some hanging from the synorial membrane. One of these, of about the size of a filbert, closely bound down lir the fibrons strnctures on the inner side of the head of the tibia, has ly its pressure caused absorption in the articular margin of that lone, and so formed for itself a concavity in which it is longed. Its form and surface, and the cavity in which it lies would give the impression that it is a detached fragment of the tibia. This, however, is disprored by its similarity to the other masees with which it has no doubt the same origin, namely, from the synovial membrane, and by the fact that it is larger than the cavity which aecommodates it, having grown in between the articular surfaces of the tibia and femor, as well as by the absence of any account of an injury that conld have caused such a fracture.

Surely the origin of a loose cartilage from a detached fragment of eartilage or bone borders so closely on the impossible, that it ought not to be rauged in the category of the probables by so goorl a surgeon and pathologist as 1 know my friend and quondam house-surgeon Mr. Sheild to be.-1 am, etc.,
Cambridge, March Gth, 1888.
G. 3. MtMphri.

## MENSTRUATIOS AFTER HYSTERECTOMY

Sir, -In the Journal of February 25th, page 415, Dr. Greathead reports an interesting case of menstruation after hysterectomy, with removal of oraries, and remarks: "I am aware that such a phenomenon has been observed after donble orariotomy:" By inference, therefore, one may conclude that Dr. Greathead is unaware of any other case of menstruation occurring after the remoral of the uterus and its appendages. If he will refer to the Jocrnal for October 2.?nd, 1887, he will find the report of a case where, although 1 amputated the uterus close to the raginal attachment and removed both appendages, the menstrual period returned at the next period, normal in time and quantity.

In a mumber of double orariotomies that I have performed menstruation has nceurred once, msually two or three days after operation; in fact, I look on its occurrence as the rule rather than the excention in such eases.
In'a case of remoral of hoth appendages for rapifly growing fibroid, which I did twelve months ago, although the tumour has dwindled, menstruation continues as profusely as before, and I am now treating the caso by electrolysis, with apparent success.

Fortunately, uterine bleeding does not always oceur after doublo ovariotomy, as a fortnight agol remored hoth oraries for eystoma in a woman three months pregnant, and as there has been no disclarge 1 conclude that she is now safe from miscarriage.- 1 nm, etc.,
A. W. Mayo Iiobson.

Leeds, March End.

## METROPOLITAS IROVDENT MEDICAL ASSOCI.ATION゙

Sir. - The following resolutions have been agreed to by a committee of medical men, appointed to consider the objections to be taken to the scheme of the abovo Association, and I have been instructerl to inrite the attention of memhers of the profession to the subject, and to obtain the signatures of such as are disposed to acquiesce in the views expressed, or to offer suggestions in the matter.

Resolved that:

1. The resolutions adonted at a public meeting, held at the Society of Irts in December, 185\%. cannot be accepted as embodying the opinion of the medical profession.
2. That ohjections to the scheme nf the Metrenolitan Provident Medical Association are based on the following groun's:
a．I＇rovision for medical attendance on those unable to pay the feets required in ordinury practica is already amply provided for loy existing charitable institutions，or by the individual or collective efforts of guneral practitioners．
b．Measmres hitherto taken hy the lay public to establish so－ called provident medical institntions have invariably resulted in introdncing a system of unheralthy competition，detrimental ulike to the bestinterests of the profession，and subversive of its in－ theneo with the genoral pualic．
r．The wholesale distribution of handbills by the organisers of any scheme of medical relief is to be condemned as much as similar action on the part of individual members of the pro－ fession．
3．The committee would further suggest that to carry out the urineiples embodied in these resolutions it is desirable，in order to preserve tlie rights of gemeral practitioners，that an organisation be formed for that purpose．
It will be observed that it is proposed to form a definite organi－ sation to oppose this scheme，and the following members of the committee，or myself，will be glad to receive the names of all members of the profession who ure willing to co－operate：－Ihr． Cohen，195，Sutherland Avenue，Maida Vale，W．：Dr．Saunsell，St． Mark＇s IIonse，Bolinglroke Rond，S．W．：Dr，Jaramore，2，Gordon Square，W．C．$:$ Dr．Kisch，Abingdon Ilouse，Sutherland Avenne， Maida Vale，W，：Dr．Sargent，High Street，Shadwell；Dr．Wain－ wright，？30，Brunswick Road，Poplar；Dr．Simpson，IlO，Lavender IIII，S．W．（treasurer）．－I am，ete．F，Conbys，IIon．Sec．

18，Abercorn l＇lace．St．Joln＇s Wood，N．W．
l＇S．－The resolution passed at the Society of Arts was in favour establishing metropolitan provident dispensaries all over London．

## CONSULTATJOX WITH 1JONCEOPATJS．

Sir，－Is a member，and $a$ member of the Council，of the Glou－ cestershire Branch of the British Medical Association，I desire to record my personal protest against the conclnding paragraph in the report of the meeting of that Branch in last week＇s Jounvial．
The paragraph was as followe：＂The result of this meeting was most important，showing the great feeling in farour of admitting homoopaths to equal fellowship，aud as far as the county of Gloucester is concerned，having settled the question as to the right of holding consultations with them．＇
The meeting was not summoned for the arowed purpose of settling this question，and it was not representative of the count or the Branch．The number present was very limited．Chelten－ ham，Lydney，and Gloucester alone were represented，and the two former of these only by one member each．

I am not here concerned with the merits of the question under discussion，but simply desirons of expressing my dissent from the indiridual conclusion of the reporter that in mecting，summoned and attended as it was，is to be regarded as settling any important question on hehalf of so large a constitnency as that of the Glou－ cestershire Jirnneli of the Association．－I am，etc．．
（iloucester，Marchl l＂th．
Tred．NEEDIAM．
TRE．JTJENT OF LTERINF，FIBROIUS BY EJECTROLYSIS．
Sir，－Mr．Knowsles Thoraton，at the mepting of the West Lombon Merlicn－Chirurumal Society on March Mnd，stated that le know of one ease of utecine fibroid treated hy electricity having fenderl fatally．When asked to state the easa it was foimd that he hal gnne，and so I take this npportunjty of asking hitn to give a few ne the facts in connection with it，so that those who are now trying nlectrieity may profit by the cxample．－I am，etc．，
！，Collingham J＇lace，South Kensington．J．lsolis I＇Arsons．

## CASF，OF CEREBRAL ABSCESS．${ }^{1}$

Sirn，－In my account of a Case of Cerehral Abscess，pub－ lished in the Jorrasse of March 10th，p．in30，I have omitted to men－ tion a similar case reported by I）r．Maccwen，in the Iancet，Jarch ofth， 1827 ，which I had accilminally overlooked，and to which my attuntion was called at tla meting of the Medical Society： 1 Jad intemled making the necessary corroction before the paper was publislued，but fur some reasou libe proof was not submittcd to me．-1 am ，ctc．，

David Ferrier．
34，Carendish Square，$W$
－ 1 The surgical history of the case，hy Mr．Victor Horsley，F．R．S．，will be published next weok．

## NAVAL AND MILITARY MEDICAL SERVICES．

## COLCNTEEK AMBULAYCE SCIOO\} OF INSTRLCTION゙.

OsE of the largest Volnntecr Imbulnuce classes vet held，number－ ing 120 mambers，was brought to a most successful conclusion on Monday，March 12th，at the headquarters of the London Senttish R．V．，where the ofticial inspection was held by Surgeon H．R．Cox， of the Coldstream Guards．After the drill and examination of each member，the whole class were awarded the army ambulanee certificate，and were lighly complimented on their collective and intlividual efliciency．

On Fridny，llarch 9th，no fewer than fourteen detachments entered for the prize competition，held at the Queen＇s Hall．West－ minster．Surgenn O．11．White，T．H．K．B．，and Surgeon Heather Bigg，London Irish R．V．，were the judges，and awarted the first prize to a detachment of the Victoria K．V．and St．George＇s R．V．； second prize to the Queen＇s Westminster R．V．；third prize to the London Scottish R．V．The Royal Naval A．V．were fourth in order of merit．A prize for old members was taken by the 17th Hid－ dlesex（North London）R．V．
Dr．Walter Pearce，of the Artists＇Corps，the medical officer in－ structor，was entertained to dinner by Dr．G．Ogilvie，of the Lon－ don Scottish，and the officers，non－commissioned officers，and men， of the class，at Anderton＇s Ilotel on Saturday．March luth．Thirty－ one corps were represented，comprising Royal 刃゙aral Artillery， Yeomanry，Artillery，Enginecrs，and Rifle Corps of the metropolitau district．During the evening Dr．Walter Pearce was presented with a handsome silver inkstand bearing an inscription，and an address，with one hundred signatures，expressing the appreciation of his endeavours to perfect the instruction of the regimental stretcher bearers of the volunteer force．

The course of instrnction included lectures on barrack and camp bygiene，which were delirered in the anatomical theatre of St． Miry＇s Hospital，by the kind permission of the Dean of the St． Mary＇s Medical School．

## JNDIAN MEDICAL SERVICE．

＂A IREADER＂is informed that competitive examinations for appointments in the Indian Medical Service are ușially held twice a year，in February and August， and the number of vacancies is atvertised some time before．The examalna－ tinn is identical，and held simultaneonsly with those for the army and naval medical services．All information can lie obtained by application to litu－ tenant－General A．B．Johnson，C．B．，Military Secretary，India Office，White－ hall，London．S．W．There is no absolute physical standard lald down for officers，hut all have to undergo a medical examination previons to being allowed to cornyete for commissions；of course，any serious physical defect or imperfect vision or hearing might lee held to incapacitate，but every casp would be broadly judged on its merlts．India has always afforned a moble field for the mellical officer．

INDIAN CIRCULARS．
IS oficer of the Monlical Staff writes from Iulia that grava dissatisfiactivn is caused in that country bye＂never chang flow of circulars min ever． possible and impossible subject＂issued for the guidance of the medical sm－ posse．One lately obliging senior and junior offeers alike to submit to peri－ odical written wiminations，was soon cancelled as impractieable．
Especially do medical officers resent the fact that when their hospitals are inspected by the surseon－cenneral he is accompanied by an apothecary as staft oficer instead of by one of his secretary medical officers．

TIIF RIGIIT OF RETIREM BAST AFTEIR TWENTY YEARS＇SERVICF．
SURGKUN－MAJOR 191 XRARS SFRyiof，writes：From the War Oflice memoral
 Glim in the armer atical officers to refire on a pension after twent y Government not to alla this be carried into effect a serions breach of taith wili vears service．and all the aurceons admitted into tho arroy since the Roynl War be cansed，and all the surgeons admitted into tho army somer false pretentes． believe they mher．18．9．will have been obtandred，and I recarmend that a vimons pey number hetween five and sho hameracarance of a new foral Warrint．

ABOLITION OF JRELATIVE RANK IN INDIA．
TH1：Indian Medieal Giatetle in a ret mappettue srtiole on the rear 188，refors in he reep feelinge excited by the alonlition of relative rank，and says that it was naturally looked upon as a defrivation of all ratuk，with the exception of de－ partmental rauk．
＂Hecent warrants and owlers，＂it adds．＂have striven to remowe this itn－ pression by indleatimg the value of the part nental rank in terms of army rank， fred it is rumoured that on eath oeension of gazetting a merlical officer，his army rauk will bo specified at well as his departmental rank．As long as the army of medical officers in the army is clearly indicated，it does nol signify status of medical oncers in is done．We are opposed to the substitutinu of much in what manner departal tifles ；but by the use of auch compound terma combatant for departmentalcoon－captain，surgeon－major，etc．both depart－ mental status and military rank might be easily and conveniently speelioel．＂

ROXAL WARRANT.
Establisument of Abpix Mfbical lieserye of Officers.

## VICTORIAR

Whereas We deem it expedient to provile for the establishment of an Army Metical Reserve of Ofticers:
Oar Will and l'leasure is that the following shall to the conditiona under which the said leserve shall be formed :-

1. The ranks of Officers of the Amy Medical Reserve shall be those of Surgenn-Major and Surgeon.
2. Medical Officers of Our Militia, Yeomanry Cavalry, and Voluntecrs, who may desire and be permitted to join the irmy Medical Reserve of Officers, shatl undertake to perform Army duties at home muler rules to he fixed hy Our secretary of State. and to act"ander the meters. firr ahninistrative pupposes. of the Director-General of the Aemy Mefical Depatiment.
3. Acting Surgenns, and Honomry dssistant Surgeons, of Volunteers may he permitted to join the Aymy Merlical Reserve of Officers if they bave passed the pruserthed examinakion for protieneno.
It is Our further Will and Pleasure that the rank of Surgeon-3ajor shall be conferred ou those Surgens of Our duxilitry. Forces who may desire and be permitted to join the Army Mediral Reserve of Officers on completion of 12 permits service from the date of their first apphintment to the Anxiliary Forces : and also that Acting surgeons, and Monorary Assistant Surgeons, of Volunteers permitted ta join the Reserve shall be granted the rank of Surseon therein.

Given at Our Court at Windsor, this eighteently day of February, 1888, in the ofst jear of Our keign.

## By Her Majesty's Command.

ELWARD STANIOLE.
Searetury of State's Instruetions on the forejoing Warrent.

1. No Ifedleal Officer of the Anxilary Farces shall tie spnointed to the Army Medical Reserve who is not medically tit for service, and whose character and qualifications are not in all respects satisfatory.
2. The names of all Officers of the Army Medical Reserve shall be jucluded in a sperinil Arnyy Medical Reserve Iist.
3. Officers shall be removed from the Army Medical Reserye List on attaining
the age of 6 . the age of bis.
4. Uflicers of
5. Officers of the Army Medical IReserve slall be liaple to be called to A rumy service at home in times of great national emergedey, to take the place of such of the Medical staff of the Army-ds may be withrrawn for active service; and when socalled out shall receive the par and allownees of their rank.
6. Medical Officers of the Auxiliary Forces who may he permitted to join the Army Medical Reserve shall undertake to accept the charge of the Officers and mem of any detacliment of tronps, not having an Officer of the Merlical Staff

neration laid down in Art, 35 of the lhoyal Warrant fon Pay, etc., 1ss7.
6 . Ofticers of the Army Medical heserve wha are. willing fo offer their services will have a prior clam fo employment th the district in which they reside to other Menical Offcers of the Auxiliary Forces, or to civilian medical practitloners.
7. The acceptance of appointments in the Arny Medical Reserve will in no way modify the position of Merlical (oflicers in the regiment or corps of the Auxilary Forces of which the belnus.
8. Ofticera wishiog tu amply for arpo
will forward their applications, aromotntment to the Army Nedical Reserve will forward their applications, throushi the Officer commanding the Corps to which they helong. to the Gencral Officer commanding the District, for transmission to the Militafy sucretars.

ARNY゙ MEDICAL RESEIRYE.
M.S. writes 1 Paragraph 4 of the Secretary of State's instructions 'on thic Warrant for the formation of an druyy Hedical Reserve of Oficers, reads thus. "Officers of the Aruyy. Metical Reserte shall be liable to. be called to Army"servive at home. in times of great antional emergency to take the plares of such of the Merlical Staff of the Ammy as may he withdrawn for active service; and when so called-out shath reccive the pay and allowainces of their rank." The italics are my own.
the abore is plain enough. It ought to be our care to jealously guard against ans eneroachment on our privilezes, such as the employment of aoy of these reserve othicers, except in rases of national emergency.
Ciranting that mur present rata of IMy is good. it wonld no longer be regraded as such if service in the Medital stan of the army was littlemme than perpetual foreign exile. which this reserve of officers might foreshadow, if our haterests are not steadily defented.

## TIIE NAVY

ThF undermentioned appolntments have hecn made at the Admiralty:- Ifre-
 Surgenn to the Thafigh; SAMES W. II, HAWIOS, Staff-Surgeou to the Valorous;
 Valevrive Stose: to he Surpeoni and Agent at tzon and Montroke: Staff-Surgeons Ricitard G. Brows and Jour Mackie, to the President, additional.

## TIH MFDIOAL STAFF.

Bmane-Surgivos Joms Mackevzis. M. I.. has beeu granted retired pay. He Cutered the service as Assistant Surgeno. August jth, 183s; became Surgeon. March lst, 1273 : Surgeoll-Major, April ist, 1 $\$ 73$ : ath, Brigade-Surgeons. September loth, 1884 . He served thimughout the war fin North China ln 18tio, and revelved the medal granted for that ermpaign.
 C.I.L. has heen allowel to corumute his retired pay, which was granted April 186h, i:

TIIR INDIAN MEDICAL SERVICE,
Scraßne W. W. Wenm. Bengal hisfathishment, medtal officer of the Meywar Bhel Corps, is appointed torofichate as Civall Surgeon of likanerer, vice Axsistant surgeon Shhil Ditta, whose servicea hase beca reqlaced at the disposal of the Punjab Gwernnent.

Surgens F. J. Cratround. M.D.. Mairas Establlshment, doing duty with the medical charge of that in the Eastern District, is appointed to the officlaling The services of Surgenn D. Vice
The services of Surgenn D. Wiccem, Matras Estahlishment, are replaced at the
wisposal of the Public Deluitment.

TIIE VOLU゙NTEERS
Surgeos and IIoDorary Surgeon-Major J. MiTxTm, of the lat Argyll and Butw drtallery, has resigned his appointment, whlel wore date February 20th, 1sil ; be is permitted to retain his rauk and unlform.
Acting-Surgeon A. Mitcrrfil. M.D., of $f 1 \mathrm{e}$ 1st Volunteer Brigale Easteru Divisim Royal Artillery (late the lat Norfolk), Jas resfgued his commission. which dated from jlecember 8 th, $1 R * 3$.
Acting-Snrgeon W. Bell, of the 2ud Tower Hamleta (liset London) Fort rese and Railway Forces, Nhyal Engineers (untll lately known as the Towror Ifamlets Eugineer Volunteers), has also resigned his corumission, datet August 9th. 1884.

- The undermpationed gentlemen have heen appointerl Acting Surzeons in the eorps suecified : Johy IIlLL, ist Voluntrer Brigate Ronthern Dlvision Roval Artillery (late the 1st 11 ampshire); Whitau Yousi, M.B., and T. S. Kinkrarid. M.B., to the 1 st Linlithgowshire; and Neville Willifis, M.B.. to the lat Volunteer Battalion Prince of Wales's O wn West Yorkshire Reglment (late the Ist West Riding of lurkshire).


## MEDICO-LEGAL AND MEDICO-ETHICAL.

## UYSUCCESSFUL ATTEMPT TO REFLSE PAYMENT OR FEES

The following is one of those cases in which a groundless charge is hrought against a medical man by a patient who, failing to respond to repeated applications for payment of medical fees, adopts this mode of retaliating by making serious and unfounded charges.

Dr. Valentine Rees, a medical practitioner residing in Brecon, sued a Captain Lixmore for fls 10s. for professional services rendered to the defendant from the year 1882 to 188. . Dr. Rees hat frequently sent in his account; and the defendant had continually promised to pay. In the rear 1886 Dr. Rees pressed for payment, when the defendant alleged that the charges were excessive and unreasonable, and at once issued a writ against Dr. Rees for damages for negligence. The plaintiff applied to the court for an order to stay the motion, so that the counter-claim on the action be brought should he tried that day: The plaintiff succeeded in every court, and the defendant's representatires ultimately mithdrew their connter-claim. Dr. Rees courted a public judgment. and on being sworn stated that it was not until his solicitor had written a letter to Captain Lixmore threatening proceedings that the amount of his account was disputed, or any complaint made as to the success of his services; on the contrary, the defendant and his wife had frequently thanked him (the plaintiff) for his very careful attention and kind services.
The judge, in giving judgment, expressed his opinion that the charges were not excessire, hut extremely reasonable, and pointed out that if the plaintiff had been nuskilful and negligent it was incredible that the defendant should hare continued to employ the plaintiff a whole year after le had discovered his negligence. and added be knew of nothing more despicable than for a man in any way to throw a serious imputation on his medical attendant, Whose professional reputation was essential to bis earning a livelihood. After making those charges, the defendant did not venture to come, forward and substantiate them, but tried to sneak out of them by not appearing in court. He gare judgment for Dr. Rees with all costs, and also judgment on the counterclaim and costs.

## COMPENSATLON FOR DISNELSSAL.

J.W.-An assistant, though unqualitied, does not oceupy the same position as a nenial servant. The common rule as to a munth's wages leing tho measure of damages loes not, therefnre, necessarily apuly, Supgrosiug the dismiscal to be wrongful, the assistant would be entilled to recover ds damayes the amonnt of his probable loss consequent on the dismissal. This maight in. clude something beyond a month's salary, or might, if he got another tugagement, be less.

## A FLAMING AbVERTISLMENT.

IRFPRFMFSSLDLE ns are sudi mprofessional circulars as the one isaued by Mr J. A. W. (which, moreover, seems to indinate a new departure irom the old devices), we are inclined to think that its stilted foolishness will tend. in some degree. to counternet it s claptrap, pretentious professions. Be that as it masy, We would, alike in the imperest of the grofession and-the puthlic, impress upon all lagitimate matetitioners into whose hands such cinculars and hindred advertis'ments may rhance to fall, the expedirzey ol semdiug a copy with a concigely written mote. or, better still. n brief meninrial signed by two or thren local mevicat men, to the respertive culleges af which the iuculpatert proctitioner may bapqen to be a member, in order flont. the salutary intucece of their disciplinary laws may be brought to bear on the wfender.

## CHALGE TO THE CPFRGY

Han "A Member" been an obserrant reader of the Joúrsil. he couln scarcely have failed to note that the question of professional charges to the clergy has been repestedly replied to therein (twice within the current vear). and that it is customary for a medieal man to charge "the elergyman of his parish." is to what would, in thit conse, be a fair fee to clasge a clergyman for a visit
and medleine is ton general a question for us to give a detinite reply in WIthnut a knowlertge of the surroundiggs. If. Jowever, our correspondent whit relerto the new edithon of the Medico-Chirurgical Taryls, he will fud the

## I'IEPWIL IUNATICS

A Jemarr.-Il the parochial nuthoritbes will not deal with the pervant girl as a pauper, apparcutly nothing eau he dono with her unless she " is deenied to be a luuatle. and is not under proper care and control," in which case the consfatide, relicving officer, or ovesserer of the parish or place who shall have knowledre of those facts sinll, within three ings after obtainiae such kunwledre, cive information upon oth thereof io n justice, who, iu his turn, slall procerd to act as dirceted in 16 anuli Vict., Cap. Pi, Scet. 6s.

ETIQUETTE OF RliTIRED PRAOTITIONEAS.
M.D. Writps: 1. A.. \{hree yents apo, disposed of his practice to Il. A. contimues on live in the same place, and is on intimate terns with B. In the bond of setitement of purchase A. declares not to practise. excepting in consultation with another jnedical man. A solicior's family livigg in the same place colt jaticnts of A.'s, nud who, by-thebye, partinlly exeented the decd) are patient
 Af C. immentinfels snut for, who promptly attends, not in consultation, but to fill up the \&ilu till C.As arrival.
2. A. occasionally aets as medical referec to an insurance company
3. A. frequently aives in a casmal way, fratuitous advice us to the use o fomestic remedies for ailments. Should not. A. absolnt ely reiuse to be made ase of in the above way:

- Although B. could no doulst. enforce against A. the fulfiment of the orvenants in question, we would connsel him to refrain from such a step, unloess the procectings (not unnatural from force of labit) of the latter entail upon the former an inconvenient pecuniary loss, and, even in that case, the hetter plan would, iu our julgment, be for 3 . to avail himself of a fittiog opportudity to remind $\Lambda$. in a kindly, conrteons manner of his presmonhly unintentional omission to carry out the stipulations contained in their mutual deed of sale and purchase ; for any hostile proceedings on the part of B. would not only be calculated to destroy their existing intimacy (a matter of import so B.), but would tend to raise a prejodice against him, and alionate $A$ is old friegds and patients, aurl so mar lis future professionat prospects.

With regard to the case of accident, even supposing that, in that emerKency, f . had been called in, it would bave been his duty on the arrival of the nttendant in ordimary to resign the ease to him. B. will, in our opinion, slo well not to interpret his legal rights in too st rict a sense.

## ADYICE AND MEDICIXE, 6n.: VISTT AND MEDICINE, 1s.; TEETII

 SKILFULLY EXTRACTYD, 6D.II Is searcely necessary to assure "Justitia" that any practitioner-be he physician, surceon. grafuate, or apotlecary-who may professionally associate himself with the dispensary in question would, uniler the circumistances referred to, he deemed inuilty of unprofesslonal conduct, and repuler Hinself amenmble to the disciplinary laws of his college. If, therefore our correspoument can assure himself of the individual personality of the physiclan and surgeon alluded to, and ean procure satisfactory evidence of lis complicity with the chemint, we wonld advise him to send s copy of the clrcular plicity with the chemm, we worial. conciscly setting forth the facts, to the with brief 110 to or memorial. concisely set allhiorities of the
tion is a member.

## INGRATJTUDE

- Cutratry Sungbox.-Deeply to be regretted as are such rasea of professional ingratitule as that referred o by" " $A$ Coustry Surgcon." we wnuld olserve that the one in question has more especlal relation in genemal antitiment than to medical ethics profer; we are not, thercfore, in a position tooffer any corament thereon.


## PHOFESSIONAL BHOTUEJIIOOD.

C.R.C.S. Fiva.. writes : My inther, it M.D.. nges K. for upwaris of twenty yeart
 surcoss a jublic [mosessionn] appointment, and, up to this year of grave, medical officer of a publie rharits, is now lying in probably his lant illucsa.
 fere from this Mifl. malent now, as well as on former occasinus. My father, in livgone davis. had prear attembled checrfully lipthe learling mein of the
 prole
when unforeseen family demands are being mate unnts his shender purac. I fed it my dut y, even at the risk of iucurring lifs displeasure fle having made no complaint) to ask thmogh the Jowratat your npibion upon thia piecen of profesainnal courteqy" (vide your answer to "is Fx-Bmach Presblent" inthe Joc'ryai, of Mareh 3rd. "p. 491).
** Sueli a case is unusual, and ft wonlel he indvisable to acek advice from other sources.

CONSELTATION WITH JUNIORS.
C. $n$, writak: May lask if heing requented to meet a man ninefcen frara vounger than yourade, of no sperial profesaional prominence, the noly differener being that he uracifsea io a rity and I lis the country, Would but hesuficient promme for deecliulng to meet him? What sloould be the etinuette on such ant meenalon?

- The followlng is the rule latul down in the Code of Medical Jithice, p. B2, for the culifance of [uractitioners in unfla cascs as tlat refcreed to ly our corresponilent :-
*When a practlinmer is ralleil upon to ment hls jurfor in conauleation for a seconi opinton, It will he compment for the former to represent the pror pricty and advantage of obtalnlng the assistance of a moro cxperlenced prac-
litioner: but if the patient specinlly desires to have tho opininn of any qualified member of the profession, even though a junior, it will lie at the option of the practithoner in attendance to acquicsco or withdimw. As a rule, how: ever, a practitinnes shonld never decline to meet another merely becanse he to his junlor, and he will best consult his own interest and that of the frofesslon by a ready nud courtenus assent to mect any junior of good repute. a con trary course would refect rliseredit on himself and the faculty.


## HOSPITAL AND DISPENSARY MANAGEMENT.

BELFAST ROYAL HOSPITAL: QUARTERLY MEETING.
Tue usual quarterly meeting of the subscribers and life governors of this institution was held on February 2-th, Mr. Nexauder Thate, C.E., in the chair. The staff reported that during the quarter there were treated in the hospital 5 tio intern patients, of whom 235 were medical and 325 surgical ; 83 operations were performet. During the same period there were treated as extern patients 2, (i50, of whom 611 were medical and 2,059 surgical; 192 minor operations were performed, and there were 369 cases of tecth extraction. It was stated at the meeting that M1r. Forster Green had withdrawn dis proposal to buikI n new wing to the Consumption Ilospital, the required endowment of $£ 15,000$ not having been subscribed within the stipnlated time.

ULSTER HOSPIUAL FOR WOBEN AND CIILDREN.
The annual meeting of this charity was held on March 6th, the Mayor of Belfast (Sir James Haslett, J.F.) presiding. The rejort showed that 3,000 patients had attendel at the extern department during the year, while 156 cases had been admitted to the warls, and 285 maternity cases had been treated in their own homes. The attendance of patients in the gymacological department had shown a marked increase. The operation of ovariotomy lad been twice performed in the wards, in both cases successfully. Owing to an outbreak of measles, the hospital had been closed for some time, but was now in full working order again. Two vacancies had occurred on the staff during the year, one owing to the lamented death of Dr. James Barron, and the other in consequence of the resignation of Dr. Kennedy Whecler. Dr. Caldwell had been elected to fill the latter vacancy.
ROYAL MATERNITY AND SIMPSON MEDORIAL HOSPITAL, EDINBURGIT.
The forty-third annual meeting of the Royal Maternity and Simpson Memorial Hospital was held last week, when the repnrt submitted to the directors stated that during the year 280 paticuts had been admitted to the hospital, and 714 were attended at their own homes. Two deaths had taken place in the hospital. There had heen forty-five nurses trained at the institution, and 176 stulents had received clinical instruction.

## GLASGOW OPHTHALMIC INSTITUTION.

The sixteenth annual mecting of this Institution was held on Mureh 12 th . The annual report shows a total of $3,712 \mathrm{new}$ enses treated during the year, of whom 463 were in-patients. Thes figures are nearly 200 in excess of the previous year. The average period of indoor residence was 20.65 days. Of the total casers treated 3,451 were dismissed cured, and 149 improved. In the sixteen years of the existence of the Institution, not far short o for,000 pitients have receired the benefits it affords.
bequasts and Donations.-Under the will of the late Mr Thomas Jessop the following hequests have been made to medical charities: The Jessop Hospital (founded by him at a cost of $£: 0,000$ ), further $£ 4,000$ : the Sheffield General Infirnary and the I'ublic llospital and Dispensary each $£ 200$ : Free 110 spital for Sick Chirldren and the Elind Asylum, eaeh Lio.-Mrs. Mingh has given $£ 500$ to the huilding fund of the Sheffield I'ullic Ilos pital and Dispensary. She makes the gift in memory of her lat fusband, and it is lime desire that a ward shall be designated the "Edward Bingham Warl."
St. Johis Amirisice Association.-Two courses of lecture on "First Aid" have recently been given by Dr. R. L. Batterhury at the Town IIall, Berkhamsted, and at the second course, whic has just concluded, thirty-one ladies (the full number sent up fo examination) were successful in obtaining certificates.

Dr. Jowrs, a former assistant at Earlswood, has been electe medical superintendent of that important establishment.

## MEDICO-PARLIAMENTARY,

## HOUSE OF LORDS.-Friday, March 9th.

Lunacy Acts Amendment Bill.-The House went into Committee on this Bill. Clauses 1 to 19 were agreed to. On Clause 20 Lord Donmer moved an amendment for the purpose of complling the Workhouse authorities to provide sufficient and proper accommodation for pauper lmatics. The amendment was negatived without a dirision, and the clause was agreed to, as were also Clanses 21 to 33.- Lord Herschell moved to insert the following clause after Clause 33:- "The notice by Section 19 of the Lunacy Act, 1853, required to be sent upon the recovery of a patient, shall state that unless the patient is removed within seven days from the date of the notice, he will be discharged. If the patient be not removed within seven days from the date of the notice, he shall be forthwith discharged without further order." The clause was agreed to, as were also the intermediate clauses up to Clause 57 inclusive.--On Clause 58 Lord Dormar moved an amendment with the object of giving to the local anthority power to build a hospital or asylum for private patients. The amendment was negatived, and the clause agreed to. The Bill passed through Committee.
rivisection.- Viscount Sibmouth mored that a humble adIress be presented to Her Majesty for correspondence between the Home Onlice and the Society for the Protection of Animals from Vivisection, in reference to two recent instances of infringements of the law, and asked whether it would in future be a portion of the duties of the authorities at the Home Office to cause legal proceedings to be instituted in similar cases. In one case the operation was performed on a rabbit, but without anestheties; and in the other ease a number of animals were inoculated in the presence of a number of persons and without anæsthetics. The law hatd been distinctly contravened; but, upon the attention of the Ilome Secretary being drawn to the cases, he replied in the one case that the licence would be withdrawn, and in the ather that so long a time had elapsed since the infringement of the law that he did not feel justilied in instituting proceedings. Under these circumstances he desired to know whether in future, in cases brought to the attention of the IIome Office, it would be deemed its duty to institute proceedings:- Farl Brownlow said it certainly was a portion of the duties of the authorities at the llome Ollice to cause proceedings to be instituted in cases where the Vivisection Act lad been infringed, and that duty had in the past been discharged. It appeared that the cases referred to were those of Mr. Hine and Mr. Pemberley. Mr. Iline had a certificate, but clearly exceeded the powers granted by the certificate; and the llome Secretary, on having his attention drawn to the matter, withdrew the licence. Mr. I'emberley had not a certificate, and the explanation was that he was acting as the assistant of Dr. Rnbertson, who had. It was clear, however, that he had infringed the law: but, having regard to the fact that a considerable time had elapsed, the Ilome Secretary did not think it was a ease in which proceedings should be instituted. There were other extemuating circumstances. Cases could be dealt with by the llome Office according to their circumstances, and it was not necessary on every occasion to take legal proceedings. The Government had no objection to lay the correspondence asked for upon the table.- The motion was agreed to.
The Siveating System.-The Earl of Dunparen moved: That the following lonis form the Select Committce to consider the sweating system: The Archibishop of Canterbury, the Earl of Derby, the Earl of Onsfow, the Earl of Aberdern, Lord Clinton, Lord Clifford of Chiadleigh, the liant of Limerick, the Eiarl of Crawford and Baldarres. the Warl of Dinmwen, Lonl Smadturst, Lond Rothschili, Lord Monkswell, und Lord Thring.-The motion was agreed to.

Monday, March 12th.
Phermary Acts Amendment Bill.-The report of amendments ou this Bill was agreed to.

Teaching University for Lomdon.-Lord Menscuele, in the absence of Lord firanville, asked the Lord Iresident whether he hat made up his mind as to the mamer in which he would deal with the application for a charter for a Teaching University in London, and other like applicutions for charters; and whether he had conie to a conclusion as to a Royal Commission on the subject. - Tiscount Cnismbook replied that he had come to the determination to recommend the issue of a small Royal Commission to inquire, and he hoped that at no great distance of time it would bo able to report.

HOUSE OF COMMONS-Monday, March 12th.
Scarlatina from the Cow.-Sir II. Maxurile, in answer to Mr. PICTON, said that some months ago Professor Brown was instructed to make an inquiry into the existence among cows of an eruptive disease of the teats, which it was alleged in one case (the Hendon outbreak) had induced scarlatina in man by the agency of the milk. In the course of the inquiry he availed himself of Professor Crookshank's offered assistance in working out the micro-pathology of the affection. In regard to the outbreak in Wiltshire, Prolessor Crookshank had stated that he considered the disease was the Jennerian cow-pox. Professor Crookshank had not yet furnished a report on the micro-organism of the cow-disense. A report on the whole subject wis being prepared, and would be issued as soon as possible by the Agricultural Department.

Deaths from Want.-In teply to Mr. Krlbride, Mr. StuartWorthey said a return was now in course of preparation showing the number of deaths in the metropolitan district in the year 1887 upon which coroners' juries had returned verdicts that they were due to starvation, or were denths accelerated by privation. As to bodies found in the Thames in the City of London and in the metropolitan district, there would be no objection on the part of the Government to furnish a return.
Army Medical.Officers.--Dr. FarQuharson asked the Secretary for War whether he had received from the British Medical Association a statement containing an analysis of the opinions of nearly 900 army medical othicers with reference to the recent abolition of relative rank, and whether a widespread feeling of dissatisfaction had thus been shown to exist throughout the de-partment-Mr. E. Stanuope said: 1 have receired a communication from the British Medical Association [urporting to give the anonymous opinions of several hundred medical otticers. Theso - opinions must lave been obtained and expressed in a manner altogether in contravention of military discipline. Medical oflicers, like other officers, have a proper channel through which they can be beard, and I am not prepared to accept any civilian association as their mouthpiece. Un the general question of rank I can ouly: repeat what I suid several times last year, namely, that the statns of medicnl officers is just as it was before, and that as regards titular rank they already hold professional titles for which the exchange to combatant titles, without combatant functions, would he a loss of personal influence.-Dr. Farechansos said he would draw attention to this subject on the medical rote.

## UNIVERSITY INTELLIGENCE.

## GLASGOW

THE following changes have taken place in the examinerships in Clasgow Eniversity :-For graduation in lledicine: In Amatomy, Mr. Alexander Hill, M.A., M.D., Cambridge; Medical Jurisprudence, Mr. A. W. Macfarlane, M.D., London; Midwifery, Mr. Samuel Sloan, M.D., Glasgow; Medicine and Clinical Medicine, Mr. G. Lovell Gulland, M.A., B.Sc., M.B., Edinburgh. The first three appointments are for three years and the last for one year.

## UNIVERSITY OF OXFORD.

Mr. Wileinson Overend, B.A.Oxone, of St. Mary's IIospita Medical School, has been elected to the Radeliffe Travelling Fellowship ( $£ 200$ a year for tbree years).

## CAMBRIDGE.

New Anatomical and Phisiological Builnmgs.-The Buiding Sites Syndicate have published a report suggesting the mode in which provision should he made for the various science subjects to be housed in or near the new museums. They recommend that the first work to be umdertaken should be the buildings for human anatomy and physiology. Pathology can be temporarily accommodated in the old chemical laboratory, and nedicine and surgery in the old anntomical buildings. The report seems well weighed, and is likely to be farourably received. The chief need, however, is ready money.

Assistant to the Professon of Sungery.-The Special Board for Medicine recommend that an assistant to the professor of surgery be forth with appointed to help in the teaching and to supervise the surgical collections in the museum. Professor Humphry, himself sine stipendio, bas generously offered to proride a sufficient
stipend for the new officer. Mr. F. V., Dicking, M.B., has been appointed an elcctor to the new professorship of Chinise.
The following degrees were conferred at the Congregation held on Thursday, Warch sth:- Rolert Michal Sinion, M, B, Gonville and Cinus, adinittcd MIJ.: Mathew Ilenry Spencer, B.A., Trinity and St. Thomas's, almitted M.13. and B.U. Arthur Henry WilLiums, B.A., St. John's nul Guy's, admitted al.B. and B, C.

## PUBLIC HEALTH

## POOR-LAW MEDICAL SERVICES.

## GUARDIANS AN゙D MEDICAL OFFICERS

Mr. Edward:Marshall, medical officer of health to the Mitcham District of the Croydon Union, and medical ofthicer to the Holborn Union Industrial Schools at Mitcham, appears to be laving rather harsh measure, dealt out to him ly the Ilolborm Board of Guardians. Mr. Marshall thas heen medical officer to the schools for thirty years, during which he has discharged his duties without a single complaint having been made against him. A month ago he was suddenly informed that the guardians were dissatisfied with his conduct in his official capacity, and he was called upon to resign. The reason alleged was his neglect to visit the schools under his care with sufficient frequency. It appears that some time ago there was an outhreak of scarlet fever among the patients in the union intirmary, and at the time of the alleged neglect of duty, the clisease: had begun to show itself in the scheols. Mr. Marshall udmits that for three weeks he did not visit the schools, but he affirms that during atl that time he was in constant communication with the managers of the schools. As soon as any child was tuken ill it was at once transferred to the union infirmary, or to the infectious hospital of the Metropolitan Asclums Board, and we are assured that there is absolntely no evidence of Mr. Marshall's absence from the schools having been attended with the shightest ill effect. Nevertheless, a resolution was passed, ut a meeting of the board, that, "owing to the pressure of work in his private practice, he (Mr. Marshall) was unable to attend to his duties at the schools," und calling upon him to resign. Mr. Marshall was allowed to appear hefore the board some weeks ago, and to be heard in lis defence. He said that he had not gone to the sehools hecause he kept himself thoronghly informed of everything that occurred, and there was really nothing that required his personal attendance. He whs constantly visiting the infirmary, where there were many eases of scarlet fever, aud he was secing a good teal of the disense in private at the same time. It was, therefore, as a matter of fact, better that he should not go near the schools, to which he might easily have been the means of conveying the infection. He bad carefully examined the sunitary arrangements at the schools, and' lad done all in his power to check the syread of the disease among the children. After hearing Mr. Marshall, the boapd referred the proposal that he shonld be called upon to resign to the General Prrposes Committee, which has now, as we are informed, without making any inquiry into the truth of the allegations against the medical officer on the spot, supported the proposal, and urged the Ciluridians to insist on his resigning. This Mr. Marshall has declinell to do, and we understand that he has appealed to the Local Government Board, legging them to inquire into the whole matter. We hope the Board will accede to this refuest, and will not allow itself to be put off with gencral statements of a more or loss vague charanter, but will endeavour to ascertain the precise grounds of complaint against Atr. Marshall, and the epecific facts on which they are foundelt, if any such are fortheoming. Mr. Marshall's appeal for an impartial inquiry by the proper anthorities, is desering of pullic as well as professional support, as it is of importance, both to metlical meu holding such responaible public appointments and to the community at large, that Boarda of Guardians should be made once for all to understand that they will not be suffered to ride roughshod over medical officera who have faithtully discharged the duties of a thankless office for many years without reproach.

OFFENSIVE PLIBLIC UHRNALS.
C. O. (Newcastle-under-Lyue), -in fmitiviual who cau prove that the proyosed erection will be a nuisince may obtain an injumction to restrain the Town Cuunoil from purting it on the site selectal. The courses to be pursued ind such a case is essentinlly a matter for a lau yer. It would he impossible to guch a case is rasentinly a mout krowing all the facts lu detall.

KEELJNG'S SEWER GAS FNHAUSTER AND DESTRUCTOR,
Wh: are informed bystha proprietox thatiduring several months past Richmond, Eahing, Épsom, Leicester, Hast Dereham, and other towns : liave hpplied KeelJng's Sēv'er Gàs Exhausters anl Destructors to extract and cremate tho gases arising from organic decompasition. It, is urged that the discharge of sewer emanations through ground level gratings. is n criade, and indefensible system, Dothing, it is said, conduces, to, the prosjerity of a town or locality so much as a ligh repute for pura 11F.
it is stated that Keelinge apparatus, has been tested ly certain experts chemically as to its destructive jower, and mechnmically as to its pconomy. It consists mainly of an iron coluran with a powerful furnace, which produces an intense beat by the combustion of a small quantity of coal gas, and causes n stroncr current of air to pass coustantly througl it in all states of weather. The peculiarity of the furnace consists in a series of ribbed metal cones, which divides the sewer air into minute streams, and subjects it to contact with hot surfaces throngh a sufficient length to destroy the excess of organic.matter which impregnates it.


The Ealing Loral Board request, Dr. Kussell, of the Chemira Laboratory, St. Bartholomerv's Hospital, to test the action of the apparatus on the Eating sewers, and to analyse the sewer air before it enters the column. nud also after it passes through it. Dr. Russell: report was laid before the board on March 1st, and it contains the folloring description and results of his tests:
"In my first experiment, I introduced into the current of air 0.3 cubic centimetre of etber; this ether was completely oxidised no smell of ether conld lee reognised at the top of the stove, only a slight'smell of some of the products of the oxidation of the ether. The next experiment hwas with sulphuretted hydrogen, is gas which in extremely small quanitities can be reoomised by its smell, had a gas whicli often occurs in sewers. 1 generated the gas in a flask, and convered it brycans of a tube to one of the openings at' the base of the stove, so that the air passing thron?! the store was largely charged mith this gas. Athough emell is so very delicate a fest for this gas, and althongh this gas wa
passed into the base of the stove for half an hour in a tolerably rapid current, not the slightest indication of any undecomposed gas was recognisable at the top of the store or clsewhere. The smell of the product of oxidation, sulphurons acid, was very perceptible. The above experiments were very satisfactory."

On February tlith the following experiments were made at Faling Dean. "To test fully the change brought about by passing the air from the sewer throngh the destructor, two kinds of experiments were made, and in each case the air delivered from the top of the destructor was compared with the air extracted at the same time from the sewer itself. lermanganate of potash is known to oxidise most organic impurities in air, and is the best indicator we have of the amount of such impurities in any sample of air. Two experiments with the air from the top of the rentilator showed, as a mean result, that it required seven volumes of axygen to oxidise the organic matter in a million volumes of air, or as it is usually expressed, this air contaned seven rolumes of organic matter in a million volumes. A sample of air collected in a tield near contained six rolumes of organic matter in the million." A bottle was lowered into the sewer, and by means of an aspirntor filled with the air to be tested, it was found to contain twenty-one volumes of organic matter, that is three times as much; thus the heat in the destructor is sufficient to cause "eflicient oxidation of the organic matter in the sewer air, any sulphuretted hydrogen present would, as shown by the first experiments, be converted into sulphurous acid, which would act on the permanganate in the same way as the organic matter does."
"The second class of experinents was to determine whether the micro-organisms or germs known to be abundant in sewer air are destroyed by the heating process caried on in this destructor. To determine this, I drew air from the top of the ventilator by means of an aspirator, for thirteen minutes, through sterilised glass wool; this wool was afterwards carefully introduced into a flask containing a cultivating medium. An exactly similar experiment was made with air from the sewer, after four days, the Hasks, which had been kept at a temperature most favourable for stimulating growth, were examined; in the air which had the wool through which the sewer air had been drawn there were at least 7,000 distinct colonies or growths; two experiments with air from the top of the ventilator were made, one gave only six colonies and the other fourteen, a striking illustration of how efliciently organisms are destroyed by the method of heating used in this form of destructor. As a definite proof of the high temperature which the cones inside the destructor attain, I placed a piece of sheet lead in the inverted cone immediately above the burner ; this lead became melted. The melting point of lead is known to be $617^{\circ} \mathrm{F}$.

The following data are stated to be approximately correct. A No. 6 Bray's gas lurner, regulated to consume fi cubic feet of conl gas per hour, will give suflicient heat to exhaust and destroy 3,000 cubic feet of sewer gas per hour, or 72,000 cubic feet in 24 hours. A dozen destructors will be sufficient for a town of 20,000 inhabitants, costing for gas, on an average, fop per amum, per destructor-less than $\pm 100$ per annum for the twelve destructors. One destructor will keep a thousand yards of 12 -inch sewers clean, say in three directions. The column may also be used as a lamp column.

If sewer rentilation by a furmace is considered a desirable method of meeting the difficulty it would seem that keeling's destructor is an efficient fueans of creating a definite extraction of foul sewer air in stugnant conditions of weather, and regardless of external temperature.

## WITER SUPL'LY OF LARGE TOWYS

Ture following notificution has been issued in l'rench by His Hajesty the ling of the Belgians:
By a decree dated December 14th, IST, His Majesty the King of the Belgians instituted an anmal prize of 25,000 franes for' the meoragement of intellectual labour. The prize forming the object of international competition in 18.93 will be awarded to the best work on the means of procuring abundant and chenp drinking water of the hest quality for large towns, and in particular for Brussels and its suburbs, reight being had to the anticipated growth of population, siur la manieve de procurer abondamment et au moindre prix aux jrandes villes, et spécialement à lagglomération Bruscelloise, la meilleure qualité deau potable, en tenant compte de l'augmentation prevue du nombre des habitants.) Both manuscript and printed essays will he admitted to the com-
petition. A new edition of, a printed work cannot take part in the competition unless it contains considerable changes and additions which hare appeared, like the othor competing essays, within the period of the competition-namely, in one of the yeurs $18 s^{9}$ to 1892 inchasive. The essays may be written in any one of the following languages: lirench, F'lemish, Finglish, German, Italian, and Spanish. Those who desire to take part in the competition must senl their essayz, written or printed, before Jamuary 1st, 1593 , to the 1 inister of Agriculture, Industry, and l'ublic Works, Brussels. The essay which obtains the prize must be printed in the course of the year following that in which the prize is awarded. The award of the competition will be conducted by a jury named by llis Majesty the hing of the Belgians, and consisting of seren members, three Belgian and the remainder for-igners of different nationalities.

Health of Exglish Towns. - In the twenty-eight large Fnglish towns, including London, which have an estimated population of $9,398,273$ persons, $-5,838$ births and 4,193 deaths were registered during the week ending Saturday, March 10th. The annual rate of mortality per 1,060 persons living in these towns, which had been 21.6 and 21.5 in the two preceding treeks, further rose to 23.3 . The rates in the several towns ranged from 15.0 in Halifax and 15.2 in Derby to 28.2 in Plymouth, 29.5 in Norwich, 30.7 in Blackburn, and 31.3 in Manchester. In the twenty-seven' provincial towns the death-rate was 23.5 per 1,000 , and slightly exceeded the rate recorded in London, which was -3.0 per 1,000 . The 4,193 deaths registered during the week under notice in the twenty-eight towns included 165 which were referred to whooping-congh, 59 to scarlet fever, 49 to measles, 45 to diphtheria, 4.3 to diarrhoea, 42 to "fever" (principally enteric), and 39 to small-pox ; in all, 442 deaths resulted from these principal zymotic diseases, agninst 429 and 366 in the two preceding weeks. These $4 \pm 2$ deaths were equal to an ammual rate of 2.5 per 1,000 ; in Loudon the zymotic death-rate was 2.6 , while it areraged 2.3 in the twenty-seven provincial towns, and ranged from 0.0 in Preston and in Nefreastle-npon-Tyne, and 0.4 in Brighton and Sunderland, to 4.2 in Oldham, 6.2 in Sheffield, and $6 . \%$ in Plymouth. Measles caused the highest proportional fatality in Bradford and Plymouth; scarlet'feser in Oldham and Blackburn; whooping-cough in London, Salford, Leicester, Wolverhampton, and Norwich; and "fever" in Leicester, Norwich, and Derby". Of the 45 deaths from diphtheria recorded last week in the twentyeight torns 24 occurred in Loudon, 3 in Birmingham, and 3 in Hanchester. The 39 fatal cases of small-pox included 29 in Slieffield, 3 in Oldham, 2 in Manchester, $\because$ in Blackburn, and 2 in London. The number of small-pox patients in the Metropolitan Asyhums IIospitals on Saturday, March 10 th, was 14 , of whom: had been admitted during the week. These hospitals also contained 1,201 scarlet fever patients on the same date, and showed a further decline from the the number in recent weeks: 100 cases were admitted dnring the wrek, against 03 and $8 \frac{1}{4}$ in the two preceding weeks. The death-rate frous diseases of the respiratory organs in London was equal to b.ll per I,000, and was slightly below the average.
Irealtif of Scotcir Towas.- buring the week ending Saturday, March loth, 836 births and 611 deaths were registered in the eight primeipal Scotch towns. The ammal rate of mortality in these towns, which had been -2.6 and 23.4 per $1,0(4)$ in the two preceding weeks, further rose to 24.2 during the werk under notice, and exceeded by 0.9 per 1.000 the mean rate during the same period in the twenty-eight large English towns. linong these Scotch towns, the lowest rates were recorded in Grefnock and Leith, and the highest in Glasgow and Paisley, The 611 deaths in these towns during the week under notice included 76 which were referred to the principal zymotic diseases, equal to an anmal rate of 3.0 per 1,000 , whicl exceeded by 0.5 the mean zrmotic death-rate during the week moder notice in the large Kinglish towns. The highest zymotic rates were recorderl in beith and Paisley The highest proportional fatality of measles occurred in Edinburgh and Leith; from diphtheria in Leith and Paisley: from whooping-congh in Glasgow, Aberdeen, and l'aisley; and from "fever" in Glasgow. The mortality from diseases of the respiratory organs in Ellese Scotch towns during the week was equal to 6.7 per 1,000 , against 6.0 in London.

Healeti of Irisif Towas.- In the sixteen principal town districts of lreland! the deaths registered during the week end-
ing Saturday, March 10th, were equal to an annual rate of 32.3 per 1,000 . The lowest rates were recorded in Kilkenny nind Newry, and the highest in Limerick and falway. notice were equal to a rate of 33.1 per 1,000 (against 28.4 and 34.0 in the two preceding weeks), the rate for the same period being only 23.0 in London and 18.8 in Edinburgh. The 224 deaths included 25 which resulted from the principal zymotic disenses (equal to an annual rate of 3.7 per 1,000 ), of which 7 resulted from whooping-cough, 5 from scarlet fever, 4 from measles, 4 from diarrhoa, 3 from fever, and 2 from diphtheria.

THE POST OF IURLIC VACCINATOR AT WALSALL.
UR T. W. Willmork (Walsall) writes: In reference the paragraph in the Jorrsal for March 3rd toumbing the appointment of publie vaccinator tor Malsall, may I be allowed to add that the guardia

REPORTS OF MEDICAL OFFICERS OF ILEALTHI
Wasdsworty (1'opulation, 255,742).-A Curious Case of Hydrophobia. - The many excellent summaries which make up this report deserve a more leugtly notice than our limited space will allow. Each contains matter of more than local interest, and every effort seems to have been made to ensure their giving a complete and accurate representation of the health of the district. The tables of statistics which concern the whole district are admirably compiled, and display some very important facts. The death-rates of the several sublistricts, inclusive and exdusive of ontlying institutions, are given, as well as the amonnt and density of population and the proportional number of the industrial classes which each subdistrict possesses. The deaths occurring during 1886 are classified according to sex, age, and social position, the relative numbers occurring in each subdistrict being also given. The feneral death-rate for 1806 wns 17.06 , varying from 11.2 in the butney district to 20.0 per 1.000 in West Battersea. This was a lnwer rate than in any preceding year, with the exception of 1885. It is worthy of note that small-pox was almost entirely absent from the district throughont the year. Whooping-congh, measles. and diarrhcea were the prevailing epidemics, and were attender with more than usual fatality. As a natural consequence, the death-rate of infants was correspondingly high. Considerable interest was excited hy a case of hydrophobia. It occurred in the for three or four days, and died with all the symptoms of was ill for three or four dabs, and athed with all the symptoms of hydrofirmed. The source of infection was wry obscure. She had a small dog which she was in the labit of kissing and fondling in various ways. She lad an abrasion on the imer side of the lip, and it was considered possible the poison may have been thus contmunicated. The old doy, which died soon afterwards, was in a wretched state of health at the time-thick viscid saliva constantly dribbled from its mouth. The difficulty was, however, that it did not possess any of the characteristic symptoms of rahies: and the question arose whether hydrophohia conll be communicated to man by the saliva of a dog, in a bad condition, but

Batify (Population, 20,500). - Infections Hosptal Meedel.During the year 1886 the number of deaths from all canses was 579. being at the rate of 19.6 per 1,000 . Dr. Swann's report shows that zymotic diseases prevailed during the whole year with changeable intensity, the death-rate varying from 0.4 per , (100 in May to \&. 5 in September, the rate for the whole it is quite impossible to stamp out or even limit the sprend of infectious disease, and that he cannot look forward to being ahle in cope with any outhreake until some means of securing the isolation of those who are attacked is provided. It is to be hoped, however, that, under Dr. Swann's strong advice, this state of things will not long continme; and as the inlabitants before long considerable improvement will have taken place.

Bacep (Population, 25,500).-Mraspitale in Treadiness but not Resorted to: Infectiousness of Whonping-cough not Recoynised by Parents.-Dacup does not smem of Hingland during the year 1886 . Dr. John Brown reports a considerable increase in the number of denths, the death-rate being 19.52 per 1.000 , as compared with 17.9, in 1885. Owing to the epidemic of scarlet ferer, which
carricd off 28 victims, the zymotic death-rate was also largely increased. Three-fourths of the deaths were of children nnder 5. The Hospital at Southall was in constant readiness to receive patients, but in only two cases were its advantages availed of. The success with which these cases were isolated makes the fact, that for the past ten years no cases of infectious disease except small-pox have been sent to the hospital, the more to be regretted. Whooping-cough, which existed more or less through the year, proved fatal to 15 children. More than one half of the fatal cases were complicated with pneumonia, bronchitis, etc. Dr. Brown remarks on the need of care in preventing the spread of the disease, and the ignorance of parents as to its infectious character.

Bootle-cum-Linacre (lopulation, 44,000).-Migh Mortality from Diarthea: Occurrence of Cases of Typhus.-The death-rate for 1886 ( $21.0 \pm$ per 1,000), though somewhat in excess of that for the preceding year, is, in Mr. Sprakeling's opinion, not to be looked upon as excessive when the general character and habits of the population are considered. The depression in trade and the consequent incrense of porerty are shown to have hat a prejudicial effect as regards the pauper sickness, and it is only reasomable to suppose they had a corresponding effect on the general mortality: the increased number of cases of diseases of the lungs was sery marked, and also of those diseases brought on by insuthicient and the year. Scarlatina was much small-pox were reported during 1885 , and there was a was much more prevalent and fatal than in rhea. As many as eighty-four deaths from deas the from diarwere registered, eightr-igy-four deaths from this latter disease vears, and many of infants under one wear of children under five fever came under treatment, and caused much amien of $\mathrm{typh}^{\mathrm{y}}$. the difficulty of isolation. The disease, however, did not sing to and no death occurred. The zymotic death-rate umounted to 381 per.1,000.
Holbors (Population, 35,850).-High Death-rate: 7Tospital Infuence-Dr. Septimus Gibbon bases his calculations for the Year 1886 upon the population at the time of the last censens, and hence the or deaths which necurred in the district prodiced a death-rate of 24.4 per 1,000 . This is much to high, but as Dr.
fibloun has no relinhle means of ganging the etent of the tribun has no relnble means of gallging the extent of the immi-
gration int the district, he underestimate, the death-rate. The orerestimate, the whole n healthy one although not quite as favourable as 188 . There was a considerable increase in the number of deaths, the mortality from measles, scarlet fever, diphtheria, whooping-cough, and low. fever, having risen from 6 , to 118 . And if correction he made by including deaths of residents in hospitals outside, and excluding those of non-residents within the district, there were 121 deathis from these six zymotic diseases. The thrce cases of small-pox recorded during the year occurred in common lodging honses, presumably in travellers or tramps, who contracted the disease outside the district. The diminished prevalence and mortality of measles may be in a measure explained by the diminished proportion of children in the population, owing to the continuously low birthrate. It is satisfactory to note the liecrense in the cases of delirium tremens and syphilis. The increase in scarlet fever and diphtheria was excepitional, but fortunately not very great. Dr. Gibhon thinks it is due to the existence of the hospital for children in the district. Certainly nearly all the denthe from diphtheria occurred in that institution. Eyery possible precaution is taken by the authorities of that hospital to prevent the spread
of infections das of the little discases, but the risks arising from the converance cognisable, are una voilable.
Over 36 per cent. of the deaths in New Ionk State in 1887 were of chiddren under five years of age. The death-rate at all ages was 23 per mille.

The annual report of the Fast London Nursing Society, for nursing the sick poor in their own homes, states that the work was carried on in twenty-three parishes in the East End, and the nurses paid no fewer than 63,000 visits last vear. The serions cases were 1,932 in number. The increasing interest taken by the general public in nursing had enabled the society to add to the cost of each nurse was about $£ 5 \mathrm{l}$ a year.

## .... OBITUARY.

ALEXLNDER PEERS AD.AMS, L.R.C.P.LOND., M.R.C.S.EXG., We regret to annourge the untimely death of Surgeon' A. l'eers Adams, of the Indian Medical Service. He was born on September Gth, 185\%. He received his medical education at St. Bartholomew's IIospital, and obtained the diplomas of Member of the Royal College of Surgeons and Licentiate of the Royal College of Physicians in 1859, and passed into Netley at the February examination in 1880, when fifty candidates competed for twentythree Tacant commissions in the Indian Medical Service. IIe passed ont of Yetley at the examination held in August, 1880 , and proceeded to the Madras Presidency. He subsequently served in Burmah, where his health suffered severely.

At the meeting of the South Indian Branch of the British Medical Association, held in. Madras on October 7th, 1887, SurgeonMajor Drake-Brockman, E.R.C.S., Vice-President, paid the following tribute to his raemory:-

No panegyric is needed in referring to his life or work, for 1 am sure that all who had the privilege of his acquaintance must have had reason to admire the rarious qualities with which he was gifted. All who were thrown in his way must have been iupressed wiol the conscientious and efficient manner in which he invariably discharged the various duties which, from time to time, were allotted to him; and it mattered not, whether in the performance of active field operations, or in the engagements which pertain to the lot of a civil medical officer, he was almays found ready, willing, and painstaking.
"In the recent Burman campaign his powers had been put to the test, and he did not fail; for we are aware how his conduct and the excellence of his work called for a special representation to the Government. In the different civil chargesito which lie was at various times nominated, we have also proof of his unswerving attention to the discharge of his duties, and his care and gentleness to the sick who sought his assistance in their distress. His conduct was characterised by a modesty and love of retirement from..public observation, which perhaps militated somewhat against his adrancement ; but that innate characteristic of considering himself of less repute in culture and professional attainments than others with whom he was brought into contact merely confirmed the opinion of those who knew him more intimately, that behind that modest and unassuming demeanour there was concealed a not inconsiderable knowledge of his profession. As we know, he was called upon to fill a number of responsible offices in this city immediately after a prolouged sojourn in the insaluhrious climate of Burmah : and had he enjoyed better health, it seems highly probable that he would have finally occupied a prominent position in our midst, and would hare given us, as an Association, valuable material for discussion at our monthly gatherings; but it has been ordered otherwise, and Te must bow to that dispensation.
"As a friend, in social life, he was ever courteous, refined, and gentlemanly in his bearing and conversation, and although perhaps slow to make new friends, nevertheless, when once a friendship was formed, it was a firm and stable one.".

## JOHI CROFTON LAWRENSON, Surgeon-Major, Madras Army.

We regret to record the death of Surgeon-Major John Crofton Lawrenson, 21st Regiment M.N..l, wheh occurred at Me-cu, Upper Burmah, on October 4th from enteric fever.
The deceased officer entered the Indian Iledical Servico on March 30th, 187\%, and arrised in India on November lst of the same year. Ife served in varions military appointments till the outhreak of the Madras famine in 1876, when his services were, with a number of other medieal otficers, placed at the disposal of the Sunitary Comnissioner for duty during that time. During the trying hot montlhs of May, June, July, and August he was in charge of the relief eamps in the kurnool district, for which serrices he was thanked by the Sunitary Commissioner. In October, 187\%, he was appointel to the medical charge of the 21 st Regiment M.N.I., and remained with it till the date of his death. In November, 1885, on the outbreak of hostilities in Burmalh, he acsompanied his regimenton service.
Surgeon-Mtajor Latrenson' was a member of the South Indian 3 ranch of the British Medical Association.

## MEDICAL NEWS,

## MEDICAI VACANCIES.

## The following Vacancies are annnunced:

BOROUGH ASYLUN, Birmingham.-Clinical Assistant. Bnard and restderice. Applications to E. B. Whitcombe, Bsq., Medical Superintendent.
british seaman's hospital. Cronstadt, St. Petershurg.-Resident Medical Oficer. Salary. $£ 180$ per annum, with furuished apartment3, ete. Applications to H. M. Consul, St. Petersburg-
CHARING OROSS HOSPITAL.-Assistant Surgeon. Appllcationa by March 27 th to A. E. Meade, Esq., Secretary.
Chaming cross hospital.-Surgical Registrar. Applications by March 2 ith to A. E. Reade, Esq., Secretary.
DENTAL HOSPITAL, Exeter--Surgeon-Administrator of Anesthetics. Applications to the II onorary Serretary before March 19th,
EAST LONDON IIOSPITAL FOR CHILDREN, Shadwell, E. - Resident Clinical Assistant. Board and lodging. Applleations by March 22nd to the Secretary.
EDENDERRI UNION.-Nedica! Offcer, Carberry Dispensary. Salary, f135 per ammm and fees. Applications to Rev. H. Johnston, Honorary Secrefars, the Vicarage. Election on March 194 h .
General infirmary, Northampton-llouse-Surgeon. Salary, £125 per annum, with board, etc. Applications by March 27th to the Secretary, S. P. Bennett. Esq.

GLEXMCTCK PAROCHIAL BOARD, Parishes of Glenmuick, Tullick aud Glengairn.-Medical Officer. Salary, \&45 per annum. Applications hy March 20th to the Inspector of the Poor. Ballater.
HOSPITAL FOR CONSUMPTION AND DISCASES OF THE CHEST. Brompton. Resideut Clinical Assistants. Applications by.April th, to the Secretary.
LIVERPOOL DISPENSAIRIES.-Tफ० Assistant-Surgeong. Salary, feo per annum, with board, lodging, etc, Applications lv March 24th, to R. R. Greene. Esq., Seeretary, Leith Office, Moorfields, Liserpool.
MALE LOCK HOSPITAL, Dean Street, Soho.-Ilouse-Surgeon. Salary, £so ner annum, with board and lodging. Applications-by March $19 t h$, to the Secretary, Lock Hospital, Harrow Road, W.
OWENS COLLEGE, Manchester,-Professor of Ohstetrics, Applications by March 20th to the Registrar.
ROSS-SHIRE, Parish of Resolis and District. - Resident Medical Officer. Salary, f62 per annum. Applications by March $17 t 1$ to R. J. Eillanders, Esq., Fortrose.
ROYAL LONDON OPHTHALMIC HOSPITAL, Moorfielde, F.C.-Junior House-Surgeon: Salary, f50 per annum. Applicatioas by March 24 th to the Secretart.
ST. HELEN'S FRIENDLI SOCIETIES' MEDICAL AID ASSOCIATION.Resident Medicat Officer. Applications by Marcli 20th to Mr. H. Whittle, Secretary, ss, Argyle Street, St. Helen"s, Lancashire.
ST. PETER'S HOSPITAL FOR STONE, ETC., Ifenrietta Street, W.C.-. Anesthetist. Salary, $£ 50$ per annum. Applications by March 2 th to the Secretary.
WEST DERBY UNION Workhouse, Walton-on-IIill:-Resident Assistaut Medical Ofricer. Salary, £100, board and lodging. Applications hy Mareld 2lst to M. P. Cleaver, Esq., Union Clerk, Brougham Tersace, West Derly Road, Lirermonl.
WEST LONDON HOSPITAE, Hammersmith Road.-Clinical Assistants. Applications to Secretary.
WESTMINSTEE HOSPITAL,-Medical Registrar, Salary, \&40 per annuma Applicatious by March 2bth to S. M. Quennell, Secretary.

## MEDIOAL APPOLNTMENTS.

BERR1, James. B.S.Lond.. F.R.C.S., appointed Surgeon to the Alexandra Hospital for Clildren with Hip Disease, vice Howard Marsh, F.R.O.S., resiguter.
CAMFrox. J., M.B., C.M.Olasgow. appointed Surgeon to the Bristol Dispensary vice A. G. Gibus, I..K.C.I', etc.
Gornox, James. B.A., M.R.C.S., M.R.C.P., appolnted House-Surgeon to the Romal Snrrey County Hospitas, Guildiond, vice H. W. McConnell, M.B., re sigued.
Gorkas, John, B.A., L.R.C.S., \{ppointed Medical Officer to the Workhonse and Dispensary District of the Uurhterard Union, rice W. W. Brereton, L.K.Q.C.I.I. and L.M., L.R.C.S.I. and L.M.. resigmed.

Jacksox, W. F. Marsh, M.l.C.S. Wng.: L.R.C.J.Edtn., appointed Medleal Officer of Itealth for Smethwiek, Stafforishire. vice Mr. William Suttou, deceased.
McJowall, John Gr., M, D.Dain.. appointel Medral Superintondent to the West Riling Panper Linatic Asylum, Menston, nuar Leeds.
MACFARuASF, A. W., M.D., F.R.C.P. Fdin., appointed Examlner In Medical Jurisprudeuce in the University of Glasgow.
Mitchith. G., M.D., appointed Medical Officer of Templemore Dispensary District.
Mitchel. Kohert, M.D., M.Ch., appointed Ionorary Surgeon to the Bury Intirmary, vace A. B. Telfoni, M.D., L.IR.O.S. W., nesigned.
Monrifan, G. A., M.K.Q.C.P.I., appointed Medical Officer of Mate Dis1еnsary:

Lord Rispolpm Cirfocmul will take the chair at the annual festival dinner of St. Mary's Hospital, which is fixed to take place on May 12th.

Bequests.-Mr. John Manship Norman, D.L., , I.P', of Dencombe, Slangham, hequeathed $£ 1,000$ to the Charing Cross llospital, and al(x) to the Sussex County Hospital, Brighton.-Mr. William Henry Skynner, of Cavendish Place, St. Mary Iebone, and James Street, Buckingham Gate, bequeathed froo to the Middlesex llospital, and f5rni to the Westminster Ilospital.-Mrs. Mary Ilotehkiss. of Jarringt on Street, Dublin, hequeathed $£ 100$ each to the Alelaide Jospital, the Mercer's llospital, the Coombe Lying-in Ilospital, the Ilospital for Incurables, St. Mark's Ophthalmic llospital, and the Convalescent Hospital, all at or near Dublin.Mr. John William Taylor, J.l., of Almondbury, bequeathed £200 to the Huddersfield Infirmary. - Mr. Iohn Northage Bradley, of Westhorpe, bequeathed $£ 100$ to the Newark Hospital.-The Inatingdon County Mosjital has received £100 under the will of Mr. John Seaton.

Antipfrin as an Anodine.-The Revista de Ciencias Medicas of Fehruary 20th publishes two cases treated by Dr. La Guardia in the Mercedes Ilospital at Harana, in which the power of antibyrin to relieve pain was very marked. A man, aged 64, had been siffering for six weeks from ncuralgia of the eighth intercostal nerve of the left side, following herpes zoster of the corresponding region. Iodide of potassium was tried for some days without result; three grains of antipyrin were then given, and next day the pain entirely ceased. In the other case a man, aged $\geq 2$, suffering from syphilitic nades on both tibie, the pain of which kept him awake at night, was ordered three grains of antipyrin every day. On the second day of this treatment he was perfectly free from pain. Some weeks later the notes began to trouble him again, and the pain was at once subdued in the same way.

Lavolin in the Sifin Diseases of Chilidhood.-Ointments in which pure lanolin, or lanolin with 10 or 15 per cent. of water, was the basis, are strongly recommended by Dr. Russell Sturgis (Boston Medical and Surgical Journal) in the treatment of eezema and urticaria in children. In acute eczema be first directs the affected surface to be cleaned in the usual way, and if weeping copiously, to be then dusted with finely powdered boracic acid; ns soon as the inflammation has sufficiently subsided, an ointment of horacic acitl $\overline{3} \mathrm{ij}$ to lanolin $\mathcal{J j}$ is prescribed. In cczema faciei, with induration, he finds a copious application of pure lanolin tharanghly rubbed in very usefnl: where the induration is rery considerable, the addition of salicylic acid (gr. 5-15 to $\mathrm{z}_{\mathrm{j}}$ ) is recommended. Simple lanolin acted most favourably in chronic urticaria.

Sad Death of a Medical Stunent.-A funeral ceremony took place on Saturday, March 11th, at the newly-constructed chapel of the Westminster Ilospital, on the occasion of the death of Mr. F. M. Mibbens, a student, who succumbed to syncope on the fourth day of an attack of scarlet fever. The deceased student had been working very hard, and was out of health, but it is uncertain whether he contracterl the disense at the hospital from a case in one of the special wards or in the country. All his fellow stulents and many meubers of the hospital staff were present, the decensed having been an exemplary stulent, and very popular with bis fellows.

Milkin Suitzenlant.- Aconding to a recent statement the valuc of the annual production of milk in Switzerland is no less than $57,300,000$; in other weris, ofer $410,000,000$ gallons are given nanually hy (6 2,336 cows and 27,277 goats (the total number of goats being 415,916 ). Of this quantity 39.6 per cent. is made into cheese and condensed milk, 42.6 supplied in its normal condition fur consumption, and 17.8 nsed in the farmyard for reuring and fattening purposes. There are 2,300 cheese farms in the flyme regions, and 2,600 in the valleys. The fertile canton of lierne vields the largest supply of milk, after which come the Cantons of St. Gall, Zurich, and lucerne.

Italian Soctety of Hudrorogy and Chimatology. - The Societiblaliama d'Idrologia e Climatologia, which was founced last September at P'avia when tho Congress of the Italian Medical Association was in session, will hold its first meeting at Bologna next October. Its objects are said to be to make medical men in ltaly acquainted with the mineral waters of their own country, and to encourage the scientific study of balneology. An exhihition of objects connected with hydrology and climatology will also be held.
Lord Derment has been re-elected President, and Sir Charles Legard, Bart., and Sir George Cayler, Bart., Vice-Presidents, of the Royal Sea Bathing Infirmary, Scarborough.

The Arts Examination of the Society of Apothecaries. -The examination in Arts qualifying for registration as a medical student was held in the Hall of the Apothecaries' Saciety on March 2nd and 3 rd. There were 153 candidates; thirty have been placed in the second clase, and eighty-seren have passed in some subjects, but have failed in others. The next examination will be held on June 1st and 2nd.

Registration of Plumbens. - Certificates granted hy the Plumbers' Company were issued at Guidhall, on Wednesday last, to thirty-seven master and operative phombers from Stalybridge, Oxford, Hereford, Sheffield, Leamington, and various districts of London.

At a special meeting of the Forkhill Dispensary Committee, Dr. J. McDowel was elected, by a majority of one, medical officer, in the vacancy caused by the resignation of Dr. McBride.

Mr. G. W. Ilastings, Q.C., has been appointed Chairman of the Select Committee on Police and Sanitary Regulation Bills. The Committee will not proceed with business till after Easter.

## MEETINGS OF SOCIETIES DURING THE NEXT WEEK.

## monday.

Rofal Collegf, of Suraeons of Englant, 4 p.m. - Professor Charic Stewart: On Locomotion and Allied Phenomena (Lecture IV). Medical Society of London, 8.30 p.M.-Mr. Willam Adams: Oo the Successful Treatmeat of Hammer Toe by the Subcutanpon Division of the Lateral Ligaments. Dr. Borel: On Goitre anc its Treatmeat by Extirpation. Illustrated by 22 cases.

## TTEADAY.

royal College of Phistctans of London, 5 f.m.-Dr. W. H. Dickinson The Lumleian Lectures; The Tongue as an Indication 0 Diserse. Lecture II.
Patholofical Socifty, 8.30 F.M.-Dr. Goorthart: Osteltis Deformans Dr. Wilks: Transverse Furrows on the Nails. Mr. Sutton An Exostosis, Mr. Eve: On the Inoculablity of La pus. Mr. D'Arcy Power: Sarcoma of the Urinary Bladder Mr. E. IL. Feowick: Sarcoma of the Urinary Bladder. Mr Colman: Intestincs io Diphtheria. Dr. W. Collier: Tubel cular Disense of Suprareaal Capsules. Card Specimens:-Mr Feuwick : Tumour of Urinary Bladder. Mr. Targett (for Dr Fry): 1. Cystadenoma of Thyroid. 2, Popliteal Aneuryam
Dr, F. T. Pearse : Advanced Surglcal Kidneyz. Dr. M. Murray Cystic Disease of Kidners.

## WEDNEADAY.

Roxal College of Sungeons of Exglarn. 4 F.N. - Profestor Charke Stewart: On Locomotion and Allied Pheaomena (Lecture V).
Ilospitat for Consusption, Brompton, 4 p.m. Dr. J. Kiogston Fowler On the Dingnosis of Functional from Organic Diseases of 1] Feart (with Cases).
Pankes Museym of Hygiene, 3 p.M.-Dr. A. T. Schofeld: Oo Domest IIyglene.
Royat. Mfrborological Society, i p.m.-Dr. W. Marcet. F.R.S. : On A monpheric Iblectricil $F$. Mr. G. J. Symons, F.R.S.: The Non-exis thenn, and the exhibitlon of specimens.

## THERSDAT.

Royar Colleae of Physictaxs of Londen, it P.m.Dr. Wf. If. Dickimeo of Pfysicians of Lospon, a P.m.Dr. W. If Dicking
The Lumleian Lectures: The Tongue as an Indication Disense.. Leoture III.
Parkes Muskem of Hyglenf, 5 p.m.-Mr. A. S. Murtay (hecpar of Gree and IRoman Antlquities, Britinh Xu*eum): Un Physieal Trai ing of the Greaks and Romaos.

## FETDAY。

Royar, Collfgr of Suroeons of England, 4 F.N. - Proteasor Charl. Stewart: On Locomotionand Allied Plenomacoa (Lecture Vil)
Cascer Ifospltal, Brompton, 4.30 F.M.-Mr. F. Fowreman Jespett: On I! Treatment of Caucer ami Malignant Disease.
Cibvicat Society of Lonnon, 8.30 p.m.-1. Dr. Ord: Case of Hyperpyrexiad Acute Rlienmalism, treated by icupack, 2. Dr. Arkle: Ts Caswa of Hyperpyrexin, treated by cold. 3. Mr. Pearce Goule Case of Gall Stones: Spontancous Fracture: Operation: R covery. 4. Mr. I'arker: Llving Spectmea: A Case of Aeu IRickets in a child aged 23 years.

## BIRTHS, MARLIAGES, AND DEATHS.

The charoe for inserting announcements of Births, Marriages, and Deaths is En. which should bo forwarded in stamps with the announcement.

BIRTH.
Barses.-On Fehruary ISth. 1898, at The Bungalow, Prospect Camp, Boriauc the wife of Surgeon M. I. Barnes, M.S., of a son.

DPATE
Bisxs.-On Saturday. March 10th. 18s8, at the resldence of hls father. Grange, Leeds, Yorkshira, William Blnas, Surgeon, of The Cedars. Dargholt, near Colchester, agad 43.

OPERATION DAYS AT THE LONDON HOSPITALS.
MONDAY........... 10.30 A.M.: Rnyal Londou Ophthalmic. -1.30 p.M.; Guy's (Ophthalmic Depertment); and Royal Westminster Ophthal-mic.-2 P.M.; Metropolitan Free; St. Mark's; Central London Ophthalmic: Royal Orthoprdic ; and Hospital for Women.$2.30 \mathrm{~B} . \mathrm{M} .:$ Chelsea IIospital for Women. A.M.: S't. Mary's (Ophthalmic Department).-l0.30 A.M.: Royal London Ophthalmic.-1.30 P.M.: Guy's; St. Bartholomew's (Ophthalmic Department) ; St.Mary's; Royal Westminster Ophthalmic.-2 p.M. : Westminster; St. Mark's ; Central London Ophthalmic.-2.30 P,M.; West London; CancerIlospital, Brompton. 4 P.M.: St. Thomas's (Ophthalmic Department).; WEDNESDAY.... 10 A.M. : National Orthopedic. 10.30 4.M. : Royal London Ophthalmic.-1 P.M. : Midilesex.-1.30 P.M. St. Bartholomew's, St. Thomas's: Royal Westminster Ophthalmic.-2 P.M.; London: University College: Wektminster: Great Northern Central; Central London Ophthalmic.-3.30 p.M.: Samaritan Free Hospital for Women and Children; St. Peter's. -3 to 4 P.M. ; King's College.

THURSDAX ....... 10.30 A.M. ; Royal London Ophthalmic.-1 P.M. : St. George's -1.30 P.M. : St. Bartholomew's (Ophthalmic Department) Guy's (Ophthalmic Department): Royal Westminster Ophthal-mic.- 2 p....: Charing Cross : London: Central London Ophthalmic: Mospital for Diseases of the Throat: Hospital for Women.-2.30 P.M. : North-West London; Chelsea Hospital for Women.
9 A.M.: St. Mary's (Ophthalmic Department), 10.30 A.M.: Royal London Ophthalmic.-1.15 P.M.: St. George's (Ophthalmic Department). -1.30 P.M. ; Guy's : Roval Westminster Oph-thalmic.-2 p.m. : King's College; St. Thomas's (Ophthalmic Department); Central London Ophthalnic; Royal South London Ophthalmic: East London Hospital for Children.$2.30 \mathrm{P} . \mathrm{M}_{\text {. }}$ : West London.
SATURDAX........ A.M.: Rayal Free.-10.80 A.m. : Royal London Ophthalmi'sP.M.: Kink's College.-1.30 P.M.: St, Bartholomew a ; St. Cross: London; Middlesex; Royal Free; Central London Ophthalmic.-2.30 p.ल. : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Chakisg Cross.-Medical and Surgical, daily, 1; Obstetric, Tu. F., 1.30; Skin, M. Th. 1.30 : Dental, M. W. F., 9

UY' - Medical and Eurgical, daily, 1.30 ; Obstetric, M. Tu. F., 1.30; Eye, M. Tu. Th. F. 1.30; Ear, Tu. F., 12.30; Skiv, Tu., 1230; Dental, Tu. Th. F., 12. Iisi's Colekge-Melical, daily, 2; Surgical, daily, I.30; Obstetric, Tu. Th. S. :3; o.y., M. W. F.. 12.30; Eye, M. Th., 1 ; Ophthalmic Department, W,, 1 ; Ear, Th., 2 : skin, Th. : Throat, Th., 3 ; Dental, Tu. F., 10.
Loxpon.-Medical, daily, exc. S., 2 ; Surgical, daily, 1.30 and 2 ; Obstetric, M. Th., $1.30 ;$ o.p. W. S., 1.30 ; Eye, W.S., 9 : Ear, S., 9.30 ; Skin, Th., 9 ; Dental, Tu.,9. Mronlesex. - Medical and surgical, daily, 1; Obstetric, Tu. F., 1.30; o.p., W. S., Moncesex.- Wedical and Surgical, daiy, T:, 8.30 ; Ear and Throat. Th., 9 ; Skin, Tu., 4 ; Dental, daily, 9. St. Bartimolnvew's.-Medical and Surgical daily, 1.30 ; Obstetric. Tu. Th. S., 2; o.p., W. S., 9 ; Eye, Tu. Th. S., 2.30; Ear, Tu. F., 2 ; Skin, F., 1.30 ; Larynx, F., 2.30; Orthopratic, M., 2.311 : Dental, Tu. F., 9.

ST. GEOBGF:s. Medical and Surgical, M. T. F. S., 1; Obstetric, Tu. S., 1; o.p., Tu., 2 ; Eye, W. S. 2 ; Far, Tu., 2 ; Skin, W., 2 ; Throat, Th., 2 ; Orthopædic, W., 2; Dental, Tu., s., 9, Th., 1.
Sr. MAnr's.-Medical and Surgical, daily, 1.45 ; Obstetric, Tu. F., 1.45; o.p., M. Th., 1.31) Eve, Tu. F. S.. 9; Ear, M. Th., 3 ; Throat, Tu. F., i.30; Skin. D. Th., a..3n: Electrician, Th. F.i 3 ; Dental. W. S., 9.30 ; Consultations, M., 2.30 ; Operations, Tu. 1.30 ; Ophthalmic Operations, F.. 9.
T. Imomas's.-Medical and Surgical, daily. except Sat., 2; Obstetric, M. Th., 2; п.p., W., 1.3n; Ere, M. Th., 2 ; o.p., daily, except Sat.. 1.30 ; Far, M., 12.30;
skin, W., 12.30 ; L'hroat. Tu. F., 1.30; Chilतren, S. 12.30 Dental, Tu. F 10 , Skin, W., 12.30 ; 'lhroat. Tu. F... 1.30 ; Children, S., 12.30 ; Dental, Tu. F. 10 . Thersty College, M. 1.30 ; Eye. M. Tu. Th. F., 2; Ear, S., 1.30; Skin, W, 1.45, S. 9.15 ; Throat, Th., 2.30 ; Dental, W., 10.30 .
Westmisisfr, - Nodical and Sucgical. daily, 1.30 ; Obstetric, Tu. F., 3; EJe, M. Th., 2.30 : Ear. M., 9 ; Skin, Th., 1 ; Dental, W, S., 8.15.

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS.

Comsuxications respecting editorial matters aliould be ndidessed to the Fdllor, 429, Strand. W.C. London: those concerning business matters, non-delivery of the Jovryal, etc., should be addressed to the Manager, at the Office, 429 , Stmad. W.C., London
Is order to avoid delay. it is particularly requeated that all leiters on the editorial businesa of the Joursil the addressed to the Editorat the office of the Joursal, and not to his private house
Autions desiring repriats of their urticles published in the British Manical Journal. are requested to communicate beforehand with the Manager, 429. Strand, W.C.
Corkesponnexts who wish notice to be taken of their communications, should authenticate them with their names-of courae not necessarily for publication. Corbespondents not miswered are requested to look to the Notices to Correspondents of the following week.
CIRCCRIPTS FORWARDED TO THE OFFIGE OF THIS JOCRYAL CANNOT UNDER ANT CIRCUMSTANCES BE RETURYED.
Puaicio Heaitm Department. - We shall be much obliged to Medical Officers of Health if they will, on forwarding their Annnal and other Reports, farour

## RUEITES.

Trfatmext of Tracheal Colgie.
CASTAR asks for suggestions as to the treatment of trachpal cwugh in a case where cocaine, expectorants, and potass. bromid. have severally falled.

## ANSWERE,

T. T.-Df course a licentiate is as much a member of the profession as a Fellow or Member of any collige.
W. I3RDirx.-"Stip. enml.," stipendio condonato, sl gnifies that the unisersily remitted the fees nn account of the unusual excellence with which the candldate had fultilled thic exercisps for the degree.

## Chrovic Stheiting is the Axillet

Dn. R. L. Battennt mr (Berkliamsted) woild suggest to "M. B." that a little extract of belladonna be kmeared on the axilla for a few nights in succession. This will, in all probability, cure the affection, or greatly relieve it; and, if it should return, a repetition of the treatment wilkeep it in check.
Mr. S. Mansel Sympsor. M.B., writes: In reply to "M.B.s" question (Jotrasi for March luth), I should recommend horoglyceride. Taking the hint from Dr. Whitla, I have used it successfully in rases of foetid sweating of the feet. Pads of lint fastened on to a jerscy might be soaked in a warm solution, dried, and placed in the axillz.

## "Quintay" Agtre.

Dr. J. P. Henre (Dublin) writes: In reply to the quers of "T. E. L. I. "I heg to state that the hlood in my case of "quintan "ague was not examined for the filarix sanguinis hominis, as, learing ont the fact that the patient har nonenf the usual symptoms profluced by it, such as chyluria. 1ymphangitis. etc., present. Dr. Manson, of China, while stating that the febrile 5 ymptom nccasionally caused by the flania resemble the paroxysms of ague in their gemeral character, says that they differ from them in the irreqularity of the interval. aud in its extending nver weeks or months. If the exigencies of space had not compelled me to omit a detailed account of the symptoms. "T. E. L. L." would have seen that they were perfectly typical nf ague; and wen if I had any doubt of the diagnosis, which I had not, the prompt effect produced by quinine would have dispelled it.
since writing the memorandinm of my rase, $I$ find that a case of "quintan" ague has been already recorded by Saint Vel (Gaz. Heb., 1863). He also mentions ot hers presenting sextan, septan, and octan types, and one in which the attacks recurred every thirty days. A similar case in the latter was lescribed by Velascus, of Tarmitn. so esrly as the fourteenth century. Several nf the older writers, such as Dnnetns, Tulpius. Miller, and Sprengel. refer on the sextan tescribing the ordmary sed id raro evenit."

## Trfatmest of Epileper.

1 k . Wm. Prowsf. (Bleston) suggests in " 13 ." the administration of Fowler's arsenical solution in medium doses for a lengthened period. The bromides mar lit persisted in with occasinnal intermission for the henefit of his patient. Arspnic, in most cases, is a complete preventive nf the bromide rash or tendency curable?

## NOTES, IETTEIRS, ETC.

Fagisis ast scotch Dpgrefs.
R. G. (Nanchester) writes: In the Jntrail of March 10th Mr. Pinder Manchester) emmplains about what he calls the unfairness of Scnteh degrees not. heing thrown open to English af ndents. Why, the very same rule applies in the Eniversity of the city in which he reaides. Here am I, an Falinhurglt oturlent, with full curriculam, in a position similar to that occupied that of linder; I am anxious to obtain a degree, bat an debarred from the Victoria Iniversity for the same reason as ir. Mmener in presenter the taking a scoteh degree. lu hoth instances it is impossithe to obtain the
degree withont having previously complied whith the regulations of the particular university.
Mr. l'inder filds favit with the Scoteh degrees hecause they are not thrown opento him. If he wants a degree, whyn net that of the Victoria
 Enghish st udents, then throw open Englisht degrees to Scoteh students?

Case of Pereinthat Snkpzing.
 writes: S. C.. agred 10 years, was seizcd on Friday. Febrnary ${ }^{2}$ ith. with per sistent and continnous aneezlug, a snecze occurring every fourth second There was no evidence of acute mischief nor any existling disease to which the suceaing could be traced as a reflex symptom, the only previons hlstors being violent headaches which han from time to time been complained of Bromide of potash was Ireely glven, but only with the result af procuring a night's rest in every three. The paticnt was put under chloroform and galva nism was tried, bist with no permantant benctit. A blister was put on the nape of the neck, and large doses of the iodlde of potash were given on the seventh day, aud on Monday, Maroh sth, the sneerlng suddenly stopper, having continined uninterruptedly (with the exception of a few lours sleep on three nights) for ten days.

Tinivs : Spontaseots Efoletion
G. F. Sydenmav, M.R.C.S. (Harwich, Essex) writes: On February 14th I was called to Mrs. R., at 5 A.M., a multipara. aged 36 . I found a male child born alive, and the hand of a second protruding at the vulva.
On examination. I found the right shoulder jammed in the pelvis, the head In the right iliac lossa. While examining she had a pajn, which forced the thorar deeper into the pelvis, and, during more pains, the thorax, breech, and The child, a niale, wes dead.

Aarfast of Deyelopmest by Uugavourambe Exthronimpat.
 arg) In the rearing of tobl's tadpoles is of high int rest, and hears on the relation between the axoloni and amblystoma luridum, and on the curlous phenomenon of pseudio paradoza, which heonmes much smailiry when su changes from the tailuole to the pertect state. the. Hroportion of the sexa $i$
 Sfedical Record, March, 1*83, p, 7\%).

## The Palmik Case.

Mr. T. Madpey Srong (King's Imad, Wimbleinn) writes: If the Res, ITr Hanghton hai said brother and wife insteal of mother of Palmer he would have been quite correct. I am afraid I shall come in for some of Mr. J. Wime Solomnn's strictures by stating, whthout any" wish to " paint the devil blacker than lie la," that I have in nay large collertion of medical and gencrabatab Eraphs a lefter from wimam not as many hundreils, as the secrefary supposed and lud accepted. Thi-
 would have been prodiced, as Dr. Maughton states, had he been acquitted of the murder of his friend. Mr. Cuoke.

## a physiological Charade.

Promounced as one letter, and written with three,
Two letters there are, and two only $\ln$ noe:
I an double, am single, am black, blue, and grey.
I an read from both ends, and the same either wa I am restless and wandering, steady and tixed, And von know not one hour what I may be tho next; 1 melt aud 1 kitulle, besetech and defy.
I am watery and moist, I am fiery and dry ; 1 am scornful and scowllng, compassiouate, meek 1 am light, 1 am dark, I am strong, I sm weak. 1 am sluggish and lead, I am lively and bright. I am sharp, I am flat. I am left, I am right;
I an piereing and clear, I am heavy and dull, Faxpresslve and languid, contracted and full: I ann careless and vacant, I search and I pry. And jutge, and decide, and examine, and try ; I'm a plobe, and a nirror, a window, a door,
An index, an organ, and fifty things more. 1 belong to all animals under the sun.
And to those wlich werc long muderstood to lamen nome By some I am sald to exist In the mind,
And am found in potatoes, and needles, null wind.
Three jackets I own, of glass, water, and horn,
And I wore them all three on thet day I was born; 1 am covered quite snug, have a lid and a iriuge, Yet I move every way on invisible hinge. A pupil I hirve, a most whimsical wight
Who is little by dav, and grows big in the night:
Whom I cherish whth care as part of myself,
For in truth I depend on this delicate elf,
Who collects all my food, and with wonderful kuack,
Throws it into a net which I keep at my back; And, though heels over head it arrices, in a trice,
It is sent $4 p$ to table sll proper and nice.
I mm spoken of anmetimes is if I were giass. I 2 m spoken of sometimes is it it is false, and the trick will yot pass. But then it is false, and the trick wile not pass Though I neither have fins nor a bladder. I swim Like many more couples, my partuer and 1 At times will look cross at each other, and shy Yet still, though we differ in what we're about, One will do all the work when the other is out. I am least apt to cry, as they alworss remark, When trimnied with good lashes, or kent in thed dark, Should I fret and bo heated, they put me to ber, Anil leave me to conl upon water and bread Anil leave me to conl upon water and bread. llut if hardened I grow. they make use of t
la st an obstinate humor endanger nuy life.
Or you may, thongh the Ireatment appears to he rongh,
lun a splt through my sitle and with safety enough
Iske boys who are fonil of the fruit and their play: I ani seen with my ball and my apple all day. Mo belt is a rainbow. I reel and I dance ;
I am sald to retire, though I never advance. I am read by physlclans as one of their books. And am used by the ladies to fasten their looks. And language is plain, though it camot he hearch. And T speak without ever pronouncing s word. Some call me a dlamond, some sty I am jot, Others talk of my watur, or how I am set. I'm a borough in Euglani, in sentlant, a stram. And an lale of the sea in the Irishman's dream. The earth without me would wh lovellnces wear, And вun, moon, and stars, at nly wish disappuar: Yat an frall ls my teluure, so brlitle my joy Zhant a speek glses me paln, and a drops ciul destroy.

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# THE LUMLEIAN LECTURES THE TONGUE AS AN INDICATION OF DISEASE. 

Delivered at the Royal College of Physicians, March, 1888. Br W. HOWSHP DICRINSON, M.D., F.l.C.P.,
Honorary Fellow of Calus College, Cambridge; Senior Physioinn to St. George's
IIospltal; Consulting Physician to the Hospital for Sick Chlldren.

## Lectere J .

Tus knowledge which enables many a practical physician to make the tongue an index of diagnosis, treatment, and prognosis is, for the most part, unwritten. It has been handed down to us as part of the tradition of the elders, and few attempts hare been made to analyse or educe laws from the accumulation of experience of which it consists. The labour which has been bestowed upon the pulse is in remarkable contrast with the neglect which, in recent times, bas been the lot of fhe tongue. "Tarious and full of meaning," says a great writer, one whose words must ever be receited with reverence within tliese walls; "are the conditions and appearances presented by the tongue. A patient would think you careless or ignorant of your craft if you did not at each nisit look at bis tongue as mell as feel his pulse." But of late the tendency in this matter has been to agnosticism: it has become the habit with many;' and those not the least influential, to look' upon the changes which this organ displays as of less and less import-ance, to regard them as accidental rather than essential, as the results of unimportant local conditions rather than as inseparably connected with constitutional disturbances. "The tongue." sairl a great surgeon in my hearing, "belongs to the mouth in the first place, and to the general system only in the second." I should hare put the general system tirst ; bit I will not anticipate my conclusions.

I am abont to examine the subject with a fresh appeal to Nature, and, putting aside for the present both ancient faith and modern scepticism, shall be content simply to collect the evidence of the wards and the dead-house, and let the tongue speak for itself. This is simple in theory but in practice complicated, as will become sufficiently apparent, and on this ground I ask not only the indulgence, but the 11 patieace of those who honour ine by attending.

It ix not my purpose to deal with ailments local to the organ, but only with those changes which have their origin outsicle it, or belong to the system at large. I look at the tongue as a physician not as a surgeon, and regard it as symptomatic of disease, rather than as the seat of it. Iy first endeavour has been to muke is trustworthy and usable classiflcation, Many terms have , been hitherto applied vaguely and in coufusion; tongues hare been described as " furred," "coated," or "tdirty" almost indiscriminately, while there has been too often a failure to attach due importance to such signs as dryuess and nakelness. To secure a working classification I prepared hardened microscopic sections of a number of tongues of many kinds (they amounted to l04), and uade with the lelp of the camera hucida the outlines of those which are now before, the Collcge. I was thus enabled to associate the minute and intimate clanges with the appearances presented during life to the naked eye. Taking together both naked eve und microscopic appearances, I arranged the series into what, if I may borrow from the botanists, I may call "natural orders;" using as guides chiefly such characters as appeared on minute examination to be important, autl which, at the same time, wern alistinguishable with the naked eye during life. It is sufficiently evident that no sub-division, excepting one connected with characters evident to common sight, could have aur practical utility. Thus the classification, though made with tho help of the nicroscope, can be applied without it. It might have been more accurate in some respects, more satisfying to the votary of pure scieace, could I have relied only on minute anatomy, for there are some changes. especially one-increase of the deep epi-theliun-which are not easy to be, recoguised without. the use of microscopie sections.
[1421]

I may say mora of this hereafter: putting it aside for the present, I have made a classification which' I think will work in practice, in which the minute and essential particulars are conreniently bound upwith obrious external characters. The amount and distribution of the superficial or horn epithelium is important, since this essentially constitutes the white covering which is so noticeable during lite. Other characteristics are-the eloncation of the papillse; the presence of incrustation, by which the proper surface of the organ is concenled: loss or attenuation of thes cpithelial layers, by which the surface beemes red, bare, or raw ; and the quality of dryness; this last is of great inportance, and it may be added that it is recognised only with the naked eye.

The classification may be thus sketched. First comes the condition of health : rather a rariable standard-an average state, rather than an absolute one. Next come the stages of addition, then those of subtraction. In the stages of addition the epithelium increases more and more, and finally acquires a superstructure largely composed of foreign material. This is the maximum of clothing; it is succeeded by a process of divestme, under which the tongue may become not only naked, but flayed.

In detail the first stage is where the papillo are separately capped with a minute white patch, which consists mainly of horny epithelium; this tongue I call "stippled" or "dorted." As the covering increases, the spots coalesce, cease to be diserete, and become confluent, or at least appear so to the naked eve. To this degree the term "coated" is applied, as indicating continuity. The increased growths on the papille form the larger proportion of the surface : the interrals are more or less filled up by the deeper variety of epithelium and adventitions matters. The coat attains its lighest development in what niay be conveniently designated as the "plastered tongue," of which the corering is thick, uniform. and monspicuous, and often looks as if laid on with a trowel. The term "furred" is restricted to another acquirement-elongation of the papillæ, which remain scparate from each other, at least at their fatremities, so as to gire a shaggy look, or one suggestive of coarse hair or fur. The last stage of inerease one which may succeerl upon the furred tongue. or ensue without its intervention upon the coated or plastered, is where the papiliz are concealed by an incrustation, usually dark and dry. by which the surface is overlaul. From this, as the climax of addition, the scale descends through processes of subtraction. The accumulatiou comes off to expose either a normal surface or one which is imperfect: the former generally when the crust shelres off gradually, the latter when it breaks away abruptly. Irrespective of the formation and removal of crust. there are other modes of waste and defective growth by which the surface of the tongun is swept clean. and its coverings attenuated or even abolished in parts, so that these become absolutely skinless. We now hare the several forms of the red, denuded, and raw tongue, and with these the scale finishes.

## CIrssification of Tonnues. Dicrascopic Description

White epithelium in snall amont on 1. Healthy. Josist. .. papille, not continuous or super.
2. Stipplet. Dosist. Dotted whth i Exeess of white epithèlium on prpllfe, nos white. extenuling between then.
(D). Stipplew. Dry. Ditto
8. Stippled and coated. Coat eon- I Thite epithelinm on papilla in excess, wilh - invous in parts. Woist. ? partial flling of int everls.
: (D).:Stippled and coated. Dry. Ditto.
4. Coated white. Jtmist. Coul / Excess of white epitheliunt on papilis. continuons. Intervis more or less filed up witb epithellum ana accitemtal nintters
contimmons, Dry. Cant Ditto.
contimons.
Strawherry. Coated and in- dected. especially bhowlng in the cated or plastered, but with mone ierted. especially bhowing in ing injection.
inngiform nonllis.
*. White, manterul. Thick minf (Jore clougstion of papille than with coared iormcont. abmptand striking. tongue; wore filling of iutersils, with form coat. abrupt and striking. ( superficlal accumulation.

- Fuhred or shager. Moist. (Extravagantlylong panilix, mosits of horny Grently elongicicl pupille. i epithelium.
(D). Furred on shagey. Dis. Ditto. felted dry cuat over papillas. , largely of parasltic natters.

4. Furned or enarusied, becoming ( Cruet breaking sway together with more bare. Generaliy try.
5. Denuded. Red. Absenve of Geueral absenee of all epithelium excepting Hormal covering. ( also
6. Real. Noist. Dry menura- L Level membrane replacing epithelial prob mous covering.
7. Çauosed.
cesses.
I Ingected: lispermucleated; excess of ciepp

Beforo dealing with these classes individually, I will say worl about the plan I propase to follow, I shall first describe ench varioty of tongue, and then mention the clinical conditions which have heen fomm with is. With this in view, I have mate a hablit of armanging cases which have come before me in a tahnlar form, according to the state of the tongne, amexing at the sunce time othri details. As 1 must content myself with producing only extracts of these fables, 1 muy sny that the purtichlars systematically noted were: the disense and its duration; the general state as to strength, prostration, and conseionsness; the touperature of the body; the arrangements as to food and drink; observations relating to tho bowels and stomach, to the nervous system, to resjiration with regard to the mouth amb nose: tle gresence of morbid discharges by diarrlaen, dinesis, or suppuration; the amount of the suliva, and the moisture or dryness of the month. My performances in this matter have fullen short of my intentions. I had hoped to have made a complete compendium of hospital practice: but many cases, chiefly the less important, have escaped notice, so that my tables include only, 366 cases: these must be takon as a sample of hospitul experience rather than as hospital experience in bulk. They to not fairly show tho relative trequency of rach kind of tongue, for the more trivial were more often omitted than those which were striking or considered interesting; but they show, I believe correctly as far as they go, the kinds of disease associated with each. llowever inatlequate, I think these records will be of use, helped out as they must he with in larger amount of unrecorded observation. llaring tescribed ench tougue, with its environment of disease, I shatl next regard the association from the other point of view, anul, taking an fur typical cliseases and constitutional states, slaul show with what rarieties of tongues they are accompanied. Finully, 1 shall draw together such general conclusions and rules of practice as the foregoing Jetails nppear to warrant.
I will now pruceel to describe the healthysuriace of the tongue so far as is necessary for the purpuse in viow.

## Class I.-IIealthy Tontue.

The hoalthy comdition of the tongue is by no means easy to limit or deline. Not only does it change its aspect and character with often inconsitherable durintions from ordinary health, but it presents inany differences within this state in different persons ant in the same persons at tlifferent times. There are congenital varicties in the number and prominence of the ptpilhe: and there ure such habitual differences, whether congenital or acquired, in the amount of epithelium, that to some jersons it is normal to have it chan tongue, to others not less normal to have a coated one. Thus, whether the tongue be looked at with the naked eye or with the microscope, the range of health is wide; the same degres of coating may be normal in one person and abnormal in another, so that it is impossible to set up an exact itleal and say that all departures from it are the results of disease. Nevertheless, some broud outlines may be adrentured outside which pathology legrins.

The shape, colonr, and general nypearance of the tongue in health are so well known that it is only necessary lniefly to indiente, what must bo held to be consistent and what inconsistent with this courlition. The shape is not too broad or the end too blunt, as with the lably tongue of anemia, of depression after aleolonlic: excess, und of many otler asthenic conditions; nor is it indented with the tenth: nor is it narrowed and sharply pointed, as it is said to be chictly with acute febrilo and intlammatery states. Tho tongue shouda be protruded steadily and kept still, ncither jorky nor tremulous. In colour it should present a busis or sulst ratum of delicater pink, in which the forms of the papillio are distinguishable by their shape, lut not by hyperemin or injection, which conditions are conspichous in many disordere, notably in searlatina, as the chief charucteristic of the strawherry tongue. Tho surface may le ncarly clean or uncovered, but more commonly presents a superstratim which las been termed "fur" or "eoating," to the amount and elaracter of whieh much importance lias been atfachaml. In infenl healthineas this is no more than a delicate white sprinkling or stippling. which may bo likened to honr-frost, a little speek lying like a eap or summit to cach of the filiform papille, their pxtme not being enough to conceal, but only to modify, the gencral effect of the colonr helow. The filiform papille are more constantly coated than the fungiform: the eircumallate seldom. Dut this covering, even in perfect health, is not alwajs, even not often, so limited: sometimes jt stretches Letwecn the papillat, jartially fills up the intervals
between them, and spreads more abundantly on the central and hack parts than at the isides or til. The cont is nowhere exressively thick, nor enough quite to conceal the contiguration of not absalutely white, but is igreyish whero thin, yellowish ithere thick; the proper tissue, whre exposed, is not of a bright, but a
whell dull pink, not exaggerated by injection, so that no striking contrasts of white and red are notieeable. The tongne and inside of the mouth are moist. Saliva can be voluntarily collected and spat ont; it cun be marle to issuo freely through a cannula in the parotid duct by placing a little acetic acid on the tongue.
To obtain un idea of the minute and essential changes which give rise to the altered appearances presented to the naked eye, it is not cnough-it is, indeed, misleading-to be content with seraping the surface. It is needful to secure sections which show everything down to the muscular tissue; the amount, nature, and disposition of the epithelial investment must receive attention in its whole thickness, as well as the state of the coriun with rogard to injoction, nucleation, and extruyasation; and the claracters of lath apart from discase must be indicated. As the purposo what ma it will be enough to lescribe the npyer surface, where served.
Starting from within, and using the terms descriptive of the skin, which the covering of the tongue much resembles, we come first to the cutis vera or corium, a layer of dense connective tissue between the muscular tissue and the epithelial. Projections from this form the central parts of the papille. The injection and nucleation of the corium are its chief points of morbid interest. The nucleation varies much, even in lealth; it is most abundant within the papilhe and near the surface. Upon the corium is the epidermis, of which there are three layers, the leepest, or rete Malpighii ; upon this a stratnm composed of lozenge-shapied nucleated cells, which correspond, with a difference, to the corneum of the skin: and chiefly forms the white coat
To take these separately coat. th Malpighii presents in To the contace With the corium a compact arrungement of colnmnar cells, in thouch not abruptly, from a bully collection of polygonal which complete the llalpirghian layer. Towards the surface these cells elongate and datten, still remaining nucleated, and with rather a quick transition beeme squamous and form a layer which varies much in different eircumstances, by which the surface of the tongue is generally covered. 'This corresponds witl the corneum of the skin, though in the tongue, unlike what happens in the skin, the cells retain their nuclei. On the prominent parts, where the growth is oldest, natably on the ends of and cellular the cells undergo a further change, losing their muele and cellular form and becoming tibrous, losing their jower of
staining with carmine, but greedily absorbing the aniline dye staining with carmine, but gredily absorbing the aniline dye
lt is this horny epithelinm which essentially constitutes the coat or fur, and to which many of the clinical characters of the tougruare due.
The superstructure has but a hrittle connection with the rete Malpighii, a line of fracture often presenting itself with much re gularity along their junctions; on the other hand, the rete Mal pighmis intimately attached to the corium, so that not only a separation. The Malpighian layer is a very definite and constan structure-the ehief landmark anatomically; what is above yurio almost infinitely; the dep] layer should not be quite bare, uo should the accumulation be such as to be level with, und obscure, the lapillary eminenees. The papilla themselves com monly slow each a tip of horny epithelium, white to the nake much in disease that tho characters of coating and furrine malnl deyend upon it.
On the surface of the tongue, attached chiefly to tho promi nences of the epidermis, is a varying amount of parasitic growt chiefly in the shape of the miorococcus. This presents itsel chelly in the shape of rounded aecnmnlations upon the ontstand ing fibrilla, like the inforescence of a bulrush, besides thi
there are often seen, especially about the papllie, gramlar heat of bacteria and other parasitic matters, as well as detached ep thelial cells and accidental matters derived from food;' but th total bulk of the accumulation, whether parasitic or accidenta hears but a small proportion to the epithelial strueture of whir the coat or fur essentially consists. The adventitions growth
rather an appendage to the coat or fur than a necessary part of it. In certain conditions of disense, of which more bereafter, the parasitic growth, as well as the epithelinl, may be in great excess.
The characteristics of health in the mucous membrane of the tongue may be thus summed up. The corium must not be overinjected or over-nucleated, nor must it present numerously the extravasation of leucocytes. The Malpighian layer must display no excess of proliferation. The middle layer of epithelium, which corresponds to the corneum of the skin, must be present but not saperabundant. It should completely cover the rete Malpighii between the papille, but should allow these to be prominent at their points of emergence. The epithelial processes of the papille should be distinguisluble, but not too long; upon these may be н few seattered points of vegetation. Finally, the surface described must be exposed. not concealed by any coat or accumulation, however derived, and it must be normally moist.
1 need say little clinically about the healthy tongue. It will at once be seen that the healthy tongue is not the same thing as the torigue in health. There are individual peculiarities in the growth of lingual epithelium in virtue of which some tongues are Ilways conted, ethers not so when coating might be expected. With some persons a caatel tongue is habithal, and not only consistent with health, but a sign of it. On the other.band, diseases like pueumonia, in which commonly the tongue is quickly and thickly coated, may fail to produce ihis result. It takes time to coat the tangue. In the table two cases of pneumonia are referred to with a clean tongue. One was only in the second day, and scarcely counts. In the other, a not very severe case of pleuro-pneumonia with a temperature of $102^{\circ}$, the tongue remained throughout so far clean that it ceuld not be called otherwise than natural. It displayed a general fine white sprinkling, like April har-frost spread, which did net overcome the underlyiug tint. This absence of coat is quite exceptional in the circumstances, and probably shows habitual but unusual scantiness of the epithelial crop. There are also peculiarities in health whieh concern the saliva. An old woman, to be later referred to, disphayed under capillary bronchitis a red, dry tongue, from which 1 was disposed to augur ill. She got well and the tongue remained the same; she assured me that it had always been so, and I could only infer that the want of saliva, to which, as 1 shall presently show, the dryness and bareness of the tongue were due, was habitual and consistent with general health.
There are local and chronic diseases in abundance in which the tongue is normal, few invelving pyrexia or any general disturbance. I shall show that this organ responds chiefly to constitutional variations. If the system at large is unaffected, so as a rule is the tongue. It is obrious that the conditions of observation in a hospital, whence my tables were chiefly derived, necessarily presented disease more abundantly than health, so that the morbid associations of the clean tongue are exaggerated.

1. Not Abnormal.

Tetanus
Chorea

## Sunstroke

## Talvular disease

Intra-thoracic aneurysm (dry diet)
Pneumonia (one on second day)
Meuritic effusion (dry diet)
Pleuritic effusion (dry diet)
Pyo-pueumothorax
Phthisis
Whooping-caugh

Total
... 94
Observations relating to the abore" ('ases. Pyrexia (temperature froni $102^{\circ}$ to $104^{\circ}$ )
11yperpyrexia (temperature over $10 t^{\circ}$ ).1

Temperature not recorded

| Temperature not recorded |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Prostration .... ... ... | ... | ... |

Clielly on liquid diet 0
Diet strictly limited to liquids.... .... ... ....
Dry diet
...

Saliva abnormally deficient
. .12

Average temperature of 20 cases, $98.5^{\circ}$. Died, 2 ; recorered, 8 ; relieved, 13 ; not relieved, I.

## Class 2.-Stippled or Dotted Tongue.

This presents the first deviation from health. This is an excess of cont or fur, nat uniformly spread, but displayed only on the points of the papills. The term "fur" is perlaps more suited to an interrupted or punctiform covering than coat, which may be limited to one which is continuous; the fur, however, is here but a mere beginning, which may develop into the coated tongue, or that which will be described as furred or shaggy.
Before proceeding to minute particulars, the naked-eye characters may be briefly indicated. The tongue in this phase presents merely an exaggeration or accentuation of the covering of health; the state may indeed be so nearly that of health that the difference may pass without notice. The tips of the papille are covered with white more closely and braadly than within lealthy limits, and there is perhaps a little more than the normal contrast between the white summits and the pink intervals. The term "stippled" or "dlatted" fairly describes the aspect of the dorsum. To berrow from the nomenclature of small-pox, the aequisition is discrete, not confluent. The spats on the papillse are usually white, less often yellowish or brownish. The spotting is almost or quite alsent on a narrow lateral margin, and also on a small triangular patch at the tip, the apex peinting inwards. These clear spaces are made so by the friction of the teeth at each side, and of the palate or gums at the tip.
The minute changes are to be made out only by examination in section. It is thus made evident that the essential alteration is in the amount and disposition of the epitbelial covering. The clange is in way of excess, but the excess relates only to the condensed superficial structure. where the cells are flattened, fibrous, and rejective of carmine; not. or but very slighty, to the deeper parts. where the early shape and characters of recency remain. There is as yet no considerable or constant increase in the epithelimm of the deeper sort, though there may be indications of a tendency in this direction; and here and there, but as yet not abundantly, excess of mucleation appears in the corium. especially about the papille. There is no marked injection of the blood vessels. The interrals between the prominent papillse are nearly empty, as in health. On their tips is commonly more or less parasitic growth. mostly the micrococens, gathered, as it is apt to be, upan the projecting filaments. The proportion which these parasitic prodncts bear to the total thickress of the coat or fur can le seen only in section. By mere scraping of the surface a false impression is given of the amount of these superficial products. The crop bears only a minor proportion to the bulk of the coat, the major part of which is epithelial. The parasites are the fringe of the garment rather than the garment itself.
We see in this tongue mainly the evidence of disure. The length of the papillary processes may he explained by the alsence of customary wear, und, indeed, is exactly what want of friction and scour might be expected to cause. There is little evidence of overgrowth in the slaple of new epithelium, but only a retention of what must necessarily be old. In the parasitic formation there is nothing special or peculiar, but ouly what is found in health in less abundance. Is with the epithelium, what is indicated is rather the retention of what is old than the development of what is new. We may attrilute the accumulation, whether epithelial or zarasitic, to che absence of food connecteed with loss of appetite, and perhaps in some measure to the stillnes: of tongue which illness engenders. I have referred to slight and early eridences of avergrowth of epithelinm. This will become more apparent when 1 speak of more advanced changes.
This variety of tongne presents the first step in morbid acquirement and the first departure from health. A large number of persons conld be found with this tongue whose condition is not abnormal. I have tabulated sixty-one cases in which this state of tongue was seen. All were hospital patients. in whom absolutc health was scarcely to be looked for; among them acute disease was infrequent, chronic disease common. lieart disease was more numeronsly presentel than nuy other disorder, occurring in seven. l'ueumonia and pleurisy. tuken together, were found also iit seven: but among these was only one instance of pueumonia in an active and pyrexinal state. Rheimatism described as acute was present in five cases, but in only three was this adjectire applicable in its fullest sense.
The general absence of pyrexia was striking: the temperature in only three coses reached $10{ }^{\circ}$, in no case was it known to pass

The noxt step in the acquirement of coat is intermediate between the stippled and the conted, presenting a mixture of the characters of both. The white nccumulation is present on the papille, bnt is not limited to them; at the back and along the median fissure it fills $u p$ the depressions, so that the tongue, while displaying the dotted character about the anterior and lateral parts, is at the back continuously covered, the continuity being implied by the term "coated," This tongue is one of very frequent occurrence, perhaps moreso than any other which can be regarded as morbid; it represents but a slight departure from health: since it partakes much of the class preceding and of that following, it may be dismissed with brief description. A partial stippling may present itself as a stage either in the formation of coat or its removal; an example of the latter is seen in the drawing taken during recovery from pneumonin.

The microscope displays in a more marked manner the characters which hare been deseribed as belonging to the stippled class; the papillary processes are elongated and conspicuous, but there is in addition some increase of the deep epithelium by which the intervals are partly filled, the filling up made more complete by detached epithelium and accidental matters. Thongh the deep epithelium does not present to the naked eye the whiteness of the superficial or horny kind, yet the increase of the latter and the mixing together of the sloping ends of the papillæ give a continuity of whiteness, though only in the central and back parts, where the epithelium is most plentiful. This tongue shows want of wear, together with more evidence of increased growth than in the preceding class.
Looking at this class clinieally, we still find a large proportion of chronic disease, but note an increase of acute and constitutional affections. I may obserre us an apparent exception that pheumonia is presented less nnmerously, though acute rheumatism is more so, and typhoid is now introduced. The change in the character of the cases is shown by the increase of pyrexia, though this is still slight compared with what will be seen presently, by the increase of constitutionn depression, and by the number of cases in which the state of the patient was such as to necessitate liquid diet.
3. Partly stippled: partly coated; normally moist.

Observations relating to the alove cases.
Pyrexia ${ }^{1}$ (temperature $102^{\circ}$ to $104^{\circ}$ )
Ilyperpyrexia (temperature above $104^{\circ}$
Huch prostration (acute obstruction of howel)
Prostration not severe (puricarditis)
Chiefly on liquid diet
Strictly limited to liquid diet (ncute obstruction of buwel)
Dry diet (liquids reduced as far as possible)
Saliva abnormally deficient (including 3 under dry diet)
Died, 15 ; recovered, 18 ; relieved, $\because \ddot{2}$; not relieved, $\dddot{3}$. Áverage temperature of 42 cases, $98.5^{\circ}$.

| 2 (D). Stippled or dotted: dry. |  |  |
| :---: | :---: | :---: |
| ith effu |  |  |
| Peritouitis (opium) |  |  |
| Acute obstruction of bowel (volvu |  |  |
| Chronic albuminuria |  |  |
| Total |  |  |
| Observationts ats to the aboce cases. |  |  |
| ly rexis (temperature 102 to $104^{\circ}$ ) $\ldots$ |  |  |
|  |  |  |
| No observations as to temperatureA |  |  |
|  |  |  |
| luch prostration |  |  |

1 The lennerature was not noted in 13 cases; il may be laken ay generally not lumterlully elvraved.

Total

Bulbar paralysis
Cerebral hemorrhage
Cerebral embolism
Hemiplegia (canse uncertain)
Giddiness...
Chorea

| 1 | Constipation ... |
| :--- | :--- |
| 1 | Colic... |
| 1 | Chronic albuminuria |
| 1 | Acute rheumatism |

Hysteria
Valrular disease of heart
Pericarditis (not rheumatic)
Preumonia
Laryngitis
Bronchitis ... $. . . \quad . . . \quad . . . \quad 1$ Igue
General tuberculosis
Phthisis with hremoptysis:
Uleer of stomach with hematemesis
Cirthosis of liver
Ascites (cause uncertain)
Anasarca (cause uncertain)... Diarrhcea...

Observations relating to the above cases.
Yyrexia (temp. $102^{\circ}$ to $114^{\circ}$ ) $\ldots$... ...
1lyperpyrexia (ovel $104^{\circ}$ ) ... $\ldots$...
Coboservation as th temperature ... |... 14
Much prostration $\quad . . \quad \cdots \quad \cdots \cdots \quad . . . \quad$....
Prostration uot severe $\quad . . . \quad, \cdots \cdots, \quad . . .{ }^{7}$ 6 Chietly on liquid diet ... phagus. 1 ; diarrhea, 1 ; constipation, 2 ; colic; "l 1; typhoid, 3)

Dry liet, liquids reduced as far as possible (ascites)
Saliva abnormally deficient (decidedly), including 1 under dry diet

Died, 7 ; recovered, 30 ; improved, 06 ; not improved, 5 ; uncertain, I.

## CLass 4.-The Coated Tongue.

The next degree of epithelial excess, whether by retention or overproduction, results in the formation of a contimuous coat, or one continuous orer the greater part of the dorsum. This covering presents great variety and many indications to the naked eye. There is scarcely an acute or subaente disorder at some period of which the tongue is not coated; this holds good especially with febrile complaints. This state of the tongue is often a step to ether changes, those often of more serions import. Two special varieties of conted tongue will receive separate notice: the "strawberry" "tongue, which, besides being coated, is much injected; and the "plastered" tongue, in which the coat is superabundant, and has certain characters of recency. Putting these kinds aside for the present, the generally coated tongue is only an advance upon that which is partially so, just as the partially coated tongue is an advance upon that which is simply dotted.
In the ordinary rarieties of coated tongue, the coat which is continuous between the papille covers the greater part of the dorsum, being thickest where friction is least, about the back and median furrow. It may be dirty-white, greyish, or yellowish. The limitation at the tip and edges is not abrupt ; there are no striking contrasts of colour; neither is the coat very white, nor where it is absent is the mucous membraneviridly red. The fungiform papilla may be.visible where the coat is shelving, bnt they are not remarkably injected as with the strawberry tongue. Such a tongue may be anemic or sodden-looking, especially when the patient is anæmic: the condition chronic, or associated with nervous depression. Good examples of the chronically coated tongue are presented in the drawings from a case of floating kidney and neuralgia under morphine; and in one from a case of clironic dysentery under opium. The cont may be tariously tinted by accidental circumstances, especially by colouring matters, which are swallowed or vomited. It may be made bright yellow or olivegreen by hilious vomit, or brown by facal vomit. Jrou will sometimes make it inky. Iron and port wine used alteruately will sometimes conrey a decp brown to the coat, tannate of iron resulting from this combination. I once knew an intensely black coleur to be imparted to an otherwise light-coloured coat by artificia] teeth. Probably some mercurial amalgam had reacted with sulphuretted lyydrogen in the coat and produced the black celour.
The coated tongue may lose its coat in two ways: it may gradually thin off with a shelving edge, exposing a moist and natural surface; or it may break away in flakes after displaying a surfuce which is red and dry; the former method, implying, as it usually does, the restoration of the healthy surface, is obviously of the hetter omen.
Often, in circumstances which will hereafter claim attention, the coat becomes dry, brown, and crackel, sometimes presenting rectangular fissures like crocodile's skin. This amounts to what I shall presently desceribe as the "encristed tongue," towards the making of which the coated tongue is a step.
Slicroscopic examination of the conted tongue shows as the essential change excess of epithelium of every kind. The papilte are prominent, their pillars of coriun stand well out, and upon them are long processes of the carmine-refusing epitheliam, whieh is horny, superficial, and old. Between these protrusions is a superabundance of the full-bodied nneleated epithelinm such as belougs to the intervals by which these spaces are mote or less filled up. In some cases this accomnulation is surmounted by a thin layer which has undergone the horny transformation, When this is so, it ensily aecounts for the continuity of whiteness, since epithelium of this sort is', when moist, white to the naked ere. The contimuity of whiteness, however, npon which the detinition of the coated tongue rests, is more commonly maintained by the approximation of the long processes, and the filling of the interrals by accidental matters. There is as yet no marked injection, no great evilenee of overgrowth in the Sla]pighian layer, no constant hypermeleation of the corium. What alteration of growth there is is in the direction of too much; but there is no such extravagance, as will bo noted in some conditions to be presently considered.

On and about the papille parasitic growths such as have been already described are often abundant, but as these are not especial to this variety of tongue, nor add rery materially to the bulk of the coat they need no letailed notice.

Clinically, the coated tongue brings with it a further increase of acute and febrile disease. Taking together the moist and dry kinds, pmeunonia or pleurisy was present in 10 of tis cases; trphoid wasslightly more frequent than in the preceding classes. whileother febrile disorders now intrude themselves into the list. Prrexia and prostration are both on the ascent, showing that the generally coated tongue is associated with a larger proportion of constitutional affection than where the coat is more phrtial. It was observed that the saliva was noticeably deficintit in a larger proportion of casez than heretofore in 12 of cs of the coated tongue, in only 5 of 69 where the cnat was partial.
4. Coated rclite; normally must.

Cerelral hemorrhage
Hemiplegia (cause nneertain)
Pnemmonia (jleıro-puen-
monia)
Pleuris5
Laryngitis
Bronchitis
Cancer of lung
Phthisis
Phthisis and hemoptysis
Aneurysm (?)
Acute obstruction of bowel
(small bowel)
Chronic obstruction of bowel (sigmoid flexure)

## Diarrhea..

Ulicer of stomach (hamatemesis)
Vomiting (uterine)
Total

Obiervations relatiny to preceding cases.
Prrexia (temp. $10=104^{2}$ )
Dyspepleia
Repletion
Stricture of cesophagu.
Starration
Peritonitis
C'hronic albuminuria
$\ldots$
Uræmia, vomiting, suppression of triue
Acute rheumatism (inclucting cardiac attection) ... Subacute rheunatiom (including cardiac affection)
Chronic rheumatism and sciatica
1 Typhoid
Febricula $\quad . . \quad . . . \quad . . . \quad . . . \quad 4$
Erysipelas $\quad . .$.
Erythema nodosum ... .... 1
1 Convalescent ... ... ... 48

$$
\text { Hyperpyrexia (temp. over } 114^{\circ}
$$

4
No observations as to temperature $\quad \cdots \quad \cdots \quad$ "
Much prostration
11
Prostration not severe
(hiefly on liquid diet..
Stricti limel .... ... 11
No food hy mouth; fed by rectum (stricture of esophagus)

## Dre diet

Saliva abnormally deficient
Average temperature of 41 cases, $90.1^{\circ}$
Died, 11 ; recovered, 15 ; improved, 21 ; not improved, 1.

## t(D) Corted white: partly dry.

Hemiplegia
Mrelitis (acute)
Valvular disease and disease of aorta

l'hthisis and pneumonia - Chronic albuminuria ... .... 1

1 Acute olsistruction of borrel 1

Oliserations relating to the above cases.
Pyrexia (temp. $10 \mathrm{Z}^{\circ}$ to 1 n 4
Hyperpyrexia (bver 1040)
No observations as to temperature
Much prostration
Prostration not severe $\quad \ldots \quad$.... $\quad . .$.
Chieffy on liquid diet... ... ... ... I:
Strictly limited to liquid diet..
Dry diet
Sulira abnormally deticient
Irerage temperature of 18 cases, 19.50.
Died, 6 : recorcred, 5 ; relieved, $s$; uncertain, 1.

## Cless 5.-Strarberry Tönque.

This needs but a brief mention. Eisually with what may be called the acute coater tongue, more especially when this appronches the plastered character to be next noticed, the fungiform papille show through the coat at the tip and edges. These are often more or less injected, cepecially with scarlatina, where they
liquid diet bears testimony to the same nssociation. The saliva was noticeably deficient in alarger proportion of instances than with any tongue yet before us, save the small strawberry class. This does not imply merely that the tongue was dryish, which might be due to the evaporation caused by the increused heat of the body; but to lessened secretion, as was in some instances ascertained with the cammuln. We see a close association with pyrexia which stimulates cell growth, and is probably the chief agent in producing the characteristic epithelinl luxuriance, the products of whel are abnormally retained partly by reason of the scantiness of saliva.
6. White; plastered; moist.

Cerebral tumour
Jaundice (enlargement of
Pneumonia, pleuro-pneu-
liver) … ... ... ...... monia

Acute rheumatism (including pericarditis, etc.)
Bronchitis (acute).
Phthisis and hemontysis ... 1
Stomatitis
Acute obstruction of howel
(volvulus)
Typhoid
Febricula (or febrile attack of uncertain nature)... ...

Dysentery
Perityphlitis

Total -.. ...
... 32
Iyrexia (temperature $102^{\circ}$ to $104^{\circ}$ )
Hyperpyrexia (over $10 t^{\circ}$ )
Co observations as to temperature
Nuch prostration
Prostration not severe
Chiefly on liquid diet
Strictly limited to liquid diet
Dry diet
13
Saliva abnormally deficient
Average temperature of 27 cases, $101.6^{\circ}$
Died, 10 : recovered, 11 ; improved, 11.
Before proceeding to other varieties of tongues, I will, now that we have reached in the plastered tongue the climax of simple coating, look back upon the several grades of that condition, and try to collect the instruction which hows from them.
First pathologically. The most important item is the lengthening of the papille; and the first question, how far this depends on disuse, from want of food, etc., and how far on overgrowtli. Want of wear must have some effect in allowing this elongation, but it would seem to be too rapidly produced to be wholly thus accounted for. A greater lengtl is attained within the short one, epithelial so in many cases are the deeper parts of the column waich bre nnexposed. The epithelium also between the papille, which, as being less exposed than they are, must be less influenced by wear is also in many cases increased in thickness; when it is so il gives strong evidence of over-production as against deficient remoral Coating, therefore, is the result in part of disuse, want of rubbing and wishing, as the somewhat increased surface parasites show, but chiefly of morbid overgrowth.

The clinical circumstances give similar evidence, It is true that the greater degrees of coating occur chiefly in patients who are kept without much solid food. On the other hand, in many conditions with which solid food and mastication are aimost completely absent, the thick and rapid covering of acute disease does not present itself. I have watched with interest from this point of riew cases of stricture of the asophagus. In three such only the lower degrees of coating were presented, though in all solids were impossible, and in two food was introduced chietly by the bowel. In a fourth the tongue was dry and furred, but the furring came on with dryness, on which it was apparently dependent. I shall revert to the influence of diet upon the tongue, and simply say here that a comparison between the thinly or partially conted tongue of simple ahstinence, and the thickly and generally coated tongue, where a less degree of abstinence is associated with a febrile state, shows conclusively, as it appears to me, that in the latter condition we have something to look for beyond inaction.

I shall refer later to the effects upon the tongue of the limitation of liquid, but it is enough for the present to say that want neither of food nor of drink avails to produce the thick coating which in other circumstances is so characteristic.

A condition which may be brietly referred to in comection with
has ret appeared, save with the strawlerry tongue, a nearly allied condition. Prostration, mostly snch ay helongs to the febrile state, was recorded in 8 , while the increased proportion of patients on
coating of the tongue is diminution of saliva, though I shall consider this subsequently on a wider basis. As a general rule, whatever be the reason, the saliva lessens as the coat thickens. Taking together the lesser degrees of coat presented with the stippled, and stippled and coated, elasses, this secretion was notably deticient in 12 of 170 cases. Taking together the higher degrees of coat in the stravlerry and plastered kinds, the saliva was notably deficient in 16 of 39 . Thus generally, up to this point, the less saliva the more coat. But it will appear later that almost total alsence of this fluid may concur with a tongue which is almost absolutely without coat. For the present it is enough to point out that the deticieney does not alone account for the cxcess of eorering unter consideration.
To account for this there remain but two canses which present themselves as probable: the hypothetical existence of a morbid poisou as in fevers, and pyrexia. As to poison, looking at the high degrees of coat in the classes of strawberry and plastered, 1 find that of 39 such cases 14 were of typhoid, febricula, ecarlatina, measles, mumps, or pyæmia, and 3 of acute rheumatism. Thus, unless we include pneumonia, of which there were 10 cases, less than half fell within this hypothesis. Among the rest were many cases of local or organic disease, which were clearly, outside this supposition. Among these were 3 eases of aeute bronchitis, 1 of phithisis, 2 of perityphlitis, 1 of rolvulus-enough to show that local disease, or disease not connected, so far as we know, with any blood contamination, may give rise to what may be ealled acute coating of the tongue.
Pyrexia remains to be considered. When the tongue is normal, so as a rule is the temperature. I have already referred to one case as exceptional in which the tongue remained clean in the presence of pueumonia. Putting this aside, I have already referred to 22 cases in which, in different circumstances, the tongue was reasonably clean; the temperature was raised only once, and then only to $101.5^{\circ}$. Taking now the degrees of coating in ascending order, we find that as the coat increases, so with almost exact correspondence does the temperature.

Relations of Body Ifeat to Coating of Tongue.


The amexed statement needs no explanation; whether we look at the frequency of pyrexia in the class, or at the average temperature of all cases in it, the figures are equally significant. Taking the strawberry and the plastered tongues as practically the same, the proportion between coat and heat is maintained with remarkable exactness; and we bave as yet failed to find any other condition besides heat of body which has as uniform a relation to the alteration in question.
That heat up to a certain point promotes the growth of cells is a fact well known to experimental physiologists. I take it on the authority of Dr. Delépine that a temperature of between $100^{\circ}$ and $100^{\circ}$ is favourable to the growth of tissues, one of above $105^{\circ}$ detrimental to it. It probably very rarely happens that the dorsum of the tongue, exposed as it is, and necessarily cooler than the constantly corered parts, reaches a tomperature high enough to lessen growth; almost any degree of +levation possible in the circumstances must he within the limits of that which tends to increase. In pyrexin, therefore, we have, if not the only maker of coat, certainly the cliief one.

## Class 7.-The Furvell or Shaggy Tongue.

As the papille of the coated tongue continue to longthen, and adrentititious matter to collect hetween and upon them, the advancing process presents itself in two shapes, which differ as the elongation or the aecumulation preponderates. When there is great projection of the papillie, so that these stand out distinctly: the turm "furred or slaggy" represents this condition. Where these shapes are covered in. and levelled over hy matter, whether derivel from the tongun it self, or from without, the term "enerusted" may be employed. The two conditions occur in many similar circunstances, and are continually intermingled; nerertheless, they oceur separately, and must be so described. A stippled, or dotted tnague, by increase of each point of eoating, may become furred. a process which dryness facilitates. In'a different way a thickly
coaterl tongue may beeme furred. The Jongthened papillin may present themselves as a coarso pile like phash, and so make the ". moist furrerl tongue." A little drying will cause the threads on collect in sheaves, and so form the "dry furred tongue "which lam about to describe.
To the naked eye and during life the fore part is irregulariy rough, with large pointed papilfe, on the tips of which are brown spots, or the whole may be more or less brown. The central and back parts are often covered with irregular pointed masses, such as are represented in the drawing, frequently more or less mixed up with and obseured by dry crust often like crocodile's skin. I have seen after death (in a case of malignant disease of the laryns) much of the hinder region of the tongue covered witha shagey villous growth, like coarge hair; hut in life this liirsute state is commonly much obscured hy incrustation.
Under the microscope the elinef eliararteristies of the tongue are the enormously elongated filiform papilla, every part of which is increased. both the deeper portion derived from the corium and the superfieial epithelial part, the latter most so. Mierocncei are sometimes present on the tips of the papille, but do not add materially to their bulk.
The elongation may conceivably be due either to over-growth or defieient removal; there is often some increase of the deep epithelium, but seldom much; occasionally some over-nucleation of tho eorium is present. In fine, there is some evidence of hyperplasia, but not enough to account for the striking changes which the tongue presents. These would seem to be mainly due to want of wear, of whieh the papillary ends, hardened by dryness, are especially resistant. Beyond the resistance which dryness entails, it is possible that the unnatural state of surface which goes with it may act as an irritant and stimulate growth.
As to the clinical relations of this tongue, I have been able to collect, notwithstanding the generality of dryness, a few instances in which the furred tongue was moist, or at least not dry. One of these was of a kind sometimes seen where great elongation of the papille is consistent with appetite and health. The only conditions which could be suggested as provocative of the state of the tongue in this case were old age and constipation. 1 have referred to the state of pile, which may he regarded either as an adranced stage of the coated tongue or an early one of the furred. In the table it is seen to be associated with pneumonia and with апетіа.
The "dry" furred tongue is of more importance than the moist, but it occurs in different circumstances and is by no means uniform in its indications. It may succeed as has been shown. either upon the dotted tongue or the conted, in the course of arlrancing disease; it may also occur with retrogressive disease, as when the encrusted tongue sheds its coat so as to expose the suljacent elongated papilie. The class therefore presents much elinical variety. It has been shown that the furred or shaggy tongue is largely the result of disuse and want of moisture, which latter condition is nearly essential, though not absolutely so. The papilla harden with drymess, as has been stated, and become abnormally resistant of frietion, which, in the absence of solid food and mastication, is diminishecl. The salica is obviously deficient. as judged by the dificulty of spitting and by the results of catheterisation of the parotid. It must be stated. however. that the latter operation was not often performed, the extreme illness of the patient often opposing a hindrance. The fract, liniverer, was clear without this test; and the conclusion warrantel that the dryness was in general due to want of this seccretion.
The accompanying tabulation speaks for it self. Ineed not allide again to the instance where a profuse hirsute growth was conjoined with sarcoma of the epiglottis and tnisil: here the results of want of friction were chietly erident. thotigh there whs some evidence of overgrowth in hypernucleatioin. IT may next refer to a group of cases in which, as presumably in the last case the condition was present with little or no pyrexia: This includes two cases of coma from brain disease. two of advaniced cirrhosis. one of enlarged liver of uncertain nature, two of liarrlied, and three of enforced dry diet. Thus, dehydration, be its canse what it may, is a definite factor in producing the tongue in question. In other cases to wit. typhoid and acute rheumatism-1yrexia was present, but it is clear that this is not essential. "It is worth observing how infrequent is pyrexia, and how low its range in the dry tongue now in question, as compared with the plasterivd moist tongue last discussed. This khows bow little of the desiccation is to be attribited to evaporation connected rith increased heat of body. And 1 may make similar negation with regard to
another condition to which dryness and furring have been attributed, namely, hatitual opemiess of the mouth, especially during slerp; 1 find but three instances in which this attracted notice, and I ampersuaded that other causes of drying and furring are far nore important.
In short, the dry furred tongue is essentially due to two causes which are comected together-want of saliva and want of wear. Among the canses of want of saliva, the most important is a state of syitem which cannot be otherwise delined than as failure of nutrition and vital power. With how great a variety of disorders this failure is associated 1 neell not recapitulate; I have expressed the greater degreas of it ly the term " prostration.
7. Furred or shegyy: not dry.


Observations relating to precedung cases. Pyrexia (temperature $102^{\circ}$ to $104^{\circ}$ )
Hyperpyrexia
No observations as to temperature
Average temperature (of 3 eases)
Much prostration
Chiefly on liquid diet...
Strictly limited to liguid diet..
Saliva abnormally deficient
Died, $\because$; recovered, 1 ; nnt improred, 1.
T (D). Furred or shngyy: dry.
Disease of brain (coma) ... 2 Stricture of esophagus

Hemiplegia (emholic)
Cherea
Talvular disease
Aneurysum or dilatation of aorta (dry diet) :.
Broncho-pneumonia
Pleurisy ..
Cirrhasis of liver
Enlargement of liver (cause (uncertain)

Total
Ohservations relating to precerlin!y cases.
l'yrexia (temp. $102^{\circ}$ to $104^{\circ}$ ) ...
Hyperpyrexia
No observation on temperature
Arerage tomperature of 2 cases
Much prostration

## Diarrheea

 Perityphlitis Abscess (in axilla). Acute rheumatism Typhoid1 Convalescence from typhoid
 matism
1 Chyluria.

Prostration not severc
Chiefly on liquid diet,
Strictly limited to liquid diet..
No food by mouth (feil by rectum) Dry diet
Saliva a bnormally deficient
Died, 9 ; recovered, 7 ; relieved, 8 .
Donatrons.-The annual report of the Leeds General Infirmary acknowledges the receipt of $£ 150$ from the Yorkshire Football Club, making a total of $£ 1,000$ in eight years.-The Trustees of Prison Charities have given 100 guineas, additional, to the National Hospital for Consumption at Yentnor, and 100 guineas to the Metropolitan Convalescent Institution. - The Sheffield Church Burgesses have given $£ 120$ to the Sheffield Public Hospital and Dispensary, and £68 to the Jessop Ifospital. -The Mary Wardell Convalescent llome for Scarlet Fever has received £100 as "A Juhilee Offering" -Mr. Harold Smith has given floo to Charing Cross Hospital. - University College Hospital has received $£ 85$ from the People's Contribution Fund.
Tire General Court of the Governors of Guy's Hospital have sanctioned the erection of a residential medical college upon a site immediately adjoining the hospital. It is proposed that the sum required for this purpose, cstimatell at $£ 20,000$, should be raised by private subscriptions among the governors, the medical staff, the lecturers and teachers in the medical school of Guy's Hospital, and their friends. The special appeal fund lately raised, and which is only available for purely hospital purposes, now amounts to $\operatorname{ser}, 000$.

## THE TREATMENT OF DIPHTHERIA AND TONSILLITIS.

## BY THOMAS F. RAVEN, L.R.C.I', M.R.C.S.ENG.

From time to time communications appear in the Journal, and other medical periodicals, relating to the treat ment of diphtheria. Varions drugs, applications, and antiseptics are employed, and, when the result is satisfactory, a record is made of successful treatment, and sometimes even the specification of a remedy is announced. The clinical features of the disease, however, are ofteri omitted, and wien this is so, the ralue of the observation must suffer.
It is held by many aufhorities that sore threat, with membranous deposit, is in itself a sufficient evidence of the disease called diphtherin. The writer of the article on diplitheria, in Quain's Dictimary of Merlicine, inclines to this riem: Others, however, are driven to the conclusion that sire thront. with memhranons deposit: occurs sometimes sporadically, sometimes in epidemics (with loctal appearances exaetly resembling' those of true diphtheria), which can be clearly dist inguished, especially, "after the event," from diphtheria. My own experience compels me to take sides with the latter viert. Recently 1 witnessed, in an institution containing eiglty elididren, a sevpre epidemic of exudative tonsillitis. The disease was sthenie in type, and the local appearances of wash-leather-like patches of considerable extent upon the pharyngeal mucous membrane were indistinguishable from those of diphitheria. The cases were almost all serere, with temperatures, especially marly in the disease, as higla as $105^{\circ}$; relapses were common. Three cases of nenter rheumatism (with eardiac misclief), one of erysipelas of the face. arid one of diffused cellulitis with suppuration (in an adult) were associatell with the epidemic. The lisease was extremely infectious, and it undoubtedly arose from the poisonons effects of sewer gas. Had I treated the patient with sulphurous acild, or binindide of mercury, or sulplite of magnesia, or turpentine, I should have been justified, by autherity, in recording the successful treatment of sixty cases of diphtheria, by one or other of these remedies. For under careful management, the disease ran its course, and all got well; and, although chlorate of potassium was freely given, I never thought.of attributing the recovery of the patients to its empleyment. . During the epidemic alhuminuria was neter found in any case, nor swelling of the glands at the angles of the jaw: and afterwards there wais not a single. instance of paralysis or peripheral neuritis.
Within the last few weeks a similar but smaller epidemic has been under my obserration. Almost exactly the same symptoms appeared, but the disease was less serere than in the epidemic which 1 have jnst given an account of. Thirteen cases of exudative tonsillitis occurred, some mild, some severe. In one case laryngeil symptoms appeared, but subsided in the course of a few days withont operation being necessary. All the patients got well, and no remely but chlorate of potassium was given, and in no case were the sequele of diphtheria manifested., The disense which restilted from the escape of sewer gas into a lavatory and near a bedrnom window, was deciledly communicable. This was shown hy the fact, that when the first case was removed to a longing far smpervision, a little girl in the house contracted the disease. "1 're that the Collective Investigation Committee ith the new sehedules, clear and simple as they are, giving scope with the new sechedules, clear and simple as they are, giving scope will do contrilutor to recerd. his own experience in his own was, instinction can be definitely drawn between diphtheria nod a
difich a dative tonsillitis. The subject is one that can liardly nd exildative tonsilitis. The subject is one that can lardly be over-
rated in importance and interest, and miost practitioners rated in importance and interest, and mest practitioners have excand notes hearing on the matter.
SCARLET. fcyer has, we learn, lroken out on board the Thames training ships Shaftesthury and Eamouth, lying off Grays. Sixteen, cases from the former and one from the latter lave been remored to the hospital.
Freach Acadear of Mfheine-- At a menting of the Académie de Mlédecine on March 13 th Dr. de Saboia, of Rio de Jaueiro, and Dr. Lusk, of Xew York, were elected Corresponding Members in the Section of Surgery. In addition to these two gentlemen, the names of Professor Tictor Horsley and Sir Tilliam Mac Cormac, of London, Dr. Macewen, of Glasgow, and Dr. Sayre, of Mepw York, were submitted to the Academy.

## NOTES

## Case of cancer of tite pylords IN WHICH PYLORECTOMY WAS PERFORMED.

By MCCALL ANDERSON, M.D.,<br>Professor of Clinioat Mediclue in the Liversity of Glasgow:<br>AND GEORGE BLCHANAN,<br>Profersor of Clinical Surgery in the Cniversity of Glasgow.

Menical History of the Gase be Dr. Mccill Andzrson.' Tuef following casc ${ }^{1}$ is worthy of being recorled in connection with the question of nperative interference, as it is desirable that unsuccessful, as well as successful, cases should be publisher. ${ }^{\text {: }}$

On January 9th, 1888, on the recommendation of Dr. Samuel Sloan, Mrs. S., aged 4s, was admitted into the Western Infirmary complaining of symptoms.i referable to the stomach, of four months' duration. Her father died, 'aged 40 , of ""chest affection," her mother of "paralysis," at 70 : two brothers and two sisters died in infancy, aud two sisters, at the ages of 30 and 40 , of bronchitis and enlargement of the lirer respectively. Her remaining two sisters are alive and well," She herself has had six children, three of whom are lead, one being stillborn, and the other two having died of scarlet fever. "Of the remaining three two are well, and the third is at present under my care suffering from chorea. She has always, hitherto, enjoyed good health, and menstruated regularly; but mowishe seems to be approaching the menopanse. She has been a total abstainer all her life.
About four monthis ago, without obtious cause, she began to complain of flatulence and of "waterlirash," to which symptoms pain in the enigastric region arid vomiting were added two months thereafter, and her friends noticed that she was losing colour and getting very thin. The vomiting always occurred two or three minutes after food, and consisted of ${ }^{17}$ the ingesta, little altered, and never contained any hood, nor presented the "coffees grommls" appearance. The pain occurred at first only after taking food, but latterly it has heen more continnous, and has often heen very severe, although she cannot well describe its character. Sinee her illness commenced her appetite has been rery fitful, and has never been very good, although niorexia is not a prominent feature, but, for the last two months, her bowels have heen very costive, and she has never had a natural motion.

Un examination she was found to he very pallid, very treak, and much emaciated, but she had no fever, nor was there any evidence of disease in any organ with the exception of the stinmach.
On placing her on leier back and exposing the abdomen, inspection at once revealed a vety considerable distension in the epigastric and left hypochondtiac regions, haring quite the shape of a distended stmmach. The 'great cutriture of the stomach was very distinctly indicated, extending at its lowest point as far as the umbilicus, and on passing the hand along its course to the right, it was found to terminate in hard and nodulated tumour about the size of a hern's egg. This tumour, which was nuly. slightly tender on tirm pressure, was freely movable in all directinns, and fell very much ta the leftion lying on that side. Ther Was dulness on perchasion over the tumour, hut orer the rest of the distended stomach the note was tympanitic, and even after fasting for sixtem hours sucenssion was easily made ont.

On . Danuary luth treatment was commenced. She was allowed nothhy hy the montli except a small piecei of ice orhen she was thirsty, and a teaspoonful of Carneick's beef peptonoids thrice Jaily; but a milk suppnsitary was inserted into the rectum ereary two hours, and at the altermate hours she had an enemin of Carnriek's peptonoids' ( 3 drachns in 3 ounces of warm water). IMer howels were regulated alternately with a simple aperient pill and a Warm water enema.
On examination, on January 23rd, it was found that under this treatment the symptoms of dilatation of the stomach had entirely

1 Raported by William Machennar, M.B., Resident Physician.
disappeared, and the tumour was now felt immediately to the right of the left edge of the rihs, and extending nearly to the middle line. On sitting up, however, it de-cendel about a couple of inches. Under the treatment just mentioned shef felt rery much more comfortable in every respect, and dill not seem to be any Weaker than at the time of admission.
The symptoms presented in this case led to the conclusion that she was suffering from a cauccrous obstruction at the pylaric orifice of the stomach, while the small size of thes tumour and its remarkable mobility-which pointed to its being non-adherentalong with the alssence of any eridence of implication of other organs, led me to think that it might be a suitable case for resection of the pylorus. Accordingly, after consultation with my colleagues, it was decided to place the whole matter before the patient and her friends, without concealing in any way tho great danger of operative iuterference. aud, as they were unanimnus in their desire to have it done, she was transferred to the service of my collearue, Professor George Buchanan.

## Debcriptiox of the Operation, with Revabes therene by

 Professor George Bechanax.The patient referred to in the report by Dr. Anderson was placod under my care on January 24 th, l 858 . The danger of the nperation was fully represented to her and her hushand by me in such form that, so far from recommending or even biassing, I told them that their acquiescence must take the form almost of a request rather than a consent. But they had well weighed Dr. Anderson's words, and quite resolred to hare it done.

The operation was done after the manner of Dillroth, as detailed in Wolfter's monogram and in Butlin's Operative Surgery of Walignant Disease, with one or tro slight moditications.

I did not adopt the recommendation that the stomach should be washed out with tepid water for a few dars previouls to, and also two hours before, the operation. I am enntident that if the stomach could be by any treatment put into the state of Mrs. S.s. such manipulation, a most harassing thing for the patient, would not be required. In her case the stomach was practically empty for days, and on the morning of the operation was so, as was proved at the operation. Such strength as remained to her was not, therefore, taxed in the morning by any such disagreeable process.
She was placed on the table at 11.30 A.M., and was put back to hed at 2.30 P.s. From the commencement of the giring the anresthetic till the bandaging up of the wound occupied twn hours and a half.

There were present, hesides others, Sir Gr. Pacteod, Dr. Patterson, Dr. Cameron, aud Mr. Maylard who had himself done an operation of the kind two vears ago, and as he offered to devote the whole day to be present, he afforded the most raluable a-nistance in the most trying part of , the proceeding, numely, holding up and coapting and assisting in passing the needles through the cut orifices of the stomach and duodenum. Either was administered hy Dr. J. L. Steven with most excellent effect.
I made a rertical incision from the umbilicus to the ensiform cartilage, and without any hemorrhage ent through the linea alba into the peritoneum. I put my hand into the athdomen and felt nearly opposite the incision, a little to the right side, the end of the stomach with a smooth tumour the size of a large hen's egg surrombing the proximal end of the pylorus. Its right limit was sharply defined at the proms, and an almost as clearly defined extremity to the left marked the extent of the stomach invaded. It was freely movable, and there were no adhesions, so that without trouble it conla be lifted up to the abdominal wount, and the thin diaphanous mehs of the lesser and greater omentum examined. The process of separating the lesecr omentum from the upper and the greater omentum from the lower curvature of the stomach is very tedions, as cvery half-inch has to be secured with a double ligature, and snipperl between. When this was accomplished Mr. Maylard used the forefinger and thumb of hoth hands as a clamp on the proximal part, a flat sponge was placm underneath the stomach and thodenum now dratwn up to the whunl, and the stomach was cut through. Scissors were uam, aml the section proved inost satisfactory. Šot a particle of fluid flowed out, and so far as one conld judge the gastric wall, where divided, scemed beyond the tumour.

It is unnecessary to detail all the manipnhations with needles and the different modes of introducing them which are necessary: according as one deals with the sewing from within or from outside the viscera. The really critical and difficult part of the
operation, viewing it as a piece of skilful manipulation, is where the upper point of the cut dnodenum is joined to the lower point of the upper curvature of the stomach, wherc it has been stitched to close in the upper two-thirds ot the gap left by the picce cut of with the tumour.
To do this the assistant must have the stomach end in one forefinger and thumb, und the duodenum end in the other forefinger and thumh, and hoid the points in absolute contact; but, besides, must elevate nul depress them synchronously with the movements of the surgeon's curved needle, so that the action, to be completed satisfactorily, is composed of the harmonious motion of four hands. So much was 1 impressed with this, that 1 can easily conceive that Billroth and his assistants, who have together done the operation many times, ought to accomplish it far more rapidly than the most skilled operator doing it for the first time; and, as the shortening of the time occupied is one of the most necessary desiderata, it is not improbable that increased experience and modification in manipulation may have this effect, and so lessen the primary mortality of the operation. lu all, over forty stitches werc introduced, besiles those used to close the abdominal wonud.
When the stomach and chnodenum were joined, and just before the abdomen was closed, the parts seemed to fit each other so exactly that it was difficult to realise that four or five inches had Jeen cut away. Also it was satisfactory to notice that neither blood-clot nor any of the contents of the stomach or duodenum had gained arlmission to the abdomen, though a small ressel in the cit edge of the duodenum had to be ligatured with a fine silk thread.
During the first two hours the patient, who was completely under the efliects of cther, was fairly well, but about this timie began to show signs of exhanstion, getting very pale. with feeble pulse Stimulants were carefully administered by subcutaneous mjections of ether, enemath of brandy, and small quantities of
mrandy rubbed inside of the cleeks. But by the time the operation was completed she was in a state bordering on collapse, :Ilmost pulseless, cold and white.
She was placed in bed, warmth was applied to the surface, and small quantities of brandy given.
1 saw her again at 6 P.s., and by this time the heat was restored and the pulse was fairly good. There was no vomiting, and she declared she felt neither pain nor sickness, bnt very weak. This rallying went on till midnight, when signs of depression again came on, and she grallually sank till 8 A...., when she diel.
Post-mortem Examination.-On removing the stitches from the nbdominal wound the coapted surfaces of the peritoneum were found closely applied, seemingly even partly glued together. The abdominal cavity was frecly opened in such a way as to ohriate the slightest displacement of its contents. They were found precinfly as they had been placed at the nperation, and not a partick of blond or other Huid had escaped from the line of union. The cut end of the duorlenum was lying on the surface of the pancreat, and seemed alrearly to be partly arthering to its peritoneat covering. The stomach and duodenum were carffully removel and lail on a slab, and the stitches kept the parts so well in position that they could be moved about without disturbing the muion. The wrakest point of union was at the posterior wall of the duolenom, where the stitches were closely placed by interrupted suture, and here, with a little pressure, the point of a prohe conhl lur inalle to pass through the line of union. Here, howeser, the line of suture while in sith was resting on the pancerns, and if the patient had lived udherion letween the peritoneal surfuce of the bowel and that of the pancreas would have occurred, in fact, had already hegum. So fur as the anatomical manipulation was concerned, the examination was evidence that the result was just what was resired, The stomach contained ahout two oures of hrownish fluid. lixaminatinn of the seat of the incision showerl that the disereasel structure had heren comphately remaverl. The structure of the tumour romowed was cancer of the rolioil varinty. I small gland in the lesser omintum, seen at the phat montem, was runovel, and on microscopic examination proved to be inliltrated witha matscial somewhat reamilling the primary tumour.

Remanks.-The conclusions I have drawn from the expericuce of this case, and from a study of the subject ${ }^{2}$ are : 1. That if pyln-
${ }^{2}$ Authorithes consulted : Wolder's monograni on the Nethod of Eiertung the Py

rectomy is to be undertaken with any prospect of success the patient must be urged to submit to it long before he is reducerd to a state of approaching inanition hy starvation. ". The suc-
cess or fatality of the operation itself, will be greatly affected by the length of time the plemdominal cavity is kept open. 3.' Thie freedom of the tumour from complications, ns adhesions and secondary infiltrations, is necessary, but sometimes can only be ascertained during the operation. Meniwhite, as the number of operations performed is still very limited, the question, "1s pylorectomy justifiable or not?" may be disposed of by quoting the two following opinions, one by Mr. Butlin, who has made the question the subject of very extensive study from the history of all the recorded cases; the other from Professor Billroth, the conriver of the operation and the most extensive and successful operator.
Entlin: "The excessive mortality due to the operation, the rapidity of recurrence in what have appeared to be most favourable cases for operation, the return of the symptoms of obstruction in some if not many of the cases, and the fact that there does not appear to be one case which can be claimed as a genuine cure, lead me to doult whether the operation of resection of the pylorns for cancer is ever a justifiable operation." "
From Professor Billroth's assistant: "Wien, Klinik Billroth, Felruary 2nd, 1888. To Professor George Buchanan.-Dear Sir, -Professor Lillroth does not only consider the operation of resection of the pylorns as a justifiable one, but he continues operating with good results in many cases, as you will see from the pamphlet following this letter. Of course he does not operate in cases of carcinoma, if there are already infiltrations and adhesions to the liver and pancreas. In these cases he prefers Wölfler's
operation or gastro-enterostomy.-Believe me, yours truly Salzer.
Accompanying this letter was a statistical table of the operations done in Professor Billroth's Klinik in 1887, three by Billiroth and one by Salzer. Three of these recovered and were alive at the time of writing; the fourth died after fourteen days. Surely there is, in the presence of such facts, good reason for a little longer suspending judgment.
1 remember the time when one of the most accomplished surgeons of his day publicly asserted that, if a surgeon performod ovariotomy again and it was followed by a fatal result, he might with justice be tried as a criminal charged with culpable homicide; and this owing to the almost uniform mortality from the operation.
1 am not an advocate for the "very frequent performance of pylorectony, and 1 have before stated the conditions which may lead to further success in the future. Meanwhile 1 would counsel everyone who has the prospect of being called on to do it to practise it frequently on the dead body. The time nccupied in passing the stitches can only be curtailed, by frequent practice on the parts in situ.
As this is one of the surgical manipulatious requiring suecial aptitude and interest and frequent repetitiou to cusure anything like success. 1 am of opinion that the operating surgeons of a large community, with so many hospital appointments, might ngree to delegate all such operations to one or two young men who would be willing to take it up, and who would accept the dity, not because they could at first do it better than their compcers, but because they would cheerfully face the responsibility of keeping up the special knowledge required by mastering everything written ahont it, and the special aptitude required by the frequent practice of it in the post-mortem room.

St. John Ambulance Assectation.-The course of "First Aid lectures which were held at Esher and which were attended by II. R. H. the Duchess of Albany, was finished on March lst, and last week the examination tonk place, when seventeen candidates out of the twenty-seven composing the class were examined amongst the number being the Duchess of Albany. The examiner was Dr. Coates, RN.., who, after a searching examination, reported their candidates, with one exception, as being rery well up in their work, amongst the successful candidates being the Duchess
of Albany. After the examination, IIer Roval Highne the lecturer After the exammall, for the very plengness thanked the lecturer, Surgeon lees Hall, for the very pleasant, instructive,
and interesting course of lectures given, and which she felt sure the whole class had enjoyed.
American Journal of Merlical Ncionce, 188 : Butlin, Opeyature vurgery of ituluy


# CLINICAL LECTURE THE TREATMENT OF CARBUNCLE BY SCRAPING. 

Delivered at St. Mary's Hospital, January 27th, $18 s s$. By herbert w. Page, M.A., m.c.Cantab.

Surgeon to the Hospital.
Gentremen,-I shall make no apology for offering to you some remarks upon a disease which was thought worthy of a place in the Clinical Lectures of Sir James Paget. I wish, howerer, to-day to speak more especially on the treatment of carbuncle by that plan of free scraping away which yon have seen practised in the hospital, and 1 do not intend to take up your time by a description of the disease, of the symptoms it presents, or the course it runs. I assume that you are familiar with the usual appearances, and that by the size and severity of the local inflammation, by the angry look, and the boiling out through many openings in the sloughing skin of the unhealthy gangrenous tissue beneath, you are able to say when the term "carbuncle" may be properly applied. I assume also that you know what is the general condition of patients thus aflicted, how, even in cases where there is no such special debilitating cause as diabetes, there has commonly been an antecedent state of ill-health, brought about very possibly by over-work, insanitary surroundings, or insufficient food, and how the carbuncle tends further to increase the clebility so induced, by establishing one of those ricious circles which we so continually are trying to break down. As debility led originally to the carbuncular inflammation, so this in its turn increases ${ }^{\circ}$ the dehility, until the patient's condition may be one of great danger, demanding the use of every means likely to keep up his strength, and thereby obviate the tendency to die. With these things I assume your familiarity, and if you turu to your textbooks of surgery to find how to treat the patient, you will learn a good deal which is of importance as to maintaining his strength, but you will find little that is satisfactory as to the local treatment of the disease. On this point opinions have differed widely, some surgeons advocating free crucial incisions to relieve both tension and pain, at the risk even of much bleeding, which is clearly a thing not to be lightly regarded in the circumstances ; others thinking the separation of the slough may le hastened by pushing small pieces of potassa fusa through the skim-holes into the gangrenous tissue beneath, a plan of treatment from which I hope myself to be preserved; some adrising pressure; most recommending the use of well-made and frequently changed hot linseed poultices for the relief of the pain, for the softening and detachment of the sloughs.
With the methol by incision Paget deals at length in the lecture to which 1 have referred; hut, without repeating his arguments against it, I may tell you that, from the observation of many cases, le had arrived at the general conchision that the best of all treatments was to "do nothing," nnlerstanding by that phrase that his patients were "carefully feil, washerl, cleaned. and bedded, and their carhuncles were very skilfully dressed and washed with proper things, and every care was taken to shut out all untoward influence from them." Thus treated, "no complications occurred, and therefore the cases remained without treatment, as it is said-that is, without medicine, and with no active surgery, no incisions, or anything of that kind." And then he goes on to speak of the value of poultices and perfect cleanliness: of the need in some cases of opium ; of the smaller nepal than is commonly imagined for excessive feeding or stimulants; of the vast importance of letting the patient have rery free air. Nor had the experience of ten more years, and the opllortanity of having spen a much larger proportion of fatal cases, as we are told in an appended note, led lim to deriate from the plan udvised when the lecture was given.
Now, all these methods of treatment, whether by incision, by potassa fusa, by pressure, or by poulticing, have this in common, that the tissue which has been lestroyed by the violont inflammation io left to le got rid of in Nature's own way, ly cessation of the gangrenous process, by the formation of granulation tissur?,
and by gradual detachment of the sloughs which have been formed in and heneath the skin. During this slow and tedious process the patient. is subjected to muny risks, and has much to contend against, the worst of them leing exhaustion and pain, septicemia and pyamia, and it is from one or other of these last conditions that death commonly ensues.

In speaking of acute septic gangrene, you have heard me advise that the best thing for the patient is to get rid as soon as possible of the gangrenous area or limb, and, as an example, you could not have a better case than that of the lad whose thigh was amputated on the 16 th , whose temperature fell at once from $106^{\circ}$ to $99^{\circ}$. and who was rescued in the nick of time from a state of supreme danger.
Descending from great things to small, I believe that the risks incidental to carbuncle may be avoided, and the general condition of the patient very rapidly improved, by the free removal of the carbuncle by scraping with a Volkmann's spoon, or rather with Lister's scraper. You know perfectly well the many conditions in which this comparatively new and most useful instrument is employed in surgery: for scraping away unhealthy granulations, strumous or lupoid, diseased glands or synovial thickenings, and in a hundred ather ways, but in none is it, I think, of more immediate or practical benefit than for the bodily remoral of the sloughing tissue of a large carbuncle. You object to it, perhaps, that there must be severe bleeding, the very thing we spoke of as undesirable in the treatment by crucial incision. Experience, however, shows that there is nothing of the kind. We have been astonished at the singularly little bleeding which has arisen even in the most extensive scraping, and 1 feel pretty conficlent that there is no danger on this score.

The mode of treatment is simplicity itself. The patient is anæsthetised, and if the slough has not already begun to boil through openings in the skin, a small central incision, or incisions, is made into the parts beneath, and then with the spoon you scrape out every particle of slonghing tissue, working down into the depths, going from part to part, controlling by gentle pressure any renous oozing there may be here while you are scraping there until the whole slough is cleared out: and such skin as seems to be dead, blue, and bloodless you mar cut away with knife or scissors, although it is marvellous how much of apparently worthless skin will return to life, and had better be preserved. Then, having well irrigated the large open wound with perchloride or carbolic lotion, you dust iodoform over it, bandage upon it with some pressure wood-wool pads, and the procedure, which hardly deserves the name of an operation, and which has not taken many minutes, is at an end.
The following cases may be cited in illustration of what has been said and in support of the usefulness and value of this plan of treatment, which I cannot help thinking will come in time to be very generally employed.
Case 1.-R. F., aged 41, admitted April 27th, 1887, looking wasted and very ill, has been out of work for a long time. has been staryed, and been mentally much depressed. A carbuncle has heen forming between his shoulders for the last eighteen days. It measures eight inches in one diameter, six inches in another, and is boiling out by many openings. He is in great pain. His pulse is very feeble, his morning temperature is $100.2^{\circ}$, and he looks like a man who lias been starved. There is no albumen or sugar. On April 29th the carbuncle was freely scraped away; there was no hemorrhage. The same evening his temperature was $103.6^{\circ}$, and in the following morning and evening $100.6^{\circ}$ and 100. $4^{\circ}$. Ile expressel himself as alremly feeling much better, and thereafter, with a normal temperature, the history is one of rapid improvement. In five days the surface was covered with healthy gramulations, and healing took place in the usual way, being helped later on by skin grafts, under the careful dressings of Mr. Kershaw. He left the hospital on June 2lst.

Cast Ir.-11. B., aged 65. the subject of a circular carbuncle, fire inches in diameter. on the back of the neck and occiput, was almitted on May .ath. It had begun as a pimple three weeks before, and was now boiling out in a typical manner. He ras very weak and ill, and in great pain. On May 3 th the whole thing was scrapel away there was no hleeding. The large surface cleaned rapidly, aind by June 6th was covered with healely sranulations. IIis rapid general imporement was in every respeet most striking. After the removal of the earbuncle he lost all pain, and soon lregan to enjoy his fool. Ite was disclarged on August 2nd.
C'ISE IIT.-N. S., aged ha, mas admitted on September itll. Has

Whens suffring for some firn. from coll and indigestion, and looks What and ill. There is no athumen or sugar. Ile has a cerbuncle folir inches in diameter nis the lanck of his neck, which, hegran fourwern days hefore with aching pain, und the fomation of a pimple which rapidly increased in size. The pain is great, althongly the earbuncle is much brek'n down. Un september stli the carlmancle was serapeal awhy by my hense-surgenn, Mr. Crowle. by Septrmber 1 tith the surface was envereal with hemethy gramulations, and healing forthwith went on in the nsial way: His general appearace at once improved, and from the day after the operation he had fredom from pain. Discharged Octaher 4th.
Ourlatest case was trented yesterlay ly Mr. Norton, mypresent honse-surgeon. To-day the man lonks mmeh hetter, and is quite free from the severe pain which he was suffering before the seraping.
That each and all of these patients derived immense henefit from the treatment, there could be at the time no doubt, nor is there any, I think, that the risks of septieemia, pyemia, ant exhaustion were very much lessened. Clearly, it cannot be otherwise than an adrantage to get rid as carly as can be of so masty a thing as a curbmeular slough, as I holl it is the right thing to Inte, you can liardiy do colused. han may remove them too woman in Manvers warl, who was so long an in-patient because of an extmisire burn of arm; Lreast, side, and axilla, who began on the sixth day to wander and have high temperature, and to be distinctly septicemic, and whorapilly improved, and whose temperature fell as soon as Mr. Crowle had carefully scraped away the sloughing tissue. Sin, ako, is it with the seraping of carbuncles.
This plan of treatment has, no dombt, occurred to and been practised by other surgeons, lout a search through books and joirmals lins enabled me to find only ne papper bearing on the sulnject. The paper "on Scraping in Surgery was well worth finding (Liverponl Medico-Chirurgical Journal, January, 1857, p. 41); and I will read to you whut Jir. Teale, the writer of it, says
"Carbuele - Probably in no disease involving serere pain, and occasionally threntening life, is treatment by scraping more conspicnmsly of value than in carbuncle. A central crucial inncision of moilerate size, with vigorous scraping in every direction in which the scraper can penetrate into the half-lead tissue, will cleanse the diseased mass of much of the half-lead, patrefying, poisonous material. This main attack shouh be supplemented by smaller crucial incisinns and scrapings in the enntiguons carbuncular skin, and by numerous small incisions or lancet-punctures into any neighbouring skin, which, though not carboncular, is cedemato a destructive carerr. Having rid the already half-condemmed all diseasel, decaying, infecting material, the resulting carities and crevicus should be well snakel, wither with pure carbolic acid. carofully used so iss mete to sculid the slan, or perhapge more advantageonsly with 'glycerin. acil. carbol.' so that arery crevice wharn halfenead tissme remains may tha soakedi and pemetrated. Finally, the raw surface is well chargul with indoform, and dresed with salieylic acid or some sneh absorinent antiseptic material. The rasult is cessation of pain and feverishness, restoratinu of normbl lumperature and a raluid ustablishment of comfort. convalserence, nud henling."
l could wish for no lutter enfourarement in hringing this mode of treatment to your motice than that it shonld lawe fonman advescata in Mr. Tealle, of Leeds.
 Trent Intrmary-The Shefteld Genemi Intimary has received serm, and the lyblic llospital and Dispensary, E250, muler the will of Mr. Samuel Fox, of Deepens-The Ghamorganshire Intrmary and lispensary has pecivel e.vounder the will of Miss Nary liothergill, of llensol Castle.--Mr. Manry Browning of
 George Asli bequenthed feom to the kinat and Gantwhury Inspital. - Mr. Vichael (ianly, of Shellomene lioad, Dublin, inequeathed eton each to the Shater yticericorelise Ifospital, St. Vincent's llospital, the Hospital for Incurahles, and the Alelaide Hospital, - Vr.
 to the Hissex ldiot Asylum at Colchester, filat to the Chelmsford Intlmary, and éleni to the lispensary:-Mr. 'Thomats samuel 1.ntitho, of Trengwainton, l'enzance', bergifatheel \&ite to the local infirmary.

CASE OF CHREBRAL ABKUESS SUCCESSFULAY 'TREATED' BY OPERATION.

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By VICTOR JLORSLET; B.S(Lond), VR.S., ETC.,
Assitant Surgeon to University College Hoapital, and Surgeon to the National Hespital for Paraysis and Epileney.
(Continued from page 5.31.)
1 saw the patient on December 9th, 1887, in consultation with Dr. Ferrier. There was a rather offensive purulent discharge from. the left ear, the pinna and external auditory meatus being ten-. der; the passage also was a little swollen and narrow. Wiping out the pus completely was rendered difficult by this tenderness, and examination of the membrana tympaui consequently very incomplete. It was, therefore, doubtful whether the opening was As set forth segment, as it appeared to be, or not.
As set forth in the medical history of the case, the otitis was Discharge of pus began with severe pain three weeks before admission, but soon stopped, namely, in ten days. It reappeared the day before seeing him, but in much less quantity.

On palpation and gentle pressure the scalp and pericranium were found to be tender at a point which was situated just in front of a vertical line drawn through the external auditory meatus at about the junction of the thurd and lnwest fourths ois the distance between the meatus and the sagittal suture. This tender point above the meatus clearly corresponded with the superior temporo-sphenoidal convolution ahout opposite the lower horder of its middle third, that is, rertically under the lower end of the fissure of Rolando.
almost complete aphasia same timed as in the medical history, there was. amost complete aphasia, marked paresis of the right side of upper limb, especially those of the hand and digits. In the right
und there was intense optic nearitis, the same being accompan discs hemorrhage in the right dise, that is, that of the side opposite to the abscess. It may be rememhered that in the case publisite to Dr. Gowers and Mr. Barker, the optic neuritis was also most intense in the opposite disc. Considering the proximity of the abscess in each case to the fibres of the ojetic tract this, at the first sight, somewhat extraordinary fact may hare a simple anatomical expanation in riew of the decussation at the chiasma, and the fact of the lymphatic vessels lying for the most part parallel to the mane of the filres.
Decemher $10 t h, 185$. The patient having been put under chloroform, and the previous treatment of the head, including very thorough cleansing of the external auditnry meatus with horacic acid, ete., having heen carried out, us detailed in a papur by myself (see Journal, October, 188(), an incision was made of the following T shape. The horizontal limb was almost semicircular, the centre of the eonvexity being at the junction nith the vertical limb, The anterion end of the incision hegan at the superior temporal rilge, and the posterin terminated at a rertical line dram behimd the middle of the parietal eminence. The junction of this furzontal limb with the vertical nue corresponded with the painfit spot. The vertical limb was simply carried down in front of The skin und fat of the flaps thas marked treve first reflected, and thern the temporal muscle and periosteun were similarly turned off the bone. At the seal of the painful spot the bone was doubtully yellow: When an inch dise of bone was removed at the same place, the dura heneath was found to be congestel, at the same time bulging, without pusation, and of a dark, almost purplish, colour.
was therefore clear that the alscess was pointing spot. The chura was then opened, and the dark-red odematmis
aded hrain tissue bulged strongly through the incision. As it सas fairly ecrtain that the abscess extended deeply into the tempornsphenoital lobe, the lower half of the circumference of the hole opened further by amother incising $V$-shaped notch. The dura was
open the shin. The brain was punctur sertical to the first, just as in camnula (ahout 3 millimetres diameter), the pus liberated, being first met with at about the depth of 1 centimetre. Tlie amount first met with at about the depth of 1 centimetre. The amount
of pus was about hall a floid, ounce ( 3 v ) ; it was inodorons and creamy The cannula was kept in until no pus and only bloork oozed through it. It was then replaced by the inner tube of a silver tracheotomy cammula; (this was changed for a smaller silver (Iryinage-tube on the second ray after the operation).
Owing to the inorlorous, eto., niture of the pus, i thought it wisest to leare the cavity simply draining, and without syringing it out, "The issue showed that this. Was comect in this instance, but of course cach case must be treated on its own merits, and it must be obvious that such a jprocedure as syringing, etc!', may be rendered advisable or, not, according) to other circumstances than those mentioned, sucls as tho point in the abscess wall at which the opening is made, etcol Forinstance, in this case there is little doubt that the dbscess was tapper at or below its centre, and consequently there was no hindrance to the flow of the pus.

The periosteum and temporal muscle were replaced and adjusted round the tube, which they pretty elosely enveloped, a matter of satisfaction, since the brain continued to protrude considerably (owing to the usual cedema), after the withdrawal of the pus, and of course such bulging was more successfully opposed by the aldition of a layer of muscIe in the covering flaps. Finally the skin incision was everywhere completely apposed by horsehair, and a few silk sutures. The womnd was corered with a carbôlic gauze, boracic acid pourder, and, sal alembroth wool dressing. . wis

The subsequent coursé of the case was really without incident, save the rapid recovery from all the symptoms. The temperature rose to $101^{\circ}$ on the second uight after the operation, bnt. fell to normal the next day, and remained so.

December loth, 11 P.x. Had romited a little, and was restless. Pulse 124. Slept well atter a hypodermic injection of morphine.
December 11 tli, 9 a xt lin se 96 pain. Talked sensibly, but occasionally insed wrong words. Who aphasia was thus rapidly recovered from, as miglit have been expected from its special character. The loss of words, still present, was not peculiar to one.class, for example, nouns. Wound dressel,
 tumperature and pulse becama normal:

December 12 th. Whound dresserl; tube changed; answered questions rationally; no pain.
December 13 th. Given solid food.
December 14tl. Face : still a little weaker on the right side. Lipper limb: grasp, right 87 , left 93. Tactile sensation normal, ind no pain on movement of limb.
December 15 th. Wonnd dressed ; tube quite empty; flaps completely healed. A little pus was syringed from the auditory meatus, which had been carefully clearised and filled with pawlired horacic acicl at ench dressing. At the next dressing this lischarge had ceased, and never recinvel.
December 23irl. Tube left out; wound sinply covered with rowdered boracic acid.
January isth. The paralysis, or rather paresis, had apparently isappeared, but the grip was still deficient on the right side, thus: ight 90 , left 100 . The fundi ocnli, axamined ly Mr. Brudencll arter, shawed no trace of bapiorrhage (noted in right eye), and he swelling of the lises had almost ramished.
During the remainder of the patient's stay in the hospital he howed no further symptom, andwas discharged in perfect health, "he membrana tympani was intact, lut it cicatricial (?) marla was lparently visible helind the tip of the handle of the malleus.
The genesis of the alscess in this case was singular jumany re-
oects. In the first place, it seemed as thongh the acnte otitis uedia In the first place, it seemed as though the acnte otitis redia commenced at the most three or four weeks before the oscess arose. Further, here was a rapidly developed abscess of nsiderable size situaterl high up above the roof of the tympani ppirently aboit an inch of brain substance intervened), and yeti pus, thongh of conrse infective, slowed no sign of decompotion or imlication of beiner extremely septic in expalanation of
reateness of the mischinf.
te acuteness of the miselinf.
The localisation was fainly easy in riew of the puresis and
uritis, couplea with the temder shot the puin of whele wes met uritis, coupled with the terider slot, the pain of which was not ntinuous with that felt in the meatns.
As regards the oparitive procedure. I liase notling to mad to hat is now common knowledge. Thesc cases are fortumately nule, perhaps the simplest, examples of intracranial surgery, luit ere remains yet the method of diamosis. This is purely a queson of localisation, amd of all imaginable surgestive symptoms v are more demonstrative than graduated paresis.

# THE GOULSTONIAN LECTURES INSANITY IN RELATION TO CARDRAC AND AORTIC DISEASE AND i PIFTHISIS. 

Detivered before the Royal College of Physiciuns of London. I Ey Wm. JULIUS MICKLE, M.D., F.R.C.P.Loxd., i( $\}$ Medical Superintement, Grove Mall Asylum. |r , it is, Lecture 111.- Ansanity in refation to Pithigte. Those who have cliefly, written on so-callerl "phthisical insanity", hare founded their description partly on cases in which the phthisis came on about simultaneously with the insanity, partly on examples in which phthisis evidently began long after the inal sanity, partly on others in which the recorded facts as to precedence are fragmentary aud valueless. Of these three kinds of case I would reject the last two when offered as examples of phthisicalt. msanity, and would allow to the first only a modified claim to be so entitled.
To work out the sulject more satisfactorily, I have arrangeid three great groups of cases: oue in which phthisis distinctly preceded insanity; one in whicl the two affections apparently came on about simultaneously; and one in which phthisis supervened in the course of well-established, or even chronic, insanity.

First Group: Phthisis influencing the Production of Insanity.-- : Taking up the first of these groups, it is desired to analyse cases in ${ }^{2} 0$ order todetermine the influence of pre-existent phthisis bn the production of insanity, or in modifying the clinieal aspects of mental derangement subsequently arising partly or chicfly from dther causes. In dealing with this as with the other parts of this sulbject of puthisis and insanity, I purposely exclude all cases. of general paralysis, epilepsy, senile dementia, and various ot her conditions with gross organic brain changes; and 1 do so inasmuch as in these cases the clinical aspects are cliefly dominaterl: by the intra-cranial lesions. Omitting these, I have had under my care during a term of years at least 106 cases which appeared to have some relation to the decision of the first question we meetor that of the influence of plithisis on the production of insanity -and from which the constitueut members of the hirst two groups, are selected. The third group is constructed of otler anm difierent material.
Of these 10 th cases I found fifty-onc not to bear so directly on the question of mental symptoms springing from phthisis as the rimaining fifty-five. For in many there was donbt as to the true, aud precise order and dates of incidence of the phithisis and the ! insanity. the two cither occurring at about the same time, or the history being imperfect; in many of them other causal factors were of predomivating importance, and controlled the play of pathological events.
And evers of the group of fifty-five, 1 will exclude some from further consideration in this place, and for varions reasons.* For example, in sereral the attack of insanity, sumpervenient on phthisis, was a second attack; in some a closer analysis revealed cither nn obscurity of relation or another factor. or other factors. as possilly being predominant; or revealed a prossible causation ton complex to permit the case to be of value for our purpose, In one or trro the complication by cardiace disease, or meningeal tuberculosis, destroyed the simplicity and validity of the example; in sonie, on a closer scrutiny, the order of incidence or phthisil: and insunity was not absolutely clear, the two apparently coming on almost simultaneonsly, and therefore possibly. concomitant efficts of a general deterioration of system and breakdown of the nutritive and resistive powers of the orgunism; a rier quite compatible with that of phthisis, a form of successful hacillar iuvasion. For one or other of these several rensons, twent $\gamma$-one casis in all have heen placed in the second line. leaving the ihirty-four cases most adapted and relinble for our synthetic purposes, as regards phthlisis promucing insanity, or modify ing the clinical aspect of insanity subsequently arising, or partly so from other cnuses: Whilst at least twenty four others ont of the 106 will be used to cast a symonsis of those cases in which the precise orler of incidence of phrthisis and insanity is doubtful. but that incidence nearly simultaneous. biven of the thirty-four left as being those in which
the relations and circumstances of the cases are more clearly defined, sntisfactory, and demonstrable, the evidence is not in all cases of the same validity: for the diffentry in assigning accurately the etiological factors in insanity is notorious, and, indeed, in the majority of the insane the ausation is complex; the factors vilual, nud simple, but plural, conjoint, and complex.

These casis 1 have placed in five sub-groups, namely, persons affected with:

1. Actire, in part quasi-delirious, symptoms. Ilallucinations.
2. Depressed, melancholic symptoms.
3. (a) Morose, angry mania; or (b) delusions of injury, of persecution, etc. (not systcmatised); or (c) rarelj, gay maniacal excitement (probable organic brain disense),
4. Imperfect or abortive monomania; or monomania.
5. (a) Dementia supervening on feebleness of mind, imbecility : (b) rarely, moral insanity, impulse, and so on.

First Suh-group. -Those in whom mental derangement most clearly and immediately seems to depend on the pulmonary affectiom are persons, forming a comparatively small sub-group, Who, in advanced phthisis, take on active and partly quasiclelirious symptoms. These persons are hallucinated; hallucinated in most cases they certainly are, and probably so in the remainder. For example: (A) Enreated, and with softening lungs or with actual cavitics, such an one becones restless, continually dresses and undresses himself : if in bed, gets out of it or attempts to do so; if out of it, or not yet confined to led, rolls on the floor, and time he may quite lose his mental control, and when it, is restored, temporarily or partially, there is but a vague and slight recollection of the attack; and for some days or weeks thereafter a state of mental confusion persists, together with a feeling of being weak in mind and of impaired memory, and possibly with transient diplopin. The mental confusion evidences itself in rarious ways, amongst others hy the mistakes made as to the identity of those who are about him, and as to the recollection of times when, and places at which, he has previously met them. Nor does the error of mind concern others only it is manifested also in an extremely confused recollection by the patient of his surrounding and location, so that, whilst continually occupying one and the same hed, he relates his experiences of being now upstairs and now down, now in one apartment and again in another. And even on trivial matters his statements are self-contradictory. His condition fluctuates, better to-day, coherent and fairly rational: tomorrow, perhaps, he is incolerent, rostless, and in bewilderment tries to rise at aight, and wander about the room.
(B) The case does not always take this mild form ; as compared with which the more urgent conditions may be reached by rougher patha, and with more impressive and more dramatic phen mena. Thus, a subject of advanced phthisis with bronchitic signs having hecome delirious, and then actively maniacal and raving, thinking his master called him from the street, has rushed to the window, and smashed it, cutting his hand; and aubanquatly, objecting to go to bed, has slept badly, been incohereus, excitable, and vinlent, eapecially at night; has refused food, reeming it to he poisoned, or with difficulty has been inducor to take it. Then comps a space of time during whinility aul reasonalleness are interrupted by paroxysms, lasting about a day, in which he is restlese, fumbles his clothing, undresses himself, is with difficulty persuaded to eat, fails to recognise his doctor, atnes ns if in terror and at imaginary ohjects, and is apparently absorbod in his delusions and corporeal illusions. When again lucil, he tells us that in the paroxysms he felt, as it were,
people pushing something up the hack of his head, hut was chiefly in tierror and panic-stricken by fear of injury. I'ractically recovering from act ive diander of mind, he dies a few days later, the end heing precipitated, rather, by the further encroachment on the limited hrenthing space, mado hy intercurrent lobalar pneumonia ami mumonary congestion, than by the invasion of a phthisis florida.
(C) This wandering of the mind, this jolting of the mental plonghshare from the furrow, or insane delirimm, in a case here and there is fomm to take another phase ; and the flight of ileas is expansive. The morbid concrptions of such an one rum on daring enterprise and dazzling project. . Nt hough changeable, shifting, phantasmagorial, and cepressed in a rambling way, the conceptiona are large, generous, anl ambitious, but deeply tinged with puerility and grotesque absurdity. For example: it is
owing, he says, to his fathers head being turned by a (real) Royal risit to the town, that that parent has sent him to an asylum; and the large factory he himself is abont to establish for planper yard therenf, to that of "a flannel petticoat," as he inconsequently adds. Restless, he telegraphs to business firms for prices of rood and iron: asserts that he has invented a tramway which will pay splendidly, and talks ramblingly about his inventions, the appoint ment of surgeons to his factory at enormous salaries, and the erection of chambers for the spiritual benefit of those
employed thereat. Correspondingly, and notwithstanding irritability of temper, the feelings are gay, buoyant, possibly exultant, the mental colouring is bright and roseate. Truly, here, "hope springs exulting on triumphant wing," but only to sink in the coexistent and deepening abyss of physical perdition; the delusive is thrown into bolder relief by its glaring inconsistency with
the true; for, in desperate contrast with his large idens, adrenturons schemes and exaltation, is the real state of this adferer from frequent pulse, diarrhoa, insomnia, adranced pnlmonary phthisis and excavation, emaciation, prostration, colliquative perspiration, hypostatic œdema.
(D) Where predisposition is marked, symptoms like some already mentioned may come on at an earlier stage of phthisis ; and, if recorery does not occur, assume a more fixed and settled form. Thus, at first, in maniacal agitation, incoherent, sleepless, speaks ramblingly on religious topics, declares that tho wears, him are devils; or that he is commanded to destroy his family, because they are infidels. Or he throws himself on the floor, breathing violently, making cries, ejaculating about "God, and the sin of the world," asserts that lyy shonting he is saving those abo ut calmer mood, he is still confused, says he has, only been as many minutes here as he has been days in reality; and is depressed in mind, hangs his head, declares he cannot speak, has lost faith in the Lord, has been starved, and must go to prison for neglecting his family. Ile hears the birds talk to him at night. To him, depression is due to his being "lost," or ing to his "not working with the Word:" how his mind wanders, and things that don't belong to it come up in it; and how before he entered the asylum he had been in low spirits, and when on the streets scemed to be wrong. About these ideas there wo crime and of everythmg tised. At times indisposed to take food, he fmashed the utensils. Now and then, later on, were delusions and hallucinations, such as concerned his being burnt to death, or seeing flames, or hearing whispers quout him at night.
(E) In other cases, with stom
(E) In other cases, with storms of excitement and depression, laughter, weeping, suicidal and other violence, are more virid hatucinations, and hypochondriacal fancies. Here, with herearrest of the alvanced phthisis under treatment, and a deferring of the fatal end for years to come. For example, puppies, says one, are alive in his stomach and pain him, or on his ahdomen the Saviour rests. His body is in telephonic communication with a factory; he is tied down, and for an immoral purpose: is mesmerised, his food is blood. Later on he ohstinately refuses to eat, under the delusion that his relations are killed, put downstajrs, a strong smell of biood. He hears answers and comments on hallucinatory voices. "The birds speak to him, and the same sounds immediately go about the house." Later on he feels "a restraint on the mind." put there for some indefinitely explainablo purpose; feels a connection with and hears roices from a factory. The perversion of taste and smell continues, and so does
self-abuse. He says his food is mamed with the diseased individuals: personages of notoriety, or of history buried near him by hundreds, Cavendish, Burke, Kings Charles I llenry V, and so on.

Thus, these last two kinds of case link the present sul-group with the next.

Second Suh-yroup: The Sub-group Characterised by Menta Depression, hy Symptoms of the Melancholic Order.-Nearly onethird of the cases of the group we are considering come into thid depressed or melancholic sulb-group. The limits of space prech the moment of of itailed histories, strividual summaries of thes moment of writing, or even of individual summaries

Summary.-In all there is emotional depression; downcast, despondent, grieved, some of them are in tears. In very nearly all are suicidal iteas, and in many these are carried out in suicidal attempts. The emotional state is not always merely one of depression, with or without reeping, moaning, and a lugubrions aspect; indefinite fear or dread may possess the patient; he may be afraid to go to sleep, or perhaps, raguely, of something about to happen. Some are extremely suspicions, or are timid, anxious, careworn, or are listless, or very obstinate, irritable, unsociable, sullen, sulky, slovenly, neglectful, forgetful.

Hallucinations and illusions exist in all, if we include those few cases taking the form of a melancholia cum stupore, where, extremely probable as is their existence, it camot be definitely ascertained. Relatively predominating are the hallucinations of hearing, next most frequent are those of smell, and nearly as many have hallucinations of taste or of sigit. At one period or another, or at several, refusal of food is a marked symptom in about two-thirds, and some disinclination for food or anorexia is noted in a few others. Insomia is a frequent symptom. Some exhibit general apathy, at least at times. I few show marked mental confusion or excitement: and some are iuattentive, or mistake the identity of their attendants, taking them for relatives; others wander aimlessly about.

Although only slight and transitory in one case, usually of melancholia simplex, delusions are found in all, except in the "thunderstruck" or st uporose, where too, they doubtless exist. In some they concern the religious feelings and ideas; the patient fancies that he has done some wroug, or is forced to do it by his surroundings, or, cut off from hope of heaven, he bemoans his "poor soul," and has anxious, gloomy thoughts of the future. Some take the delusion that they hare been poisoned, and usually hy something placed in their food, and delusions as to their medieine, or in a few, as to deprivation of food, may be evinced. Some have delusions as to the hostility and malerolence of those around them, or of absent or of imaginary persons, or of all of these.
(To be continued.)

## THE DIFFICULTY OF DIAGNOSIS BETWEEN DISEASE SYMPTOMS AND DRUG SYMPTOMS. ${ }^{1}$ <br> By ALFRED CARPEJTER, M.D., M.R.C.P.

The difficulty in diagnosis between symptoms produced by disease and those produced by drugs is not always an easy task to settle even by experts. It is not always easy in the police cell to distinguish between a so-called "dead drunk" person and one who is labouring under the effects of compression of the brain, caused by rupture of a cerebral ressel, or of compression produced by fractured skull. But this is not so difficult as is the task which the physician has to contend with, when called in to adrise with another practitioner who has been freely exhibiting active remedies before the second opinion is sought for, or when the patient has been physicking himself with ardent spirits or other narcotics.
IIaving met with these difficulties on sereral occasions, I propose to consider one or two of them, and to detail to you some that 1 have met with in which the treatment, having been based upon imperfect information, was rapidly tending to poison the patient, and certainly would have done so if a change of treatment had not been made. The use of the thermometer, a careful examination of the heart sounds and the character of the heart's impulse, the condition of the respiratory function, the state of the skin, the action of light upon the pupil, and the smell of the expired air from the lungs, will always enable the skilful surgeon to be certain about the police case, unless, there is drink and compression combined (not a rare state of things). It is always right to err on the safe side, and to give the patient the benefit of the doubt, if there is any; though it is very unlikely that scvere mischief can be produced to the brain, even if the man be drunk. without there being some evidence of its nature, if it be looked for. However, it is not my intention to enter into the consideration of police cases, so much as to refer to some other conditions Which the medical practitioner occasionally meets with in the
sickroom. sickroom.
A paper read to the British Medical Temperance Association, Tuesday,
February 21 st , 18ss.

I propose to rletail two typical cases for your consideration, just as I met with them, but for manifest reasons giving no jublic clue to their whereabouts

The first was that of an eminent merchant with numerous family connections, 65 years of age, a bon virant, well known as n hospitable host as well as a genial guest. I am at his bedside in consultation with his ordinary medical attendant. Ite is semicomatose: he has been so for twelve hours. His friends have been summoned from different parts of the country in the expectation of his death. There is general anasarca, some oppression of breathing, but a fair pulse, regular in its beat, 78 per minute; there is an aortic murmur with the first sound of the heart, but not very loud. The patient was able to be roused if spoken to loudly, and then dimly understanding what was said to him, hut lapsing again into stupor; the eyes responded equally to light, and contracted to a point, equally dilating again on its removal: the conjunctivæ were turgid, the skin dry and felt hot, but the temperature, as taken in the mouth, showed that it was below normal, namely, $97.8^{\circ}$. The urine was rery albuminous; the bowels had been freely relieved, indeed there had been slight relaration for some time previously to the onset of his semi-coma. He had complained of feeling faint when the bowels acted; had for some days taken freely of stimulants, principally champagne and brandy, and since the previous day had swallowed about twenty-four ounces of the latter. He had passed at least three pints of water in the preceding twenty-four hours, and it was dribbling away slightly into the bed at the time of my visit. A catheter was introduced into the bladder and a portion drawn off, which was seen to contain about a quarter albumen after boiling. The comatose condition did not appear to me to be caused by uremia, as there had been no arrest of urinary secretion, but the contrary, and there had been also relaxed bowels. The faintness was not caused by any serious heart embarrassment, for that organ, though probably fatty, and with aortic ralves imperfect in consequence, as I supposed, of atheroma, was doing its duty. I came to the conclusion that the coma was rather the sequence of alcoholism than that of uræmic poisoning. I advised the cessation of the brandy treatmeut, which had really been pressed by the friends and nurses rather than the doctor, because it had been advised some time previously by an eminent London physician. I adrised the administration of ammonia in its place, in minute quantities, with liq. potasse, also in small doses. I urged the continuance of intestinal eracuations by means of assafoetida injections with small quantities of turpentine, and suggested a milk diet only. The following day the coma had lessened. It disappeared in fortyeight hours, and symptoms of gout manifested themselves a few days afterwards in the hands and elbows, whilst the respiratory difficulty diminished. The patient made a fair recovery in a few days from the imminent danger in which he was placed, and the anasarca lessened. He had howerer too much gont in his kidney, and atheroma in his aorta, to become convalescent; thoughhe lived for four years after the time at which he was being rapidly poisoned by alcohol. The belief that the coma was due to the brandy, and not to the presence of uremic poisoning, was thoroughly established by the result. Fortunately the kidneys did not immediately resent the excessive intrusion of the stimulant, for they continned to act freely, though the water was albuminous as long as he continuted under my observation; the general dropsy decliued, the aortic insufficiency however was not improved, and he remained for a long time incapable of exertion, though he did recover so much as to be able to take his place at the dinner-table again, and ultimately fell a victim to the renewal of his social habits of life, and a return to the pleasures of the after-dinner wine.
In this case, as in some others which I have met with, the aortic insufficiency has seemed to me to hare been dangerously added to by the alcohol; and that in such cases, especially when there is gouty habit with albuminous urine, it seems to produce its comatose tendencies more rapidly than in other people, and in such cases I believe that all alcoholic stimulants should be rigonously withheld. This patient had been advised to take gin, by an eminent London physician, and for some weeks before the time at which I saw him had taken something like a pint a dar, in the place of the port and brandy to which he was addicted. He could not or would not contimue an abstaining course, for he preferred his port wine and obliviousness to disecmfort and continuance in the flesh, though 1 am certain he mould have lived some time longer if he had followed on the other tack, and even might have had a chance of recorery if he would have continued his absti-
nenue, and have avoiled those canses which tended to prodnce aheromm; for a kind of gluttony was indulged in, as well as a liking for wine.
The second case is altogether difierent in character, but quite 10. Marked. (f) It is thint of a young student who is working at his college; he bones home in conserfuence of inability to continue his mental labour, and with a feverish nttack. Ile lecomes ill, and 1 see in Linu what is considered to be the liftly day of an attack of typhoid fever. he is restless, has severe hemuche; his ejes are brilliant, and pupila somewhat inactive to the stimulus of light; his skin phes and temperment leucophlegmatic. Ifo has not slept much tor onme, weok or two, and talked a little at random on the precoling uight. His pulse 102 , running and thready; temperature $1024^{\circ}$; tongue very moist, but little turred, and slightly swollen. Ho is not particularly thirsty. There is some tympanites; skin shy: bowels confined. He lard romiting for a day or two at the dirst commencement of fover, but the sickness is gone, and he does not care for food, though he enjoy: colld drinks. The urine somewhat seanty, high-coloured, but loaded with lithates, and nonalbuminous. 1 regarded it as one of those cases of typhoid in which cerebral symptoms were likely to develop, very rapidly, in fononsoquence of the brain having been over-excited and not pmifying, itself, from the consequences of its work. Erery case of this hind which ] have met with which had heen treated with stimuhants lad died, sometimes after violent and continuous delirium, l,ouding in subsultus and unconscionsness for twenty-four hours - or more before cleath. -1 I advised, therefore, that all alcoholic beverages shond be laid ande, and the case treated with salines, bromide of potassium, and milk: whilst we should relieve the loaded bowels by gentle uncmal, lut watch for complications. The heart sounds whe were uncomfortable at so early a stage of the ferer.
Thu case, after two or three days of suspense, ran a satisfactory course; the bowels were relieved by slight laxatives, the restless-- ness subsided, fair sleep was obtained, the characteristic rash came outabout the uinth to the fourteenth day, with slight diarrhicen; the tumid abdomensubsided, the tongue lost its, swollen character, and on the nineteenth day (when I saw him for the third time) was clean. The temperature $99.8^{\circ}$, the skin acting freely, and the appetite beconuing more keen, so much an ithat llaid to the mather." "lu two or three days you will $\because$ e altogether, out of the wod." "Two days afterwards I had a telegram, saying, "Come as quick as possible: my boy is dying." I went that afternoon. One ofihermedical attendants met me at the station, and said at once, a l don't know what has produced the condition, but 1I. is comatose. He was very oxcited yesterday, wanted to get up and go out, insisted upon doing various things, was violent in the atif was). to-day has been unconscious since 10 A.s.. (this was aind mon-resistent when the finger was placed on them, the pupgil, were contracted to slushed, and the patient took no notice whaterer of those about him, but the pulse was full and steady (38), not like to that of a lying man, the heart-sounds normal, the breathing steady, hat inclined to stertor. The bowels had acted freely two or three times the day before, and there had been a free secretion of urine, and it continued free from albumen. The two dave had been taken several times since my risit the night it was $93^{\circ}$ only, yesterday it sank to $1 / 6^{\circ}$, then in the evening it was $9 \% 8^{2}$, and now I find it $96.2^{\circ}$ ? The medical attendants had virwed this fall of temperature with some alarm, and, acting upon an implied consent to the administration of alcohol, had allowed him to have charupagne the day before, with tho natural result of a still lower temperature. Since last niglit he had had eight ounces of brandy in addition to the half loottle of champagne which he had insisted upon having, and which fact the nurses had not communicated to the medical men in attendance. The error arose from my inadvertent consent to bia urgent entreaty that he should be allowed a little claret and Watermithe occnsion of my third visit. He had had that claret and mater: it gave him a restleas night, rednced his temperature below the normal standard, and, from a mistaken idea that alcohol would elcrate the temperature, it was administered more fretly the next day. The restlessness and excitement were increased those symptoms were looked upon as reasons for increasing the dose of the stimulant, until at length its narcotising properties
were forthcoming. l'erhaps he might have slept off thit effects, and have recovered in spite of the treatment, was then in that case would havefully considered all the point. with his medical attendants in another room, I cane to the conclusion that the coma was caused by his socalled remedies. I went back to his bedroom, and give how ure you?" lle heard me, and opening his eyes looked at me with a tijpsy leer, said, "Oh! is it you ?" and lapsef again into insensibility. I was quite satisfied as to the condition, but felt myself on the, horns of a dilemma. However, I asked his medical any retlection upon their treatment, having pointed out casting the real state of the case. It was my duty to restore the patient, not to mako reflections. I saw the mother downstairs; I told her that of course there was jeopardy, hut that 1 thought the dangtr more apparent than real; that we should discontinue the stimulants which had been given, as not being efficient enough to meet the severity of the case, and that. I proposed to give him a more poweriul remedy-a single drop of the strongest liquor ammoni: every half hour. I adrised that he should be made to swallow a.
much liquid as could be managed in the form of tea and milk ani potass water, and with managed in the form of tea and milk and morrow that he had recovered his consciousness, and that le would be restored to her as I had promised on my preceding

There was no idea on the part of the parents as to the error that the nurses, rather than the doctor (for there were two experiencerl women in charge of the case), had committed, and I had the pleasure the next day of finding my anticipation correct; the coma was gone, headache and malaise alone remained, the temperature had risen to $98.4^{\circ}$, there was slight tumidity over the abdomen, the bowels, had not acted, but the tongue was most,
little whiter than normal. He had slept, however, for some half-anhour at a time after several small doses of bromide of potassiumand two lays afterwards was sitting up in bed, and suffering from nothing but a ravenous appetite and general debility.

I have brought these typical cases to your notice for the. purpose of showing that one must not always assume that thr symptoms in the case are those of the disease which you are called upon to treat. You must ask yourselves whether they ar ${ }^{\circ}$ masked by previous trentment; patients and their friends will treat themselves before the doctor is sent for, and in casein which a consultation is songht for, either at the instance of the medical attendant or of the patient's friends, the former may have exhibited larger, doses of powerful remedies than he is aware of, and the symptoms of the remedy may be masking the character of the disease. I have seen this in at least, two cases in which belladonna had been given in excess. Narcotics and stimulants are the most usual medicines which hava, been pre-
scribed, especially the later scribed, especially the latter. The reduced temperature, the
moderately quick pulse. the contracted pupil the flushed con tive, the dry skin, and the headacle, may all be added conjunctiree, the dry skin, and the headache, may all be added to or pro-
duced by the remedy used: and cause erroneous views as to mature, prognosis, and the diseas. and cause erroneous views as to nature prognosis, and necessary
treatment. We can only act upon the information affond if rleceived, either wilfuldy or by ugnorance, it is the patient who suffers as well as the reputation of the physician who is consulted.

I am satisfied that it is far better to allow disease to run it course in a natural way, and to pilot the case through the blool storms which the disease may be setting up, rather than by rendering the nervous system less sensitive to the influences of disease by deadening the activity of those nerves, and whilst
deatlened deanened allowing disesse to establish itself, and so organic pears to me to be the effect of the alcoholic treatment of diansi It is hetter for the patient to endure the discomfort, and ultimately get quite well, than to be oomforted, as it is called, by th use of intoxichting liquor, and so allow real diseaso to. gion standpoint, insteal of treating upset which arises from the func tional disturbance caused ly the determination of natural laws $t$. assert their predominance, and so to lead to a perfect cure.

Dln. P. Mrlls has hean appointed Librarian to Guy's IIospital.
The Jootle Town Council have increasel the salary of Mr Robert J. Sprakeling, the medical officer of health, from $£ 100 \mathrm{t}$ \&120 рет annum.

# ABSTRACTS OF THE MILROY LECTURES SOME GENERAL CONDITIONS WITH REGARD. TO EPIDEMICS. 

Delivered at the Royal College of Physicians of London, February and Warch, 1858.

By ROBERT LAWSON゙, L.R.C.S.ED.<br>Inspeetor-General (Retired) Army.

## Lecture IV.-Cholers.

Clinical Resemblancer between Malignant and Summer Cholera -The Jecturer first observed that similar difference of opinion as to the mode in which cholera was propagated existert, as in the case of yellow fever; one party holding that it was highty contagious and always transmitted from man to man, the other that it was deroid of contagion, and depeuded on local causes. He considered that cholera occurred under two forms, choletia mostras, or summer cholera, and Asiatic, Indian, or, as he preferred to call it, malignant cholera. Cholera nostras appeared every summer to a limited extent; malignant cholera, in temperate climates, as an epidemic ad vancing over new ground in successive years. Though typical cases of the former could be readily distinguilshed, sporalic cases were net with presenting the characters of the malignant disease so completely that if observed during an epilemic of the latter, they would be accepted without hesitation as typical examptes of it. Such cases sometimes occurred in small groups, but were not invasive, and for this reason, and because they cannot be affiliated to a previous case, those who logld the theory of contagion do not admit them to be examples of malignant disease.

Epidemics without Importation.- Epidemics had, however, occurred where thie most careful inrestigation by experiencel observers bad entirely failed to establish any history of communication. In instance of this was, the considered, afforled by the outhreak at Southampton and Theydon Dois in 1865 when impartially studicel. The circumstances were investigated by the late Dr. Parkes, whose summing up, with regard to the epidemic nit the former place, was: "The origin of an unknown epidemic influence, alone or concerting with local, conditions, presents formidable dificulties, even if we cannot quite reject it. The origin by importation is deficient in precision of evidence." Another instance was that of the epilemic which commenced in New Orleans in 1873, and extended up the valleys of the Mississippi, Ohio, and Missonri. The Board of Health at New Orleans, after most mimute cxamination of every circumstance connected with the shipping, came to the conclusion that it had not been imported, and Surgeon Van Buren ILubbard, United States Irmy, who had made an investication for the Gowernment, stated that it, had " been found utterly impossible to establish the arriral of indiriduals who were personally affected with cholera." The outbreak of cholera without inportation being admitted, it could not be maintainel in other instances where an outbreak had been preceded $\mathrm{J}_{1}$ y the importation of cases of cholera, that the epidemic was prorluced by them unless local causes could be excluded.

Epidemiological Relations of Malignant and Summer Cholero.Cholera.nostras was not a disease depending on the warmth of summer, or the abundance fruit. The.English, the Scoteh, and the French returns, when examined for sufficiently long periods, showed that the fregueney and fatility of cholera nostras rose as the country was approached by the epidemic malignant disease, and fell again as it passed on. The military returns taught the same lesson for other parts of the world. There therefore appeared to be the same kind of connection between cholera nostras and matignant cholera, as betwen benign plague and plague.

Choleraini Tudia.-Fecent investigations had rendered it doubtful whether the district of lengal, which the late Dr. Bryden had described as tho eudemic, area, was the only one which existed even in Iudia. Dr, Bryden had concluded that the spread of the disense from that area was governed by the, metporological conditions prevailing at the time, the materies, morbi being airhorne: he was further lead to infer that this materies existed in two forms, one in which ita phthogenic properties trere filly dereloped, the other in which these properties were only poten-
tial. This potential materies was oftem deposited far in adrance
of the epidemic, and took trelve or fourteen days to develop under farourable circumstances, but at the end of the cholera season might remain dormant for months, until the return of that season when, like other forms of vegetation, it would develop its potentinl pathogenic properties.

Cholera at Sca-From the examination of cases of cholera occurriug on bard coolie ships, and on eertain inlands and seaconsts in the Indian Occan, it apprared that the cholerific factor was active from 1872 to 1874, over the sea from Sumatra to the snuth-west as far as Mauritius, while over the granter part of Hindustan it was inoperative, and the disense had ahmost disappeared. This frequency of cholera over the sea ceasen sudfenly in 1575, and coincidently the epidemic spread over Hindustan from Cape Comorin to Lhhore; Ceylon being affected before the mánland, a most unusual sequence.

The lecturer had collected a large number of notices of outbreaks on board ship in the Itlantic and Indian Oeeans : they show that the choleraic influence, when it exists, is midely diffused in the south-western part of the Indian Oeean, and that there mas a prevalence of choteraic diarricea and sporadic cases of cholera in 'ape Colony and Natal some' months before epidemic cholera appeared nearer the equator. Special reference was made to the cases of the Nor Tork, from Harre to New York, with German emigrants, and of the Sivanton, from the same port to New Orleans, also with (ferman emigrants (1, + , ) . Cholera broke out on board both vessels. After relating the particulcts of these. outbreaks, the lecturer istid:-" The qnestion arising out of these occurrences at the time was, How did the passengers in these ships contract cholera in the middle of the Atlantic? One body of epidemiologists said the cause of the clisease had been brought from Germany in clothing, and was commmicated to those who wore it, after being unpacked, on Yovember 2tth. Thotigh the narrative is wanting in many particulars as to localities and dates'we slould look for now before coming to a conclusion on the subject, it might have been accepted then had the New Fork only been affected; but it was quite inapplicable to the Sivanton, which had not had cold weather on the 2tth, nor any overhauling of chests for warm clothing. Another body of epidemiologists, seeing that a change of wind to the south-east took place with both ships hefore cholera appearen, were of opinion something must have been conveyed by the wind to canse the clisease in both, but where it ca me from they were unable to indicate.

The Influence of Winds.-The remark of the captain of the Suranton that it Was " more like artificially heated air than anything else,"aftords a clue to the mystery that now enables it to be explained. Anyone who has experienced an hot wind" will sae at once this is what he describerl; but as a hot wind always originates over arid land, how could such a wind have been experienced from the south-east at the place where the Sivanton was, from which a south-easterly line wonld pass thrbugh the South Atlantic dear of all land? The wind was really from the desert in North Africa. In Novenber, when the north-east trade wind is being restablished over the northern Atlantic, it reaches to $60^{\circ}$ north: and about long. $30^{\circ}$ west and lat. $20^{\circ}$ north at this season winds are frequently experienced of the character described ly the captain of the Suranton, and, in addition, often bearing red dust in such quantity as to cover the satils and rigging of passing vessels, leaving no doubt as to where they originated, and illustrating their transporting powers. Such a current of air which did not combe to the surface of the sea, but continued to fow at some elevation above it, would retain its peculiarities for a lons time: it would pass to the inner limit of the trade wind, abont $6^{2}$. north at this season, and then, rising in the atmosphere as the air of the trade does, will then double back to the north-west. hecoming a southcast wind, and' would reach the sioanton as sneh as describerl above. In November, I848, when these occurrences took place, there had heen cholera in Egypt and along the north coast of Africa, and with a moderate velacity of twenty miles an homr. the wind might have transported cmanations from that to the Sranton in from ten to twelve days; and, if to her, there is nothing unreasonable in the inference that it was capable of transporting them to the continent of Imerica itself, which really secems to have taken place on many occasions.

An Air-bome Miasm.-This transport of the exciting cause of cholera by, a current. at some eleration in the atmosphere, and stparated from the earth's surface by a thick stratum of air which may either be motionless. or forming a current fowing. it may be.
in a different direction, plays a frequent part in connection with the manifestation of that disease. In reading accounts of the circumstances preceding the occurrence of isolated outbreaks in ludia, one is struck by the frequency with which these immediately follow a thumder storm, or a heavy fall of rain, or even $n$ dust storm, all of which bring a portion of the higher strata to the ground. and with that, of course, whatever material it may contain; this sequence is quite as remarkable at the elevatei mountain stations as in the plains, and, ns was the case at l'eshawar in 1862, this was repented no less than four times between July Th and Xovember 3rd, causing a distinct outbreak of cholera on each occasion.
Ships as Infective Areas.-Ships helhaved towards cholera in much the same way as towards yellow fever. In some cases, even when crew or passengers liave gone on board infected with cholera, the disease ceases nfter a few days at sea. In other cases the ship hecame a focus for cholera, so that not only those on board, but also others who came within range of the emanations from her contracted the disease. This lad taken place only in crowded emigrant ships, and in them the steerage passengers alone were affected. An example was afforded by the England in 1866 : out of 1,059 steerage passengers from 280 to 300 died, but none of the cabin passengers were attacked.

## HISTOLOGICAL MEMORANDAA.

THE "PAL-EXNER" METIOD OF STAINING SECTIOSS OF the central vertous systey.
This, like the " I'al-Weigert" method deseribed in the Journal of March loth, is a new and raluable modifieation of an older method. As taught and practised in the lahoratory of the Pathological Institute in Vienna, the method is as follows:-
The fresh brain or other nerve tissue to be examined is divided into small cubes or pieces and hardened for two days in a watery solution of osmic acid, which latter must be changed at least twice. The hardened tissue is then washed carefully in water, and dipped for about two seconds into absolute alcohol. It is then embedded in wax mass or celloidin, and sections from the block are cut by a Rivet-Leyser or other mierotome direct into glycerine. From the glycerino the sections are transferred to water and thoroughly washed, and then they are dipped into a one-fourth per cent. watery solution of potassic permangamate for from ten to fifteen seconds to differentiate them. They are further decolorised in "l'al's solution" (oxalic acid and potassic sulphide of each I part, and distilled water 200 parts). The sections may now, after being washed in water, be stained further in safranin or picrocarmine, the process being completed by deliydration in absolute alcohol, clearing in creasote, and mounting in Canada balsam.
One great advantage this method presents is that, while retaining all the value of the original osmic acid method of P'rofessor Exner, it enables the sections so prepared to be kept for future reference. From personal experience 1 consider it a distinct advance, and likely to prove of great sersice in further investigations on the minute histology and pathology of the nervous system.
For furtber details regarding this method I may refer to Dr. J. Pal'a original and excellent paper read before the Imperial and Royal Society of lhysicians in $V$ ienna, in which he deseribes his modifications of the methods of Professors Exner aud Weigert. London, w.

## OBSTETRIC MEMORANDA.

## Stoppage of hamorrilage in a case of placenta PRAEVA BY TUE EARLY APPLICATION OF

FORCEPS
1 think the following case may be of interest. On my arrival I found Mrs. S. in labour with her seventh child, and almost morilund from hemorrhage. On examination by the vagina the os twas found ahout the size of a five-shilling piece, and completely oecluded by the placinta, which was adherent all round excepting anteriorly; where the membranes could be reached. Having ruptured the membranes and partially detached the placenta, I waited a little time, in the hope that the hemorrhage would cease, but, lieing disappointed, I determined to apply the forceps, fearing
version would canse instant death. This was accomplished much more easily than was anticipated, and I had the satisfaction of finding that slight traction controlled the hemorrhage. I continued which time I fed the patient whis purpose for three hours, during end of this time the patient showed signs of rallying. At the was a return of uterine contraction. The child was born in there half an hour, and the patient made a good recovery.
G. H. Warren thomas,

Teignmouth, Deron.
L.R.C.P.Lond., 1.R.C.S.

## CLINICAL MEMORANDA.

SCARLET FEVER IN A SUCKLING NOTIER.
A FEW weeks ago I attended a lady who had been contined about six weeks, and who had a copious scarlet fever rash on her chest, ablomen, etc., at the time that I first saw her. She had nursed her haby up to within a few hours of my seeing lier, although she had felt ill, sore throat, romiting, etc., and was struck with the fact that the milk, which had been a bundant, had failed rapidly after she first began to feel ill. There had been a case of scarlet ferer in the same house a few weeks previously. Both patients went through the usual period of "peeling," and recovered perfectlyThe child showed no signs of the ferer, and was merely a little upset by the sudden Teaning that ras, of course, necessary.
The patient's breasts mere quite flaccid, and, apparently, littleor no milk was secreted after the first onset of the disease, nor did it return when the first few days of fever were over.
The enfire immunity of the child and the rapid disappearance of the lacteaI secretion are. I think, worthy of record, although I anm a wrare that such cases hare been frequently published before.

## Clifton.

Barclay J. Baron, M.B.Edin.
HOW DO ROUND WORNS CAUSE CONTULSIONS?
It is well known how often round worms cause conrulsions, and even death. The way in which they act, however, does not seem to be clearly understood. Eichberg (Jounval, October 31st, 1855, p. 842) mentions cerebral effusion, but in a case recorded by me (Journal, January 9th, 1886, p. 66) I found the brain perfectly healthy. The following case seems to suggest a more mechanical explanation.
On January $21 s t, 1888,1$ was summoned by the police to view the body of A. B., aged I3 monthe, who had died suddenly. At 9 the evening before, she was attacked with short quick breathing. She continued in the same state all night, and died at 10 the next morning. There was no vomiting. The necropsy showed the ascending colon tristed on its long axis about four inches beyond the ralve. Above the constriction eaused by the twist the bowel was distended with flatus, the mucous membrane reddened, and the solitary follicles rery prominent. There was a considerable freal accumulation in the cecum above the twist, but the rest of the large intestine mas nearly void, except of some flatus. On
diriding the perite diriding the peritoneum over the ascending colon, the bowel resumed its normal calibre. There trere a few round worms in the small intestine, and one in the stomach. The other viscera were healthy.
The next day, January 2 nend, the cousin of the deceased, aged 3 years, was brought to me with precisely similar symptoms, namely, short quick breathing and apparent unconsciousness. It was passing round worms. Under castor oil and santonin thesymptoms ranished in two days.

It seems fair to suppose, from the necropsy, that the symptoms in the first case were reflex and due to the twist of the colon, and that this was caused by morements of the worm or worms. Whether there was the same mechanical condition in the second case, followed by untwisting of the bowel is, of course, a question.. beaven Rake, M.D.Lond.,
Goremment Medical Officer, Trinidad

## A CASF OF MIXEDEMA.

F. M., aged 31, but looking ten years older, who used to be 8 domestic servant, has been ill for about five years or a littlemore. She had rheumatic fever about nine or ten years ago, and was told that she had "cardiac dropsy"-that is, her present illness. The swclling was the first thing noticed; it began first in her linnds, and after some time in the face around the eyes. She used to menstruate regularly up to the time the swelling commenced, but has not done so since. There is no history of any
mental or nervous shock, nor of any other assignable cause. She never suffered from menorrhagia or such nterine hcemorrhage, nor were her periods too profuse; and she has never had "whites." Ifer bowels act regularly, but she is subject to severe attacks of diarrhaza, which occur, sle says, about once a montl. She frequently suffers from indigestion, with headache and giddiness. Ifer urine was never dark-coloured, nor had she ever to get up at night too frequently to make water. She never feels too cold, though her hands occasionally get cold. She says her vision was dim at the beginning of leer illness, but is now normal. From the commencement of her illness she has decidedly noticed herself becoming rery slow and heavy in all movements and actions, and very readily fatigued. Her memory and intelligence seemed very fair. Ifer appearance is very striking. The face is large, broad, waxy, and pale, like that of chronic Bright's disease. Swelling is marked in both eyelids, and especially in the upper; the mouth is large and the lips swollen; the lower lip is of a purple colour. The cheeks are not fushed. Her eyelashes and eyebrows are normal, her hair coarse and shaggy, and abundant. Her tongue is large and flabby. Her speech is deliberate and somewhat slow, but quite distinct. The front upper incisors are gone, and the lower ones decayed and loose. Her hands are broad and much swollen, both the fingers and the backs being much swollen, but not pitting on pressure. Her feet are even more swollen, so that she cannot get shoes to fit her, and has to wear stockings and cloths around them. Her belly was enlarged some years ago, but is not much so now. The nose is much swollen, especially at the ala, which are of a purple colour. The ears are very large and swollen. The swelling came on gradually, and gravitation does not seem to have any effect on it, nor is it altered at njglt or morning, being always about the same. The heart-sounds are weak, but normal, and the impulse feeble. The pulse is 108 ; the temperature normal. Sensation is good and not delayed. The knee-jerk seemed absent on both sides. There was no clomus. There was decided occasional rotatory nystagmus. The specific grarity of the urine was 1,024 ; no albumen with heat, nitric or picric acid tests. The optic discs and retina were normal, but the retinal arteries were tortuous at either end of the disc.

Ebbw Vale, Mon.
Fred. Tresilian, M.D.

# REPORTS <br> HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUAS OF <br> GREAT BRITAIN, IRELAND, AND THE COLONIES. 

## ST. MARY'S HOSPITAL.

HETENGIVE CARBUNCLEA TREATED BY ERASION: RAPID CONVALESCENCE.
(Under the care of HDMEND OWFN, F.R.C.S.)
[Reported by Mr. R. H. CoLe, Dresser.]
THE patient was a thin, unhappy-looking man, aged 55, a carpenter by trade. Ile had been out of work for some time, and had not had enough to cat. He was admitted on December 9th last for earbuncles over ench shoulder-blade. They had been developing lor about three weeks, the right sore being about four days older than the left. The long diameter of the right sore was five inches, ind beyond that limit the skin was undermined; in the depths of he sore was a large slough bathed in offensive pus. The left sore was rather larger than the right, but the slough was more adierent, and more covered by bridges of dusky skin. The man was itterly prostrated; the urine, specific gravity IO0S, contained rither albumen nor sugia.
Nr. Owen at once ordered his remorill to the theatre. where, ther having been administered, Mr. Callender, the house-surgeon, et to work to remove the sloughs and to scrape out the sores : here wis hardly any bleeding during the operation; no vessel had o he tidd. The undermined skin was trimmed, and divided by adiating incisions, so that it might not retain dischmoges, and the revice under it was thoroughly clenned out with Volkmann's ponu. The surfaces were then washed with the mercuric solution in in 1,000 ), dusted with iodoform, and covered with moist perchloine ganze and with bulky pads of blue wool. Brandy and other onices were subsequently prescribed, and the man made a rapid
convalescence. From the day after the operation le began to pick up, and was soon a different man.

Remarks by Mr. OWRN.-Some months ago I read, but I regret to say tlat ] do not remember where, some remarks upon the treatment of carbuncle by erasion, and I determined to make trial of the method on the first opportunity. But when I saw this prostrate carpenter with his two lurge carbuncles, and heard how he had been out of work and unable to get sufficient food, I wondered if he could offer a fair test for the method. However, 1 determined to try it, and was afterwards extremely glad that I lid so. I Iearing that my colleague, Mr. I'age, is publishing a clinical lecture upon the subject, I thought that I might report this solitary case uncler its sladow, rather than wit for fnrther experiences of my own.

Anthrax is, in its pathology, closely allied to certain cases of acute osteitis or periostitis, in which intlammatory distension of capillaries determines the death of a portion of bone: in the child, possibly, of the entire diaplysis. In anthrax, the dead tiseue is called slough: in necrosis, it is called sequestrum. In reeent years the surgeon has been constantly on the alert to separate the dead bone from the living, and so to diminish the risk of secondary abscess and pyrmia, to improve the chance of reproduction of new bone, and to shorten the course of the disease. He has even gone so far as to give a new name to a disense. "acute necrosis," so as to justif $J$, as it were, if justification be needed, his surgical attack. Necrosis, however, should not be considered a pathological entity, but rather as a result of disease. In removing a piece of dead ( $\%$ ) bone before a line of demarcation can be seen, there is always a risk of taking away too much or too little tissue. But in the treatment of carbuncle by scalpel, forceps, and spoon, this risk is absent; the surgeon sees exactly where the grey slough borders on the living tissue. I apprehend that within a few days after the occurrence of the acute inflammation, there wonld be little difficulty in determining the limits of the slough: and 1 regret that I did not see this patient at the beginning of his illness, for, after making the free crucial incision which is so necessary for the relief of tension and pain, I would, there and then, hare been prepared to separate the slough and clean ont the cavity. I think there is less likelihood of harm from too early interferenco in the case of antbrax than in "acute necrosis:" aull amstrongly of opinion that the radical treatment of the former condition is a distinct advance. It is a great matter to be able to conrert a septic and a painful mass into an aseptic and a painless one: and the removal of the decomposing slough, at the earliest possible moment, must be the means of shortening the natural process of the disease by several weeks. The sudden and rapid improvement of this patient immediately after the operation was a thing to be remembered.

## GOVERNMENT LUNATIC ASILUM, MADRAS.

## A CASE OF CYSTICERCUS CELLULOS.E OF BRATN.

(Under the care of Surgeon II. Armstrong.)
A native coolie, nomed Lonala Yenavado, aged 23 , was sent as a criminal lınatic from Nellore Gaol on September ISth, I88\%.

Surceon-Major Price had the patient under ohservation in gaol, at Vellore, and reported the case as one of clronic dementia, the history and antecedents of the man being unknown.

On admission into the asylum he was observed to be a harniless imbecile, in a fairly well-nourished condition, weighing 128 los., suffering from riglit hemiplegia, and unable to give any account of himself. There was no change in his condition until October 9th, when he had an epileptic fit. which passed off soon. The following day he had three fits of the petit mal type, and then an interval of seven days withont any. On October I8th a very severe fit was followed by shorter ones of increasing intensity, ien being counted in one hour. Surgeon Armstrong ordered him santonine and castor oil, which brought awray a mumber of round worms. Bromide of potassim was also administered, but the fits continted daily, and on Octover 30 th be became comatose, and died in the evening.

A post-mmtem examination revealed the presence of active inflammation of the membranes at the base of the brain. the dura mater being very acherent to the cerebrum, and the surface of the cerebrum und cerebellum studded over with small cysts. On making a section into the braiu, cysts were found in the rentricles, and in the grey or cortical structure. One was found in the left ventricle of the heaxt, and two on the pleura of the ricrlat lung, the other orgins being healthy and free from eysts.

The eysta, on examination, were found to dontain a minute worm, which under the mieroscope proved to be cysticercus cellh-tone-a specimen of whicli was exhibited under the microscope at the meeting of the South Indian Branch, November 'Ath, 1857, at Madras.

RFminns.-The case is of interest chiefly on account of the tarity of cysticercus cellulose abont Marlas, and it is to be regretted that the history of the patient is unknown.

## REPORTS OF SOCIETIES,

## 1'ATHOLOGICAL SOCIETY OF LONDON. <br> Tuesdat, March $20 \mathrm{TH}, 1888$.

Sir James Paget, Bart., F.R.C.S., F.R.S., President, in the Chair. Osteitis Deformans.--Specimens from a case of osteitis deformaris were shown by Dr. J. F. Gondhart. The patient was an ostler, aged 6.7. Mis head was enornous, his hody slight. Ite had been ill for four months. For tifteen years his head had been growing larger ; it had gained two inches and a half in circumference in the last year. The head was enormously large and bossy; the bones of the limhs were curved. On examination after death. the skull. clavicles, vertebre, and ilia were all found thickened and rurefied. The long bones were bent, but not otherwise diseased. In the liver were fleshy, probably cancerous, tubera, and the glands in the fissure were large. The pleura contained some notules of growth. The spleen was enlarged, resembling the " hardbake" spleen of Hollgkin's disease; the growths in this organ were probably lymphomatons. The association of ITodgkin's disease with osteitis deformans was curious and unusual, and illustrated the inveterate tendency to cell growth in osteitis deformans. He combatted the theory that osteitis deformans was a local disease, and urged that the occurronce of rarefying ostcitis agreed as well with the theory of tumour.Mr. Eve askerl whether in this case there was any evidence of general calcareous degeneration. In one instance which he hat seen, calcification of arteries and ligaments had oc-curred.-Mr. Cr.ctrox said that he grounded his argument in farour of the view that the disease was a rariety of osteitis on the fact that in his case the bone was elongated. If the theory of cancer was true, there ought to have been more cases of the association of osteitis deformans with cancer.was hypertrophy of hones and of soft tissues. In the disease described in France under the name of "acromégalie," there was a very extensive bony enlargement confined to the hands any feet. -The Presidest saill that "acromégalie " was a widely different disedse: it did not affect the long bones nor produce bending. There was a remarkable enlargement of the bones of the face, hands, and feet, which orergrem, but the relations of the parts were maintained. The number of cases in which cancer was associated with oateitis deformans was more consillerahle than Mr. Clutton had said. Still, he thonght the asosociation accidental, for he had watched many cases for years where osteitis deformans was well markell and yet cancer had not ensued.-Dr: Scmicel Wilks said that Dr. Fagge had described a case of "acromégalle," though he hall not thought it necessary to give the combition. a mame; in that case there was a tumour in the hrain--Dr. Scmser Corplivi mentinned the case of a man who had heen seen by the I'resident and l'rofessor Tirchow; the face and hands were enormously pnlarged; this was five or six years ago. lrofessor Virchow had not seen a case of the kind, lont recalled an instance mentionch in a swiss journal-Dr. Fromirsitr said there was no calcification. IIe thought that Mr: Chutton had unlerrated the frequency with which osteitis deformans was associated with cancer: in his own experience half the cases of osteitic deformans also suffered from cancer.

F'urrerts on Nails.-1)r. Wilks showed drawings of furrows on the mails in a man aged 50. On August 2nth, 1R87, he sailet for Amuricn, and wa, rery sea-sick forthree days. He then completely rucover.l, and so remained until he sailed for home on October 1-4th, $18-\frac{1}{\text {, anil }}$ was ill aguin for three day:. Two furrows sulse(qumenty appeared on his nails, which exactly corre eponded with the lates of the sea-sicknes. He had described the production of these furrows in a paper published abont twenty years ago. As to the exact pathological meaning of this arrest of growth he felt somewthat unnurtain. Saveral curinua coaes had loan communi-
eated to him. Mr. Wagstafie harl described to him the case of a man whose arm was kept in a splint for some time, and the furrow had mentioned the case of a laly in whom the young hairs of the head lost their pigment whenever she had an illness. It was said that the number of calves a cow had had coukl be told by counting the rings on the horns, one ring being proluced for each ealf -Mr. Bland Sutrox said that a gentleman who had studied the appearance of wild birds had told him that after a severe winte the feathers were stunted, and that if birds kept in confinemen were badly fed the feathors were stunted and ill-shaped wher they appeared after the next moult.-Mr. Buls said that the num ber of calves a cow had had could be told by the number of rings on the horns: this was so well known that the rings were filec down by dishonest drovers.-Mr. Sedowick mentioned a famils in which marked transverse ridges formed across the mails of thi females at about the age of 52.-Mr. Stephen Paget askec whether the hair in left-handed people did not grow faster on th left than on the right side-Mr. Bowley said that nerveinjur: was also followed by deformity of the nails. He lad called atten tion to this in 'a paper on injuries to the nerre, and Dr. Wei Mitchell had figured a very marked case-The Prestdent sai that in his own person he had observed that every severe illness wa followed by a furrow. The case from which the photograph shown by Dr. Wilks was taken was valuable because it showe how short an attack of illness might produce the furrow.-1 reply, Dr. Wilks said that he had made some incuiry about th teeth, and had found some evidence that the teetli might b grooted in the same sort of way.
An Evostozis.-Mr. Bland Sutron exhibited a specimen whic had leen sent to him by Dr. Runulle, of Truro, who described it is "resembling an ossified bird's head." Dr. Rundle was quite sur it was not artificial, as the source from whence he receired it wa abore suspicion. The specimen was an osteoma connected wit connecter of a fish, probably Ephippus. Tumours of this natu by William lell (the original specimen is proserved in the museu of the Royal College of Surgeons), in a paper communicated the Royal Society in 1793. The College museum also contained score of these tumours, nearly all of which were Hunterian. Tb tumours were very characteristic; they were situated at the et of a fin-ray, and on section the ray conld be clearly defined as runs through the tumour. Its exterior was smooth, hard, and lil usually two, stating with it by means of a hackle-joint was one, b common in osteological collections; they were brouglit home travellers who had eaten of these fish, and then preserved t bones as curiositiés. Mr. Sutton was not aware that any expl nation of this curious condition had been offered. Bell statel, his original description of this fish, that it was frequently caug at Bencoolen, and several other parts of the west consts of cumat Many of the bones have tumours; in the first fish Bell satr thought they were exostoses arisiug from disease, but, on disse ing a second, found the correnponins 1 him that they wetly simi found on this fish.

Experimental Obserratums on Lupus,- -Mr . Wve stated the chi facts for and against the theory that lupus is a local tubereulo: The tulbercular theory had been opposed by Kaposi, Schwinm and others. Schwimmer hat urgel that while the inoculation guinea-pigs with lupus caused general tuberculosis, lupus, a had never heen produced in animats. Leloin failed to inoculy rabbits with lupus. The author had in twro instances (the frst ear in 1886) succeeded in prolucing a lupoid ulceration of the ear
rabbits by inserting fortions ralbits by inserting jortions of the diseased tissue under skin. A spreating nicer covered with a dry scab formed, a
similar ulcers developed similar ulcers developeel at a distance from the primary one. Ci
trisation took phace after some weeks and trisation took place after some weeks; and on killing the if hits from ot her cases, but only small, quickly healing ule ers or er alscesses had been set up. Passing lupus through the grimea-l in one instance, did not incrense its virulence. The production lupus, ns such, in animuls was another point in favour of its be a modified tuberculosis of the skin. Three specimens of lupus a tuberculosis of the hand were shown, to illustrate the close re tion of these processes. Specimen 1 was a raised plaque on 1 dorsum of the haml of a boy with spinal caries. It whas not wle ated and harl remained unchanged for some months. The mic scope slinwell inarely a formation of granulation tissue in
corium. Thie disease of the skin was probably secondary to that of the spine. Specimen $?$ was a nodule removed from the palm by Mr.! Bryant.: It had microscopically the structure of reticular tuberole. The patient, aged 26 , obseried a growth four ytars befure: this was removed two years and a half later, und subsequently the nodule shown appeared. Specimen 3 , an old preparation from the College museum, was originally described as probably epithelioma. Recent examination showed distinct tubercles with giant cells in the corium, and a marked papillary thickening of the cutiele. No history was obtainable. This was probably a case of tuberculosis verrucosa cutis, a similar condition being de scribed as lupus verrucosus.--Mr. Clciton mentioned some cases in which there was an association between lupus vulgaris of the nose and an ulcerative affection of the mouth, larynx, and even of the lungs; he related one case in which the patient died of phthisis; tubercular ulceration first occurred, and then lupus vulgaris of the nose.-Mr. Goldisa Birn mentioned a case of tubercle of the tendon of the extensor carpi ulnaris, and suggested that this might probably have been the way in which the tumour on the back of the land mentioned by Mr. Eve had originated; but Mr. Ere said that the subcutaneous tissue was not affected,

S'arcoma of the Urinary Blodder:-Mr. D'ARcy Power showed a bladder containing a large sarcomatous tumour. The cavity of the organ was obliterated, except at its upper part; by the, new srowth, which infiltrated the anterior and lateral walls as well.as the fundus. The portion of the growth which occupied the carity of the bladder was a tuberous and. cauliflower-like mass. The near the auns the tumour actuy its extension backwards, and the bowel. The projecting , portion; however, had broken down and a fistulous passage was established between the bladder and the rectum. The preparation was, obtained from a man aged $6 t$, Who had suffered from hrematuria for eighteen 'months. TThe growth was partially remored by median cystotomy and dilata-
tion of the prostate: but as it continued to incrose in size and micturition became difficult and painful, the bladder was punctured above the puhes. Microscopic examination slowed the growth to be a typical mixed-celled sarcoma. Mr. Power drew attention to the allegel rarity of this form of vesienl tumonr. but stated that the museum of St . Bartholomew's was particnlarly rich in examples of it, for he was enabled to produce four other specimens, of which one appeared to be an alveolar saccoma. In addition to those cases, there were two preparations of wesical sarcoma in the liunterian Museum, one in the museum of Guy's Wrek brought forward statistics of fifty cases of sarcoma of the urinary bladder. He showed that the cases fell into two groups: sarcomata of childhood before 5 years of age, and sarcomata of old age after 50 . Wuch age seemerl to posseas especial characterThis was rare in after life, 10 ner eent, only possessino pedieles. In clildhood the growths were moltiple, and affected the trigone and inferior zone of the bladder. In after years the growth was iouud to be usually single, and affectefl the posterior wall inmelintely behind the ureters, Mr. Fenwick submitted that the nyxomata and sarcomata of chilahood had been greatly con-tred.-Mr. Golunsa Biad sliowed a specimen of roumk-celled areoma of the hladrler recently remored by suprapubic cystotomy
rom a woman aged $5 .$.

Disease of Alrenala without Bronving. - Dr. Colfier showed he right suprarenal capsula of a woman, aged 3G, who had been ill or nine months with exhaustion and romiting. She was anemic, out well nourished, anrl not bronzed in any part; the pulse was 'xtremely weak. While in the Radeliffe Infirmary. the most haracteristic feature was the extremely languid comblion in which la lay in hed. The patient died suddenly: Both supraxenal apales wore enlarued ; the right capsule was entirely caseous, he !eft was reduced to a small sac containing cheess material. The history showed that the suprarenal capsules had been diseased or at least nine or tom montlis, which rendered the absence of igmentation the more remarkable.-Dr. Wieks eaid that asthenia nd discolorntion werts the two main symptoms recoguised by fldison. who was, however, aware that if death occurred at an orly atage there might be 110 pigmentation.-Dr. Couplad.s.suich ant in a few cases tubercle bacilli hand been found.
(ard specimens.- 115 , F上Nwle : Tumoin of Eriuary bladeler. 1. TARGETT (for Dr. FRy): 1, Gystadenoma of Thyroicl. 2.


Muraty: Cystic Diserse of Kidneva-Dr. Ascem Mosey: Multiple Sarcoma of Dura Mater and Calraria; Secondary to Suprarenal Sarcoma, - Dr. Pesbose: Vegetation on Mitral and Aortic Talves; Gap in first part of Aorta With Vegutations.

## MEDICAL SOCTFTY OF LONDON <br> Mondax, March lotif, 1 S

J. Knowsley Thornton, M.B., C.M., Fice-President, in the Chair. On the Successful Treatment of "Hammer Toe" by the Subcutaneous Dinision of the Lateral Ligaments.-Mr. W. ADims read a paper on this subject, in which he observed that this contraction with deformity, which usually affected the second toe, was essentially an hereditary affection, often traceable through two or three generations. It was nerer caused by short or narrow boots, although this might aggravate the affection. In a slight degree the tendency to "hammer toe" was often traceable at tive years of age, and the contraction steadly increased, but sellom became contirmed till the age of 15 . He then alluded to the observations brought before the Pathological Society (December 21 st, 1836 ) by Mr. Shattock, who had dissected two " liammer toes "recently amputated, and had found that the deformity essentially depended upon a contracted condition of the lateral ligaments, and not upon contraction of the flexor tendons. In reference to treatment, Mr. Adams then described an operation which he had successfully practised for many yearz, essentially consisting in the subcutaneous division of the lateral ligaments. After having observed the failure of tenotomy to cure this contraction, he had adopted the method of dividing the lateral ligannents. and the correctness of this conclusion was now contirmed by Mr. Shattock's dissection.' lmmediate extension was adopted after the operation; and the toe retained iu pesition by a metal splint for three or four weeks. Mr. IV. Anderson had made a valuable contribution to the treatment of this affection, and had suggested a new operation of excising the lead of the first phalanx, which he bat suecessfully performed. This operatiou, which was described in: the Transactions of the Clinical Society, rol. xis, p. 245 , would be applicable to cases which could not be treated by the subcutantons,operation, and would supersede the necessity of amputation, which had generally been adopted in severe eases-- - fter some remarks from Mr. Knowsley Thonntos, Mr. W. Anderson said that Mr. Adams's remarks had contirmed his own ovservitions. Ile congratulated JIr. Adams on the good results of the division of the lateral ligaments, but he thought. that the-operation :might not: prove $80 \cdot$ simple, in less experienced hands. The operation involving the removal of the head of the tirst phalanx had the advantage of giving a permanent result. which was not quite curtrin in division of the ligaments. He pointed out the similarity of this aftection to that lescribed by Ir. Davies Colley as hallux flerus. It always occured during the period of active growth, but while "hammer toe" occurred indiffexently in both sexes, hallur flexus had only occurred in males.- Ilr. SHitTock observed that the etiology and pathology of these cases were olscure, Ife questioned the share accorded to the lateral "gaments "in its prodnction, und pointed out its analogy with the "claw hand" of Duchenne's paralysis. He suggested that a careful examinution of the interossei might give a clue to the causa-tion.- Mr. Noble SMITH said that he operated on the princijle of dividing whatever tissue seemed to resist the replagement, and the results hat been vers satisfactory.- IIr. WI H Li\#ain showed a dissection which he lad bern enabled to make of a case of : hammer toe," which pointed to the deformity luing caused. in part at least. by the glenoirl ligrament. IIe observed tlat- Dr. Steavenson had beeu umble to detect any fault in the interossei by electrical tests. He was of opinion that the eleformity whs due to pressure from hoots, ete. lle doubted whether the lateral ligrameuts coulal be divided withont opening the joint.-Mr. UFREARD JITTS thought that the majority of these cases were lue to mechanical causes, and mentioned the case of al lal who had well-market "hammer-toe" on one foot and an incijpient one on the other foot, which, however, ceased to exist when the boot was taken oft.Mr. Walter Pse said that they were agreed that the Hexor tenlons were not at fault. IIe alluded to the very strong hereditary tendency and to the corn which formed and faioured the second--ary changes. - Mr. lossins browsf: sumuested that the hereditary theory was rather far letelied: he sasked whether the heredity might not be in the bootmakers rather than in the patients.-Mr. An.avs, in rep!y, puil a hig't tribute to the labours of Mr. Ander-
son and Mr. Shatrock in this direction. He insisted upon the necessity for at least three weeks' after-treatment.
Fartirgation of Guitre.-Dr. Borel, after alluding to the geographical distrilution of hypertrophy and cystic degeneration of goitre, mentioned that it was common in elderly doga, being attributable, probably, to the large amount of lime they assimilated from a diet of cooked bones. The endemic diaease in Switzerland had heen made to disappear by drainage in some instances. He alluded to the undoubted regulating function of the thyroid over the cerebral circulation. In animals simultaneous extirpation of the spleen and thyreid caused death, though either could be removed separately with impunity. IHe referred to the observations of Kocher, of Berne, on cretinism iolJowing removal of the thyroid in very young people, the danger being less after puberty. He objected to interstitial injection of iodine, and attached but little importance to compression, shampooing, etc. 1'uncture might relieve cyst formations, but was useless in real hypertrophy. Operation in persons of advanced years was to be deprecated on account of the difficulty of arresting e hemorrhage. He explained his methed of operating, and mentioned
that in cases of goitres plongeants (retrosternal struma), it might be necessary to dissect down to the arch of the aorta, enucleation being done with the fingers and scalpel handle. The operation might be one of urgency or merely ef expediency. Cerebral disturbance and dysphagia, more or less ephemeral, might follow the operation, but he had never seen myxoedema follow. IIe illustrated the kind of mental disturbance which sometimes resulted by the history of threc cases. The dangers were (1) entiy of air into the veins, (2) primary arterial hæmorrhage and (3) asphyxia from compression of the softened trachea. Ile spoke of twenty-two casea in which he had performed extirpa-ion.-Mr. Knowsley Thornton aaid that he was comforted on learning that a thyroidectomy had taken as long as five hours and a half, and involved two hundred ligatures. Ile had once passed three hours in removing a kidney and had thought it long.-Mr. Lennox Browne said that the enermous goitres spoken of by Dr. Borel were really unknown in this country. He claimed prierity in removal of the gland for Dr. Heron Watson, though the earlier operations were small compared to Dr. Borel's achievements. He thenght the distinctions made hetween the so-called different rarieties of thyraid tumours were mere or less arbitrary. His experience of the seton whs that the relief was not permanent. He had had six cases which he had treated by removal of the middle portion of the gland, and of the isthmus if enlarged. He never recommended recourse to operation for purely "cosmetic purDr. Borel whether he had had any experience of enucleation of the tumours witheut removing the gland itself.-Mr. Bernard Prrts mentioned two cases, in one of which he had prevented imminent death from asphyxia hy slitting open the tumour, and in the other, moved the whole gland with compormed tracheotomy; he had removed the whole gland with comparative case. The latter patient,
howerer, succumbed

## PATHOLOGICAL SOCIETY OF MASCHESTER. Wednesday, March $14 \mathrm{th}, 1888$. <br> A. W. Stocks, M.R.C.S., l'resident, in the Chair.

Earostnis of the Orbit Associated with Cerebral Tumour.-Dr. peter yates shewed a specimen of exestosis of the orbit, causing extreme proptosis of the left eyeball, with which was associated a cerebral tumour of myxomatous character. The exostosis occupied the position of the roof of the orbit, and had probably commenced in the frontal sinus. The bony growth encroached on the cranial cavity to the extent of about one inch, was very irrecular, nodulated, and hard in texture. At the most prominent portion the dura mater was adherent, and attached to the latter ly a pedicle, was a large, yellowish, gelatinous, lobulated, and flesh-like tumour with a distinct capsule. This growth was completely imbedded in the substance of the frontal lobe of the brain. and was easily shelled out. The cavity communicated behind with the lateral ventricle. During life there was a histery of slight epileptiform seizures, but there was no loss of power or sensation, no vomiting, and absolutely no pain. The vision in the left eye was ir Jager, that of the right being normal.

Abnomnality of the Kidnem.-Dr. A. M. l'athrson showed a preparation in which the right kidney was displaced, lying in the angle between the common iliac vessels, on the fourth and fifth lumbar vertebre, and projecting downwards over the promentory
of the sacrum. The hilum was placed anterierly, and from it the ureter passed downwards, a large vein upwarda to the inferion vena cava. The left kidney was normal in pasition. Its hilam was placed in front also, and the pelvis of the ureter, lying on the anterior surface of the organ, was extremely large. The arteries to both kidneys were abnermal in number and mode of origin. The right kidney was supplied by four, and the left kidney by five vessels. The testicles and their vessels, and the suprarenal capules were nermal.
Renal Calculi-Mr. Southam showed the kidneys of a man, aged 23 years. The orifice of the right ureter was blocked by a small calculus, and the gland was converted into a multilocular cyst full of pus. The left kidney was free from any traces of suppuration; ita pelvis was much dilated and contained five calculi, three of which were of large size, weighing $5^{\frac{1}{2}}$ ounces.
An Unusual Form of Uterine I-olypus.-Dr. R. B. Wil. ahowed a telangiectatic uterine polypus from the cervix, consisting of diated vascular loops filled with blood-corpusclea; a leose connective tissue stroma with extravasated hlood, and a few islands
of glandular epithelial cells. The menorrhagia and the microscopic structures the cause of severe menorrhagia, and the microscopic structure explained the occur-
rence of hæmorrhage, quite out of proportion to the size of the tumour.

Sarcoma of the Pleura.-Dr. R. B. Wiln showed a preparation consisting of nodular growths in the pleura, varying in size from a millet seed to a penny, and consisting of round and spindle cells, with a vascular zone between the normal pleura and the new growth.

## MANCIIESTER MEDICAL SOCIETY.

## Wednesday, March Tth, 1888.

Julius Dreschfeld, M.D., F.R.C.P., President, in the Chair.
Trephining for Epilepsy.-Dr. Hutton and Mr. Wright showed a boy, aged 11, whe suffered for nearly three years from epilepay, which at first affected the limbs equally, but during the last few aphasia, with rapidly developing loss of mental power by markine aphasia, inchea and a half in diameter was used, and the dura mater reflected. Exploration of the brain to the depth of an inch in various directions revealed nothing abnormal. The dura was atitched up, and the bone replaced after being cut into smal pieces. Recovery from the operation followed without a bad fits returned in a few days, though with less violence.

New Instruments, etc.-Dr. Nivles ghowed (1) an instrument for the introduction of the artificial vitreous; (2) a series of draw ings of rare ocular tumours.

Rupture of Kidney.-Dr. Mules also mentioned a case of rupture of the kidney through the capsule by direct riolence, ir which, with a large tumour in the flank, and considerable hemor rhage from the urethra, recovery progressed uninterruptedly under the influence of complete rest and careful diet.
Tropho-Neutrosis.-Dr. Hutron showed a case of tropho-neurosi in a girl aged 9, which commenced as a gangrenous sere on th faremiger, and was followed three years and a half later to pressure, and general suppuration among the tissues of the lef arm and hand.

Mitral Disease.-Dr. Streml read a paper on the auscultator signs of mitral obstruction and regurgitation.

## brigliton and sussex medico-cliIfurgical societ

Thursiny, March 18t, 1888.
F. Noble Fiwaris, h.R.C.S., Vice-l'resident, in the Chair

Skin Diseases.-Dr. Mackfy showed (1) a case of steatorrho affecting one cheek in a young woman: (2) a ease of crythem rheumaticum (?) of three months' duration, affecting the face an arms, in a cook, whe had had two attacks of acute rheumatism.
Some Remarks on Spinal Cartes and its Results.-Dr. F. Paley read a paper in which he said the disease was general due to the scrofuleus or tuberculan of agricultural labeurers, thought, were espccially liable to thia disease. The pathology w described as first a low form of osteitis, with marked tendency the caseation and breaking down of the inllammatory exuc tion, and with it of the rarefied cancelleus structure of the ver bral bodies. These changes were ahown to commence chiefly
the epiphyses of the bodies in close contiguity to the cartilages. The chidef results were angular curvature, abscess and pressure on the spinal cord. The situation of caries, whether towards the back or front of the body; was the chief agent in determiuing pressure on the cord or a psoas or dorsal abscess. The agent of pressure on the corl was generally the thickened spinal dura mater. The diagnosis of early caries before curvature was exceedingly difficult. The author related the case of a woman, aged 41 , which had been diagnosed as hysterical, but which a year afterwards was founcl to be caries, and resulted in fatal pressureon thecord. The author laid down some points of distinction between caries and the hysterical and irritable species. Ife considered that ankleclonus, if well marked, was always a sign of organic lesion, and was never produced by hysteria. The prognosis of caries itself, as far as life was concerned, was considered to be good. The prognosis of abscess was bad, whilst that of pressure on the cord was regarded as very favourahle, a case of complete recovery in about a year being narrated. As regards treatment, Sayre's jackets, with good food and tonics, were recommended. Abscesses should be opened early and drained under antiseptic precautions. -Mr. Jenner Verrall remarked on the difficulty of diagnosis in many of these cases, and of determining whether rest or exercise shonld be employed.-Mr. Arthur Dodo mentioned a case of death from dislocation of the spine in the cervical region from disease.-Dr. Adolphrs Richardson referred to a case of hysteria in which, in opposition to Dr. Paley's view, ankle-clonns existed. -Dr. Brack thonght that none of the classical signs of spinal caries were reliable; he referred with farour to the plan of tapping the abscess close to the spine, and if possible removing sequestra- Mr. Sanderson recommended Davy's hammock method of applying the plaster-of-Paris jacket.-Dr. UHTHOFF and Mr. Gordos Dicl also took part in the discussion.-Dr. Palex, replying, spoke in favour of Dary's method of applying the jacket.

Treatment of Laryngeal Phthisis and Abscess of the Antrum.Mr. C'resswerl Baberr read a paper on some recent methods of treating these diseases. Ife gare particulars of Rosenberg's treatment of laryngeal phthisis by means of injections into the larynx of a 20 per cent. solution of menthol in olive oil, combined with inhalations of the same drug. Ile also referred to the treatment of this disease by lactic and chromic acids, but recommended the menthol treatment for trial on account of its painlessness. In the treatment of abscess of the antrum, which he remarked might exist without any external symptoms beyond unilateral foetid purulent discharge, he mentioned the means of diagnosis and the different methods of opening this carity, namely, through the middle meatus, throngh the inferior meatus, and through an alveolus, giring the preference to the latter if it were impossible to obtain an entrance throngh the normal opening of the antrum.

## BIRMINGHAM AND MIDLAN゙D COUNTIES BRANCII. Thursday, March 8th, 1888.

Lawson Tait, F.R.C.S., President, in the Chair.
Alcoholic Paralysis.-Dr. Suckling read a paper on alcoholic aralysis.
The Treatment of Perforation of Castric Uleer.-Mr. J. W. Arlor and Dr. Stachy Wilson read a paper on this subject.
Multiple Peripheral Neuritis.-Dr. Scckling showed a boy, aged 14, suffering from multiple peripheral neuritis. He had worked in lead and zine for eighteen months. A few weeks before the onset of his illness he had changed his occupation to that of stamping bolts, and while at this heary work weakness sradually came on. On admission he complained of weakness in his hands and feet, all of which were "dropped," power of extension being lost. There was much weakness in the other nuseles of the extremities. Anæsthesia was well marked in all four extremities, but was not complete, and extended only a few nches from the wrist and ankle-joints; the knee-jerk was abolished on both sides: the calf muscles were tender on palpaion. Faradic irritability was diminished, but the reaction of legeneration was not present. There was no blue line on the rums, nor had there been colic or constipation. The bladder and ectum were unaffectel. Dr. Suckling considered that exposure a cold and hard work had been the exciting causes, but that bis laving worked on lead had predisposed to the affection.

Cancer of the Panerens.- Mr. Jordan Lloyd showed a specimen f cancer of the head of the pancreas, which had compressed the iancreatic and common bile ducts. The pancreatic bile duct was
dilated to a diameter of half an inch, and the gland was full of cysts warying in size from a pea to a pigeon's egg. The common bile duct and the hepatic ducts would admit an index finger. The gall-bladder was enormously distended. The patient was a woman nearly 80 years old, and had suffered during six months from pain in the abdomen and emaciation without jaundice. Cholecystotomy had been performed for the relief of painful distension of the gall-bladder.

Ossifying Enchondroma.-Mr. Marse showed a typical specimen of ossifying enchondroma, the size of a large orange. removed a fortnight ago from the femur of a youth, aged 18 . The growth was first noticed nine years previonsly, and its origin put down to a blow received a sloort time hefore; it had grown slowlyever since, withont pain, but latterly its size cansed inconvenience, and when knocked it was painful. The tumour was attached to the inner and anterior surface of the femur, four inches from the lower end, by a hard osseous pedicle. It was removed by longitudinal incisions on either side, and the pedicle sawn through with a chain saw. Dry boracic dressings were used, and primary nnion obtained except along the track of the drainage-tubes. Prior to the operation there was one-sixth to a quarter of albumen present. a sequel of scarlet ferer. Since the operation this bad entirely disappeared.

## CAMBRIDGE MEDICAL SOCIETY

## Friday, February 3rd, 1583.

E. Carver, F.R.C.S., President, in the Chair.

Election of Officers.- It was proposed by Dr. Grore and secoaded by Dr. Easby that Mr. Stear, of Saffron Walden, be elected lresident for the ensuing vear. This was carried unanimonsly. Mr. Wherry was elected V́ice-President, and Mr. Laurence Humphry was re-elected Honorary Treasurer and Secretary for the year. Mr. Francis was re-elected Co-Secretary.

Cases of Erysipelas.-Professor Humphry related the case of a woman who was admitted into Addenbrooke's Hospital suffering from cellulitis of the forearm. Before admission she had a sore thumb, and had been recently washing some dirty rags from a case of erysipelas. Soon after her admission the cellulitis subsubsided, and a girl lying in the next bed with neerosis on the popliteal aspect of the tibia developed erysipelas in the thigh. Both these cases were removed to another ward and isolated. The first case shortly afterwards had erysipelas in the forearm. Subsequently a woman at the end of the ward, with an ulcerated leg , developed erysipelas. The cases were all of a mild type. The treatment pursued had been lint soaked in bichloride of mercury ( 1 to 1,000 ) and placed on the margin of the spreading line of erysipelas and a few inches beyond. The cases appeared to be benefited by the treatment, but a girl admitted with erysipelas of the face got on equally well withont treatment. Professor IIumphry referred to the more recent views of the presence of micrococei in erysipelas; be was doubtful as to the particular efficieney of any modes of treatment in ordinary cases.-Dr. Lathay, Mr. Carter, and others took part in the discussion.

Sarcoma of Lung.-Mr. Griffiths read the notes of a case which was admitted into Addenbrooke's Hospital under Dr. Bradbury on January 21st. A man, aged 58, had been ill for one year with cough and wasting. On admisson there was marked dyspuoa, and cyanosis, and swelling of the eyelids: expectoration minco-purnlent. The physical signs were absence of movement of the left side of the chest, absolute dulness and feeble respiration, hyper-resonance'and rhonchal sounds over right side. Microscopic examination of the sputum showed only pus cells. A needle was introduced into the chest, but no fluid withdrawn. The diagnosis was made of malignant disease of the lung. The right hand became rery odematons, also the face; but the superficial veins were not distended. After several severe attacks of dyspnaaa he died on January 30th. On post-mortem examination the pericardial sac was found to contain two to three ounces of straw-coloured fluid. Projecting into it from the left side was a firm, somewhat irregular tumour, pushing the pericardium in front of it; and this tumour was continnous with a firm, solid mass in connection with the base of the heart at the back of the left auricle. On section of the left lung, a firm, tleshy growth was found, occupving the root of the lung, and extending by irregular processes along the course of the bronchi and larger vessels. Abore it embraced the lower half of the arch of the aorta and compressed it somewhat. The branches of the pulmonary vessels were also completely surrounded and compressed, but there was ao ulceration. Here and
there in the seetion there were the skeletons of bronchi (eartilage) completely surrouuled, and their lumen was absolutely obliterated by the new growth. The left bronchus was greatly narrowed, hut there was no ulcerntion into it. I'osteriorly, the, growth projected on cither side of the asophagus, cansing partial compression, and on passing ones finger into the lumen of the exsophagnis there was a distinct constriction. There were no secondary growths.
Glascoma caused by Melenotic Sarcoma of the Eyebaill.-Mr. Wharry showed un eyeball, whieh, on section, discovered a black growth the size of a raisin, which, growing from the choroid, had stripped off the retina. The pigment celis, under the microseope, were those comman in melanotic sarcoma. The eye was removed from a lady, aged 70 , who had the symptoms of glaucoma in the left eye. The patient liad symptoms three weeks before seching advice. About five yars previously she had been told that she lond an incipient citaract. The sight had failed gradually and painlessly. The other eye was in good condition and with good vision. Six days after the operation, a black swelling, as big as an egg, came suddenly on the left side of the lower jaw; it was soft, painless, and uniformly purple-black in colour. It was taken to be a growth : but in a few days its colour faded at the margins, and it decreased to half the size, nppearing like an ecchymosis. There was, ufter a fortnight, a dark, almost black, patch of skin, ahout the size of a penny. The patient had recovered well from the operntion, and was in good health.

Intussuseeption of the Bomel rithe Diverticulum.-Mr. A. Ingle showed a specimen of intussmsception with diverticulum of the ileum. A child, 5 months old, was attacked with pain, vomiting curd on the second day. Bloody mucus was passed from the anus on the third and fourth days: iympanites and hiccongh followed, and the child sank aud died on the fifth day. At no time conld any tumour be cliscovered in the nodomen, nor had there been any parn on palpation. The parents refused to allow any operative interference. After leath the intnssusception, which was of the the stom rariety (at the ileo-crecal valve) wo three inches higher the stomach, the diverticulam bech if the symptoms would hare warranted insuffation, and if it had heen emplored, how, in the absence of any sausage-shaped tumour, one would have known when it had been carried far enough? He raised the question, whether the diverticulum conld have in any way acted as the cause of intussusception?-Professor Huscpuivy replied that he thought insuflation might justly have been used. He considered it hardy likely that the diverticulum could have had anything to do with the intussusception.

## MIDLAND MEDICAL SOCIETY.

## Wennesnat, Marcit 7th, I888.

W. Ross Jomtan, M.R.C.S.Eng̈. ${ }^{1}$ President, in the Chair, Ton-uniom after Osteotomy.-Mr. MArsir exhihited a boy, aged 7. with non-mion of the tibia after ostotomy for anterior curvature of that hone. The boy had been operated on four years ago in a provincial hospital; he wore a plaster case for a montḷ after his returu home, umion having takenplace. Eighteen months ago, the defornity still existing (a relapse had prohably taken place the was igain oprated upon, this time at home by the lacal medieal pract it ioner. Thure ras a good doal of smppuration after the operation, the wound healing slowly, hat no history of nocrosis. The loy ultimately gut alont with the aid of criteles, and wearing a loge with an iron upibht. The parents discovered the (Eum nis IIospital, Dirmingliam. The left leg was one ineh and a-lulf shorter than the right, and the muscles wasted from disuse. It the site of the osteotomy about two, inches below the mithle of the tibia, there was shight over-ricting of the divided nds, the lower being ankerion, somewhat atronhed and connected with the upper by fibrons tisac, fre morement in any direction being only restrained by the fihula. This later hone was hypertrophied and curved auteriorly in its lower half, and just ahote the mallenlus way an indication of an old transwerse fracture with close fibrous union. Mr. Marsh commented on the rarity of nonunion of Imes in chilaren, ant comidered that in this chase it was due to local causes, prohnty imperfect flyation and interference with the ruedullary artery, and not to const itntional taint, there leing no marked fiat the is.
Siuture of Mrdion Verre.-Mr. MArart' exhilited a successful ease of suiture of the median nerve, over pighteen wetks charing
elapsed since its livision. The patient, a woman, aged 23, severely cut her right wrist with a pane of glass on October 5th, 1887. The hemorrhage was profuse, and the ulnar artery was ligatured some days afterwards for a recurrence of this. The median merve was not seen at the time. The wound suppurated and healed slowly: Seusation was lost over the palm of the hand, and over both anterior and posterior surfaces of the thumb and the two aljaeent fingers, and partly over the radial side of the ring finger. Trophic changes in the skin and nails, with troublesome uleeration of the tip of the index and radial side of middle fingers ensued, the hand being cold and useless. She was admitted to the Queen's IIospital on February 8th, and the nerve sutured the next day. The proximal end was drawn to the ulnar side of an angle by a thin longh of fibrous tissue to the atrophied distal end, the annular ligament requiring division to expose the latter. The ends were refreshed, placed in good position by stretehing the nerve a little, and flexing the wrist, and joined by three fine catgut sutures. Dry boracic dressings were nsed, and primary union of the wound obtained. Fifteen days after the operation the patient noticed that the thumb anil fingers "began to feel different," and two days after this there was a return of sensation over the palm and the carpal ends of the thumb and middle finger. This area had slowly increased up to the present date (twenty-
seven days after), the index finger alone remaining without sensation, the fibres supplying this digit probally not having yet united. With this exception there was a marked improvement in the nutrition of the skin and nails. The hand was warmer, much more useful, and complete recorery was only a matter of time. a specimen taken from the hady of Teins.-Mr. Banming shower fourteen days after a miscarriage, having suffered from symptoms of peritonitis for eleven days. Three days hefore death it wsa found that she had a strangulated femoral hernia, which was re-
liered by operation, with temporary diminution of Thered by operation, with temporary diminution of her symptoms. extending from the right side of the uterus. peritonitis, evidently extending from the right side of the uterus; and when this organ
was divided pus was found the suppuration having extended in two places to the tissue of the uterus, produeing abscesses the size of a nut lying immedidiately beneath the peritoneum. The strangulated intestine had recovered from its constriction. W. Tarion showed a specimen
Sarcoma of Orary--1r. T. specimen had heeri examined and prepare by Mr. Bland Sntton, and was, in his opinion, of exceptional interest. The patien made a good reeovery from the operation, and had remained well since.

Shortening of Forearin follouing an Accident.-Mr. Avarstes Cras showed a boy aged ly, who had injured his forearm six rears ago by falling off a cart. 'It'was treated then ads ásprain, and after three weeks was apparently well. Three weeks ago he again hurt his arm, and the shortening was discovered. The wrist was much, wider than the other, and the hand was pushed over to the radial side by the increased lengith of the ulna, which mas exceptionally prominent and slightly bowed.
Signaturcs of the., late Ihr. John Ash, Mr. Wrime Wilsos howed three old documents hearing the signature of Dr. John Ash, the founder of the General IIospital.'

- Siarcoma of Kilney.-Mr. Lawson Tali showed a large sarcomatous kidney which he had recently removed. Cingenital, Ileart-disease-Dr. Srsos
genital heart-disease in a boy aged 13 . showed a casc of conBrasefuinders' Lguc.-Dr. Simon read a paper on Brassfounders' Ague,
Tue Motahle Dwellings Bill which Mr. Ceorge Sunith, of Coalville, is promoting for the purpose of bringing ginsy, Van, and other travelling children under colucational and sanitary influences, will he introdnced into the House of Commons in a few Hays he. Mr. Burt, and will he backed by Dr. Cameron, Mr. T: Sh
Ifeals, Mr. Dentrose Fitzgerald, and Mr. Hozier. There is riason to hepe that the Government will give it' their support, ampl Lord Derby has, written of it in terims of approval.
Presfatation-Mr. Marshall, the Senior House-Surgeon of the Huddersfield Infirmary, has, on the occasion of his severing his stationion with that mstimen, beents and salver, some useful medical works, and other souvenirs.


## REVIEWS AND NOTICES

Tite Etements of Physiotofical Psychology. By Georgrat. Ladn, Professor of Plilosóplyy in Yale University. Pp. xii, 696. London: Longmans, Green and Co. 1887. Trus admirable work by Professor LaDn deserves a hearty welcome from the English public as the first book of sufficient extent of subjcct matter and depth of thought to take the placein American and
English literature that hasheen held since I874 in both Germany and English literature that hasbeen held since 1874 in both Germany and France by Wundt's Grundzuiqe der Physiologischen Psychologie. It is "a treatise on the activities and nature of the mind from the physical and experimental point of view; as Professor Ladd phrases it; and it is even more than that, for I'rofessor Ladd does not hesitate in the third part, and that not the least weighty and the nature of the mind " from a standpoint which is. plat experithe nature of the mind "from a standpoint which is not experimental, but introspective. IIe has been known widely hitherto as the translator of Lotze's Dictate, and though he does not follow Lotze on all points, it is easy to see that he has felt the full force of his influence. The greatest struggle of thinkers since thought hegan has been to transcend the duality of mind and matter, and no victory has as yet been achieved which the world will consent to receire as decisive. The adrance of the present age, as has and matter to the particular prohlem of mind and brain. In furtherance of any future attempts at adrance, it is, in the first place, necessary that an adequate statement of the ever-growing lata of the nervous mechanism should be provided before the nrrelations of the nerrous mechanism and the mind can be profit-
ibly discussed. These data and this discussion occupy the firs bly discussed. These data and this discussion occupy the firsti
va parts of Professor Ladd's. book. The third part, "On the vature of Mind," might perhaps have been more logically introluced before the second; for on the conchusions as to. its nature nust be based the premisses for its correlations.
The description of the nervous mechanism, which occupies with preface the first 2.36 pages, is one for which all serious stulents must be sincerely grateful. It is a most clear and accurate iccount of the, elements of the nerrous system, their combinaions, functions, and development, and a description, more in letail, of the organs of sense of taste, of touch, of smell, of sight, nd of hearing. In his treatment of all these points he does not rofess to bring forward any new personal research, but he states -fluger, Schiff, Hitzig, Ferrier, and many artments by Helmholtz, hich, in its clear discrimination, carries part of the proof of its, uthority.
The desire to bring this large and constantly enlarging hysiological, field within a single survey has led him to decline ery wisely the more detailed examination of such tempting hyat ths as the cerebral'localisation of speech, ant the peychological Iferences which may be drawn from its abnormalities. Such a ibject might, perhaps, le more appropriate to Professor Max, fiiller as helping to illustrate the actions of a state where there is rohably science of thought withont, a science of werds. l'rossor Ladd show's a prudent inclination not to limit too narrowly e localisation of such a complex matter as speech, and not to low the expression and understanding of articulate language too sential a part in thought when he writes' (p. 292): "The literal caning of the statements made by Broca-such as that this part the brain is 'the seat of the faculty of articulate language'-is, wrever, not simply inappropriate to the facts, it is even alosurd, lere is no one 'faculty" of Ingruage which can, in any possible eaning of the word, he regarderl as having its: 'seat,' or locality, nfined to some particutar region of the brain, speech involves, a very complicated and large way, all the faculties! Strictly eaking, then, it cannot be locatel, with all its atteudant opera-
ins of self-conscions, rational noind, in any one cerelral area ins of self-conscious, rational mind, in any one cerchral area. it that the phenomena of aphasia show some special connecin of certain cerebral centres with the complex process of apprending and expressing articulate language seems entitled to dit as an induction based on a wide range of facts."
Turning to the consideration of the mind. I'rofessor Ladd is far 3 skilhed a psychologist not to he well aware that there is no ay short cut for the reasori to bring it honestly to materialism, d no easy satisfaction for most men in what may seem a logicy impregnable idealism. He realises that mind is self-con-
scious, and is in that respect unique. "If the quastion is further pressed as the physical basis for the activities of self-consciousness, no answer can be given or even suggested. From its very nature that marvellous verifving actus of mind in which it recognises itself as the subject of its own states, and also recngnises the states as its own, can have no analogous or corresponding material substratum. It is impossible to specify nny pliysiological process representing this verifying actus: it is even impossible to imagine how the description of any such process could be brought into intelligible relation with this unique ment dl power " ( $\mathrm{p}, 545$ ). He recognises that the problem of the freedorn of the will has received no adequate solution, and, as briefly as is courteons, dismisses such recent materialistic forminge of determinism as M. Luys has put forward when he says. that thinking of an ohject by our will is an ilhusion; ": and the object is only forced upon us hy the cunning conjuror, the brain, because "the cell territory Where that object resides has been.previously set ribrating in the hrain." That is to controvert "a plain and universal dictum of conscionsness by his pricate and unverifiable hypothesis on a question of cerebral physiology where experts and novices are alike ignorant.
He at first passes by as out of his province the more subtle hypothesis of modern phenomenalism, "I third vien which regards both the so-called 'brain' and the so-called 'mind' as merely phenomenal aspects of some one reality that is like neither, bnt manifests itself in both;" (p. 588): and when he returns to reconsider it later (p. 655), he seems to esteem this "donble-faced unity" as overthrown, hecause we have no answer to the question, "Why does it manifest itself both as physical motion and as mental states?"- Nevertheless, his own inclinations seem to leave him no choice but dualism of mind and matter, of which each half is mind with matter and matter with mind, a dualism from which Lotze has hardly saved himself.

In speaking of such a book it would be straining criticism too far to dwell on phrases like "visor angle," which fall strangely'on the English ear, or to complain of some: of the smaller points of ${ }^{-}$ omission. Still, in speaking. on sound we should have been glad to see Lord Rayleigh's great work mentioned, and on the larger issues of the physico-psychical problems some of those many original articles and pamphlets from Dr. Hughlings Jackson's pen, of which perhaps the most easily accessible results are contained in the Croonian Lectures for 1884.

Among the additions in England, which are perhaps almost too recent to be incorporated, we may reckon on the physiological side Mr. Victor Horsleys experiments on the brain, and on the psychological side Mr. James Ward's article on Psychology in the Encycloperdic Britannick, which practically amounts to a treatise. In his introductory chapter Mr. Ladd lias told us with excellent distinctness that "no attempt will be made to describe and discuss any of the phenomena which may be classed as abnormal or as consisting (so far as they are psychicil) as so-called "disturlances of consciousness," except when reference to such abnormal phemomena is necessary in order to explain those whicli are normal or ordinary. The phenomena of insanity delirium, hypnotism, somnambulism, ecstasy, mind-reading, spiritualism, or even sleep and dreaming will therefore be definitely excluded" (p. 8).

Ie has kept accurately to the pmident limes he has laid down. for himself, in this book, and we may hope that he may be in-: duced to go on with a firm grasp of his first principles and a wide view of his field to deal. with some of the prazzling questions of abnormalities which may be found to throw here and there a gleam of very vivid light on the true character of the natural man.

De l'Epiletsif Jacksonienne. Par le Dr. E. Rollant, Médecin des Asiles "John Bost, he Laforce. Paris: Aıx Bureaux du Progrèेs Ménical. 188.
THE form of opilepsy associated with the name of omr great nenrologist, Dr'. Mughlings Jackson, has a literature "which is singularly scattered, and Dr. Kolland has done the profession a great service in collecting what has been written of the disorder in the work before us, We cordially agree with the remark of Dr. Arnozan, in his introdiction to the beek, "that the auther has done right to publish lis work." It is almost entirely a compilation, but of such a kind as to be an exceedingly valuable belp. to all who are working at nervous disease, or are desirous of reading a complete account of unilateral or cortical epilepsy.
cent. The main features which distinguish it from other wheat prenarations are the mode of granulation adopted, which prevents the florador, when boiled, from gelatinising into a structureless paste, and the purity of its flavour. When properly boiled it furnishes not only a very good food for young children, but is a eapital basis for milk puddings and custards. Children will apıreciate the addition to their dietnry.

MALTINE AND COD LIVER OLL.
It has long been known that some patients who are unable to tolerate the purest and most carefully prepared eod liver oil can readily digest and assimilate it when mixed or combined with maltine and malt extract. Since this fact was first obserred a number of preparations of the two have been placed before the public; some are good, but many are either bad or indifferent.
The maltine and cod liver oil made by the Maltine Manufacturing Company, of Ilart Street, Bloomsbury, is certainly one of the best preparations of the kind we have met with. The admixture is complete and permanent, and the consistence is rery convenient, being about that of ordinary treacle, so that the liquill readily flows from the bottle. As regards taste, that of the cod liver oil is almost entirely concealed, and what suspicion there is of it is not at all unpleasant. The therapeutie ralue of good combinations of cod liver oil and malt extract has been so thoroughly recognised, and is so well known, that it is not necessary to enter into this part of the subject, but we can recommend that prepared by the Maltine Manufacturing Company on the ground of its perfect admixture, the ease with which it is assimilated, the good quality of the cod liver oil, and the value in disstaso of the maltine.

## NEURIN.

This is an efferrescing beverage manufactured by Mr. J. F. Edesbury, of Wrexham. It is perfectly clear and colourless, and is put up in bottles of the size of pint champagnes. It is nonphosphated, but ten grains of mixed bromides are contained in each bottle. When poured out the liquid is remarkably bright and effervesces briskly. The taste of the bromides is almost entirely masked, and, in fact, the sensation left on the palate after drinking the beverage is an entirely pleasant one. "Neurin 1. likely to be useful in those cases in whieh small and repested doses of bromides are indicated. The dose is stated

## LIQ. MODOPIIYLLIN゙ ET PEPSIN (IIOCKIN).

We have previously commented favourably on several prepara tions manufactured by Messrs. Mockin, Wilson and Co., of Duke Street, Manchester Square, and the preparation now before us iner no exception to the general excellence of those already examinen by us. It is a clear, dark-coloured solution, and mixes perfectly without precipitation with water and aqneous solutions, such as infusions, etc., as well as with alcoholic and ethereal liquids. It may be employed with adrantage in doses of one fluid drach. cases in which there is defieiency of gastric secretion associated with constipation and insufficient secretion of bile.

## SALIX NIGRA CORDIAL (CILRISTY).

Salix nigna, the black or pussy willow, is a tree indigenoustr the United States of America, but is found more especially along the streams towarls the south. It is stated to be a powerful sexual sedative, similar, in fact, to the bromides in its action, bu without having any depressing effect.
It is also said to be useful in ovarian hyperosthesia, dysmenor rhea, and uterine neuralgia. Prostatorinea and involuntary seminal emissions are stated to be lessened by its use, and it credited with possessing tonic and antiperiodie properties. It heli been reported upon favourably in this country by Dr. J. Iluteli son, of Glasgow, and Mr. Hurry Fenwick, of the London 10 pital.
The fluid extract is the preparation ordinarily used, but this has a very rough and astringent taste, which is very persistent. I obviate this Messrs. Christy and Co., of 25 , Lime Street, E.C., hay introduced a salix nigra cordial, mude so that one tablespoonful equivalent to one fluid drachm of Christy's fluid extract of sali nigra. The preparation is elegant and palatable, and the what agreeable taste of salix nigra is hardly pereeptible. Patients wil take Christy's cordial. The dose is from half to one tablespoonfu wheat an the wery finest description. Its composition, chemically. is that of good wheat flour, the albuminoids amounting to 12 per

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscmiptions to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Assaciation not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, Lendon. Pestoffice orders should be made payable at the West Central District Office, High Holborn.

## Tly Eritisl) Alediad Journal.

## SATURDAY, MARCH 24th, 1888. <br> THE LOCAL GOVERNMENT BILL.

There can be no doubt that the Bill for the reform of the local government of this country, which was introduced by Mr. Ritchio in the House of Commons on Monday, is by far the most comprehensive measure of the hind which has been yet framed by any ministry, Conservative or Liberal. The broad principles of the measnre will probably meet with very gencral acceptance, and they need not, therefore, be diseussed in these columns at any length. The establishment of an intermediate authority between the central govermment and local hoards has been an admitted necessity for the last fifteen yenrs ; and although one or two attempts have been made in this direction, no adequato scheme has heretofore been proposer. That the elaborate appatatus of the Local Government Board and Parliament should have to be set in motion for the everyday concerns of local authorities is ridiculous and wasteful; and to the establishment of County Boards probably few will be found to object.
The discussion of the particular proposals of the Government is, however, rendered impossible by the waccountable postponement of the appearance of the Bill itself until after Easter. Unless the rumours as to the dissensions in the Cabinet on this subject have much greater fomiation than usual, the Ministry must have made up its mind some time ago as to the details of the measurc : and it is impossible, without seeing tho text of the varions clauses, to follow Mr. Ritchie's necessarily complicated analysis of the Bill with any degree of surety.

As to the County Comeils themselves, there is but little ambiguity. Justice is to be administered as at present by the Court of Quarter Sessions, but almost every other kind of county business is to be turned over to lboards which are to bo elected by popular vote. Those Boards will administer county rates and financial business, bridges, lnnatic asylums, reformatory and industrial schools, the granting of licenees for music and dancing, the sale of alcoholic liguors, the registration of roters, and the administration of the Acts of Parliament relating to explosives, contagions diseases of animals, fond and drugs, weights aml measures, main roads, etc. At all events for the present, the area which each Council will supervise will be coterminous with the existing county divisions; and wo shall
therefore soe the anomaly of Rutlandshire having for its administration an appratus as elaborato as Warwickshire.

County Councils will be made up of members electerl on the same framchiso as municipal corporations are at present, such members to sit for three years. In addition to the elected members, there will be a species of aldermen, who will bo elected by the Council and will sit for six years. The ten largest boroughs of England will each hare a separate County Council to itself, and London, moreover, will have a Council of its own, which is to supersede and extinguish the Metropolitan Board of Works.

The proposals of Mr. Pitchie as to the manner in which the prinary local authorities will act under the county authorities are, howerer, much less clear. So far as we gather from his speech, it is still proposed to have two kinds of primary areas, namely, urban districts, which will be the "existing and future municipal boroughs and loeal boards and rural districts," and rural districts. It is not clear whether any place which happens now to have a local board will be permitted to maintain its separate organisation, or whether the county authority will map out the county afresh, so as to redress the anowalies which at present exist. Whatever may be the proposals of the Government on this head, we think that it is above all things essential that the sanitary areas of the country should be thoroughly recast. They have grown up upon no sort of system, and if they are perpetuated, endless difficulties will arise in the future.

However much the Bill might have been watered down, Mr. Ritchie wonld, in any case, hare had to confront a formidable phalanx of opposition. It is to be regretted, therefore, that the Government have not seen their way to go a step further, and to unify all the local authorities which now exist; so that there may be one local authority, and one only, exercising jurisdiction over a particular area. It is worth while in this connection to point out that nearly all the existing authorities are of modern growth, so that no halo of sanctity yet surrounds any one of them. No doubt the Government were wise in not attempting to hack about the present comenties, which have associations of well nigh a thousand years clinging to them. But the Poor Law Union is a creation of only fifty years ago, which for the first half of its existence had no common life growing up round about it. Local Boards are barely twenty years old, rural sanitary boarls only fifteen years old, and School Boards only a yenr or so older. These manifoll, intricate, and irrational organisations onsht eloarly to be amalgamated and co-orlinated. Yet wo find Mr. Ritchio proposing to leare the poor law mions and the poor law guardians absolutely untonched. This, in our riew, is the weakest part of his proposals. Johm Stuart Mill has, with his usual clcarness, rety well expressel what nught to he held in riew with regard to local administration. He says, in his Consilerations of Representative Govermment. that "in cacli local circumscription there should be but one clected body for all local business, mot different bodies for different parts of it. The local, like the national Parliament, has for its proper business to consider the interest of the locality
as a whole composed of parts, all of which must be adapted to one another."

All tho efforts of sanitary and local government reform have been directed towards this unitication of area and functions, and it seems to us a distinet flaw in the Govemment proposals that the aulministration of the relief of the poor should be divorced wltogether from the other parts of loeal administration.

Probably one reason why Mr. Ritehie has proposed not to touch this matter is his anxiety " not to overload the machino at starting ;" but it is olvious that unless the question is grapIled with in a comprehensive spirit, we shall have a repetition oi the constant tinkerings at reform which have been the bane of the local administration of the country for the last generation.

The only purely medical point which is braught out in Mr. Ritchies speech is the proposal to suppress the grants in aid of medical ofticers of health and inspectors of nuisances now given by the Local (rovermment Board under the Pubhic Health Acts. These grants were originally instituted by Mr. Stansfield in 18:2 as a kind of bribe to local authorities to accept the supervision of the Local Govemment Board over the appointment of these officers. But it has never worked well, and is, like many other grants in aid, an anomaly which an occasion like the present atiords a useful opportunity for suppressing. In heu of the grants in aid the Govemment intend to hand over to the local authorities tho receipts from licences for the sale of intoxicating liquors and various other licences, roughly amounting to $£ 3,000,000$. They propose also to grant what is described as "a substantial contribution from personalty" amounting to $£ 7,800,000$. This may very possihly mean that the Government are intending to make the inhabited house duty, which amounts to about that sum, a local instead of an imperial tax. As Mr. Ernest Hart ohserved in his address on Local Government delivered to the Sanitary Congress at Leicester in 188\%, there would be great advantage in the substitution of the various grants in aid by "a tax like the house tax, which is incomparably a more legitimate sounce of local revenue than the appointment of a local sanitary officer, for example, is is matter for imperial subsidy."
So far as can be seen at present the licensing part of the Lill is that upon which the chief opposition will turn. Happily a discussion on this point is beyond our province, and we may ho permitted to hope that the criticism as to the powers of the proposed County Councils with regard to licences will not wreck the other and more urgent parts of the Bill. Nothing ean well be moro anomalous and wasteful than our present system, and both parties must put forth a strong effort to make at least a start in Local Goremment roform, even if it he necessary to prostpone some imprortaut sections of the question for another. year.

> THE PIESIDENCY OF TIE COLLEGE OF PHYSICIANS.

Tue forthcoming election to the Presideney of the Royal College of Physicians will be regarded by the profession generally
and the well-wishers of the College with more than usual interest. In Sir William Jonner the Collego loses a President of conspicnous ability, great firmness of character, and largo social influence and interest in public business. It would at any time be diffieult to fill the placo of a man of so much professional and social eminenee and unselfish earnestness of purpose, and possessing so decided a power of guidance in public affairs. It is peculialy diftieult at the present mement, when the College is involved in public transactions of great moment to its own future, and to the prospects of medicel education and graduation in the
 Not many years have passed since the College of Physicians took up a new position in relation to the profession, and by creating a great class of Licentiates assumed new and enlarged duties and responsibilities to the profession and to the State, and this greatly magnified its rffice. Tho effect of this tardy but wise proceeding was to infuse new life into tho College, to replenish its then scinty exchequer, and to place it in the front rank of the large and active professional forces of the day. That step was not taken without the usual opposition from the elder and more conservative elements of the College, and its chief author, Dr. Quain, may to-day he heartily congratulated on the foresight and ability with which he led the College on that great oceasion into a path which has been one of prosperity, power, and enlarged usofuluess. At this moment, and as a natural consequence of its developed professional relations, and its large duties to the great elass of licentiates whom it welcomes from all the metropolitan and provincial schools, it finds itself 'called upon to assist in making sonse provision : for the more ready graduation of its candidates, and for' openimg to them faciities for the title of doctor of medicine which are grapted on equitable and not too onerous conditions to the students of other great centres of medical clucation in Great Britain and Ireland.

A Royal Commission is about to sit on the various schemes and counter-schemes proposed. The College of Physicians will play a large part, net only in the procecdings before the Commission, but also in the subsequent negotiations which will follow its report - the latter being probably the moro difficult and dehicate task. The present position of the College is one which will require of its President, not only the possession of ominent business qualities, but the habit of dealing with public questions and public men, tact, knowlodge of the affairs of the College, and of the other professional bodies which will take a friendly or an unfriendly part in the future negotiations." Many eminent physicians have neither the experionce, nor the social influence, nor the cleamess of intelligence, nor the presidential faculty which are neeted for the good guidance of affairs in this peculiarly important period in the history of the College. It is contrary to our custom, and would infringe the peculiarly reticent traditions of the College, if we were even vaguely to indicate the names of those who aro spoken of as likely to find their names in the lists roted on Monday next at Trafalgar Square, or to disciss, from however
impersonal a point of view, their respective public records; but we feel justified in expressing the opinion that there has rarely been an oceasion in the history of any public body when the best interests concerned require a more careful weighing of the proved fitness of the candidate for the trying public duties of the office, or one on which it is more important that individual likes or dislikes or minor considerations of a personal or irrelevant kind should he more deciledly put aside. We have indieated what will, we tlink, be generally recognised as the qualities needed at this time, and the character of the public record which should command the support of the Fellows. The 'College should, out of its rich personal resources, have little difficulty in making a selection which will answer to the necessities of the occasion.

MEDICAL APPOINTMENTS AND POLITICAL INFLUENCES.
Consequent on the promotion of Dr. F. A. Maccabe to the Local Government Board, Dr. G. B. 0 Farrell has been appointed medical member of the Prisons Beard, Ireland. The salary is $£ 800$ a year, and as the duties of inspecting reformatory and industrial schools are temporarily added, the annual income from both offices will be about $£ 1,000$,

We have no objection to make to Dr. OFarrell on any personal grounds. He has had three years' service as a Local Government Board Inspector, and before his appointment to that service he enjojed a large private practice. He is a gentleman of considerable ability, and he has fulfilled the promise . which he gave in a distinguished university career. But there lris claims end, and we are not surprised to hear that grave dissatisfaction exists as to the appointment. In writing on the subject of the public miedical service last week, we referred to the great weight which personal influence has in the filling of effices, and to the necessity that exists for more discrimination on the part of the Govermment officials who are entrusted with patronage. Here is a case of distinct hardship. The whole affair iras "manased." Di: O'Farrell was a candidate for the Local Government Board Commissionership. He had most powerful friends, but as he conll mot be given the best thing he was given the next best-he was made member of the Prisons Board rice Dr. Maccabe. No vacancy was declared, and even the chance of a racancy was not known until the appointment was declared.
Dr. OFarrell has no special kyowledge of prison work-- he never, we are informied, held a prisomappointment-and it is not a pleasant thing to hear it 'openly'stated that he owes his good fort une to the friendship of a Parliamentary official, In Ireland there is a large body of mectical men employed in tho prison service. They have to perform arduons duties, especially in these times; they are hadly pail, and they "not umaturally look forwand to wimning the only prize npen to theris. There are plenty of them who are men of marked ability: they are trained in the work; but twice in succession they have, been passed over in the ! nterest of ontsiders. When Mr. Furster"was Chiei Secretary.
the prison medical officers were promised payment for the increased duties; but his successor "and the Treasury repudiated any liability, and declined to pay. They are compelled to provide substitutes at their own cost, even when alsent on official duty. To find themselves "disheed" in this conl way, in addition to suffering other wrongs, is rather hard for their human nature. Were Dr. O'Farrell's abilities even far superior to those of all or any of the prison medical officerswhich it is not derogatory to him to say they are nothis appointment to the Prisons Board wonld be no less an insult to the prison surgeons of Ireland, and would be no less marked by the smartness of a political job. No one for a moment thinks that such appointments shall of necessity be vested in the service always to the exclusion of others. But, cateris paribus, promotion ought to be retained in a department, and not given outside of it. We do not wish to give the least pain to Dr. 0 'Farrell, who is a mest pepular officer and a cultirated gentleman, nor do we blame him for having taken advantage of any special circumstances to secure the position. But we do blame the system which in all political parties telerates this kind of thing. Public appointments-the more valuable they are, the better-seen to be fair game with both sides to bestow npon their friends, and we can only hope that repeated protests may in the end serve to break down what has become a public scandal.

## THE CLIFTON LUNACY CASE.

The case tried at Bristol this week and last is an instance serving admirably for illustration of the liabilities incurred, under the present lunacy laws, by medical men and others who aro in any way concerned in the confinement of persons, as being of unsound mind. In another column will be found an abstract of the case, as reported in. The Times. The plaintiff brought an action to recover damages against twe medical men for negligently and improperly, certifying her to be insane, and libel in the statement in their certificates that she was insane; and also against the Mother Superior of a convent for trespass and slander in connection with the acts of placiing her in temporary confinement, and eventrally under care and control. The jury fonnd for the defendants; and, waiving all the matters of fact with regard to which there 'wis any conflict' of evidence, it , is difficult to see how the jury could well have arrived at any other., conclusion. As , reported. the plaintiff in cross-examination, stated that on one occasions leaving the convent and taking a ticket for Liondon, she left the train at Swindon, went to a wood and lay down, intending to wait there for death, but changed her mind and went to a hotel instead; that in her opinion, all along, the real reason why the nuns had combined to get her slunt up was that they falsely considered her a person of inmoral charactor; and that she had broken ornaments and glass when in the asyhum because she was determined to give as mueh tronble as possible; leing convineed that she wra not to he releaser. Add to this the plaintiff"s letter, produced in court, and written to the Commissioners in Lunacy, in which she degseribort herself as being alnost perpetually in a state of
trance, "or, as they say, under the influence of some supernatural power," and while in that state as having made herself out to be a bad character by means of signs and words of which sho only anderstond the import after they were made and uttored, which signs and words were uttered independently of her actual will and knowlelge: and stated that there was no kind of insult or humiliation to which she had not been subjected during the preceding nine months. And this comprises only part of the letter. Further it was in evilence that from time to time the plaintiff had heen visitod and seen by Visiting Justices and Commissioners in Lunacy, who approved of her detention. These facts form a body of striking evidence, and may be considered quite irrespectively of the testimony of the medical defendants who signed the certifieates of unsomulness of mind and quite irrespectively of the evilence of the medical men under whose care the plaintiff was in different asylums.
The numerons actions taken against medical men for having signed certificates of unsoundness of mind, or against those who have to do with plaeing persons in public or private asylums are more than sufficient to establish the necessity for some more reasonably protective clauses in the future lunacy law. At present, anyone concerned in placing persons as of unsound mind under care and control is liable to a series of actions at law, no matter how carcfully or properly he or she may have actel in the matter; may be subjected to these actions long after the event, and no matter how unreal or factitions the grievance alleged, or how thoroughly the attack may break down, and may be left to bear, not merely the annoyance and loss of time, but also, perhaps, his or her own heavy costs, irrecoverable from an impecunious plaintiff.

It is to be hoped that in its final form the coming lunacy legislation will vastly improve this state of affairs.

The Croonian Lectures at the Royal College of Physicians will be given by Dr. Donald MacAlister at 5 p.ar. on Tuesdays and Thursdays, June 14th, 19th, 21st, 26 th, $28 t h$. The subject, as already announced, is " Antipyretics."
Mr. Thomas Bryant, whose appointment as surgeon to Guy's Hospital lapses from eflux of time in May next, will then retire, the governors having at a recent meeting of their court accepted his resignation. Guy's men far and wide will regret the severance of Mr. Bryant from the teaching staff of the hospital, in which he has held a prominent place for nearly thirty-one years. For fourteen years be was assistant-surgeon ; for seventeen years surgeon: and for'the last'seven years of that time he has been senior surgeon. Mr. Bryant has also held the LeetureshipinSurgery for thirteen years.

## CORONERS.

A Bres introluced by Lord Halsbury proposes to take away the appointment of coroners from the frecholders in counties and the council in boroughs, and to rest it in the Lord Chancellor. Another provision extends the jurisdiction of coroners to cases of fire. An inquiry as to a fire would, however, only be held at the request of the Metropolitan Loard within its area, or, of the borough council in a horough, or of a county magistrate elsewhere. Yrorision is also made for the revision of the remuneration given to coroners; and power is given to the Queen to fix by Order in Council the area of a coroner's jurisdiction in a county.

THE AITKEN PORTRAIT FUND.
We are asked by the treasurer to the Aitken Portrait Fund to intimate to the subscribers that the portrait of Sir William Aitken will be on view at the studio of the artist, Mr. W. 1. Symonds, Art Studios, Holland Park Road, W., on Harch 31st and April 1st, between the hours of 3 and 6 P.m. The picture will be slown to subscribers and their friendson presenting their cards.

## PULMONARY PHTHISIS.

The Revue de Thérapeutique of December 15th, 1887, published a lecture delivered by Dr. Vibert at the Paris Morgue, in which he stated that among 300 necropsies which he had made on persons who had died a violent death, he had in as many as 20 per cent. found evidence of old tuhercular lesions in the lungs, which had. healed.

THE QUEEN'S NURSING FUND.
At a meeting held at Grosvenor llouse on March 15th, it was formally proposed by the Countess of Strafford, seconded by Mrs W. E. Gladstone, and adopted, that $£ 70,000$ of the Women's Jubilee Fund-which had reached a total of $£ 84,116$-should be transferred to the trustees nominated by Her Majesty of the proposed Nursing Fund. Also that, after a sum of $£ 10,900$ had been retained for the statue in Windsor Park and contingent purposes, and after the purchase with the surplus of a personal ornament to be worn by the Queen, and any other payments, any balance remaining should go to the Nursing Fund.

A NEW DEVICE IN ELECTROLYSIS.
Dr. A. B. Carpenter announces in the Cleveland Medical Gazette a plan for applying electricity to the treatment of fibroid tumours of the uterus without troubling oneself about batteries. He says it is difficult to keep jar-cells and dynamos in working order, so he simply turns on the electric current from a street wire of the incandescent lighting system. He has had connections made in his office with the Edison incandescent circuit, and, by means of an ingeniously constructed rheostat circuit, the current is reduced so as to be scarcely perceptible. By means of a delicate instrument the current is accurately measured while passing through the patient's body. A switch-hoard is made use of, whereby the current can be increased from a fraction of a milliampere to the highest tolerant dose. The apparatus is absolutely safe, as the entire voltage of the wire can be handled with impunity. ,

## INQUESTS AND CHILD MURDER.

The lax manner in which some coroners fulfil their duties lias long been notorious, but we doubt whether a more striking illustration has ever been afforded of this than is shown hy a recent occurrence at brixton. The boly of a newly-born female infant was discovered, with the head nearly severed from the trunk. The East Surrey coroner held an inquest, which for its perfunctory character is not equalled by any similar inquiry that we can remember. A policeman deposed to having received the body from the man who found it, and to having taken it to the Brixton l'olice Station, where it was seen and examined by Dr. Knight, the divisional surgeon to the police. The opinion of the latter that the head had been nearly severed from the lody as by some sharp instrument, and that the child had not been attended to at birth in any manner, was duly given to the jury at secondhand by the policeman; and beyond the evidence of the finding of the body: they had nothing else upon which to found their verdict. This was to the effect that the clild was found dead with its throat cut, but that they had no proof as to whether it had had a separate existence. If the jury had said that no atterupt had been made to obtain any evidence as to this last point, the verdict in this respect would, at any rate, have been true; it is an
equivocation, to say the least of it, to say there is no proof of any particular point without making an investigation. But the first part of their verdict is even more objectionable, for they said the child was found dead, which must imply, as the correspondent who has drawn our attention to the case pointed out, that the child had heen living at some previous time. The jury had no right to assume that the cbild had ever lived, for there is, as is well known,' a presumption in law in all cases of this kind that the child was stillborn, and, therefore, in the absence of any evidence to the contrary, the finding of the jury riolated a well recognised ru:. It is not the first time by any means that we have had to complain of the way inquests are conducted in this district.

## MARCH DRAWING-ROOMS.

Mr. Punch, in his playful wisdom, has lately aimed his shafts, not a day too soon, at the system which must be held responsible for the woeful miseries endured by those who, at seasons like the present, desire loyally to show their dutiful allegiance to the Throne, Whensoever conventionalism is allowed, at tbe risk of health and of human life, to usurp the place of common sense, it is clearly the duty of the medical profession to let its roice be heard. When fair daughters of Ere, in so-called full dress, ingeniously display to the utmost their shapely arms and backs and busts; when, with the help of the modiste and the undressmaker, they approach as nearly to the nude as may be; when the young and beautiful, after a brief season of gaslight gaiety, are seen to be careworn and haggard; when matrons, beautified with feathers and paint, complacently smile at the sight of their daughters thns victimised; when modesty is thus shocked and common sense outraged, then we come to know that we are in the halls of modern fashion and enjoyment. Is the medical profession justified in witnessing such vagaries of human judgment without protest? Perchance the counsel of the wise, if properly directed, might yet succeed in coming to the rescue of long-suffering and half-clothed humanity.

## WAVES OF TEMPERANCE.

In a recent address, Dr. T. D. Crothers referred to the various temperance rerivals in America and England as physiological cyclones. Enthusiasts believed on each occasion that the power and influence of alcohol were destroyed for ever. Yet as each wave of enthusiasm receded, it was seen that intemperance flourished apace. The same ebb and flow of the tide of temperance is still witnessed. As the whirlwind of revolution clears the air and prepares the way for the adrance of truth, all these revivals and missions have directed the attention of the thoughtful to the study of the whole subject. The voice of science is beginning to teach that inebriety is a disease, and must be treated accordingly. Four medical societies and one quarterly journal are devoted exclusively to the study of the laws which govern inebriety. This increasing recognition of the disease aspect of intemperance is only the re-affirmation of a truth urged centuries ago, but the times were not then propitious for its reception and growth.

## PAUPER NURSING.

A question put by Mr. I'edder at a recent mecting of the LIolborn Board of Guardians clicited the reply that at the IIighgate lnfirmary there were fifteen wards, with an average of seventy-five patients in each, whose nightly wants were ministered to by one nurse for two wards. A member hereupon roluntecred the statement that there were helpless patients in one of the wards who had not been led or washed for four days. This a Mr. Miller emphatically denied. Mr. l'edder further said that two patients died in one ward within twenty minutes of each other, so they could have had but little attention from one nurse. The clerk
said that for the fifteen wards there werc eight "charge " nurses, eighteen assistant nurses, and two temporary nurses. It was resolved to consider as to appointing more assistance. Mr. Jacobs called attention to Gray's Inn Road lnfirmary, where he said there were I22 lunatics, imbeciles, and sick in seven wards, and cared for by only three nurses. Only one nurse was in charge of the whole number during the night. This also was referred to the Committer.

## A CENSURE ON A MIDWIFE.

In the case which has occurred at Birkenhead, we have another instance of a midwife endearouring to perform an obstetric operation, about which she could have known rery little, and for the performance of which she proved herself utterly incapable. Of course it is well known that anyone may legally perform any operation, no matter how difficult or important it may be. If. however, he or she fails to prove that the operation has been performed with competent skill, then an action may be brought against the offender. It is evident in this case that competent skill was not exercised, the midwife having failed to remore the whole of the adherent placenta; the coroner had therefore good grounds for censure, and the midwife may be thankful for the good fortune which permitted her to escape with so slight a penalty. Once more the necessity for legislation for the examination and registration of midwires is brought before us. An excellent Bill is already in existence, and generally approved and adopted. The action of Parliament alone is required. In the mean time the lives of mothers are daily sacrificed by ignorant and self-sufficient women, who undertake the duties of a calling requiring careful training and guarantees of efficiency. Public safety demands the attention of our legislators to put an end to this disgraoeful scandal.

## MEDICAL WITNESSES AT ASSIZE TRIALS.

A correspondent informs us that great improvement took place at the last Liverpool Assizes whieh are just concluded in the arrangements made for the medical witnesses. After the cases had been before the grand jury, the witnesses were told on what day the case would be taken, and that it would be unnecessary for them to attend during the intervening time; thus the medical mitnesses were enabled to return and make provision for the appointed day, and, as a rule, their case was taken on the appointed day. In one case the medical witness would have had to attend from day to day for ten days under the old arrangement, whereas he only attended three days, namely, the day for the grand jury and the day appointed and the following day; this was a convenience to himself, for otherwise he would have been ten days from his practice, and it was a saving to the eountry in fees in this particular instance of seven guineas. Evidently the action taken by the British Medical Association and, in the first instance by the Lancashire and Cheshire Branch, has borne some fruit, and what should be next done is to try and obtain adequate remuneration for the medical witness either in the form of a slidiner scale according to experience and standing in the profession, or a fee of not less than two guineas a day: "Surely", adds our correspondent. " there are none who will allow that a guinea is adequate remuneration for a witness who has to leave his practice and go twenty miles to the assize town."

## FURROWS ON THE FINGER NAILS.

Nearly twenty years ago Dr. Wilks directed attention to the fact that a transverse furrow appeared on the nails of the hand after a serious illness. Medical literature has since then contained a few references to the sulject: he again brought the subject before the fathological Socicty at its meeting on March woth. and related a remarkable case (see p. bith). In that case the
furrow was produeed in a :gentleman in robust henlth by three days' sea-sickness. Mr. W. W. Wagstaff, whose enforced withdrawal from notive work is a matter of so muell regret. addressed a mote to Dr. Wilks, containiug the following interesting observations: He pointed out that tho furrow was at tirst, when near the hunula, shallow, und difficult to identify, but that when it reached the midale of the nail, it was distinct, and often, especially in nails with longitudinal ridges, dotted. The furrow reached the middle of the nail about three months after an illness, but moved onwards towards the froe erid at different rates in warious "cases, the rate increasing as the free edge was approached. As a rule all the finger nails were affected, bite in some only the right hand showed the mark, and in others only special fingers, the ring finger most often escaping entirely. Mr. Wagstaff also stated that the furrows could be produced ly a local canse, and mentioned a ease in which the left hand was injured by a rocket stick, which fractured the metacarpal bone of the index finger, and the arm and hand remained in splints for a month ; the left hand only showed the transverse furrows, but on all the fingere.

## AN EPIDEMIC OF INFLUENZA FOLLOWING MEASLES IN ST. HELENA.

Ture following particulars of an outbreak of influenza in the island of St. Ilelena, which assumed an epldemic form in January of the present year, has been furnished us liy the colonial surgeon, IIr. F. S. Watson. He is iuclined to attribute its severe eharacter to the lowered condition of the people after a severe epidemic of measles which prevailed in the island from May to October, 1887, when it is estimated that, ont of a population of about 5,500 , from 3,500 to 4,000 suffered. Eight deaths only occurred, eansed by pneumonia and bronchitis; the prostration was nevertheless very great, it being necessary to keep adults on the sick list for an arerage of about one month. The symptoms of the influenza were a definite chill groing on to rigors, and ending in profuse perpiration. The chill commeneed usually in the evening, 'and the sweating about six hours after, followed by pains in the forehead, orbits, and ehest, and accompanied ly a dry hacking cough and aching in the limbs. The temperature varied during the chill from $105^{\circ}$ to $101^{\circ} \mathrm{F}$., and afterwards was about $100^{\circ} \mathrm{F}$. There was no coryza. The disease lasted about four days, and ended in bronchial catarrh or bronchitis, the latter being usual in delicute or old sub)jpets. One attack was a preventive against a second. The epidemic lasted ahout a month, during which time Mr. Watson treated about $1,(0) 0)$ cases, with 3 deaths from pnemmonia sind bronchitis. Coming so closely after mensles, it has considerably lowered the physical powers of the inhabitants, and it is thought, will increase the mortality, "specially among infants, for several years to come. An interesting fuature of this epilemic was that, though the disease attacked nearly the whole popmation without reference to European descent, those who had liverl on the island but a short time escaperl. Influenza colds are usual in St. Irelena at that time of the year, and \$1r. Watson asks: "Might not the disease have taken on the form of elldemic inlluenza due to the lowered enndition of the people after the ephdemic of measles?" A similar epidemic of inlluman oceured in the island twenty years ago, and -pilumics of mansles in lant and 1at3, whieh, Mr. Watson phints wat. followed tio uabal enurse amongst isolated communities, tho first epidemic bing very surew, hat morlifying the succeeding ones.

## SMALL-POX IN LEEDS.

The question whether the insanitary stato of a residence, conpled with dirty surrountings, could have any share in the production of small-pox, was referrel to by- Ir. Goldie at a recent meating of the lorkshire Asoociation of Medical Oflicers of Ilealth. Every speaker considered a distinet negative reply must be given to
such a question, an opinion with, which we are entirely in accord, What the origin of small-pox is no one knows but notwithstanding the statements of anti-vaccinationists, them is, not a partiele of evidence to show that it is cansel by a local insanitary condition. Dr. Bachanan has elearly shown that the poorer half of the vaccinated community in London hal netually less mortality from small-pox among its chiluren than the richer half (vide Jleventh Annual Report of the Local Government Board, supplement containing the report of the Medical Oflicer for 1881), and necessarily the poorer half are more exposel to such conditions as those mentioned. The difference is, indeed, due to the greater protection afforded by vaecination as performed at public stations.

## THE EPSOM COLLEGE BIENNIAL, FESTIVAL.

 A preliminane list of subscriptions and donations on the occasion of the biennial festiyal of the Royal Medical Denevolent College is published in our adrertising columns (p.47) this week, and it will be seen that the amount receired already exceeds $£ 450$. As we stated last week, so many gentlemen hare already signified their intention to be present that the list will shortly , hare to be closed. A complete list of stewarls will be published next week, and intending donors should communicate without delay with Mr. R. Freeman, the Secretary, at the oflices of the College, 37, Soho Square, WI.
## PARASITES IN FISH.

A writer in La Nature tells us that, amongst the raore recent discoveries of seientific research is that of the presence of parasites in fish. Of these tiny eel-like creatures ten kinds are recogn nised in the fish of the Mediterranean Sea, the Atlantic and Indian Oceans. They are generally found in some hollow part of the flsh's body, the cavities of the startish's respiratory organs being a very fuvourite abode. Sometimes, however, they attach themselves:to a part of the lish where life is not so easy a matter for them; for instance, they have been found in a pearl-oyster, buried in a eurl of the shell. These parasites do not endanger the . Life of the fish on whieh they live, as they feed on the microsenpic organisms which are washed into the earities of the fish by the sea-water-eating their messmates, is Vain benelen says.

## CONGENITAL FACIAL PARALYSIS.

Dr. B. II. Stepinan, of Zarudam, publishes in the Weekblad of the Dutch Tijdschrift vonr. Genecsliunde an account of a rare case of congenital facial paralysis, the explanation of which is very obscure. The subject was a womun to whom her mother had given birth before the arrival of the medieal man, the labour haviug of course been a simple and not a prolonged one. It was very soon noticed that the two sides of the face were different in appearance. the left being "like a mask," in striking contrast to the right, which was "full of expression." The condition remained unchanged as she grew up. When seen by Dr. Stephan, the pupils were equal, and reacted equally to light. There tras but little diffeulty in eating or drinking, owing to practice. Sensatinu was equal on the two sirles. The hearing was, howerer, sombwhat dull on the left side. No difference could he detected in the tympanic membranes. Dr. Stephan, on looking up the suhjoct in medieal literature, was nable to hol any description of ${ }^{2}$ a precisely similar casc. Professar Menseh, who mentions the existence of congenital facial puralysis in his lectures on the diseases of children, on being emmmunicatel with, replied that he had scarcely ever seen a cusp repurted, and that he did not know of any description which had been publisherl. Dr. Stephan believes that there are three form of congenital facial paraly - js. two of which are tramsient and depmen on the applicntion of forceps or the presure of a tumour, ete., Auring a prolonged lanour. and a third, of which his own ease is priags the only describet instance, where the paralyai is permanent. and where it may.
he suggests, depend upon necrosis, the main apparent difference lietween this and the other two forms being the affection of the hearing, which may, he lelieves, be an indication of the permanent character of the paralysis, its existence in any case being sufticient to cause the practitioner to give a guarded prognosis.

## TENIA AND CYSTICERCUS.

Dr. Gavor endeavoured to prove, in a communication read last year before the Academie des Sciences, that the cysticercus cellulose found in measly pork is not the larva of the common tapeworm, teenia solinm. His argument is chiefly based on the fact that the hooklets of tho tenis measure 160 micro-millimètres, whilst the hooklets of the cysticercus are from 180 to $2(0)$ micromillimètres in length. Dr. Gavoy admits that the head of the cysticercus which is found in the human brain is identical with that of the tenia solium expelled from the human intestines. He further notes that the Arabs and Algerian Jews, who never eat pork, are subject to tapeworm. Dr. Raphael Blanchard, in a letter recently published in the Proyrès Mélical, disputes the correctness of Dr. Gavoy's theory. Dr. Blanchard observes that Aloys: ${ }^{*}$ lumbert, Küchenmeister, Leuckart, Hollenbach, and lieller, have all separately proved by experiment that the cysticercus of measly pork becomes the tenia solimm of man when the diseased pork is eaten by human subjects. The question of the length of the looklets is, in Dr. Blanchard's opinion, of no ralue, as it is a matter of indivilual rariation. Lastly, he shows that the tienia of the Arabs is not the scolex or adnlt of the cysticercuz of measly pork, but the scolex of a larval form foumd in beef-in fact it is the tænia saginata.

PHLEGMASIA DOLENS AND GDEMA OF INFANTS. Dr. Léon Dranas, Professor of Clinical Obstetrics and Gynecology, Montpellier, has recently contributed to the Anmales de Giynécologie et dOBstetrinue a paper on the Probable Identity of the Edema of New-born Children and Phlegmasia Alba Dolens. He concludes that this odema is but one symptom of phlegmasia dolens developed in the course of the first few days after lirth. Itş causes, though very raried, are essentially of the same nature as in the adult, and may be divided into predisposing and determining. The principal determining cause is the incomplete estaWishment of respiration, including pathological and other obstacles which that function may encounter before arriving at its perifect stage of efficiency: The symptoms of phlegmasia are the same in the new-born infant as in the adult, allowing for certain modifications in relation to the special physiology of the first days of life after birth. There is likewise the same pathological anatomy in both cases; lut in the child the verious thrombosis is mure often sithated in the inferior vena cara. The treatment should be alike in both cases, and the samie dangers are to be feared in the infant and in the adult, though the relative lesser ritality of the new-horu child must always sender the prognosis less farourable in its case than when its mother is sinilarly attacked. All the precantions by which impediments to the establishment of perfect respiration are oreccome, including the arcilauce of hasty ant immeliate ligature of the umbilical cord, tagether constitute the true proply]axis against the affection in question.

## DEXTROCARDIA.

A cise of right-sided position of the heart was recently slown to the Vienma K. K. Gesellschaft der Aerzte, by Dr. A. Gruss. The patient, a young woman, agen 20 , was badly developed, and complainerl mucls of dysprne:a and giddimess. There had been some improvement of late years. The pulsitions of the heart on the rightside of the sternum were notem at birth, and there had alnays been some cyanosis and feeliug of coldness. There was no cardiac dulness on tho luft side: ou the riatht it hegan at the
fourth rib, extending inwards to the right sternal border, and downwards, being lost in the liver dulness. Auscultation rat realed in the second left intercostal space a distinct syatolic mur= mur, and there was a loud diastolic sound. The murmur was heurd in both carotids. The pulse was very small, but otherwise normal. The abdominal organs were normally situated. The diagnosis made was pure dextrocardia and congenital pulmonary stenosis, without malposition of the riscera in general. Yon Barmberger concurred in the didgnosis, and remarked that Professor Schrötter had lately stated that no single case of pure dextrocardia had ever been proved, whereas all anatomists of great ex: perience, for example, Rokitansky, Friedberg, Förster, etc., bad mentioned such cases, and he himself had seen two. The murmur was due to congenital stenosis, for the acquired kind was exttremely rare, though he and Dittrich had described such a case (due to a kick of a horse). The loud second sound excluded the aorta asits origin. He thought also that the great vessels were not transposed; the case had gone on too favourably for that supposition. Professor Kindrat said that the great vessels might be transposed, the position of the septum to some extent correcting the malposition.

## GUAIACOL IN PHTHISIS.

Professor Frinnkel, who has repeatedly adrocated the use of creasote in the treatment of phthisis, now recomimends guaiacol as the effective constituent of creasote. The ghod effects of the latter are, Fränkel thinks after-nine years experience of its effects in phthisis, unmistakable in a strictly defined class of caser. If used promiseuously in, this disease.. its gonl effects are distinctly evident in 16 or 20 out of 400 or $5(0)$ cases, and are due not to destruction of thie bacillus tuberculosis, hut to its favourable influence on the digestion. It has long been known that creasote is a mixture of different suhistunces, and last summer Professor Penzoldt remarked that gnaiacol appeared to be its strict therapentical constituent. Since then Dr. Sahli, of Eerae, has reported on the clinical uses of guaiacol, and Professor Fränkel has been using it since the begimning of the year in the following mixture, which suits admirably-guaiacol, 13.5; tinct. gent., Su: sp. vini rect., $250::$ vini xerici, q. s. ad colat, 1,000-a dessert spoonful in a wineglassfull of water two or three times a day. This mixture is superior to gelatine capsules or tolu balsan?. Sommerbrolt's praise of creasote is laredly justifiel by fact-: Fraukel remarks on this point that his own patients were nearly all hospital patients carefully investigyted, only nine beins private patients, whereas Sommerbrolt speaks of five thousan'l private patients, but without giving deanils. In due time crea sote (or rather, for the future, guaiacol) will take its propes place.

## GERMAN GYNEEGOLOGICAL ASSOCIATION.

The Centrablatt fiur Gynalkoluyie annomecs that the Secone? Congress of the Dentsche Gesellselnatt für Gynakologie will be: held on May $24 t h, 25 t h$, and 26 th, in the Fravenklinik of the University of Italle. The sittings will be hell from 9 to 12 and from $\because$ to 4 on cuch day. P'atients whom members of the Association -lesire to exhibit will be lolged, after due intice, in the wards of the Framenklinik. Fotice of papers and demonstratious must be sent to Professor kiltenbach on or before April ?yth.

SCOTLAND.
MEDICAL OFFICERSHIP OF HEALTH, ABERDEEN. O. Monday the Aberdeen Town Council alpminted I)r. Matilew Hay. Irafessor of Medical Jurisprudence, Therdeen Eniversitr, to

and resent the faet that use has been made of the professional

SMALL-POX IN SCOTLAND.
A FBW sporadic cases of smatl-pox continue to occur in Scotland, Two such have been observed in Inverkeithing, Fifeshire, where a large number of the workers at the Forth libridge are congregated The contractors for the bridge and the local anthority lave provided suitable accommodation for other cases, slould such occur.

INFECTIOUS DISEASES IN EDINBURGH.
Dr. Littlejohn's report for February stated that, during the month, 1,212 cases of infectious disease were reported, as compared with 765 in the same month last year, 468 in 1886 , and 292 in 1885. The large increase is due to the epidemic of measles which was and is still raging, there having heen 1,106 cases of measles alone, the remaining cases being typhoid fever, diphtheria, and scarlatina. The fatal cases were $t$ of diphtheria and 1 of scarlatina. The cases in the City llospital at the end of the month were 12:3, 63 ndults and 60 children; during the month 112 patients had been admitted, 155 were discharged, and 4 died. At the meeting of the Public llealth Committee, an application from the Admiralty was read, asking permission of the local authority to send cases of infections disease occurring on boarl gunboats arriving at Leith and Granton to the City llospital in Edinburgh, but the public health authorities have been obliged to refuse the application, as on various occasions lately the hospital has been barely large enough for their own uses.

## IRELAND.

## TIPPERARY UNION

The medical officer of this workhouse has directed the attention of the guardians to the want of hospital accommolation. He states that either additional accommodation must be provided or fever tickets of admission should not be issued for the next two months. There is, however, a large ward not in connection with the hospital which might be fitted up for the treatment of the non-infectious diseases of children. A committee of the guardians has been appointed to report upon the matter.

## THE VACANT LOCAL GOVERNMENT BOARD INSPECTORSHIP.

The racancy caused by the transfer of Dr. C. l. O'Farrell from the Local Govermment Service to the I'risons Board has brought forward many candidates. The salary begins at 5500 a year, and rises to froo, in addition to travelling allowances. Of the candidates, the following may he mentioned: Dr. Mepburn, Surgeon to the Meath Hospital, Dublin; Dr. Albert Mouillot, of Gorey ; Dr. Ussher, Dundrum.

CORK MEDICAL PROTECTION ASSOCIATION. A grameras, meeting of this society was held on March 17 th , to consider the recent correspondence with the Local Government Board in reference to Dr. Magner's case. There were prescni Dr. Stephen O'Sullivan, I'resident, in the chair: Drs. OMlynn, C'remm, farding, W. A. Cummins, Giusani, Daly, Tuoly, W. J. Cummins, Masner, lower, Donovan, Tanner, Burke, Golding, Sandford, Grattan, Cotter, Corby, Atkins, Ryan, etc. The following resolution was passed: "Resolved-Ihat this Association, apart from any personal or party sympathy with Dr. Magner, feels that one of its mumbers has been subjected to extremely harsh treatment, inasmuctu as is offence being no dereliction of professional duty, hut a $]$ olitical inisdemeanour for which he suffered the lawful penalty, he has, in addition, beon visited with professional ruin by practically the same authorities. We: feel it to be unreasonable that the punichmont allotted by the law slonild be deemed insufficien:
position of the offender to increase his punishment a hundredfold, and make him the scapegoat to bear extra penalties from which others have immunity. Further, we feel that the prospect of being suddenly ousted from their position for a fault utterly unconneeted with persenal character or protessional duties is likely to deter men of ability and inderendence seeking service as poorlaw ofticers-as in this case no previous intination had been given of the light in which such offences would be regarded. And further that, as our petition to the local Government Board (asking what we considered simple justice) has met with a refusal, we now appeal to the medical profession through the United Kingdom to support us in our effort to have him reinstated, and we feel confident that meanwhile no member of this honourable body will accept his position under the circumstances."

HOUSE OF INDUSTRY HOSPITALS.
At a meeting of the guardians of the North Dublin district, last week, the over-crowded state of the house was mentioned. Dr. J. Kenny reported that seventy-one inmates had to sleep on the floor. Aiter some discussion, the clerk was directed to write to the Chief Secretary, inquiring on what terms the adjacent hospitals could be acquired by the Board. It is not, however, likely that these hospitals will be handed over in the manner desired. The question of closing them is only part of a rery much larger one which involves the continuance of the Government grants as a whole, and many interests are involved. The Government are not at present inclined to take up the recommendations of the Hospital Commission. The Chief Sccretary's answer will, however, be awaited with some anviety.

## THE MEDICAL COMMISSIONERSHIP OF THE LOCAL GOVERNMENT BOARD.

The announcement which we were able to make in the Joursal oi Mareh 17th, regarding the suecessor of the late Dr. Croker King, was correct. Dr. F. X. Maccabe las been appointed Medical Commissioner of the Local Government Lioard. Without in any way depreciating other candiclates, it is generally conceded that the Government have in this case acted wisely, and no better occupant of the office could be found. Dr. Maccabe has lived an official medical life. He began life as a dispensary medical officer under the Poor Law; then became medical superintendent of the Waterford Lunatic Asylum (1865); was promoted to the charge of the Dundrum Criminal Lunatic Asylum in 1872; next passed into the local government service as inspector (1876): and from this, in 1885, to the Prisons Board as medical member of that body. He has served also, with Sir R. Rarrlinson, as a member of a Roysl Commission to inquire into the causes of the Dublin death-rate. It will, therefore, he seen that Dr. Maccabe has not only had very great departmental experience, hut tha: he has been a "markel" man in the most agreeable sense: and it is satisfactory to be able to say that his further promotion mects with the approval not only of the public but of the profession.

## A LEGAL VIEW OF TIIE LUNACY BILL.

Tur following notes by a lawyer who has had special experiener in lunacy laws will show how the present Bill is view ed by a legral mind.

The Lunacy Bill now before Parliament was read thrice last session in the Lards, once in the Commons, and then was withfra wn in the nsual massacre of innocents. It has been read twice in the Lords this session. Very little discussion in l'arliaraent has been its fate hitherto.

The Fill contains many amendments of the old hnacy law chiefly suggested ly lumacy officials hefore the Committee of the Commons in $188^{-8}$, but its chief feature is, as the Lord Chanemlor
tated a short time ago in the llonse of Lords, the introduction of he necessity for a judicial decision before reception of a private unatic into an asylum for care and treatment. There are also, omewhat in mockery of the loud outery of a certain section of he community against all private asylums, certain provisions in Bill to exclude any rivalry with the present licensees of such houses on the part of other would-be-licensees, whereby the ormer are, beyond all doubt, assisted.
It is notewortly that the Committee of 1878 conld not discorer single ease of improper reception, did not recommend any such judicial decision," and deprecated legislative interference with rivate asylums, thinking it bost to leare the question of their urvival or gradual extinction to the decision of the pulblic in heir future choice between private and other institutions.
A few words upon the judicial dceision. That decision, if not a nockery, must proceed upon legal evidence taken from both ides, and must be uron a full inquiry. Is the exeitement of that nquiry calculated to promote speedy mental recovery of a paient? Will it not at least delay treatment which all admit hould be carly in view to any recovery? Will it not necessarily dd to the cost of treatment? Will it meet the general desire for rivacy in the care and treatment of lunatic relations? There are ther, perhaps minor, matters for consideration. Are the most minent medical experts in lunacy likely to he witnesses at these aquinies? If so, at what cost? Will it be well that the medical ritnesses should be persons having little experience in lunacy? Vill an inquiry before a magistrate, possibly adjourned, not acilitate the eseape of lunatics from all treatment, and enable hem often to commit an outrage on society, or injure or ruin hemselves? Will not the cast or difficulty, or publicity, of the nquiry induce many to place their insane relatives in illegal and landestine charge here, or send them abroad? There are now hose who thus act, and the penalty inflicted on the gnilty, when rosecuted, is nominal.
It may be said in reply to these remarks, that there is a proision for an "urgency order." les; that is a provision imported rom Scotland, where the magisterial order, which follows it, is, practics, ministerial, the lanatic being rarely ever seen by the heriff. The "urgency order" enables a person to be received temorarily on a single medical certificate. Is that an improrement $n$ our present requirement of two medical certificates? Even a emporary detention may be ruinous to a sane man; and the cotch practice of sheriffs indicates plainly enough what the judicial decision" here will be. That decision will be simply dinisterial, yet will shield the petitioner from all that responsiility which is now so heary, and which is the chief check gainst improper reception, and it will substitute no other reponsibility whatever, save that of the magistrate, and he can uly be responsible for actually malicious conduct.
Is this legislation in favour of the liberty of the subject? What the present mischief which calls for remedy? Is it not a wellnown fact that while the Committce could not discover a single istance of improper reception under the order of a private indidual, several cases occur yearly of admissions into public asylums - pauper patients sane, though ordered in as insane by magisates who have seen and examined them.
In addition to the ahove remarks on the Bill, its other provisions ggest much minarourable comment. The framers of the Bill we evidently not been experts in lunaey; official suggestions we been mixed up with other undigested and indigestible matrs, and even the heroic features of the Bill are ill drawn. It may doubtful whether magistrates will he found in every district to Idertake the duties east upon them; certainly some will be holly incompetent to discharge these duties unless they abdieate cision to the medical practitioners called in, which is, if we are t greatly mistaken, the course now taken by many magistrates no deal with panper lunaties, and perhaps they could adopt no tter course.
It is earnestly to be hoped that "Trishry" will not smother all eussion on this Bill. Is it too late to ask whether the imprisonint of a person charged with crime is on all fours with the conil of an individual for treatment of mental malady?

Valuable lorse belonging to Mr. Holden, of Nenby LIall, Ir Clitheron, died last week from hydrophohia. The disease is 1 to be assuming serious proportions in the district. Two ses, tliree cows, and a large number of dogs are reported to e been atticked, and the latter have had to be destroyed.

## IRISH MEDICAL SCHOOLS' AND GRADUATES' ASSOCLATION.

The eleventh ammal meeting of the association was held at 49 , Lerners Street, London, on Mareh I7th (St. I'atrick's Day), when Sir Thomas Crawford, K.C.L., resigned the presidential chair to Professor Alexander Macalister, M.D., F.i.S. Imong the other members present were leputy Surgeon-General George Saunders, C.B., Irofessor Mapother, M.D., Dr. Macnaughton Jones, Brigade-Surgeon W. Alexander, M.D., Surgeon-Major Boileau, I.D., Dr. II. II. Phillips, Dr. T. Gilhart-Smith, Dr. W. II. White, and the Ilon. Secretaries, Drs. Stewart and Abraham.
The annual report announced a steady inerease in the number of members, the total now on the roll being 514, as against 466 on St. Patrick's Day, 1887, notwithstanding the loss of four members by death and four by resignation. Such satisfaction was expressed at the success of Sir Thomas Crawford in inducing the British Medical Association at its anmual meeting last August in Dublin to pass a resolution condemnatory of monopoly in hospital appointments. The Council is now in communication with the Irish qualifying bodies, and hopes, with their aid, in time to remore some of the disabilities at present affecting Irish degrees and qualifications in England.

The treasurer's accounts showed a balance in favour of the Association of $£ 15468.5 \mathrm{~d}$.
On the nomination of the Council, Dr. Richard Fegan, Blackheath, mas appointed president-elect. Brigade-Surgeon W. Alexander was re-elected honorary treasurer. The following were elected by ballot as the twelve non-eflicial members of Council for 1888-89, namely, Sir Thomas Crawford, K.C.B.; Dr. J. Nicholas Dick, C.B. ; Henry Fitz Gibbon, Dublin; H. Singer Gabbett, Eastbourne: J. Hill Gibson, Donglas Lithgow, Richard Heath, St. Leonards ; Macnaughton Jones; H. II. E. Phillips, Reading; T. Gilbart-Smitb, W. Diekson Smyth, R.N.; and W. I1. White.

A very hearty vote of thanks to the retiring President was passed by acclamation ; it was proposed by Dr. Gilbart-Smith, and seconded by Deputy Surgeon-General Saunders, C.B., who said that the regularity of Sir Thomas Crawford's attendance at the numerous meetings during the past year, notwitbstanding his many public duties, proved what a warm interest he took in the Association. Ilis ralue as a leader was markedly shown in Dublin, where he had exhibited great ability in the way be put forward the arguments against the exclusion of Irish graduates and diplomates from English hospital appointments.

Depury Inspeetor-General Lloyd, R.N., and Dr. W. H. Cullimore were elected honorary auditors.

The anmal dinner took place the same evening at the Holborn Restaurant-the I'resident, Professor Macalister, in the chairwhen seventy-three members and guests were present, ineluding Professor Corfield, M.D., Dr. Donkin, Sir George E. Paget, K.c:.B., Dr. J. Nicholas Dick, C.B.. R.N., Dr. Steet, and several ladies. The usual loyal toasts were duly honoured. The toast of the evening. "Success to the Irish Medical Sehools" and Graduates" Association," was proposed by Professor Corfield, who said that without such associations many most intimate friends in their student dars would become complete strangers to one another, so far at least as personal recognition was concerned. Dr. Maenaughton Jones, in reply, said that anod fellowship was certain to be promoted by a society such as theirs. In their list of members conle be found now the name of every teacher of note in the Irish medical schools. The President latl said that, having become the second largest medienl society in the three kingdoms, they were an acknowledged medical power in the land. This power it behoved all those eligible for membership, but not yet enrolled, to increase by joining their ranks and loringing up the total on their list to a thousand members. Sir George Paget, in proposing "The Medieal Departments of the Public Services," alluded to the fact that the Association hat now on its Council the two Directors-General-a fact of which Irishmen might well be proud. The toast was responded to by Sir Thomas Crawford and Dr. J. Nicholas Wick, C.B., R.N. "The llealth of the Guests" was proposed by the l'resident, who said they were to have had l'rofessor Curnow with them, and also that distinguished Irishman, the President of the Royal Society, l'rofessor Gabriel Stokes, but both those gentlemen had becu prevented at the last moment from fulflling their engagements. The toast was responded to byDr. Donkin. The proceedings were interspersed by Irish melodiee, rendered by Messrs. Groome and Martin and Dr. IÏ. II. Bourke.

## ASSOCIATION INTELLIGENCE.

## COUN゙C1L. <br> NOTICE OF MEFTING.

A arbeting of the Council will be held at the Ofices of the Association, No. 429, Strand (corner of Agar Street). London, on Wednesday, the 18 th day of April next, at $\because 0^{\circ}$ clock in the afternoon.

Frascis Fowre, General Secretary.
March 15th, 1889.

## NOTICE OF QLARTERLY MEETINGS FOR 1885. <br> ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Cuuncil or by any secognised Branch Council.
Meetings of the Conncil will be held on April 18th, July 18th, and October 17th, 1888. Camlidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than trenty-one days before each meeting, namely, March 2Sth, Juye 27 th, September 26th, and December 2sth, 1888.
Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless lis name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INTESTIGATION OF DISEASE.

The Report uyon the Consection of Disease with, Habits of Intemperance, which was presented to the Section of Medicine in the Annual Jreeting of 1887 will shortly be published in the Jorrsial.

Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geggraphical Distribution of certain Diseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etiologi of Phtilisis.
A fresh inquiry into the Oriain and Mode of Propagation of Epidemics of Diphtheria has heen issued.
Memoranda upon these subjects, and forms fur recording observations, may be had on application to the Secratary of the Collective Investigation Committee, 420, Strand, W.C.

## BRANCII MEETINGS TO BE IIELD

 will be held at the Salep Intirmary, on Tuestay, March 27 th, at 3 p.M. Mr. W. Eildowes in the chair. Gentlemen wishias to exhibit or real notes of cases. or to bring forward subjects for discussion, are requested to comounicate with the homorary secretary, EDNARD Curetos, Shrewshary.

Souta Wafes and Movmoctiohire Braxch. -The spring meeting of this Souta Wales avin Movmolthohike Bnaxch.-The spring meetrek in Aprlt. branch wilf he held at Pontyprita about requested to send titles to either of Members wishing to read papers, ete. are reqnested oriler that this may be inthe llonorary secretaries by the enit of March, in orter that thry may be inertert in the circulars.-AlFRED SRE
M.B., Swansea, Ifonorary Sceretaries.

Mptropalatan Countifs Braven: North Lovdor District.-The next

 Fown, on the wening of Wernesday, harele th, atmir, Some interesting eases F.M.C.S., Preailent of the Branch, will take the chair. Some interesting eases In the hospital will be exhibitel. Ilr. Ifood wilf remi a paper on Finpyema fol lowing I'nemmonts: or Clinimal Notes on Membranons Sore Throat. Th. new commithe of this riastrict will assemble at. 3 P.M. All members of the profession art wetgone to athenit.-GEORGF: IEENT, M.D., Honorary Secretary, 30 Canden Hoal, S.
 Thict.-The next moveling will he ludd on Thassday, Aprit 19th, at the Ifackney



What Sompragt Buaych.-The apring meating will be held at the Jatiway Hotel, Taunton, on Thursuby, dpril J2th, at or.m. Dinner at 5.30 ras . The Hotel, Taunton, on Thursday. April reth, at ar.... dinner is Bome Setting. Mr. Aubject settifd hy the Council to ber dachand attor dinner if eopital, and Demion. W. J. Yennr. Assistant-Surgeon to the Bristot Generat lfospital, and benion.


Council of the Association for the ensuing year will take place at this meatigg -W, M. K kLy, M.D., Tannton, Howorary Secretary:
 Distrlet will tako phoce on Eriday, April 27th, at the Hospital, (Iravesend. I. J. Bryden, Fisq., in the chair. Genilemen ilesirous of reading paturs or exhitioting epecimens are requested to inform the Honnary Sucretary of the Disiret bu later than April sith. Further particulars will be duty amnoment-A. Nankiyela, F.iB.C.S., St. Bartholomew's IIospital, Chithab, IIonorary se rotary.

 W. Chatdecott, Esq., of Durking, in the chair. D Dmer at 6 p.M., charke F., eax clusive of winc. The following pxpers, te., are promised:-Mr. A. F. Barkur: A paper on Two Successful Cases of Cerehal Sapparation, due to Ear Divas. A paper on tro Successful Cases of Crunshot Injuries.-A. Artmur Napyen. Mroad Oak, Cranteigh, Honorary Secretary.

Norstr of Exaland Brasicit. The spring neeting witl be holl at the Infrmary, Sunderland, on Wednestay, April 2ath, at 3 P.M. Members intending formary, sundernation or specimens are requested to communicate at onee withs the secretary. , The dinmer after the meeting will take place at the Queen's
 1Iutel, at a oelock. The tolowing papern ache ared ly Operation. Dr. Colef: A Case of Congenital Fistula of the stomach, Cared Citiren. Inr. Mears : is Ont the Treatment of Effusion into the Plenrs in Chatiren. Ambulance Work. Dr. Oliver: Notes on ant Lnusual Case of fannaturia.-G. A. Whitansos, F.R.C.S., 22, Elion Square, Newcastle-on-IVne, Honorary Secretary.
Norith of Ireland Brasom. - A general meeting of this Branch will be held in the lRoyal Hospital, Belfast, on Thurselity, April 19th, at, 11 A, st. . Gentlemea who wish to tring any business before the maceting will kiunly romnuminate as early as convenient with Jory W. Brers, M.D., Lower Crescent, Bellast, Ifonorary Secretary.
OXFORD Asid Distriem Brasch, -The next imeeling will be held at the fadeliffe Intimary, Oxford, on Friday, April 27 th, at 3 fow. Notice of papens he read must be sent to $W$. Lewis, Norgam, 12 , Broad Street, Oxfort, on or before April isth. A dinner Socretary two days hefore the mueting.--5. D. DAgbisghre and W. Lewis Morgas. Honorary Secretaries.

## SOLTH-EASTERN BRANC11: EAST KENT DISTRICT.

The spring meeting of the alove district was held at the Cottag 1Fospital, Ashford, on March 15th. Dr. Triks in the chair.

Next Meeting,-Dr, Parsons, of Dover, was elected clairman for the annual meeting of the District, to lie held at Canterbury in May next.
Representative on Council.--Dr. Parsons was again unanimonsly nominated to serve on the Council of the lssociation.
Abdominal Section.-Mr. Colvilie read notes of two casts abdominal sectiou, the first being one of acute strangulation o the small bowel. with symptomis nearly all masked; the operation was performed late, the patient dying soon after it'; the bowel had ulcerated. The secont case was one of retroperitoneal alseces The abdomen was opened, and after separating the , matted intes tines, the abscess carity gare way, this was washed out, and drainage-ture put in ; the patient mace a rapid and complete had covery: In both cases repeatcd doses of castor-oil and salts been given,-Dr. T. EAstizis, Dr, Joxce, Dr. Marshlul, Mr Whiteiead Reld, and Dr. Bowles took part in the discusion
Apoplexy-Dr. Bowless read a paper on two cases of apoplex and one simulating apoplexy; in which he spoke of the difficult of diagnosing mauy cases of apoplexy, and thought that vas section sbould be more often performed than it was at present.
Two Cases of Delirium Tremens and One Case of Alcotioh Paralysis.-Dr. Winzs read a paper on this subject. One of th cases of delirium tremens, was successfuly tronted hy the douche after treatment by ordinary remedies of morphine, chlora etc., had failed.

Cases that Unexpectedly Get Well, with some Riemarks on Prem nosis. - Dr. Txspx drew attention to the great length of time the many people lived when placed under fair conditions, in goo workalle health, though suffering with chronle organic disea-ts.
Cases.-At the close of the meeting, Mr. Coor'mie Wilkissu showed cases of surgical interest.
Dinner.-There were twenty-four members and friend presen fourteen of whom afterwards dined at the Saracen's, Ilead, unde the presidency of Dr. Wilks.

## STAFFORDSHIRE BRANCIT.

THe second general meeting of the present season was held at $t$. London and Yorth Western Hotel. Stafford, on Thursday, Febraa 23rd, 1848. The l'resident, Mr. W. D. Spantor; was in the chai and there were twenty-five members present.
New Members,-The following gentlemen were elected men bers of the Branch: Mr. Itorace IIartley, Stone; Mr. A. E. Taylo

County Asylum, Stafford; Mr. C. K. Strickland, Kidsgrove; Mr. James Scott, H.M. Prison, Stafford ; Mr. A. K. Holt, Mortl Staffordshire Infirmary; Mr. V. J. Jiagrane, The Leys, Darlas*on ; Mr. G. Bower, Dlacelesfield, Cheshire; Dr. Stirling Clhristie, Cston Hill-Asylum, Stafford.

Communications.-1. Mr. F. M. Blemer showed a girl, aged lis, admitted into the Staffordshire Infimary; July, Is87, suffering from a sprained ankle. Soon after the joint suppurated, and was opened and drained ; finally the lower epiphysis anf diaphysis of the tibia necrosed, and were eventually removed, the recovery afterwards being steady and uninterrupted.-o. Mr. l. M. Blemer showed a child with a joint in the middle of each clavicle. The abnormality was hereditary:-3. Mr. F. M. Dlcmer showed the bones of a boy's arm, amputated at the shoulder-joint, showing disease of the radio-ulnar articulation, and elbow-joint and extensive caries of both epiphyses of the hmmerns.-1. Dr. E. T. TrueCote showed a testicle remosed from a man, aged 48 , and weighing I $9 \frac{2}{2}$ onnces. The disease was round-celled sarcoma. Recovery was rapid.-5. Mr. Spanton exhibited several calculi from the sacculaterl bladder of a man, aged 51 . The first was remored ly lithotrity, and the others by lateral lithotomy once, and median lithotomy twice, followed hy complete recorery.-6. Mr. Spanton showed both ovaries and Fallopian tubes remored by abdominal section, for prolapsed cystic and adberent ovaries, followed by rapid recovery.- - Mr. Spanton exhibited photographs of a case of molluscum contagiosum, treated chiefly by incision. -8. Mr. Vincent Jackson showed a uric acid calculus weighing fiftyone grains, removed by suprapubic lithotomy, from a man aged 57. The calculus, which was flask-shaped, was tightly lodged in a diverticulum, on the left side of the base of the bladder at its junction with the posterior wall, and its remoral was with some little difficulty effected by means of the left forefinger, and a small vesical scoop. The remoral of the stone had previously heen attempted hy lithototrity, and by median and lateral perineal lithotomy.

Papers-The following papers were read: 1. Dr. C. Orton: Treatment of Rheumatic Fever.-2. Mr. F. M. Dlumer: Notes of a Case of Litholapaxy in a boy, aged $5 \frac{1}{2}$ years.-3. Mr. Spanton A Case of Retention of Urine due to Retroversion of the Uterus.

BATH AND DRISTOL BRANCH: ORDINARI HEETLGG. The fourth ordinary meeting of the session was held at the Museum and Library; Bristol, on Wednesday, February 29th, G. F. Burder, M.D., President, in the chair. There were present forty-nine members and two visitors.

New Members.-The following gentlemen were elected: J. Wilding, M.B., Bristol ; A. L. Marshall, M.D., Bath.

Cases.-The following cases were exhibited: 1. By Dr. C. A. Wigan : Pseulo-Hypertrophic Paralysis.-2. By Dr, J. Mrchell Clarke: Infantile Hemiplegia (witnout atrophy'), three cases. Infantile Paraplegia (with atrophy). Infantile Paralysis of Muscles, passing from Spine to Scapula.-3. By Dr. E. Markham Skernit: Adranced Julbar Paralysis; Complete Special and General ITemianiesthesia in a Male. Mr. Cross. and Drs. Shaw and llarrisos made observations on these cases.
Papers.-The following communications were also made: 1. By Dr. C. P. Coombs: On Splenic Leukiemia; Drs. Spender, Markian Skemritt, and Cianke, took part in the discussion that followed.-2. By Mr. N. C. Dobson: A Case of IIYdatid Cyst of the Omentum; Dr. I'rowse nad Mr. Barctay made some obSerrations on this case-3. By Mr. W. J. Pesay : A Case of Aente Intestinal Obstruction, with early operation and successful result. Drs. Newnham and Coombs commented upon this communication.

SPECIAL CORRESPONDENCE
PARIS.
[FROS OUR OWN CORRESPONDENT.]
Resection of Wrist.-Ill-Effects of Antipyrin.-Erythrophlain.Sulphur in Diphtherna.-Congress on Tuberculosis.-IIypodermic Injection of Iron.

1. Vernevil opened the fifth annual meeting of the Congres rançais de Chirurgie on March 12th. M. Ollier, of Lyons, spoke n resection of the wrist which, according to him, had of late een practised much more frequeutly than formerly. In 18.0
only 70 cases were recorded whereas in 1889 there were 170 cases. M. Ollier, who has himself practised it forty or fifty times, only referred to orthopserlic resections performed in cases of ankylosis. To preserve the functions of the part, a larger section of bone than was necessary for immediate cure must be resected; the digital and carpal tendons must be preserved, also those acting on the wrist. The morements of the thumb might be preserved. The joint being supported by these tendons, the fingers conld be extended and bent more powerfully; thus patients had been able to straighten their fingers with flumb-bells of 8 , IU, and 13 kilogrammes. In two cases of lateresection, M. Ollier remarked the formation between the extremities of bone of an osteo-fibrous pad, scattered through which were osseous nodules.

At a recent meeting of the Academie de Médecine, M. Germain Sede denied the report circulated in the lay press that on account of the disagreeable effects sometimes produced by antipyrin, the Academie had condemned that substance as a therapentic agent. He stated that these accidents were comparatively rare, and were of a mild and transient nature, and that if medical men in such cases would abstain from rashly administering atropine, which often cansed symptoms of poisoning, the ill effects of antipyrin would soon disappear, and recovery would ensue in the course of two or three days. M. Sée read a letter from M. Daremberg, in which that gentleman stated that be had obtained good results with antipyrin in patients suffering from migraine and tuberculosis. II. Itardy remarked that, although he had fonnd antipyrin generally gave good results, be had met with patients who prored refractory to its action. In certain cases it caused romiting or signs of cerebral depression, amnesia, syncope. etc., consequently he did not consider this remedy" so marvellous as it was generally held to be. He also warned medical men to be prudent in prescribing acetanilide, and related a case in which it had, caused sudden death after the eighth administration of a one-gramme dose. M. Dujardin-Beaumetz believed this to be a mere coincidence, and the case an exceptional one, but M. Hardy maintained that the extraordinary rapidity with which coldness and rigidity had set in caused him to attribute it to acetanilite. MI. Brouardel regarded it as more probably due to defective renal elimination, and added that it was very essential that the state of the kidneys should be ascertained before administering this drug. MM1. Gautier and Laborde were of opinion that the presence of aniline or any other impurity in the substance might account for many accidents, and that chemists ought not to be allowed to dispense it without prescription. M. Laborde had, under 11. Houdés direction, caused a dimethyoxyquinizine preparation to be made, and it invariably caused a sudden rise of temperature at the onset from ? 0 $r^{2}$ of a degree Centigrade, followed by a corresponding fall after a longer or shorter period of time. This thermic nction of antipyrin might be utilised experimentally with chemical reagents, such as perchloride of iron or uitrons acid as a test of the purity of the product. Locally, in Jypodermio injections, the mere contact of the substance with the tissues, especially the muscular tissucs, exerts on these a more or less marked irritating intluence according to the dose.
At a recent meeting of the Academy of Medicine, 31. Panas communicated the results of experiments with erythrophloin, which he had tried on human eyes, and on those of the lower animals. Ifestates that this substunce has a positive anresthetic effect, which lasts longer than that of cocaine. Ite considers it objectionable, howerer, on account of the violent pain and inflammation which it causes. 3I. Panas prefers cocaine, and condemns erythrophloein in ophthalmic surgery: he had used it in treating granulations and gramlar pamus, but the resudts were not satisfactory:

3t. Schnyder claims unfailing good results from local applications of Hower of sulphur and doses of chlorate of potash in diphtheria. The sulphur is insufllated over the part of the throat which is covered with false membranes. lu mild cases four insuftations a day are sufticient; in grave cases they should be repeated every two hours. The sulphur should also be applied to the nasal cavities if tber are filled with diphtheritic membrane.
The Congress to he held in Paris for the purpuse of discussing the question of tuberculosis observed in man and in the lower auimals will be held from the 25th to the Blst July. The following oftestions will be discussed: The dangers caused by the consamption of meat and milkobtained from tuberculous animals, and the preventive measures to be taken? Which are the human races
and apecies of the lower animals most especially predisposed to contract tuberculosis? What ure the channels by which the tuberculous virus is introducel into the animal economy and propagated? The enrly dingnosis of tuberenlosis in man and the lower animals. M. Réné Serrand has recently publisheel a book (Due Diaqnostic Précoce de la T'uberculose chez l'Ifomme. J. B. Bailière. 188() in which many of thess subjects are treated, especially the question of the early recognition of phithisis, lle statesthat patients wholater on are attacked by pulmonary phthisis always present marked pharyngo-laryngeal symptems, such as anæuia of the Hharygeal mucous menahrane; imperfect apposition of the vocal cords, owing to atony of the adductor muscles; localised congestion of the mucous membrane covering the arytenoid cartilages, resulting in a swollen condition of this region. These three symptoms can exist separately or simultaneously ; the presence of one indicates the possibility of future pulmonary phthisis, the three together are a certain sign that it is impending.
31. G. Gudoric Hirschfeld has lately discuesed the question of hypodermic injection of ferruginous compounds, in a thesis for the Doctor's degre. After a short review of the various works which have appeared on this subject since 187:, when Professor Rosenthal, of Viema, first employed iron preparations in hypodermic injections, the author proceeds to describe his orn experiments at the llopital Cochin. llis observations hare led him to conclade that the method of administering iron preparations hy means of lypodermic injections is excessively painful to the patient, and inefficient in its result. In defending the system of administering iron compounds internally, M. Hirsclifeld quotes the opinion of lrofessor hayem, who states that he has hardly peer met with a patient who could not take irou salts. 11. . Hirschfeld has closely studied his subject, and the result is a work of considerable interest and merit.

## VIENNA.

[FRON OUR OWN CORRESPONDENT.]
Erythrophloen as a Local Ancesthetic.-Removal of Tumour from the Bladder.-Co-existence of Syphilis and Cancer.
Dr. Lewiv's report on the extraordimarily good effects of erythrophloein as a local anesthetic has induced several investigators in Austria and llungary to make a series of experiments with this substance. The general opinion seems not to he in favour of the statements made by the Berlin observer. l'rofessor von Reuss, of Vienna, has made a series of experiments on the eye, and reports as follows:-On the instillation of a 0.05 per cent. solution of erythrophleein into the eyes of patients suffering from trachoma, the sensibility of the cornea and the ocular conjunctiva became impaired; this condition hecame still more pronounced during the ensuing half hour, but completo anmsthesia conlel not he ohtained. Applications of solution of sulphate of copper and nitrate of silver to the eye were felt just as nuch as on the ather we (which had not been anæsthetised). Neither subjective disturbances nor any objective signs of irritation conld be nlserved after the instillation of the erytbrophloin. In a patient in whom iritis had just completed its course, almost complete anesthesia of the cornea was produced after thirty minutes; after about eight hours the patient was seized witer and ciliary injection could be seen after twenty-four hours. In a casc of chronic iritis, anesthesia did not eome on for an loour, and did not begin till forty-five minutes after the application of erythrophloein. Professor von lewss next tried a 0.25 per this strength, a disagreeable sensation in the eye was felt in some cascs, and in others burning and prickling pains, as well as contraction of the eyelids and redness of the conjunctiva, supervened. In a lad aged 15 , who had to be treated with the galwano-cautery for ulceration of the cornea, the pain caused by the erythrophlein was so severe that the patient wept. The decrease of ansibility in most of the cases was fir:t noticed tifteen minutes after instilIation. After forty-five minutes there was anesthesia to contact with a smootli piece of wood, but slight scraping with a piece of paper was still felt. This condition lasted for two hours, hut a certain degree of impairel sensibility could still he noticed after twenty-four hours. In the case of a patient with leucoma of the eornca, who had alrealy once been tattooed under cocaine, ansesthesia seemed to be present twenty-five minutes after the applieation of erythrophlowin; lut he felt the punctures so much that a second instillation of erythrophloein had to be resorted to. When tattooing was performed after forty-five minutes, the punctures
were still more felt than they had been under cocaine. In a case bility of the cornen eonla be produced: and in the case of nleer of the cornea referred to above cocane had to be resorted to for the application of the galyano-chutery. Among the clanges which the rye naderwent in these cases, dimness of the cornen was found to be regularly preserit. Dimness of rision came on after about two hours and increased until the erening, the erythrophorin having been applied in the morning; the eye was irritate4l, there was lachrymation in some cases, pressing and pricking pains were felt during the evening. The other symptoms, such as reduess of the conjunctiva, ciliary injection, etc., which had beeu ohsermil after the instillation of the 0.05 per cent. solutions, were noticed to be present now in a much higher degree. As the $\frac{1}{4}$ per cent. solution of erythrophleein had proved to be too strong, the anthor, in a third series of experiments, used a 0.125 per cent. solution. The first instillation of this strength wha not attended with any trouble whatever. After trenty-five minutes the sensibility began to decrease, but after an hour there was no longer any diminntion of sensibility. The cornea remained clear. A second instillation of the same solution on the same patient was followed ly pricking pains and symptoms of ircitation of the eye. Fifteen minutes later anesthesia came on, which increased to such a degree that the patient had but little sensation. On examination of the eye six hours later the cornea was cloudy, but did not show any trace of stripes. In the evening, (nine hours after the instillation) severe pricking paius superrened, which lasted for three hours, and finally disappeared, toeye had resumed its normal appearance, but the sensibility of the cornea was still slightly impaired. Dilatation or narrowing of the pupil was nerer observed, and its mobility as well as the accommodation of the eye did not undergo any change. Summarising the results of his experiments with erythrophloein on the eye, Professor con Reuss states that the sensibility of the normal humau cornea becomes impaired by it to a differeut degree in different individuals, but that the anresthesia is never so complete as that produced by cocaine; its duration, however, was longer. The weak solutions ( 0.05 to 0.125 per cent.) When applied once did not produce any disturbance, but neither did they cause sufficient diminution of sensibility. The repeated $\frac{3}{4}$ per cent. solution, were, however, always more or less attended with severe pain and corneal opacity. I may add that Docens Dr. Königstein, of Vienna, who had undertaken a number of experiments with erythrophlein on the eye, testing its effect on the eye of anmals and the normal and diseased eye of man find a place in eye conclusion that erythrophlocin will no experiments with erythrophlocin on seventeen cases of diseases of the skiu, in the dermatological clinic of the Gencral Ilospital arrives at the following conclusions: Sulicutaneous injections o erythrophloein on man produce local anesthesia. The dose whic to 0.01 or 0.02 grammes. Aniestluesia wias not produced until fifteen minutes after injection, but a certain amount of diminution of sensibility could sometimes be observed after a shorter interval of time. The anmesthesia as well as the diminished sensibility lasted from one to thrce hours. The ana
thesia atfected only a small middle zone of the area into thesia affected only a smal midal
which the injections had becn made. The large margina area was parasthetic, and sometimes showed anesthet parresthetic points diffnsely mixed with each onasthesia, the sensihility of touch was hardly ever quite absent. Symptoms of local irritation were ohserved after the very smallest doses such as 2.5 milligrammes, and were always present on the application of doses of from one to two centigrammes. symptoms were characterised by burning sensations in the ares of injection, and severe shoting pains, which lasted for man hours, and eren one or two days. The objective symptoms wer redness, swelling, and increase of temperature in the area of injec tion, and elevation of the skin in the form of pomphus. Genera toxic symptoms supervened after from a quarter of an hour symptoms men a dose of two centigramames was used aymptoms consisted in gidliness, dilatation of the pupile
impaired and retarded action of the heart and the pulse as win as in accelerated and shallow respiration. Nausea and romitin were also ohserved in some cases; all these symptoms lasted fo
everal hours. In Professor Kaposi's opinion, erythrophloin cannot t present be recommended as a local anrsthetic for practical urposes. He even belieres that, owing to its general toxic effects, nd owing to the fact that the toxic dose differs but little from hat which is required for prorlucing loenl anæsthesia ( $0.0^{\circ}-0.01$ .005 grammes), the use of erythrophloin should be discouraged. Professor Antal brought before the same Society a patient from rhom he had removerl, in June of last year, a papilloma situated the fundus of tho hladder by a modified "high operation." The round healed by first intention, and the patient recovered. In ix months after operation haematuria again came on, and the atient also stated that in December he noticed that small "bits of flesh" passed with the urine. In January, 1888, the patient Fas again admitted under l'rofessor Antal, who found, on eystocopic examination, that a pedunculated tumonr with a nodular urface, and situated on a swollen and relaxed mucous membrane, ras present near the opening of the bladder. The examination urther showed that at the place from which the tumour had been emoved a year previously there was only a white patch: hence here was no recurrence of the first growth. Ife introduced a traight forceps throngh the urethra into the bladder, and suceeded in tearing off the tumour, together with the pedicle. The arts of the tumour which had been thus torn off were in part reaored by the forceps and in part by the catheter. Repeating hese manipulations several times, the whole growth was got way. Microscopical examination of the tumour showed that it ras a "papilloma fimbriatum" (Thompson). The case was ineresting from the etiological point of view, as the patient had uffered from gonorrhos and inflammation of the neck of the ladder, and the causal comnection of this condition with the deelopment of the tumour could not be doubted. Noreover, this ras the first case, within the knowledge of Professor Antal, in shich the male urethra was used for the remoral of a tumour. At a recent meeting of the Wiener Medizinisches DoctorenJollegium, Professor EJWard Lang, of Vienna, read a paper on e Co-existence of Syphilis and Cancer. But little attenion had been hitherto directed to the fact that syphilis ometimes formed the predisposing soil for the development cancer, or that both diseases might be combined with ach other. Setting aside some obsersations of comparatively ittle value which had been nade by ancient authors on this subect, it was especially llutchinson and Langenbeck, who, before rofessor Lang, had directed attention to the simultaneous occurence of syphilis and carcinoma. The speaker had observed such combination fonr times. The first case was that of a patient rho had been admitted in 1883 under his care when he was at nnsbruck. Besides an olel-standing iritis and other symptoms of philis, he was suffering from serpiginous and gummatous ulcerahons on the nose, the cheek, and the angles of the eye. Most of he ulcers healed under antisyphilitic treatment, except one, vich gradually changed its character and assumed the form of "uleus rodens," that is, a flat carcinoma of the skin. The atient was translierred to the surgical clinic, where he underwent in operation, and microscopical examination proved the simnlaneous existence of both syphilis and carcinoma. The second ase was that of a patient aged 46 , who had previously been reated for recent syphilis by l'rofessor Lang. There were syphiitic infiltrations of the floor of the mouth and under the tongue, ad, moreorer, various syphilitic infiltrations over the occipital rue and the body. All these lesions subsided under the influence f a common antisyphilitic treatment except the infltrations of he floor of the mouth, which becane transformed into cancer. he third ease was that of $n$ man ageal about 30 , who presented a yphilitie nleer on the under lip. The nlen disappeared under ntisyphilitic treatment, but relnpse and transformation into car-
inoma oceurred a year later. In all these cases the correetness of inoma oceurred a year later. In all these cases the correetness of he diagnosis was proved by the nnatomical axamination. The ourth case was shown to the Society. The patient had extensive cars, uleerations as well ns infiltrations on the forelead, loss of he entire nose, loss of substance on the npper lip. uleeration and erforation of the hard palate, perforation of the soft malate, aud ieatricial retraction of the mola. On admission of the patient ito the clinif of Jrofessor Lang, in the middle of January last. ome of the ulcerations were covered with a white tallowy mass. hich lexl l'rofessor hang to suggest the presence of a combination f syphilis with carcinoma. The mieroscopical examination, howeer, revealed only the presence of pus corpnseles and proxducts of iter on slightly diminished, but from four to fire weeks later a
vegetation on the anterior end of the ulceration of the hard palate appeared, the character of which was incompatible with that of syphilitic ulceration. A part of this regetation was excised, and the microscopical examination of it, which was made by Professor Weichselbaum, showed that it was " epithelial carcinoma."

## SWITZERLAND.

[FROM OUR OWN CORRESPONDENT.]
Hairpins in the Hemale Bladder-Bacterio-ckemistry of Tarel's Bacillus Strumitis.-Pigments of Green Pus.-Idiosyncrasy of Quinine.
Professor Auguste Reverdin has recently published (in the Revue Médicale de la Suisse Romande, January, I888, p. 33) a paper on hairpins in the female bladder. In less than three yeara be has met with four cases of the kind. which are remarkable, not only for their purely surgical interest, but from the fact that in only one of them was any secret made of the cause of the mishap. One of the patients, a married lady, aged 22 , mother of a boy 10 months old, sought his help on the sixth day after the accident. Withont the slightest hesitation or shame she stated that she had been in the habit of masturbating in that way ever since her school days. Her husband, a school teacher of thirteen years' standing, who was present, did not seem in the least surprised or slocked at this confession. Another patient, an unmarried woman, aged 42 , a clergyman's servant, came on account of "her having apparently something (quelque chose) in the bladder." After the quelque chose (in the shape of a hairpin) had been extracted on the spot, the patient, on leaving Dr. Reverdin"s house, adrised his maidservant "never to go to bed without having previously removed all pins from your hair, otherwise some triste accident may. so easily happen." A third patient, an English girl aged I\%, said she had some time previously introduced six darning-needles into her rectum and two hairpins into her bladder; the former disappeared altogether, but the latter were found amongst the fragments of a resical calculus which measured full 6 centimètres in diameter, and was remored by lithotrity. According to the patient"s own statement she had pre riously consulted two "professors," who, after due examination, had recommended her exercise and iron. The fourth patient was a diminutive girl aged I2, who openly confessed that whilst she had inteaded to introduce a hairpin into her sulra, the pin had slipped from her fingers and disappeared somewhere; she bad at once taken another pin, which had followed the same way. Both were found in, and extracted from, her bladder. Commenting on this "epidemic" of hairpins in the bladder, Dr. Reverdin says that " masturbation in that way is practised by women much more frequently than is generally supposed." The hairpin is so often used for the purpose simply becanse it is always within reach of every woman. Some use it to titillate the clitoris; others put it up the ragina, or at least intend to do so, but sometimes, owing to their ignorance of anatomy, accidentally introduce it into the urethra instead. Others again-prohably a minority suffering from some perverted sexual sensations-intentionally push the hairpin into the urethra. The slipping of the hairpin into the bladder is attributed hy Professor Reverdin to a combination of severnl causes, namely, the weight of the pin, the spasmodic contraction of an irritated urethra, and temporary unconsciousness of the woman from excitement. The method of extraction must necessarily vary according to the peculiarities of the individual case. In cases of long standing, when a stone has formed around the foreign body, lithotrity must be performed: but when the surgeon finds only hairpins, with or without inerustations, the best and simplest method will be to extract the foreign body by means of a pair of fine, slender, straight forceps introduced through the undilated urethra and guided by a finger in the ragina. The first point in such cases is to ascertain the exact position of the pin. If it is lying with the bent end towards the urethra, there is nothing easier than to seize and pull it out. When the pin lies in any other position, "version " of the pin should tirst he performed by gentle manipulation, so as to get the bent end forward. In the first of the cases just related a superficial incision into the uretlura proved to be necessary in orler to disentangle one of the pin's legs. the patient laving previously applied to a midwife for surgical help.
N. James Kunz has recently carried out some interesting hac-terio-chemical investigations in l'rofessor von Nenckis laboratory at Berne. One series of researches was undertaken on the che mical products of Tavel's bacilhus strumitis cultivated in a

gencrally with vomiting. Almost immediately after a hearty meal a boy may complain of headache and lateral pain, and look depressed, and be tottering on his limbs. The first temperature taken may be already $103^{\circ}$ or 1049. A drowsy tendeney is generally ovident. The specitic poison may kill within three or four hours of the first declaration of illness. If the natient reaists the first assault, in a number of cases pneumonia, cither single or double, is developed, but a pure febrile state, with high ranges and irregular intermissions, may ensue. At no time is there diarrhcea: In a few cases the fever passes off, sometimes in a few hours, with deep sleep aud it may be perspiration, and the patient is well: but in all there is an increase of temperature, however short. In searching for the cause of this puzzling outbreak, Dr. Russell found anything connected with the food excluded by the circumstance that the girls and boys are fed with the same food, distributed from a common store, cooked in the same kitchen, and eaten in the same dining hall. let, up to the date of the report, only boys were attacked, though the disease was not confined to any class of boys or any one dormitory. Examination has, however, been made into the source and quality of the food and of the milk. No pleuro-pneumonia existed at any of the farms from which milk was obtained. The drains are also being examined. Dr. Russell has no information of any similar disease in any part of the town, and has not yet discorered anything similar on record. He points out, however, that the local tion, which call for urgent representation in the proper quarter of its entire unsuitableness for the purposes of an industrial Within a, few years outbreaks of typhus and scarlet ferer and small-por have occurred within it, causing loss of life, and cor and the local anthority large sums of money. It is situated in the centre of a manufacturing district of the city, and a graverard. still in occasional use, is its only free space. The building is defective in structure and accommodation, especially on the bors' side. There are not sufficient sickrooms, and there is no mortuary. The boys' lavatory is cold, damp, and unwholesome looking, Without hot water \&t the taps. Every part of the house is filled appears, there is no possibility of separating the ryell fry kind appears, there is no possibility of separating the well from the
sick, and disaster is inevitable. A test of the drains, made since the report was issued, disclosed some defects in the soil-pipes within the house. In tho washing-house there was a serious escape, and in the lavatory were six choked bell-traps: The Mealth Committee of the city have instructed that the report be forwarded to the Secretary for Scotland, with the request that school on its present site.
The number of cases of typhns fever registered in Glasgow during the last fortnight was the same as the preceding two Weeks, 17. There were also $\%$ cases of enteric fever, and 16 undefined, inchuding those removed from the Roman Catholic Industrial School. One genuine case of small-pox had been found, the
first since Janury, 1886 . The patient was stoker of a steomer which left Santander on February 16th. He sickened stamer, 2end of that month, and reached Glasgow on the 25 the The the ease was happily recognised by a practitioner on the 27 th, and the patient's remoral to Belvilere was effected. A large and influential deputation waited on the President of the Council at the l'rivy Council offices, on March 19th, to urge the necessity of the foverument unlertaking an investigation into the nature and tratment of pleuro-pnemmonia in cattle. The deputation represented twenty-nine different local authorities. It was stated that since le7t there had been an annual 1887, while in 1884 there were only fifty-five. In 1887 the expense for compensation had amounted to over £34, ono. In Lanarkshire alone since February, 1887 , there had been spent in compensation almost $£ 19,000$, while the whole of the previous expenditure from 1872 to 1857 had heen under half that figure. in reply, Lard Cranhronk promised a very careful inquiry, thongli he cond not undertake to promise a Royal Commission. The value of inoculution is maturally one of the chief questions which the depuitation wished to be carefully investigated.
Ir, Andrew Wilson begins his anmusl course of free Combe Lectures on physiology to tonchers in flasgow on April 3rd. Tis
subject this year is the Physiology of Motion and Nutrition. The subject this year is the Physiology of Aotion and autrition. will be granted to member of the g neral pullic desirous of attanding.

## CORRESPONDENCE

## 'REATMENT OF UTERINE FIBROIDS BY ELECTROLISIS.

 Sir,- "I did not intend to take part in the discussion on the solled "Apostoli method" of treating diseases of the nterns" (inding fibro-myoma), because I have never tried it, and being a rgeon, do not intend to, as I think it may more jroperly be left the obstetrie plysician. A very brief and misleating report of e remarks I made in a discussion at the meeting of the West indon Medico-Chirurgical Society on March 2nd seems, however, necessitate some exposition of my real views on this subject.1. Ithink the 'rhole discussion premature, becanse we know at fibro-myomata are most uneertain in their habits of growth d retrogression when left entirely to themselves, the most surising alterations taking place in periods of three, six, or twelve onths. Such alterations are still more common if the patients are refully handled as to diet, alcohol, rest at the periorls, and ecial medieines.
?. Nothing which has yet heen puhlished by Apostoli or his lowers is incousistent with these natural, or slightly aided, anges, and the results obtained are probably as much due to the it and eare while under treatment, powerfully aided by the ect on the nerrons system of confident hope of cure, as to the ecific action of eleetricity.
2. No results can have any scientific ralue till the cure is proved a suffieient interval of health for at least twelve months after a treatment has ceased.
We do not yet fully appreciate the dangers of the method, I ow of one case in which rapidly fatal pyæmia followed a rery x applications in the hands of one experienced in the use of e method. The journals tell us of narrow escapes, and even cli caretul manipulators as the Keiths record a serions ease of lulitis, of which the gravity is not lessened by attribnting it to ecarelessness of the patient.
3. I would ask the profession not to be carried away by the thusiasm of anyone in a revival of this kimd, but to wait tiently for definite results, confirmed by suffieiently long inter-

Let those who believe in the new "panacea" work for a year two, and then show us their eured patients, $i . e$, if they then ve any to show.
The above was intended for last week's Jocradi, but was mis-
It contains all the information I can give Dr. Inglis Parsons', the details of the fatal ense were given to me by the family alical attendant of the patient. I trust that the profession will due time have the full particulars from the operator.- 1 am, etc., J. Kinowsley Thorntox.

22, Jortman Street, W'., March 20th, 1888.
"THE ABORTIVE TREATMENT OF SXPHILIS."
SIR,-I was much interested in reading the raluable article der the above healing in the Jovanal of February 25 th, as it actly coincirles with what has been my experience for some ars past in the treatment of syluilis, with this exception: that ;tead of grey powder in I-grain loses three times a day, I have n using licuor hydrarg. perchlor: in doses varying from half to e drachm three times a day, acenmpanied by an innnction of gtentum hydrarg., well rubbed into the affeeted glands every emate night (in cases where mercury is not well tolerated cen given internally, until we have satisfactory evilence that : constitution is affected, directing and continuing our treatnt in such a watchful manner that neither salivation nor any vious effect of the drug is jroduced. We thms gain a result by : early administration of mercury which fully justifies us in ting that the lisease has been so cheekel or "aborted " that here the so-called secondary symptoms are entirely ahsent, or wear in such a mild form as to leave little doubt (when constel with those cases in which mercury las heen withhelel) as the specific eflieaey of the drag.
am not aware if the beneffeial practice of mercurial inunction etly into the affected glands has been pointed ont in any of - texthooks. Certainly I have found the treatment in certain es attenden with rery happy results, and now never hesitate ting my patients on mercury, interually or by imunction, etly $l$ diagnose the primary lesion to be a true syphilitic one; n any case in which there mas be a rational doubt as to the ure of the sore.

It is interesting to note that at Fiirth, where the manufacture of mirrors is extensively carried on, l'rofessor Kussmaul could not find an instance of a worker in mercury contracting syphilis, while under the intluence of the drug.-I am, etc.,

## Dublin, Mareh 14th.

J. Carter Battersby, M.B.,

Sin,- May I be allowed to make a ferr remarks about the word "abortive" as applied to the suceessful treatment of disease? It is now frequently used in this way both in our own country and abroad, but surely it cannot be logically correct. If a man tries rarious means to combat an ailment, and he fails, one says that all his efforts prored abortive, that is to say, ineffectual. Now, this is exactly what is not meant ly those who adrocate the "abortive treatment" of erysipelas, syphilis, etc. Their object is to render the disease itself abortive. If the surgeon's aim ly. to exterminate or to eliminate from the system a morbid poison, sueh as syphilis, why not call the treatment "exterminatire" or "eliminative?" 'I do not find either of these words in dietionaries, but they may be quite legitimately formed from their root-verbs. - 1 am, etc.,

Dorking, February, 29th.

## COXSULTATION WITH MOMGOPATHS

Sir,-Dr. Needham's contention, in his letter published in the Journal of March 17th, is perfectly just, namely, that at the meeting of the Gloucestershire Branch on February 2Ist, "the question as to the right of holding consultations with homoopaths Was not settled so far as the count $\zeta$ of Gloucester was concerned." No resolution was put to the meeting. There reas simply a discussion as to the present position of homeopaths, and nothing more.

The meeting, though certainly not a large one, tras by no means insignificant, and Gloucester itself-was rery fully represented.
For myself, I may be allowed to say that I am an utter disbeliever in the tenets of homoopathy, hut 1 should be glad if some basis of agreement could be found which would put an end to a schism which is alike injurious to the science of therapenties and to the best interests of the profession. This was the riew I took of the question at the Gloucester meeting, and it seemed to meet with the approval of all who were present, with the exception of my friends Drs. Bond and Seedham. I will only add that I acted on the principle of the old Greek philosopher; who said,
 Andrew S. Currie.
The Moorlands, Lydney, Gloucestershire, March 21 st.

## TIIERAPEUTICS WITHOUT . ILCOHOL.

Sir,-The Board of Management of the London Temperance Hospital desire me to offer, in their name, some comments upon the sub-leader in the Journsl, entitled "Therapeutice without Alcohol." It is there stated that this hospital has been in existence abore twelve rears (in reality above fourteen), am that "the anmual report for $1886-7$ may be studied with adrantage, in order to compare the results with those of nther hospitals." I Would ask whether the comparison should not have heen mado with the series of reports during the whole perion, and unt with the report of one single rear's results? It is somewhat strange that though eopies of the ammal reports have been supplied to the medical journals, and also reports of the medical and surgical eases for the three years, $1883-4$ 3, your criticism shonld be confined to the liegistrar's report for a single year. You observe: "ln the surgical department the results hare been satisfactory, so far as one is enabled to judge from mere figures, but turming to the medical cases we may restrict examinations to one or tro groups of disenses with adrantage." If the results of the surgical operations were "rery satisfactory." Whr add the words. "so far as one is enabled to judge from mere tigures." seeing that the cases are set forth with erery neessary explanation? And it eamot be overlooked that it is in regard to such cases, where great loss of strength inevitably necurs, that the supposed ralue of alcohol is most frequently and firmly insisted uph. The article goes on to ohserve that the four eases of typhoid fever all proved fatal, though the subjects were poung persons, and comprised three ahstainers. Would the writer recomment that young people should not be ahstainers; or mould he insinuate that the abstinenee of the three had anything to do with the fatal result?
"The treatment," it is said, "was the same as elsewhere, and the only difference consisted in the non-exhibition of alcohol."

Is it, then, a scientific inference that the absence of the alcohol was the cause of these deaths? Do patients never die to whom alcohol is sdministered : and is there never in any hospital what is called, for want of a better name, a run of bad luck? If the writer had consulted the thirteenth annual report, he would have seen that out of sixty-eight cases of typhoid fever, treated up to April Woth. 1886, only seven had proved fatal: and that out of these seven, two were complicated by donble pneumonia, one by cirrhosis of liver, one by ovarian cyst, and one by peritonitis and perforation. Will it be pretendel that the use of alcohol in these fatal cases would have been attended wath the saving of life; and was not the recovery in sixty-onc cases "very satisfactory ?" I may add that the total in-patients ndmitted down to April 30th, 1887, were 4,160, and that the deaths were 240 , the rate of mortality thus being 5.8. Since the erection of the new buildings in the Ilampstead Road, this rate has, for obvious reasons, increased, and was 8.4 per cent. for the year ending April 30th, 1887.
Yon commend the plan upon which the Registrar's report has been drawn up-a plan settled by the Medical Committee, and approved by the Board. We are not afraid of the fullest publicity, and members of the profession are ever welcome as visitors to the hospital. All that we claim, and have a right to clain, is that our results should be fairly considered, and that we should not he subjected to a style of criticism from which other hospitals are exempt. We rejoice to know that in all other hospitals the consumption of alcohol has diminished, andis diminishing, with ised to prescribe aicohol whenever they deem it needful, its nonexhibition cannot be ascribed to any fanatical adherence to an abstract theory. Those who can recall the days when the free brandy and port wine practice of Dr. Todd carried captive the great body of medical practitioners, and resulted in the loss of mumberless lives, may congratulate both patients and doctors upon the present more eulightened method of treatment; and we look
to the medical profession for an intelligent appreciation of an institution which is submitting the supposed value of alcohol in special cases to a really scientific examination.- 1 am, etc.,

Datron Burss, D.D..
Ilonorary Secretary London Temperance Ilospital. Ilampstead Foad, N.W., Mareli 17th.

## MENSTRUATIOA AFTER HYSTERECTOMY.

Sir,-The somewhat fierce discussions which have taken place during the last few yenra on the trentment of uterine myoma will have at least two satisfactory results. The first is alreadr accomplished. This consists in the disestablishment of the belief, which was until a very short time ago prevalent throughout the profession, that the lisease was one which hod no great clinical significanee, and might generally be let alone. The second is that it is leading to the reconsideration of the notions concerning the relations of ovulation and menstruation as cause and effect. So long ngo as 1843 Dr. Ritchie wrote a book in which, to my ruind, the ovular theory of menatruation was completely destroyed. Since then Kesteren, leeves-Jackson, De Sinéty, Malassez, and a host of others have completely confirmed Ritchie's original observation.

All the clinical facts with which I am acquainted rield further pronf that ovulation and menstruation hare no association with one another as cause and effect. The occurrence of menstruation after hysterectomy has long been to me $n$ very familiar phenomenon, and 1 have under observation one patient from whom I removed the whole of the uterns, as nearly as it can be remored in suprayaginal liysterectomy, bath thibes and hoth ovaries nearly six years ago: and that pritient has menstruated every month during the whole of that time. In another case where, three years and a half ago. 1 remored $\Omega$ pergnant uterus alout the fifth month, on account of two large ovarinn tumours of the nature of snft sarcoma, the utoms being infiltrated with nodules of a similar growth in large numbers. I. of course, removed "verything 1 possibly could. That pationt had a metrostasis after the operation. Menstruation appeared at the end of twenty-three or twenty-four days, and she lias since menstrunted with ns mueh reqularity no ever she did in her life, and all the phenomena of its appearance in this case are still identical with those of the normal process. Whatever these clinical fate mey lead lis to as conchusions in the future, it is per-
fectly certain that they estrblished Ritchie's conclusion, that the orular theory of menstruation is absolutely untenable.- Tam,
etc., The Crescent, Birmingham. March 17th.
THE DEFICIENT SUPERVISION OF MEDICAL STUDENTS.
Sim, - I write to ask you if there is any law by which a medieal student can be saved from the clutches of pawnlrokers. It appears to me that the matter requires looking into, when a mere lad of eighteen years is able to hand in to a pawnbroker the whole of his medical books, microscope, dissecting case, etc., all of which have been hought by the hardly-earned money of his father, and which are the actual working tools of a student. Surely there should be some restraint placed upon the facilities of pledging by minors. When I was a student there used to be considerable care displayed that students should be fit before going in for their examinations, and in fact they were not permitted to do so unless up, to a certain standard, the credit of the hospital being so jealously guarded. But times are changed, and in one hospital at least it appears that as long as a student's fees are paid he may either werk or go to the devil. Again, if he has led a life of illeness for twelve months, net even having been signed up for his dissections, surely his friends ought to be warned, and not allowed to pay the next year's fees in blind ignorance. Once more, I protest that it was not my duty as a father to discover from an outsider that carlplaying was carried on within the hospital walls (I do not refer to the dressers' rooms). 1 therefore take it that there must be a great want of supervision where it is needed over first year's men. I can only sign myself

A Distressed Parent.
** A pawnbroker commits an offence, for which he is liable to be summarily punished, if he takes an article in from a person appearing to be under the age of twelve years. If the pledger is over that age, but a minor, the pawnbroker might in some cases that the minor had no authority to pledge it. The authorities of hospitals and other educational establishments ought undoubtedly to look after the youths whose fees they take. At some, we beliere most, schools a certain amount of supervision is exercised. sponsibility.

TIIE SUPERIOR LONGEVITY OF TEETOTALLERS.
Sin,- The valuable statistics cited in the Journal of March 17th show very conclusively that total abstinence from alcoholic drinks is most conducive to longevity and to absence from acute and chronic diseases. I have for many years past felt certain that the medical men of this country when in possession of the result which separate teetotallers from non-teetotnllers will rang themselves and their families in the ranks of the total abstainers for nothing can be more clearly proved by the figures you quote than the safety-and, more than that, the great advantage-a leaving off beer, wine, and spirits as a part of diet. In France and Germany no such information exists, and consequently there are very few teetotal medical practitioners. Here the number of such is rapidly increasing, and 1 am certain that few change. could do so much good to the community as the conversion o practitioners to teetotalism.- 1 am , etc., London, March 17 th .

C. R. Drysdile, M.D.

## CASE OF LYMPIIADENOSIS.

Sir,- - In an account of the meeting of the Clinical Snciety of Manchester, pullished in the Joumsal of March 17th, p. 504, it i: mentioned that I showed a rickety child with great enlargement of spleen and liver, and it would appear from the report that associnter! the rickets and the eniargement in the relation ol cause and effect. This, howerer, is not the fact. I showed thi child as a case of lympharlenosis, and entorgans coineided wit rickets, it was not due to that disease, hut to infiltration of malignant character. My experience of riekets leuls me to the opinion that as a rule the spleen is not perceptibly enlarged, an is never rery much so, and that it is still more rare to finl th liver affectel. - 1 am, atc..
T. C. liall.tos.

32, St. Ann Street. Manchester.
Tus Duke of Devonshire has been elected l'resident of th Chesterfield and North Derbyshire IIospital for the ensuing ycar.

## NAVAL AND MILITARY MEDICAL SERVICES．

## CHANGES OF STATION．

The following changes of station among the officers of the Medical Staff of the Army have been oflicially notified as having taken place during the past month：－


Gen．C．G．Irwia，M．B．
F．W．Wade J．Y．Donal
W．Graves S．E．Mauosell R．P．Ferguson G．Perry

##  <br> J．Barker <br> J．Maturin <br> J．Riddick G．Corty P．A．Hases

| From | To |
| :---: | :---: |
| Bermuda ．．． | ．．．Edinburgh． |
| Chatham 又． | Bermuda． |
| Shormeliffe | Madras． |
| Portsmoutlı | Bombay． |
| Woolwich．．． | Jamaica． |
| Jadras | Shorncilfe． |
| Coldstream Gds． | Brig．Foot Gids． |
| Portsmouth | Hilsea． |
| Bengal ．．． | Chatham． |
|  | Woalwicl． |
| Wincluester | Portsmonth． |
| York ．． | Sheffield． |
| Trinidaı | Barbadoes． |
| Portland | Portsmonth． |
| Trowbridge | Bexgal． |
| Athlane ．．． | Dubliu． |
| Netley ．．．． | Shorveliffe． |
|  | Woolwiph． |
| 1）evonport | Trowbritgre． |
| Netley | Newry． |
| ＂ | Aldershot． |
| ＂${ }^{\text {－}}$ | －Portsmanth． |
| ＂，．．． | Celchester． |
|  | Woulwich． |
| Cark | Mitchelstown． |
| Netley | Woolvich． |
| Brightou ．．． | Canterbury． |
| Netley | Cork． |
| dshiton－12－Lyne | Fleetwood． |
| Edinburgh | Glasgow． |
| Golden Hill Fort | Winchester． |
| Armagh | Belfast． |
| Curk | Queenstown． |
| Gosport | Portsmouth． |
| Fidinburgli | Leith Fort． |
| Dublin ！ | Belfast． |
| Gosport | Gelden Hill Fort |
| Beugal | Queenstown． |
| Gosport | ．．．Portsmouth． |
| Newcastle．．． | Sunderland． |
| Bengal ．．． | Cork． |
|  | Dublin． |
| Horfield | Clifton． |
| Bradiord | Salford． |
| Malta | Belfast． |
| Dublin | Curragh． |
| Cahir | Fermoy． |
| Pertsmouth | Marchwood． |
| Colchester．．． | Gt．Yarmouth， |
| Dublinı | Fermos． |
| Barharloes．．． | Trinidad． |
| Leith Fort | Edinburgh． |
| Queenstown | Bengal． |
| Mitchelstown | Madras． |
| Plymouth | ．．．．， |
| Beltast |  |
| Sheerness．．． | Bengal． |
| York | ．1 |
| Dublia |  |
| Cork | ．．．．． |
| Fermoy ．．． | ．．． |
| Portsmontl ${ }_{1}$ | ．Gespert． |
| Dover ．．． | Brighton． |
| Wrexloam．．． | Lancaster． |
| Edinburgh | Piershill． |
| Portsmontlı | Gosport． |
| I．eith＂Fort． | Jidinlurirl． |
| Purtsmoutli | ．．．Darkburst |
| Dover | ．Sherricliffe． |
| Warley | Culcluester． |
| Sierra Leone | CapeOoast Castle |
| Egspt | Sietley． |

## a sligitt to surgeons in india．

vical Staff writes：The offensive circular issued by the Millary Secretary to tho Vtceroy，relative to the gold aiguilette worn by IIonorary Surgeons to IIs Excelleney，is not only an insult and indignity offered to bononrable and gadant men，but to the entire medical protession to which thes belong．it
 a matter of mere geatituent and golal la
honourable treatnent la the public service．

## RIGUT OF RETIREMENT AFTER TWENTY XEARS，

Salporivten Semiens，Melical Staff，writes：，If the right to retire after （wenty years＇tull pay scrice is cancelled，a very gross hreach of contract will he perpetrated on those medical officers whi have entered the eervice on the terna of the Wharrait of 1879．Thiese men will hnve been secured on false pro－ mikes．The pen will be drawn through the very best point in that warrant． surely it is not contemplated to make changes retrospective

## HE NATY

Surgron F．W．Straickrr has been appointed to the Cockadrice；and Surgeon G．H，Milnes to the starling．

## THE MEDIOAL STAFF．

Surgeon－Major D．C．W．Heather，having applied to retire before January 1st，1888，is now granted the honorary rank of Brigade－Surgcon，and Quarter－ master J．M．Johsso：，is granted the bonerary rank of Major．
Surgeon－Major A．Morphew，who has beenserving in Bengal since the le－ ginning of 1884，has been detailed to proceed to England in H．M．S．Crocodile， which was to leave Bombay on March 1 ith．
Brigade－Surgeon W．J．Wilsos，M．D．，serving in the Bombay command，is directed to proceed to Eogland pending retirement from the seryce．
Brigade Surgeon R．Watmes，serving in Beagal，is placed in administrative medical charge of the Allahabad division during the absence on furleugh of Deputy Surgeon－General E．H．Hoberts．
Jnspector－General ThoM is David llume died at Cladstone House，Soutbsea， on March 16th，in the 80th year of his age He entered the Army Medical Ser－ vice as Hespital Assistant．October 26th， 1826 ；hecame Assistant－Surgeoa，Oc－ tober 11th，1827；Surgeon，July 2ud，1841；Surgeon－Major．November 26 th． 1852：Deputs Inspector－General，June 29th， 1855 ；and Inspector－General，De cember 31st，1862：he pas placed on balf－pay．Octoher 1st．1865．Inapector－ General Hume served at the siege of Sebastopol．and was Principal Medical Officer of the 3rd Division during the winter of 1855 ，and afterwards of the 411 Division until the eod of the war．（He received the medal with clasp，the sth class of the order of the Medjidie，and the Turkisb medal）．

## the indian medical service．

Deputt Surgen－Gexeral．J．Yinkerton，M．D．，Bombay Establishment，is promoted to be Surgeon－Geaeral vice Surgeon－General W．J．Moore，C．I．E．，ro fired．Surgeon－General Pinkerton entered the service as Assistant－Surgeon Angust 4th， 1855 ，and attained the rank of Deputy Surgeon－General May 1st． Angust 4th， 1855 ，and attained the rank of Deputy Surge
Surgeon－Major D．A．PATTERSON，II．D．，Bombay Establishment，is appointed Secretary to the Surgeon－Geveral H．M．＇s forces in Bombay，vice Brigade－Surgeon F．S．Turnbull，M．D．，who has been appointed Deputy Surgeoo－Geaeral，abd posted to the Sind District．
Surgeon F．C．Reeves，Madras Establishment，whese services have been placed by the Government of India at the disposal of the Chief Commissioner of the Ceatral Provinces，is posted to the Betul District as Civil surgeon．
Surgeon A．H．Jacob，Aladras Establishment，deing dute in the Eastern Dis－ trict，is posted to the Burmab Divisicn，vice Surgeon W．H．Karney．
Surgeon－Major J．S．WILkiss，Bombay Establishment，officiating in medical charge 2 Ist Native Infantry，is directed to act as Presidency Surgeoa to the Secoad District in addition to his other duties during the absence of Brigade－ Surgeoa E．II．R．Langley．
The undermentioned gentlemen have obtained leave of absence for the periods specified：－Surgeon－Major J．C．Fullertay，Bengal Estahlishment，Ageacy Surgeon，Beloochistan，ior one vear and 213 dars on private affairs：Surgeon－ Major P．F，O＇CoNxor，Bengal Establishment，Medleal Officer to the Sative Cavalry，for one year ：Surgeon D．F．Barry，Bengal Lstablishmeat。 15th Native Cavalry，for one rear on private aftairs；Surgeon－Major J．Daridson．M．B．， Bombay Establishment，in niedical charge of Bombay Sappers and Miners，for two years on private affirs．
Surgeon J．A．Crark．late of the Bengal Establishment，died at Park Cireus， Ayr，on the stib instaat．

## THE Y゙EOMANRY AND YOLLNTEERS．

Surgens C．H．Camble，of the Royal Vorth Devon Yeomanry，las resignet his commission，which bore clate May 21st，＇1S6i；he is granted the honerary rank of Surgeon－Major，and is permitted to retain his uniform．
Mr．JAMrs MoIR is appoiated Acting Surgean to the 2nd Volunteer Bat talions Roval Scots Fusiliers（formerly the and Ayrshire）．
ActIng－Sirgeon J．H．DaFies，of the Znd Volunteer Battalion Welsh Regi－ ment（late the lat．Glamorgan），is promoted to loe Surgeon to the same corps． Surgeon R．Robkirncos，M．I．，and Acting－Surgeon F．G．Tcokem．M．I．．af the Ioth Lancashire（Jiverpool Press Guard）have resigned thelr commissions： that of the former was dated October 16 th， $18 i^{\circ} 2$ ，that of the litter April 1 ath． 1885.

Acting－Surgeon D．C．SMITH，of the 2ud Volunteer Battalion Forfalk Remi． ment（late the zud Forfolk）has resigned his appointment，whleli was dafert ment（late the and
Mr．J．F．Lase，M．D．has been appointed Acting．Surgeon to the 3ni Volnu－ teer Battalion East Siurey Regiment（utherwise known as the 5th Surrev Volunteers）．

THE ALEXANDER MEMORI．ML 1RRIZE
THis prize of $£ 50$ and a gold medal of the ralue of $£ 10$ has been awarded to Surgeon Robert Hammill Firth，F．h．C．s．Eng．．Medieal Staff，for the best essay on＂The Relations hetween the Food and ＂Fork of the British Soldier．＂The subject for the next competi－ tion is，＂The l＇se of Drugs in the Treatment of Disease in the Army；the Principles on which Medicines should be selected so as to meet the Requirements of Field Service．＂The emmpetition is limited to executive medical officers of the army on frll pay．All essays to reach the l＇resident of the Committee on or before Decem－ her 31st，1800．The conditions of competition will be found in our adrertising enlumns．

Stmgent－feneral Moore，C．l．E．，who has racated his ap－ pointment＇and severed his connection with the Bombay Presi－ dency，has on the evo of his departure，met with a singularly appropriate und almost unprecedented reengnition at the hand s of the medical officers and subordinates in Bombay；over whom he presided as the had of the department for nearly three years．A
subseription has heen starterb in tho (ivil Medical Depnrtment to obtain a bust ant portrait of Sri. Alomre, the lmlance. if any, to be used for providing a medical prize or scholarshiy, in this mathét A few weeks ngo a dimer was given in his bonour by the memhers of the metienl service at l'oonah; and a similar entertninment whis 'givel 'mbire' ricently' in Bembay, The'/ compuittee of the Bombuy Medical Cuion hate forwarded a letter gepitesping their regret at his departure.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

MLASON V DRS MARSLALL ASD SIIAT, AND OTHERS This netion was tried hefore Mr. Jistice Field, and occupidd three days, Fortunately it ended favourably for the meflical men, A victory in such chases is only one step better than a mefeat." Worry and expense are incritable.

Medically the case appears to have been plain chongla, A young lady developel ideas of suspicion, and fancied people turned against her; she had hallucinations, and refused food. These symptoms induced her to aroid her friends, and cansed them to fear that she would conimit suicide. Nedical men were called in, who, without fee or rewnrd, signed certificates under which she was sent to an asylumi', She was transferred to two other asylums, and was seem by commissioners and risitors; at the end of over two years she was remored from asyhm care, and a year later took these proccedings ngninst the paedical men who signel the certificates. The action, so far as it interests us, asserted malice and conspiracy, as well as negligence, against the medical men: but the first tiwn pleas were withdramn, and the question of negligence alone remained to be tried.
There are some notewortly points in the proceedings at the trinl to which tre shall refier. First, the power of nttacking medical men through certificates which were accepted as sufficient by the Commissioners in Lunacy. Certificates must, especially when signed in the earlier stages of insanity, or when signed for "suspicious" or profoundly melancholic patients, contain inferences as mucli as simple facts. We nexer understood that certificates must be more than evidence of insunity of $n$ kind requiring specinl detention. 'They cannot be exhanstive: Medicul men have. in the interests of society, to run risks enough in signing certificates, and do not expect to find enemies in their own profersion. We regret that two medical men at the trial gave evidence for the plaintiff in this case, one of whom is reported to have said " he had seen the lefendants' certilicates; and he was of opinion that a reasonable mnn would not have signed n certificate of insanity on the factsobserved hy themselves or reported to them.
The other medical man declined to go so far ne to say "that rambling, incoherent conrersations, refusnl to answer questions, and vague statements of ill-usage" were sufficient to justif] the certificates: and thus, though called to curse. he involuntarily was forced to hless. Such symptoms might cover acute mania or wenk-mindedness, with suspicion of the worst form.
The general evidence of the trinl was conclasive. The judge on several occasion endearoured to get the plnintiff to reeonsider her comduct, hut it wins fought to the bitter end. We quote parts of the judge's summing-11p. "It wha most important thint insanity should be taken in its incipient, stage, when ainne thare was a possilility that by proper treatment the patient might he cured." "Agnin, with regard to medical men. if it were to come to this that no respertable medical man would put his hand to a certificate it,would her $\Omega$ most unforturnte thing for patients themselves. No, doctor was tounul to uft, hrit, if he actert, he nndertools a duty anil was responsible for any lreach of it." "As to the mote of procelure in the cnse, his lerdship said the doctor's general duty. was to thke proper care nul skill, and it was nlleged they had not dom that. Ther, who no sugestion of nyy particular net of ungligence: the whole case was Wat their inquiry and investigation were insuffieient." "The only pridence as to the alleged nugligure was contained in the plaintiffs own aceount of the intervisws with the chectors. "hrlain of the ncts reported th the lootors and mentiones in their certiticates were not deniech' "They, had the views of experts, and they had, what was more important; the conduct of certain persons whose duty it was to examine the certificates, and to act or refuse to act npan them, and those five or six gentlemen, having pxamined and acted upon
the certificates, ., the jury would consider whether they were sufficient or mots.
His hofdstip Foft than, among other questious, to the jury
"Dill (1) Dr. Marshall or (2) Ior. Share sign his certificate" withont due care?" Answer of the jury, "Ho", $11{ }^{\circ}$, "i Here, the conduct. helayiopr, and appeazance of the plpantiff and which of them, to believe, and did they honestly fide believe thut she whe a person of unsound mind and a fit and proper person to bo taken charge of and détainied unler caro and trentment, and were the nets complained of : loing hy the defeudants acting hönestly ou such pelief?"-"Tes,"

- Was the plaintiff at the times in question of unsomid mind and a proper person to be takép charge of and detained under care and treatment?"-" Yes,".
The conctusion of the case is so far satisfaotory, and we are glad to find Mr. Jnstice Field more alive to the importhniee of medical evidence than wns suspected after some rccent' judicial decisions involving such evidence.

THE exceptional question submitted, hy "Beds" is one for his, nwn consideration. At lite same time, it may bw fintrious fo note that, we ennpot regard the idea otberwise than as objpctionntle and repellant.
D) FOEASFD PATEENTS.
F.B.C.S.-Fees due to medical mpm for attendance during illness, whether ine ast or not, rank as simple contract. debts. If the estate is tunble to pay in ull, they are entitled to no priority. There may be casesin whinhr such fers ave been padd without ohjection, but no court wonld give a manleal man pre ference orfer other erediters in respect of such fees.

## MEDICO-PARLIAMENTARY,

HOUSE OF LORDS-Monday, March 19th.
Sontch Universities Bill -The Marquis of Lothlax presented a Bill ior the better administration nnd endowment of the universities of Scotland.- The Bill wis read a first time.' ${ }^{\text {I }}$

Tuesday, March 20th.
Lunacy. Acts Amendment Bill.-On the report of aniendments
to this Bill, Earl Speacen mored the following amendment :
Where in agreemient has heen entered into, or shall herrafter be entered Into. between the conumittee of visitors for any rounty appoiuted to provtic an between for the pauper lunatics of the said county and the committee of Mas. naylum for the phuper
tors appoointed to trovide an assluol for the paiper lunatics of ainy borough.
 asylum for euct pauper lunatic utot wholly chargeable to the said hormulgh, thein ill mouey myabice or to be pasid under the said agree oent tor ull charpese exxept.
 Etanding any. Act of Parliament to the contriry) be paid in the following why. flaming iny. Acor ofans of the union shall pay to the treasurer of the said asyluin
namely, the kuar for eacel pauper lunatic within the sinid boronghi (and not rilloty chargeab for cact pauper
thereto) the same sum as shall from time to time be charged for eachl paulpr thereto, the same stic as llum telonglny :o the said county, and the lifference
lunatic in the lunat ic ass

 said committee of justices ior the said horaugh the eath rates, and paid thy the

treasurer of the said borought the treasurer of the said asyum,

- Lord BALFOUR of BURLEIGII said the namdment noty would not make any nlteration in the $\ln$ we, but it would not meet nll cases' which were now provided for. He thought that the noble earl had overlooked the Act of 30 and 31 Victoria, which denlt with this question. -The amendment was withurawn ami the report was received.


## IIOUSE OF COMMONS--Friday, March 16th.

Sick Leave Alloucances.-Sir Wrater Föster asked the Linder Secretary of State for lndia whether an executive offeer of th Medical Stant in India, who officinted for less than, cne' montla a Deputy Surgeon-Genernl, in the nbsence of the Deputy Surgcon General on sick leare or furlough, received no allowanees for thin period, alt hongh he preffurued the duties in addition to his of th
luties: whether, in such an instance, the s" half-staff" of the dhat ies: whether, in such en instance, the "half-staff 7 ' of
numointment 'reverted to the State:' whether the aeting ofic would be hed pecuiniarily liabibe in the erent of loss of stores other mistakes: and, whether officers officiating on the militat (combatant) staff, in a similar way, drew the half-rtaff for
broken perinds: anl, if broken perinds; and, if so, why the difference was made in the
case of medical officers, Sir $J$. Gonst ciaid: No Teply lias cet bee case of medical officers, Sir J. Gonst daid: No reply lias yet
received to the despacth on the subject of sick-leare allowance which was addressed, to the Government of India in July las The Secretary of State will call the attention of the fovernmer of India to the delay which has taken place.

# PUBLIC HEALTH and <br> POOR－LAW MEDICAL SERVICES． 

## TIIE TRUE DEATII－RATES OF LONDON SANITARI

 DISTRICTS DURING 1887.in the accompanying table will be fonnd summarised the vital and mortal statistics for 1887 of the forty samitary districts of the metropolis．Quarterly summaries of these statistics have already appeared in these columns．The，mortality figures in the table relate to the deaths of persons actually belonging to the respec－ tive sanitury districts，and are the resilt of a complete system of distribution of the deaths occurring in the public institutions of London among the yarious sanitary districts in which the patients had preciously resided．＇By this means the precise number of deaths of persons belonging to the different sanitary districts is known，as all deaths occurring in institutions of persons who had prexinusly resided in another sanitary district have been excluded Irom the total deaths in the district in，which the institution is ：ituaterl，and credited to the districts from which they came．By dhis means alone can reliahle data he secured upon which tacalcu－ ate trust worthy rates of mortality．
The births reegisterel in London during the year J887 were ［33，07，equal to an aminual rate of 31.7 per 1,000 of the popula－ ion，estimated at $4,216,192$ persons．The London birth－rate has ：teadily declined，year by year，since 1876 ，when it was 35.9 per 1,000 ，and was lower during the year mider notice than in auy
year since 1849，when it was also 31.7 per 1,000 ．In the varions sanitary districts the birth－rates showed the usual wide rariations， owing to the differences in the age and sex distributions of their populations．In those distrietscontaining an mudue proportion of unmarried females，chiofly donestic servants，such as Kensington， St．George Hanorer Square，St．James Westminster，and Hamp－ stead，the birth－rates are exceptionally low；while in Fulham，St． Luke＇s，most of the East districts，and Sonthwark，where the popu－ lation consists largely of young married persons，the birth－rates show a marked excess．
The 81，113 deaths registered in London during the year under notice were equal to an－annual rate of 19.3 per 1, mon of the esti－ mated population，which was lower than in any year since the present system of civil registration was establisherd in 1837. During the past seven years of the current decade the mean death－rate in London has been only 20.4 per 1,000 ，while it was equal to 24.4 in the ten years 1861－70，and to 22.5 in 1871－80．The recent marked decline in the London death－rate is to some extent due to the decline in the birth－rate，which materially diminishes the proportion of young cliildren in the population．The lowest rates of mortality among the forty sanitary districts during 1857 were 13.0 in Hampstead， 14.3 in Plumstead， 15.2 in Kensington， 15.9 in Paddington；and 16.0 in Hackney．In the other districts the rates ranged upwards to 27.0 in St．George South－ wark， $2 \mathcal{2} .3$ in 110lborn， 28.5 in St．Saviour Southwark，and $2 \times 7$ in st．George－in－the－East．During the year under notic， 12，627 deaths were referred to the principal zymotic diseases in Lnndon；of these， 3,762 resulted from dincrheea， 2,92 from whooping－cough，＇ 2,993 from mensles， 1,431 from scarlet fever， 951

Antlysis of the lital and Mortal Statistics of the Sanitary Distriets of the Metropolis，after Complete Distribution of Deaths nccurving in Public Institutions，during the Year $\bar{z}$ gis\％．

|  | 星 |  |  |  | Livate | er 1，000 |  |  |  |  |  |  |  | 5 | 部 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 去 |  | － | 至 | 部 |  |  | 会 | \％ | 淢 | $\bar{E}$ | $\bar{\S}$ | E | 䝟 |  | 范 |  |
| ondon | 1，216，992 | 133，075 | 81，113 | ${ }^{31.7}$ | 19.3 | ． 10 | 12，627 | 9 | 2，893 | 1，431 | 03 | 2，929 | 18 | 58 | 48 | 3， $\mathrm{i}_{6} 2$ | 159 |
| addingroun |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ， | $\substack{20.8 \\ 31.5 \\ 31.5}$ | cin | ， | 188 417 18 | 1 | 109 | $\begin{aligned} & 3 x \\ & 4 . \end{aligned}$ | ${ }_{40}^{29}$ | sir |  | 12 | 3 |  | 1288 |
|  | ${ }_{5}$ | ${ }_{2}^{2,9810}$ | $\xrightarrow{\substack{1,780 \\ 1,312}}$ | 31.5 48.9 | （19．0． | 3， 3.6 | ${ }_{3}^{337}$ |  | $\underset{\substack{101 \\ 79}}{19}$ | \％ | 4．4．14 | （in） | 1 |  |  |  | $\xrightarrow{\substack{156 \\ 159}}$ |
| Chelea |  | 3，2211 | 2， | 32．3． | 21．1． | 3． | $3 \times 16$ |  | 119 | 24 | 19 | 5 | 1 | ${ }_{27}$ |  | 109 | 16. |
| estmingrer Hancer square |  | 1， 1.54 | coin | ${ }_{27}^{19.9}$ | $\xrightarrow{16.2}$ | 3.1 | ${ }_{1 \% 3}^{189}$ | － | 111 | 31 | ${ }_{25}^{13}$ |  |  |  |  |  | $\substack{15 \% \\ 1851}$ |
| －，Jumes Wetiminter | 2T，4， | 5i2 | －iñ | 20.6 | 1\＄．2 | 1．${ }^{1.1}$ | \％0 | － | i11 | $\stackrel{1}{7}$ | 3 |  |  |  |  | 12 | \％ |
| arystome | 150，465 | 4．740 | 2．085 | 31.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| aminstend |  | 1．3999 | 201 | 3 | 13．13 | 1.4 | 880 | － |  | 11 | 13.3 | 16 |  |  |  |  | 10\％ |
| lington ．．．．．． | 325．107 | 隹 | $\bigcirc$ | 20.9 | 17， | $\stackrel{2.9}{2.2}$ | 1．， 1.136 |  | － $\begin{array}{r}147 \\ \hline 3 \\ \hline 15\end{array}$ | 599 | $\stackrel{62}{68}$ | ${ }_{2}^{294}$ |  | $2{ }^{26}$ |  | $2(14)$ |  |
| $\xrightarrow{\text { ackined }}$ Couit misiouts | 231，413 | b，ã＜ | 3，i04 | 23，5．5 | 16，0 | 2．3 |  |  | 114 | 96 | 44 | 138 |  | 10 | 4 | 13 | 146 |
|  | \％1）， | 1．2716 | 1．1159 | 307 | 26.1 | $\stackrel{2.1}{2.1}$ | 111 |  | 15 | 20 | 23 | 21 |  |  |  |  |  |
| rand |  |  |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |
| libmen | 31，（1）， | （141） | ${ }_{8 i 6}$ | 30．4 | 2\％／3， | \％ | 9 |  | 21 | ． | ${ }_{9}^{11}$ |  |  |  |  |  |  |
| cer | \％atimi | 2， | ， 1,514 | 31．0 | － 22.2 | （3．91 | 26919 |  | \％9 | 23 | 17 | ， |  |  |  |  | 171 |
| Hidu City | 60， 414 | \％$\times 1$ | R2\％ | － 19.6 | 23．11 | ${ }_{1.3}^{3.1}$ | \％ | － | 1. | 9 | 15 | ${ }_{13}^{24}$ |  |  |  |  |  |
| oredit ch | 123， 6 | 4．68 |  |  | 23．7 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | \％ | 1，994 | 20， | （3＜，3， | 2est | 3.3 | 413．3 | 1 | T2 | ， | 27 |  |  |  |  |  |  |
| （imerstin－the－Yasie | 边 | ，i，rif | ， 1.302 | （10．0． | 28．7 | $\stackrel{3}{5,3}$ | － |  | \％ | 296 | 1.6 |  |  |  |  |  |  |
| Te Eint Öd Toun | n\％， 117 | 2， 3 ， 1.631 | 1，4id |  | ${ }_{20,1}^{20,3}$ | 1. | 4iT |  | iiis | 31 | 1t |  |  |  |  |  |  |
| phar | $1 \times 2.2045$ | ${ }_{5}$ | 3，317 | $33^{3.4}$ | 17，${ }^{\text {a }}$ | 2 | ${ }_{\text {S }}$ |  | 1310 | ？ | 旡 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gerrge，Sourly | 59．59 | 2.251 | ${ }^{1,6 \mathrm{mb}}$ | 87.9 | 27.10 | 5.3 |  |  | \％ |  |  |  |  |  |  |  |  |
| Olave，Southwark | cosis | 4，095 | ${ }^{2.468}$ |  | 退 | ${ }_{3}^{3.1}$ |  | ＝ |  | $\stackrel{1}{9}$ | $\stackrel{97}{27}$ |  |  |  |  | ${ }_{1 i} 9$ | － |
| monds | 89，134 | 3.200 | 2，000 | 35.9 | 22.1 | 4.1 | 3 | ＝ |  | ${ }_{6} 9$ | $\frac{2}{16}$ | 9 |  | ${ }^{1}$ |  | ${ }_{16} 11$ |  |
|  | － 11.8183 | ${ }_{\substack{1,450 \\ 0,119}}$ | － 815 | ${ }^{3.8}$ |  | － | （19， |  | 10 | ${ }^{21}$ | 15 | 29 |  |  |  | \％ |  |
|  |  | 9．131 | 4，min | －3．1 | 18.4 | 3．2． | \％ | － | 11. | $\xrightarrow[\substack{122 \\ 100}]{100}$ | cin | － |  | $\begin{array}{r}13 \\ +2 \\ \hline\end{array}$ |  |  |  |
| enwich ．．．．．． | 246．54， | ${ }_{\text {\％}}$ | ${ }_{\text {che }}$ |  | ${ }_{10}^{18.8}$ | ${ }^{3.1}$ |  |  |  |  | 65 | 03 |  | ${ }^{3 .}$ |  | 2m |  |
| risham ．．．．．．． | 58,410 |  | 2，918 | －39．1 | 19.1 | ${ }^{2.8}$ |  | － | $\underset{\substack{131 \\ 27}}{\substack{\text { d }}}$ | ${ }^{33}$ | ${ }_{17}^{37}$ | 20 |  | － |  | ${ }_{2}^{107}$ | ${ }_{1}^{141}$ |
|  |  |  |  | ${ }^{35.9}$ | ${ }^{11.6}$ |  |  | ＝ |  |  | ${ }_{3}$ |  |  |  |  | 31 |  |
| nistead ．．．．．． |  | 3，${ }^{\text {an }} 1$ | 1.111 | 32.3 | 14.3 | 1.8 | 14 | 2 | － | 4 | 19 | 4.8 |  | $\stackrel{5}{5}$ |  | 42 | 314 |

from diphtherin, $6 \overline{0} 3$ from different forms of fever (including 587 from enteric fever, ts from ill-defined forms of continued fever, and 18 from typhus), and 9 from swall-pox. These 12,627 deatbs were equal to an anuual rate of 3.0 per 1,000 , whielh, thongh slightly exceuding the rate in 1886, was oonsiderably below the average rate in the preeeding ten years $1877-86$. The zymotic death-rute during the year 1807 in the rarious sanitary distriets did not exceed ".0 1 pri 1,0 Ow in London Citr. Hampstend, Pacldington, Lewisham, St. Inmes West minster, 1'lumstead, and St. Georgo Hanowe sumare : while it was equal to 4.2 in Hile lind Ohl Town and in Bermondsey, 4.6 in Puham, 4.7 in Stepney, 4.8 in 5 . Gieorge Southwark. Compared with the preceding year, the fatality of smanl--pox, "fever," und diarrhoea showed a slight decline, while that of each of the other zymotic disenses showed an increase. The mortality from scarlet fever, which last year considerably exceeded that recorded in either of the two previous years, was yet below the arerage for the ten preceding years 187786. The number of scarlet fever patients under treatment in the Metropolitan Asylums Hosjitals, which had been 496 at the commencement of the year 1557 , had risen to 2,600 at the end of November, after which it deelined, and was 2,041 at the end of the year. The admissions, which had been 531,475 , and 688 in the first three quarters of the year, rose to 2,187 during the last three months of 1887. Mensles showed the highest proportional fatality in Hammersmith, Chelsea, Fulham, St. Feorge Southwark, Stepney and St. George-in-the-East: scarlet fever in Fulhan, St. Giles Lambeth, Rotherhithe, Bernondsey, and Newington; diphtheria in Westminster, Lambeth, Jammersmith, and St. Giles; whoopingcough in Shoreditel, Newington, Stepney, and Jile End Old 'Town; Chever in Shoreditch, Bethnal (ircen, St. George-in-the-Wast, Mile End Old Town. Whitechapel, and St. Saviour Sontlhwark Only 9 deaths were referred to smatl-pox in the metropolis during the whole of 1887 , the lowest number on reeord; of these, $t$ belonged to Sonth London, 2 to West, 2 to East, and 1 to Central London. Sixty-three small-pox patients were under treatment during the year under notice in the Metropolitan Asylums Hospitals, of whom 30 were admitted during the last three months of the year.
Infant mortality in London during 1887, measured by the proportion of denths under one yenr of age to births repistered, was equal to 1.58 per 1,000 , against an arerage rate of 152 in the preceding ten years 1877-86. While the rate of infant mortality did not exceed 107 per 1,000 in IIampstead, 110 in Plumstead, 126 in Faddington and in Lewisham, and 138 in Marylebone, it ranged upwards in the other sanitury districts to 202 in Strand, 215 in in St. Olave Sonthwark.
Hbalth of Exglisif Towns.-During the week ending Saturday, Hareh 17th, 5,560 births and 3,636 deaths were registered in the twenty-eight large linglish towns, including London, which have an estimated population of $9,398,273$ persons. The annal rate of mortality per 1,000 living in these towns, which to 20.3 during the weck under notice. The rates in the sereral towns ranged from 12.8 in Leicester, 15.5 in 11 ull, 16.0 in Wolverhampton, and 16.5 in Birmingham, to 26.2 in Norwich, 27.4 in Carliff, 27.8 in l'reston, and 31.6 in lilacklurn. The mean deathrate in the twenty-sceen provineial towns was 20.9 per 1,000 , and exceeded by 0.8 the rate recorded in London, which was only $\because 0.1$ per 1,000. The 3 , enf deaths registered during the week under notico in the $t$ went $y$-eight towns included 36.3 which were referred to the principal zymotic diseases, against 366 and 422 in cough, 49 from scarlet fever. 46 from measles, 33 from diphtherin, 33 from "fever" (principally enteric), 30 from diarrhea, and 24 from small-por. These 363 deaths were equal to an annual rate of 2.0 per 1,100 : in Lonulon the zymotic death-rate was 2.2 , while in the twenty-seven provincial towns it aweraged 1.8 per 1,000 and ranged from 0.0 in Halifax and 0.5 in Dirkenhead and in Hull, to 3.9 in Blackburn, 4.1 in Shefleld, and 7.4 in Plymonth. Measles eausel the highest proportional fatality in Nottingham and l'lymonth; searlet fever in Oldham and Blackburn; whooping-cough in Prighton, Blacklurn, Sulford, amd Norwich; and "fever" in
Cardiff nd Derby. The 33 deaths from divhtheria in the eight towns included 22 in deaths from diphtheria in the twenty24 futal casee of small-nox recorded during the week under notice,

18 occurred in Sheflield, 2 in Bristol, 2 in Manchester, and 2 in Huddersfield. The Metropolitan Asylums Hospitals contained 1 i small-pox patients on Saturday, Darch 17 th, of whom 6 had been admitted during the week. These hospitals, also contaized 1,160 searlet fever patients on the same date, agamst 1,25 and 1,211 week. The death-rate from discases of the respiratory orman in London was equal ta 5.6 per 1,000 , and was below the average in

Healtir of scotch Towns.-In the, eight principal Scoteh towns, 760 hirths and 531 deathis were registered during the week ending Saturday, March 17 th. The annual rate of moortality, which had inereased from 22.6 to 24.2 per 1,000 in the three
preceding weeks, declined again to 21.0 during the week under notice, but excecded by 0.7 per 1,000 the mean rate duriug the name period in the twenty-eight large English towns. Auone
same these Seotch towns, the lowest rates were recorded in Greenock and Aberdeen, and the highest in Paisley and Glasgow. The 531 deaths in these towns during the week under notiee included 47 which were referred to the principal zymotie disenses, equal to an annual rate of 1.9 per 1,000 . which almost corresponded with the mean zymotic death-rate during the same period in the large English towns. The lighest zymotic rates were recorded in Leith and Glasgow. The largest proportional fatality of measles oecurred in Edinhurgh, and of whooping-congh in Glasgow. Five denths from diphtheria were reeorded in Glasgow. The mortality from disenses of the respiratory organs in these Scotch towns was equal to 5.6 per 1,400 , and corresponded with the rate from the same diseases in London.
Health of Irish Towns.-During the week ending Saturday, March 17 th, the deaths registered in the sixteen principal towidistricts of Ireland were eqnal to an annual rate of 29.4 per 1,00 . The lowest rates were recorded in Newry and Kilkenny, ant the highest in Lisburn and Londonderry. The death-rate from the principal zymotic diseases in these towns averaged 3.5 per 1,000 , and in Dublin during the week under notiee were equal to an annual rate of 20,0 per 1,000 , which showed a further decline from the rates in recent weeks. The 190 deaths included 19 from the prineipal zymatic diseases (equal to an annual rate of 2.8 per $1,000)$, of whish 8 were referred to different forms of "fever,
menslos, 3 to scarlet fever, 2 to diarrhoea, and I to diphtheria.

DAMAGES FOR DEFECTUVE HOUSE DRAINS.
A CASE of some hygienic and public importance came last week before Mr. Commissioner Kerr in the City of London Court. Twn ladies sought to recover £25, damages sustained hy them hy reason of the defendant's misrepresentations as to the state of the drainage at the honse occupied by them as tenants at a reatal
£ 90 a year. It was stated for the plaintiffs that a distinet assur£20 a year. It was stated for the plaintiffs that a distinet assur-
ance was given either ly the defendant or his agent that drains were in perfect order; but soon after the plaintiffs entereid into possession thry discorered that the drains were defective Some repairs were made, and then came a plague of rats. as man. as twenty-two having been killed in a fewer number of days When complaint of this was mnde to the agent, he philosophicall replied that "they would go away in duc course. It was the stated that as the result of the insanitary state of the honse
hasintiffs hoarders became ill and left, and the plaintifs had sulfered loss to the extent of the sum claimed.
Mr. Commissioner Kerr reenguised the elaim, and gave judt ment for the plaintiffs for $£ 10$, with costs on the higher scale.
whiaustion anh destruction of gewer-fas by madis of Mr. Spencer Itcrlbutt (Fulham Union Intirmary, Hammersmith, W.), write with reference to Dr. Russell's report on the action of Keelinge sewer-gas augtera and dest metors, at Valine (Jovesaz, March 17th, D. tis):-1'rofes Wanklyis's report of the action of this apparat 14 contains the followink far Graph: "A cousumption of one cubic foot of coal ars in the The puint of vita the extraction of 500 cuinc fect of air from the sewers. importamee nppears to me to be contained in the concoming yaram In stagian valuable artiele, namely: "A definite extraction of foml sewereay, if the vilint eonditions ot weat her, und regarilless of external tempentured forthed rate air of hoszital wards can le definitely catracted and furmeans as hepling say. 10,000 ctibic feet, jer lionr, night, and day, fich inst it ut ions can ix exhauster and ilestructor, and if the bewemosphere and destroyed at the ventel from heing disctarget infore hours, ly the consumption of only ait



## WORKIIOUSE INQUESTS.

Jr. T. Marsnex (The Square, Bridgwater) writes: I have held the appoint ment of medical officer (nou-resideni) to the Bridgwater Workhouse for abont six years. During this period I have received the nsual fee for attendance and evidence at inguests held at the workhouse, but at the last inquest, a short time ago, Was informed by the coroner that uader the Coroners' Act. Section 22, Subsectlon 2, of Act 50 and 51 Vict., he, the coroner, was under the impression he could no longer grant a fee, on the ground that a workhouse came wlthin the meanlog of the Act referred to. As this ruliug would do away with all workhouse inquest fees for the future, I would gladly have the opinion of other medlcal officers as to the right course to pursue, I have stated the facts to the Local Government. Board, under whom I hold the appointment, and anm informed that as the matter is uot one in which the Board have any jurisdiction, they are not prepared to express any opinion on the question submitted. My intention is to sue for the amount in the county court, but I wish to he strengthened by the knowledge that the workhouse medical officers have not
been withheld similar fees. been withheld similar fees.
** It is not advisable to sue in the, county court, as the case would be decided against our correspondeut. Some coroners still continue to givethe fee, though they are not Iegally compelled to do so.

## HOSPITAL AND DISPENSARY MANAGEMENT.

## proposed hospital for lunatics.

r. Writcombe, the superintendent of the Winson Green sylum, has recommended that a separate hospital for the insane hould be erected by the Birmingham Town Council. He is coninced that the medical treatment of the insane in asylums carcely deserves the name-nay, more, he maintains that recent ases are injured hy their admission into a lunatic asylum as at resent constituted. Were this plan adopted, he prophesies that 0, instead of 40 , per cent. of the eases admitted would be cured. fe admire Dr. Whitcomie's enthusiasm, and we sineerely hope nat his proposal will he adopted. We are not. however, so nguine as he is in regard to the increased mumber of recoreries hich will take place. We think he will diseover what many are discovered before him-tbat an enormons proportion of cases re associated from the beginning with such a degree of mental egeneration or insane inheritance that anything life 60 per cent. ifecoreries is impossible. If it he otherwise, if this high perentage is attainable, we are strongly of opinion that there is no ood reason why it should not be attaiued in existing well-eonrueted asylums, officered as they are by properly qualified redical men. Every accommodation is provided, enormous sums re spent upon the proper construction of these institutions; baths, id, indeed, every appliance that the superintendent demands are ranted by the authorities.
It las long been the boast of England that everything is done - facilitate the treatment of the insane in country asylums. veral years ago Dr. Bucknill wrote that the idea of medical entment seemed to have been given up in asylums for the insane, it he cast no blame on their construction or the surroundings of patients. The scepticism with which so many superintendits meet the suggestion of definite medical treatinent suited to e individual case is, no doult, sufficiently depressing; but seeing at it exists in spite of all the advantages at the command of ylum physicians to which we refer, we are at a loss to see how Would he succeeded by faith in medical treatment by the estabhment of hospitals such as Dr. Whitcombe proposes. They exist ready in Germany in several university towns, , wt they end in
uply resembling the ward for recent or destructive patients in an upy resembling the ward for recent or destructive patients in an
ogfish county asylum. We believe thait the results of treatment - no better than they would be muder the judieious treatment of able superintendent of the Winson Green Asylum, under his rent conditions If sueh is the fact, we regard the frequent elamation of county asylum superintendents, that they would re a great many more patients if they had only had a separate ilding on the lospital system, us the painful cry of despair her than a scientific opinion justilied by any facts 'attainable Whitcomperiment has been tried. Dy all means, howecer, let Whitcornbe's prophecy he put to the test, and, should it be fuled, we shall have greai pleasure in recording the fact. In this comnection we may note that a new hospital is to be eteel near the Monroge Acyllum, which is to accommontate fifty itnts of each sex. The cost of this huilding will be about , wo. There is to be a resident medical officer whose "entire en use the conventional language of the hopeful and confidframers of asylum rules, is to be " devoted to the treatment of patients in the hospital." The object of this building is not
same as that proposed by Dr. Whitcombe same as that proposed by Dr. Whitcombe. It is, properiy maing, an infirmary, and is intended for those patients who are
suffering from acute illness, the feeble, and the paralytic, and, in short, all cases requiring medical care. Dr. Howden, the superintendent for many years of the Montrose Asylum, has no doubt advised the architeet in every detail of this establishment, and nothing appears to be wanting in the appliances down to the smallest detail, judging from a description given in the Dundee Advertiser, March 17 th, ia which an elevation of the hospital is given. It is a handsome structure.

## ROYAL HOSPITAL FOR DISEASES OF TIIE CHEST.

The report of this hospital records the noteworthy fact that in two years the Total Abstinence Sons of the Phoenix had collected and paid into the funds $£ 300$, and that the Mile End Working Men's Society had enrolled seren of its members as life-governors, at a cost of seventr guineas. Like most of the other great hospital charities, this institution is in great need of funds.

## CASTLEBAR LUNATIC ASTLCM.

The resident medical superintendent in his annual report draws attention to the necessity for additional accommodation in this asylnm. In eonsequence of haring no day room accommodation, classification is out of the question; besides, the sleeping aecommodation is entirely short of the requirements. In November. 1886, fever broke out and forty patients were attacked, the cause of the outbreak being apparently dne to overcrowding, and the patients sleeping in a ritiated atmosphere. In January, 1857, Dr. Nugent, inspector of a sylums, in a report urged the board to provide additional accommodation, as the overcrowting was dangerous to the health of the inmates. Plans were prepared last May to build for $1: 20$ patients, and were forwarded to the Board of Control, but the latter were of opinion that $1 \overline{5} 2$ should be allowed for, and that more cubic space should be given for each inmate. Nothing has been done since, although the attention of the Board has been directed to the matter, and the amended plans have been before them for some months.

## TIIE DENTAL HOSPITAL OF LONDON.

Ar the aunual general meeting of the Dental Hospital of London recently held, some interesting results of the working of this institution were given. Some fourteen years ago the hospital was moved from its old site in Solo Square to its present one in Leicester Square, and during these fourteen years the work of the hospital and the medical school thereto attaehed has enormously increased. The report shows that the actual number of patients treated in $1887-8$ was over 47,000 , or 15,504 more than in $187^{\circ}$. Thi: large inerease in numbers has sorely taxed the resonrees of the present hospital and staff, and it bás been necessary to increase the size of their building. This lias been effected by purehasing adjoining property, and converting it into a new (west) wing, which was opened after the meeting. The cost of the improvements amounts to a considerable sum, and was met partly ly a munificent gift of $£ 1,000$ from the medical staff and lecturers, and £.jol from Miss Chaudius Ash, and partly by smaller sums from other friends. The defictutill amounts to $£ 5,500$. The present hospital and school will well repay a visit when the recent additions of a handsome lecture theatre, patients' waiting-rooms, extraction and operating (filling) rooms should be seen.

## UNIVERSITY INTELLIGENCE.

## oxpord.

Notice is given to eandidates for the second examination for the degree of Bachelor of Medicine, who offer all the suljeets of that examination together, and who passed the first examination for the said degree under the statutes in foree before 1886 , that the examination in materia medica and pharmacy will in their case be conducted as it was under the provisions of the old statute.
An election to the Sherardian l'rofessorship of Lotany will be held in the course of next term. A fellowship in Magdalen College is now attached to the professorship. The stipend of the professor, inclusive of this, will be fico per annmm. Application to be made to the registrar on or before May lst.

## CABIBRIDGE

Ox Marelh Sth, Robert Michuel Simon, M.B., of Genville and Caius College, dulv performed the exercises for the degre of 11.D. Thesis " Brass-workers Diseases.

## OBITUARY.

hobert gordosi hathid. M. 1) (Cantab.), Fif.C.r., F.R.S. IF: briefly monounced lust week the death, on Mareh 9th, of Dr. 1R. A. Latham, whe was for many years a keading authority in this country on comparative philology and ethinology.
liohert Gordon Latham was horn at Bellingborough Vicarage, Lincolnshire, $\operatorname{on}^{2}$ March sthh, 1812 , the eldest son of the Rev, Thomas Lathum. He was admitted on the foundation of Nton College in 1821, und entered at King's College, Cambridge, in $18 \% 0$. le graduated B.A. in 1833, and immediately went abroad, first to Hamburg' and afterwards to Copenhagen and Christiania. A product of this time is seen in his translation of Bishop Tegner's Frithiof Saga, and in a work on Nomeay and the Norwegians, published in 1840. He became Professor of Lnglish Language and Literature in Uuiversity College, London, in 1839 . Ile had been elected a Fellow of King's College, Cambridge, and had studied medicine in St. Dartholomew's lospitul, When in '1812 he ubtained the licence of the College of Physicians', and 'con"menced to practiso medicine in London." In' the same year he became 'Physician to St. Ceorge's and St. James's Dispensary, and in Ists he was appointed Lecturer on Matrin Medica and on l'orensic Medicine at the Middlesex IIospital Medical School. Ini the following year he became Assistant Physician to that hospital. He was, however, already deeply engaged. In the "stidy ot the subjects in which he snbsequently became famous, and in 1841 the Hirst edition of his great work on The English Language appeared; a second and enlarged edition was published in 18ts., th third in 1850, a fourth in 1855. Long before this, however, he liad retired from the medical profession. He resigned the pest of Lecturer ons Haterin Medica in 1849, and that of Assistant Physician in 18:00, being in both cases succeeded by Dr. A. P. Stewart. In the former year his place as Lecturer on Forensic Medicine was taken by Dr. Goodfellow. Dr. Latham's chief, if not his only, contribution to medical literature, was an ellition of the works of Eydenham, with a translation prepared for the Sydenham Society; to this rolume Dr. Latham prefixed a life of the great English physicinn.

Several textbooks on English grammar were written by Dr. Latham, and lave been known to many generations of students. One of his mast successful was a Ifanlbonk of the English Language, published in 18.51 ; it attained the honour of a ninth edition in 1s75. His maynum opus was an edition of Johnson's Dictionary which came out in parts, and was subsequently reissued in an abridged form. Ife wrote also much on comparative philology, one of his most recent works beingan Outline of General ur Developmental Philology: and many jears before he had prepared the roculularies for Mr. A. R. Wallace's book of travels in the Imazon and Rio Negro.
As with philology, his most important contributions to ethnology were systematic treatises, and he did much good work in laying the fondation upon which the modern science has been built. In quick succession he published works on the ethmology of the British Colonies and dependencies, of the British 1slands, of Furope, and of hutia, tho llrst appearing in 1851 and the last in 1.259; but he had previously published an essay on ". Han and his Migrations," and later a large work on Nationalities of Europe (18ใ3). He was, according to his friend, Theodore Watts, the originator, in 186\% of the theory that the Aryan ruce had its cradle in Europe and not in Asin, at theory which has come inte much prominence lately:
for many years before his death Dr. Lathan lud lived a very retired life, and for the last ten years nothing of any importance liad come from his pen. 11 e belonged to a generation which has passent, a generation of cucyclopadists who have hen replaced has a race of specialista. His death was Jue to brain disease, which had produced aphasia.
Post-qranuatre Course in Dentistry.-The Dental Hospital of London, Leicestur Square, has anmouncell a post-graduate rourse of demenstrations for fugistered medical practitioners and dentists. It is intended to make the conrse one of a very practical character. Two demonstrations are to be given each day, and include such subjects as treatment of fractured maxilla, of pyorrheadelvcolaris, alveolar abscess, littings and stoppings of various kinds, etc.

## MEDICAL NEWS,

ling and Qqebry's College of Parsiclans in Ineland.At a Special Examination for the licence to practise Midwifery held on Monday, February 27 th, 1888 , the following caudidate was successfnl:

## John'Jumes Orr, M.D. R.U.I.

Congress or Abmbican Phisictans and Sumeeons- Ten of the medical and siurgical' associations of 'America hate united themselves together under the name of "The Congress of American Physicians and Surgeons." This Congress will hold its tirst session at Washington, on September 17th, 18th; and 19th, 1888, at which time and place the Association will hold their anmual meetings separately as well as conjointly in the Congress. The preliminary programme issued, of which a copy has been forwarded to us, gives the following list of officers. President: Joln S. Billings, M.D., U.S.Army. Fice-Presidents, ex-officio D. Hayes Agnew, M. D., Philadelphia,'Pa.; President of the American' Surgidil- Association: Edward L. Keyes, M.D., New York City, President of the American Association of Genito-Urinary Surgeons'; Rufus P. Lincoln, M.D., New Vork City. President of the American Laryngelogical Association: Mfred L. Loomis, M.D., New York City, President of the American Climatological Association; William II. Draper, M.D., New Fork City, President of the Association, of American lhysicians; Jenathan S. Prout, M.D:, Brooklyn, N. Y., President of the Ancrican Otologieal Society; Willam F. Norris, M.D., Philadelphia, Pa,. President of the American Ophthalmological Society; Jamés J. Putnam, M.D., Boston, Mass., President of the Anerican Neurological Association; I. E. Atkinson, M.D., Baltimore, Mu., President of the American Dermatological Association: IIenry P. Bowditch, M.D., Boston, Mass, President of the American Plysiological Society; Newton M. Shaffer, M.D., New York City, Pres-
dent of the American Orthopredic dent of the American Orthopredic Association, Chairman of the
Erecutive Committee: William Pepper, M.D., Philadelplia, Pu. Erecutive Committee: William Pepper, M.D.; Philadelpha, Pa.
Treasurer: D. D. St. John Roosa, M.D., New York City. Secretary: William H. Carmalt, M.D., New Ifaven, Conn. Ameng the subject announced for report and discussion are the following: September 18th.-Intestimal Obstruction in its Medical and Surgical Relations. Papers will he read by Dr. Reginald MI. Fitz and Dr. Nicholas Sem, and will be followed 'hy a discussion. September 19th. -Cerebral Localisation in its Practical lielations. Paer, will he read by Dr. Charles K. Mills and Dr. Röswell Park, and will be followed by a discussion. Septemher ooth.-Address by the President, John S. Billings, M.D., U. S. Army ; to be followed ing. The Asception in the United States Army Museum Build tinguished gentlemen from abroad, to visit anerica at that tiza as their guests, to be considered niember's of the Congress, and entitled to participate in all the discussions.

Lectires to Sanitary Inspectors, -The Parkes Musenm, Margaret Street, have amounced a fifth course of lecture and demonstrations for the instruction of sanitary inspectors, of which the following are the particulars: Aprii 10th. (1) Introductory Lecture-General History, Principles, and Methods
of Hygiene, Mr. A. Wynter Byth, MRes of Hygiene, Mr. A. W yuter Blyth, M.R.C.S. April 13th. Ventilation, Neasurement of Cubie Space, etc., Sir Douglas (ial-
ton, K.C.B., R.R.S. ton, K.C.B., l.R.S. April 17th. (3) Water Supply, Drinking Water April 20th. (4) Dramage and Construction, Mr. E. C. Robin. Lomi. F,R.I.B.A. April 24th. (5) Sanitary Appliances, Professor W. ll Corfield, M.A., N.J. April 27th. (6) Scavenging, Disposal of Refuse and Sewrage. Mr. II. Perey Boulnois. M.Inst.C.E. May Ist. (7) l'ools (including Milk). Sale of Food and Drugs Act, Mr. Charles E. Cassal F.O.S., F.I.C. May 4th. (8) Infectious Diseases and Methods of Disinfection. Mr. Shirley F. Murphy, M.R.C.S. May Sth. (9) (remerth Powers and Duties of luspectors of Nuisances; Method of Inspec tion, Mr. J. F, J. Sykes, B.Sc.(Pul, Ilealth), M.B, May 11th. (10 Nature of Nuisances, including Ninisances the Abatement of which is Difficult, Mr. J. F. J. Sykes, B.Sc.(Pub. Health), M.B. May 15th. (11) Sanitary Law-General Enactments, Public Health Act, 187. Model By-laws, Dr. Charles Kelly, F.R.C.P. May 18th. (12) Medropolitan Acts, By゙-laws of Metropolitan Board of Works, Mr. A Wynter blyth. M.R.C.S. A nommal fee only of five shillings for ing tho eourse will he granted free admission to the Mnseum anc Library from April lst to June lst.

Royal Hospital for Sick Chldren．－The Directors of the oyal Hospital for Sick Children，Edinburgh，have appointed Mr． eorge I．Boddie，M．B．and C．M．，and George Wilson，M．B．and If．（at present resident physicians，Tinburgh Infirmary），to be sident physicians in the Sick Children＇s Hospital，for six months， mmencing May lst．
A Sunday Cot．－There suems to be no end to the ingenious －vices adopted by well－meaning individuals in appenling to the hilanthropic for funds for benevolent institutions．The latest is at adopted by a lady who，being born on a Sunday；has lopted the expedient of appealing to other persons born on the me day for funds with which to endow a＂Sunday cot＂in the ospital for Incurables at Kịlburn．

## MEDICAL VACANCIES．

The following Vacancies are announced ：
THNALL HOUSE ASYLUM，Cambrlige Road，E，－－Junior Medical Ofticer． Salary，floo per annum，with board and washing．Application to the
Medical Supcrintendent， Medical superintendent．
dROUGH ASYLUM，Birmingham．－Clinical Assistant．Board and resi－ dence．Applications to E．B．Whitcombe，Esq．，Medical Superintendent． ISTOL CITY LUNATIC ASYLUM－－Second Assistant Medical Ofticer． Salary，£1511 per ammun，with furnished apartments，board，and washing． Applications by March 28 th，to the Chairman of the Committee of Visitors， the Conneil Honse，Bristol．
ITISH SEAMAN＇S HOSPITAL，Cronstadt，St．Petersburg．－Resident Medi－ cal Officer．Salary．fiso per anum，with furnished apartments，etc． Applications to H．M．Consul，St．Pctersburg．
ARING CROSS HOSPITAL．－Assistant Surgeon．Applications by March
$2 i t h$ to A．E．Reade Esq Secretary pive pose hosituleretary
aring CROSS HOSPITAL．－Surgical Hegistrar．Applications by March
27th to A．E．Reade，Esq．．Secretary． 27th to A．E．Reade，Esq．．，Secretary．
RBY BOROUGH ASTLUM，－Medical Superintendent．Salary，e330，with furnishcd house，etc．Applications br April 13th，to he addressed to the
Derly Borough Asylum Conooittee，under cover to the Town Clerk，anit endorsed＂Medical Superintendent．＂
SEX LUNATC ASYLEM，Brentwood．－Temporary Assistamt Medical Onticen Pur three mouths．Saliry，ezo for the ternin，with board，lodging，and wash－ ing．Applications to the Nedical Superintemident．
NERAL INPIMMARI，Northampton－－House－Surgeon．Salary，£125 per S．P．Bennett，Ksq．etc．Applications by March 27 th to the Secretary， S．P．Bennett，Ksq
SHITAL FOR CONSUMPTION AND DISEASES OF THE＇CHEST， Hrompton，Resident Clinical Assistants．Applications by April ith，to the Secretary．
SPITAL FOR CONSUMPTION AND DISEASES OF THE OHEST， Mount Pleasant，Liverpool，－Merical Oficer．Salary；\＆\％u．Appllcations by March 29 th ，to W．J．Johnson，Esq．．Seeretary：
LL BOROUGH ASYLUM，Willerty：－Assistant Medical Officer．Salary． 2nd，to the Medical superintendent．and washing．Applications by April IRMARY FOLL CHILDHEN．Myrt Salary，e85，with board and lodking．Street，Liverponl：－Honse－Surgeon． Carver，Esq－i，Honorary secretary？
＇KRPOOL DISPENSARIES．－Two Assistant－Surgeons．Salary，eso per annum，with＇board，lodging．etc．：Applications by March 2tth，to $\mathrm{R} . \mathrm{R}$ ． Greane，Nsq．，Stecretary，Lelth Olfice；Moortields，Liverpool．
THOPOLITAN ASILUMS BOARIO－SMALLPOX HOSPITAL SHIPS Lony Reach．Dartford，－Clinical Assistant．Bearil，lootging，ete．Appli－ cations hy March 2 ith，to the Clerk to the Metropolitan Asylums Boani， Xortolk Honse，Nortoik street，W．C．
GAL LONDON OPHTHALMIC HOSPITAL，Xoorfields，E．C．－Junior Humse－Surgeon．＂Salary，£50 per ammum．Applications by March 24th to
the Secretarg． the Secretary：
PliNElk＇S HOSPITAL FOR STONE，ETC．Ifenrietia Sireet，W．C．－ Anesthetist：Salnry，e50 per annum．Applications by March $24 t h$ to the
Secretary． secretary
ST LONDON ilospital，Hammersmith Road．－Clinical Assistants．Ap
plieations to Secretary． STMNSTER HOSIIT
Applications by March doth to S．M．Quentiell，Secretiry：fio per ammmi

## MEDICAL APPOLNTMENTS．

rer，W．J．B．，Dsq．，appointed legistrat to the Cancer Mosuital，Bronpton， rce W．H．Elan，F．M．C．S．，resigned．
hin，Archibald，M．A．，O．M．Erlin．，appointerl Surgeon to St，Maryos Ins－ lital for Women and Ohilich，Manchester，vice William W＇altes，M．A．，
U．l．，resimod．
B．O．：M．B．Durh．，M．H．C．S．Fug．，＇abmointait Pithologist，to the Cancer cosplra，Bromyton，vice Charle＇s Stomhmm，ト．İ．C．s．．．resigned．
 3．T．B．，M．L．M．M．C．M．M．M．C．S．，resigued．
hispensary．vico James Brander，M．B．，C．Ne，resigned．
 Matthew M．D．apmolntwat Mesl F＇rendiy Society Medical Association． Matthew，M．D．，appolnted Mediesis Oflicer of Health＇to tho city of Aher een，vice＇hendore I＇homsom，M．A．，M．B．，resigned．
toon，S．P．M．I．C．S．，L．H．C．P．Lond．，appointer Resident Climical Assis－ ，R．C．P．Lona，resigued．

JACKSon，R．W．M．，M．B．，B．C．L．，appointed House－Surgeon to the City of Dublin IIospital．
Joxes，1L．，M．D．，B．S．，appointed Merlicat Superintendent to the Earlswood Asylum for Idlots，Redhill，vice C．S．W．Cubbold，M．D．，resigner．
Mackerrh，Ale xander Arthir，M．B．Glasg．，and C：M．，appointed Medical officer and Pullife Vucelnator for the Bramptord Speke and Upton Pyne districts of the St．Thomas Unton，Devon，vice ML：L．Brown，M．D．，C．M．，resigned．
Milligax，William，M．B．C．M．Aberd．，appointed Junior luble－Surgeon to the Northeru Hospital．Literpool．
Opevshatr，T．Horrocks，M．B．，M．S．，F．R．C．S．，pte．，apmoiuted Curator of the Pathological Mnseum of the London Hospital Medical College，vice F ．Charl－ wod T $n$ rner．M．D．，F．R．C．P．restghed．
PEAKE，W．P．，M．R．C．S．L．K．U．P．Lond．，appointed Astistant Medical Oficer to the St．Maryletme Xibirmary．
Roll，G．W．，B．A．M．B．，M．R．C．S．，L．R．C．P，appointerk Assistant IInuse－Sum Meon to the Leicester Infirmary，and Fever House，wice E．Scott Sugden， 3I．B．resigned．
Tras，I，H．L．and L．M．，R．C．S．and C．P．Edin！，appointed Medical Oficer to the Oldenstle Union（Crossdruth）！vice R．Riageway，M．D．，F．R．C．S．I．
Walper，Whllidm，M．A．，M．D．，appointed Physfeian to St．Marvis llospital for Women and Children；Manchester，vice C．J．Cullingworth，II．D．，F．R．C．P．， resingea．
Wipsin．M．aprointen Adalional Examiner in Botany to the loniversity of

Ateikg，W．E．．L．K．Q．C．P．I．L．R．C．S．I．，sppointed Mealeal Oficer to the Carbury Inspensiry District，ca．Wildare，vice W．Waters，L．K．Q．C．P．I．，
M．R．C．S．，resigheat．

## MEETINGS OF SOCIETIES DURING THE NEXT WEEK．

## mondat．

 case of Lupus of Month，Pharynx，and Larynx．Mr．Edmund Owen：A case of hiury to Lower Fpiphisis of Tina．Mr． Willam Mose：A case of Gunshat Injury of linee－Joint．Mr． Davieo Colley：A case of Trejhining for Middle Meningeal Hixmorrhage，Dr．Beevor：，A case of Charcot＇s Disense of Shoulder－Joint．Mr．Walter Pre：A easenf Ouliterated Arter－ itis fron Cruteh Pressure．Dr．Pureell：Two eastes of Thiersch－ Gould＇s operation for Removal of Penis．Also casus Ly Mr． John Morgan and others．

## THEADAY。

Rosal Menical and Chirurgicai Sociriv． 8.30 p．m．－Mr．G．II．Makins：A ease of Extroversion of the Bladder treated by Preliminary Division of the Sucro－lliac Synchondroses．W．J．Whlsham，＂F．Re．s． A case of Wound of the Femoral Artery and Yein；Trumatic Varicose Aneurysm：Ligature of boti Artery and hein：Re－ covery．With remarks on the＇freatment of Wounds of the Femoral Artery and Vein．
West Lospon Hosprtat（Climical Aftermoin），s p．m．－Mr．Keetley：I．Case of Transplanting Skln from Ariat to Fiace．2．Casen Illustrafing Deformities of the Toes and thelr Tratment．Mr．Eilwards： Cases of Disease＇of Testis．Mr．Brute Clarke：3．Cases of Wired Patella．3．Severe Flat Foot treated by Fexcision of part of Tarsus．Dr．Herringham：Hemlplegia with Heart Disease． Dr：Ball：Cases of Atrophie ：Heminitis．

## wednesday．

British Ginecologigal Society， 8.30 Pam．－The adjuurued disenssion on the Elert rolysis of＇terine Myoma will lee opewed by Dr．$G$ ． Granrillo Bantock．Specimens will be exhilited by Mr．Law－ son Tait．Dr．Mausell－Woullin，the Presitetn，and others． Council，s P．M．
Ilospital for Consumptiox，Bromptor，\＆pac．－Dr．J．Kingston Fowler： On cases illustrating some points in the Progiosis of Valrular Hisease．
PAREES MUSFUN OF HYGiENE； 3 P．N．－Dr．T．A．Scholield：On Hunte HCNTERYAN SOCIFTY．S P．M．－Dr．Ityle：A maso of Tymphnifes treated by Ponctnce，of Intestine．Mrp Cormer：A fatsl iase of icute Intestinal Oustruction complicating［teru－Gestation，widy Spedmen．Ir．J．Dundas Grant：On Tibnitus Aurium．

## BIRTHS，MARRLAGES，AND DEATHS．

The charge for inserting Gnnowincembents of Birits，Mitrriages，and Dheaths is Es ．Gd． which should de forwearded in stamps with the dunouncement．

## －BIRTHS．

LLoxD，－On the Ifth inst，at 22，liratut Street，Birminghan，the wife of Jordan Llogd，F．R．C．S．，M．B．，M．S．，of a daughter．
Morris，－On March loth，at．Fermburst，Haslenere，the wife of Fuwand Morris． M．R．C．S．，L．S．S．，of a son．

Jiske－Frass，－On March 9 st，at Bmmanuel Church，Kverton，Liverpool，by the Rev．C．Comrtenay，Vear，Surtrem J．M．Jones，drmy Menkeal Stad． eldest son of D．Jones，Isq．M．R．C．P．，M．R．C．S．，of Everton Rond Llver－ bonl，to Kate，yonnger dangluter of the Jate Captaim G．O．Frans，Cuited
 the Fenemble Archareacon Gore，W．A．assisted by the Hev．Fin Suifh．M，by ylear，John Sounrville，F．R．C．S．E．，to Geruldine，Youngest daughter of， Jolin May，J．P．，Kidge IIIll．

## DFATH，

 Elizabeth，the beloved wife olJuhn L．Finjon，L．I．C．P．Lond．，M．R．C．SSing． Friends will please accept the latlmation．

## 4UEIREES

OPERATION DAIS AT THE LONDON HOSPITALS. MOSD.LI........... 10.30 A.N.: Royal London Ophthalmic.- 1.30 P P.M. : Guy's (Ophthalmic Department) ; and Ruyal Westaniester Ophthat(Ophthamic. -2 P.M.: Me'tropulitan' Free: St. Mark's: Central Londou mic.- P P.M.: Metropolitan Free: St. Aarks : Centan Women.Ophtanmle; Roysl Orthopartic: and
TUESD.II 2...N. St. Mary's (Ophthalmic Department). 10.30 A.M.: Royal London Ophthalmic.-1.30 P.M.: Guy's; St. Bartholomew's (Uphthalmic Department) : St.Mary's; Boyal Weatminmew s Ophthalmic.-2 p,N. : Westminster; St. Mark's: Central ster Ophthalmic.-2e. Ophthalmic. -3.30 p., M.; West Londor; CancerHoapital, london Ophthamic. St. 'Thomas'a (Ophthalmic Department).; $13 r o m p t o n .-4$ P.M.: St. Thomas a 10.30 A.N. ; Royal London
WEDNESDAY 10 A.M.: National Orthopledic.-1.30 P.M.St. Bartholomew'a, Ophthalmic.-1 P.M. : Middesex.-1.e Ophthalmic.-2 p.M.; St. Thomas's; Royal Westminster Ophthalmic.-2 P.M. ; London: University College ; Westminster : Great Namaritan Central; Central London Ophthalmic.-2.30 P.M.: Samaritan Free Ilospital for Womeu and Childrea; St. Peter's. -3 to 4 Fres.: King's College.
P.X. : hing s College. 10.30 A.M. : llowal London Ophthalmic.- 1 P.M.: St. George's

TIIURSDAY - 1.30 P.Mr. : St. Bartholomewa (Ophthalmic Department ; Guy's (Ophthalmic Department); Royal Westminster Oph Oph-mic.- 2 p.M.: Charing Cross ; Lond the Throat; Hospita for thalmale: Hospital for Diseases of the Chelse Hospital for Women.-2.30 P.м. : North-West Loadon; Chelsea Hospital for Women.
9 A.M. : St, Mary's (Ophthalmic Department). - 10.30 4.M. Foral London Ophthalmic.-1.15 P.m. St. George's (Ophthalmic Department). -1.30 P.M. Guy's: Royal West minster Oph mic Department.- King'a College: St. Thomas's (Ophthalmic thalmic.-2 P.M. : Kmis London Ophthalmic: Royal Soutb Department); Central Lolldan Ophthasital for Childrea.London Ophthalmic 2.30 P.M. : West London.

## SATURDAY..

 2.30 P.M. : West Londori. $\quad$ A.m. : Reyal London Ophthalmin-9A.3. : Royal Free.-10.30 A.M. : E.M. St. Bartholomew's ; St. 1 p.M.: King's College.-1.ster Ophthalmic.-2 p.M.: Charing Cross; London; Middlesex; Royal Free; Central Ophthalmic.-2.30 p.a. : Cancer llospital, Bromptoa.
## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Ofarna Cross.-Medical and Surgical, dally, 1 ; Obstetric, Tu. F., 1.30 ; Skin, M. Th., 1.30 ; Dental, M. W. F., 90130 - Obstetric, M. Tu. F., 1.30 ; Eye, M.Tu. Ger's.-Medlcal and Surgical, daily, 1.30 ; Obstrtric, M. Tut. Tu. Thi. F., 12. Th. F., 1.30; Far, Tu. F.. 12.30; Skla, Tu., 12.30; Denta, Obstetric, Tu. Th. S King's Collese.-Medical, daily, 2; Surgical, daily. 1.30: Obsternent, W., 1; 2; o.p., M. W. F. 12.30 ; Fye, M. Th., 1; Ophtita, F., 10. Lospos.-Medical, daily, exc. S., 2 ; Surgical, dally, 1.30 and 2 ; Obstetric, M. Th.,
 1.30: o.p. W. S., 1.30 ; Eye, Mindersix.-Medical and Surgica, daily, Tu., \%; Skin, Tu., 4; Dental, daily, 9. 1.30 : Eye, W. S., 8.30 ; Ear and Throat, Tu... ; Skin, Ohstetric, Tu.Th. S., 2 ; St. Bartwodomkw's.-Medical and Surgical Tu. F., 2 ; Skin, F., 1.30; Larynx, F., 0.p. W. S., 9; Kye, Tu. Th. S., 2.30; Ear. T., 9
2.30; Orthoprdic, M., 2.30 ; Dental. Tu. F..9. S. 1 ; Ohstetric, Tu. S., 1; o.p. St. Georgr:s.-Medical and Surgical. M. T. F. S., 1; Ohstetric, Tu. S., 1; O.p., Tu., 2; Eye. W. S.2; Ear, Tu
2; Mant's, Medical and Surgical, dally, 1.45 ; Obstetric, Tn. F., 1.45; 0.p., N. ST. Marts. Meqical and Surgea, M. Th., 3: Throat. Th. F., 1.30 ; Skin. M. Th., Thı., 1.30 ; Eye. Tu. F. S.. ; Har, Dental. W. S., A.30; Consultationa, M., 2.30 ; Operations, Tu., 1.30 ; Ophthalmic Operations, F., 9.
Operations, Tu.. 1.30 ; Ophthamic peily, excent Sat., 2; Obstetric, M. Th., 2; St. Thovas's.-Medical and surgical, daily, excepeet 3 at ., 1.30 ; Ear, M.. 12.30 ; o.p., W., 1.30 ; Eve, M. Th., 2 ; 0.p.. daily, except 12.30 ; Dental, Tu. F., 10 , Shin, W., 12,30 ; 'lhroat. Tu. F., 1 mu ; Chicsen, daily, 1 to 2 ; Obstetrics, M. Tu. Viversity Colleoe.-Medical and Surgiesi, daly, 1 ; Skin, W., 1.45, S. 9.15 ; Th. $\boldsymbol{i}$ F., 1.30 : Eye, M. Tu. Th. F.,
Fhroat, The, Medical and Surgleal, dally, 1.30; OUstetric, Tu, F..3; Eye, Westinster.-Medical and Sin, Th., 1 ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS'.

Comuvications respecting ellitorial mattera sholld be addressed to fine Fditor, 42.). Strand, W.C., London; those concerning husiness matters, non-delivery of the Jourial., etc., should be addressed to the Manager, at the Onico, $42^{9}$, Stranl, W.C., Lenton.
Is onler to avold delay, it is parlicularly requested that all letters on the edltorial business of the Jocrnil be addressed to the Elitorat the office of the Joursial., aud not to his private house.
Jomena anding reprints of their articles published in the Pritish Medicai Juns desing reprints of their arricies pubshand with the Manager, 429 , Strand, W.C.
CORRFSPONDENTS whe wish notice to be taken of their communications, shonld
 authenticate them with their names-nicats to look to the, Notices to CorreCorreypono ents nint answered are
spondents of the following week.
MANUSCRIPTS FORWARDED TO TRE OFFICE OF THIS JOURSAL CANNOT UNDER ANX CIRCUMSTANCES HE RF:TURNED.
Pumsio HEALTH DFPABTAENT.-We shall be much obliged to Medical Officerś of Feath tf thet will; on forwarding tlietr Annual and other lieports, favour us with Dreplicate Copies.

1r.b. Wislues for informatro of Burmah and Siam. general, and the nelghbourliood of Jangkok In particular

## Vital Statistics of Convict prisove

Dr, J. Baron (10, Whit elaties Road, Clifton, Bristol) writes : Will some member kindly tell me where I can get stat istics as to the longevity of eonvicts; alsa the death-rate in our prisons?

## Treatmpat of Mfartburn.

A MrMaER asks for suggestions for the treatnent of obstinate heartbirn in a man, aged about 40, who has suffered severely for yeara. Dieting, nineral acids, nux vomica, and the usual remedies have been tried in vans. The one acids, whe thing which aftords eomplin is always most severe or whilst in the recumbent position. pain is always most severe in bed, or whilst in the

## ANSWELES.

T.S.E. (Gloucester),-Yes.

MrDicus.-Communicate with the Monomry Secretary of the Brussels Medical Gradnates Association, Dr. T. Ernest Pococh, The Limes, St. Mark's liosd, North Kensington, W.
FAS FAT, FTC.-W' have not the required information; it should obviously be obtained from another source.
R.W. ssks where the Deutsche Merlicinische Zeitung, No. 22, 1886, can be seenh, orln what ather journal nu secount of salicylate of bismuth, by Dr. Selger, can be found.
** Our correspondent will prohably find the information which he desires at the library of the College of Surgeons. Search should be made in the last three or four volumes of the Index Medicus, and Virchow and Kirsch's Jahrev. bericht.
M.B.-Dr. Boxall's paper on Puerperal Fever, read before the Ousletrical Society, in January, is not yet published in full, but ivill io all probability applear ia the first fasciculus of the Transactions of
Lonton for 1858 , which will be issued in April or May.

Chrosic Sumating in Axthlat.
M.B. writes: Bathe the 'axille at night with' equal parts of vinegar and hinhewarm water; or apply lin. belladon. externally, combined with fr. belladon. internally.
Mr. C. Haiden Cox (Cottenham, Cambs) would suggest to "M.B." the use al salicylic acid rubbed into the axilla every moraing and wigh and dusted into the has found the above invaluable applied bet ween the used boric aciof for similar cases, with aearly equal results.

Treatment"of Epllepsy.
II.B. writes: Oxide of zine with valerian root and cannabis ind. ext. mikht to tried. Begin with half-grain duses of the oxide thrice daily, mud gratual increase if required.
Dr. J. F. Oliver. (2, Hertiond Gardens, Albert Bridge Road, 'S.W.), wrles t suggest to B. the following prescription, which he has found to answer s suggest to 1 . the bromides: H Sodii nit. gr. v; liq. Fowlerii mx; tinct. belad. thre imme bromides: $\mathrm{K} j$ sure pure $\mathrm{j}_{j}$. Ft mist. Sig. One dose to be taken thre thime zingiveri 3 j ; sque pure 3 . fte leaves of bellad. and the ext., at night may also sdd to the mifigation of the tlisease.

## A Gxiacological Couch.

II" (34, Princes Avenue, Liverpool), offers to clescribe to " 1 Conntry Menitier it gynecological couch, which may be of use.

Duration of Infection of Whooping-Coteff.
DR. J. T. Richarns (Wirml Children'a Hospital. Birkenliead) writes : In sasue to the inquiry of "Portussis," it is helieval that the infection of "hoppth to the for six or eight weeks after the manitestation of the disease, an cough nasts that recurreace of the congon in children's liospitals.
tion. This view is acted upon in childreas oug
Treatmeat of Tracheal Coug Mr. Si.ank Inves Bafer (Abingdon) adrises Cant
and G. Steru's pumine two Diabrafan and Podormyine
On. Diarrfaca and PoDorifilili. Dr. D. H. Cullimorg writes: In answer to Surgeon-Gengest change of res hat chronic alghtly involuntary covering the whole abdomen; suppogitories, dence; a large tlannel bandage covering the wine-the extract or the tabloids cocaine, or of cocaine snd belladommatymine-the tide of ammoniua, hive gmit lurronghs and Welleame are admirahle-clatoride of anw inw, four years a twice a day in half a tumbler of water. Intene lead was by far the best. also in a boy, of all the astringents, acelate of lead whe hot on by fast hing, th
 ure of krameria answi he tried, In the case of the hoy just mentioned urived of butter, magt any great advantage. Turkish bat lis, with shamponla tried this, but withont any grest advantage.
now denatiomalised into massage, woul pually effect ual in the llquid nud sol
As regarda podopliylln, I believe it equaly eftect purgative effect, and thu forms. In some persons it has, however, but is very uscinl. Other drugs s are even some forms of diarrhas whers condition, an effect the opposif hase, owing to some altered physiological condure of iron sometimes acts a that which uaually attends them. Thus, tincture of iron sometimes
purgalive: and tea, so generally productlve of cxeitement and sleeplessness, has in rertninstaten wf heronh exhianstion, particularly in elderly people, a that procluced slecp was a euy of tea, takeu nljout $10.30 \mathrm{I} \cdot \mathrm{M}$.

## NOREB, LETTERE, ETC.

## A Case: of Distrees.

A Mbmoal max, aged 58 , with a wife and seven children muler 13 years of age, lans bern struck down with puralysis, and is unable to practise, or to noything Jor the support of his family. Two of the clitdren (girls, nged 8) have been approwed by the committee of the St..Lme's Schools as candithates forelectlon, and a gentleman has most generously offered to give fio, half the amomut necessmy, to purchase an immediate presentatlon for one of these girls, proviled that the remaining sum ( $\mathcal{L Q}(0)$ be obtained within the next two montlis, that is, hefore May 3lst.
The little money the father was able to save has long since been spent, and the family are in the greatest distress, and are now solely dependent on in small sum-ten shillings is wetk-granted tempomaly from the Molical Benerolent Fund. The case is urgent, aud the need for help immediate, to prevent the home being broken up.
The facts of the case are vouched for by Dr. Broarluent, treasurer, and by Dr. Jonson, Chairman of the Comnittee of the British Medical Benerolent Fund, who join in this appenl. It is hoped that the amount requirel to secure the preseatation may be subseribed within the time stipulated. Should there be any surplas it will he applied to the relief of the family
Donations towards the special objects in view, or offers to help in proviliag for the education and support ofauy of the other chidreu, will he grat efully re mived and achnowlealged by Dr. G. C. Jonson, 16, South Eatun Place, S.W. or by Dr. Johu AL. Bright, Park IIIll, Forest IIill, S.E., who will gladly auswer auy inquiries.
Messrs. Pope him Playte, manufacturers of elastic stockings, ete., have re maved frout I, Waterloo Llace, L'all Mall, to 13', Regent Street.

Orat Instrection of the Deaf.
Dr. W. Macfie Campbeil ( 1 , Prince's Gate East, Liverpool) writes: I have seen some correspondenee on this subject, and a query from this neigh-
 elty. I cian highly commend her as a compelent teacher, and lave one of niy chaldren under her cave.

## A Comrfetios.

IR W. B. Dalby ( 18 , Savile luw, W.) writes: At page $i 31$ of the Jotrinl of March Ioth, I am reported as haring sald: "An experience of ten years had
given a mortality h cases of amral disease of $S$ per cent." What I dill say was "8 per ammun."

## Metropolifan Profidest Dispexqaries.

Or. Robert R. lextolt (liverpool) writes : It would appear thatºDr. Paramoro neither believes in sick clubs nor in provident dispensaries. Many however, are strongly in favour of a well-conducted club system, its managers working the "wayelimit" "lause closely. He also adds:" I clallenge nnyone to show any difference betneen the club spstem and the provident dispensaries." Well, the lattet do not grant siels pay, tuneral allowauce, widow's
fund, or give any division of funds at Christmas. Few members, indeed, yo fund, or give any division of finds at Christmas. Few members, indeed, go
moto the sick club for the doctor's sake. The fact to prove hefore a comnittee that they will want neither doetor nor drugs is whe of their chief planks. They ulso-1. Wroid the two extremes of life, limiting membership to those of 18 to 45 years uf age. 2. Exclude those of certain eallings. 3. Make candidiates pass a medica exambination. 4. And have stringent. cules against ment bers wha contract illness thrung renerea disease, or drink Further, they
give the nember the use of the doctor from the day the former euters, the provilent dispensary system teferring benefits from one to two months atter entry. Are these suticient differences? If not, there are more. Is it not
well known that few cluh patients trouble tho club doctor, generally going to the hospital, or " preseribing" ohemist?

Will Dr. Paramore, or anyone conversaut. with the needs of our wage earnIng classes, hold that they ara able to pay even the low medical fees mentioned in H\%ituker's Almimackf Surely not. Well, hlien, how are these people to provinle thenselyes with respectable mevical theat ment and drugs? down at 1 E. weckly. No doubt if a shagle man or woman had eontinuons pay of dos. weekly he or she might he able to pay a doetor: but when sickness contes, or he is out of work, watges stop, and he is oftell so lard up as to be unable to pay his usual fee to his sick clulb: consequently, his 12s. of "sich pay ", often alsu rods. I'ractioally, then, the man has little money lest, and of iumbons or the working man do mot seem to help him mach. This want the quest in key of the provident schome. One would luwe thought that aft to those of slonder means had loug ago been settred. if medieal men would look at the social slde ne this question it mlash. help in its solution.
Dr. I'manore also sitys: "Contract work is notoriously bad." What will our lecturers say to this-par puld hospital doctors; our armiy, navy, colonial, and mercatatile marine surgeons; our poor-law doctors, vaceinators, and bealth offecrs-all contmat-paid? Do not our Court physicians and surgeons, with their eyes very wide open, eontract to act for 2200 a year, while the surgeonapothecary secures el, wo? buough, then, that contract work is "notonousiy ones help to make up for the samall." Lut the consequences are of our goou naking, num none wher: No doubt the Leicester Provialent. Dispeusary is

cause a good many tout for hospital appointments, and treat patlents for 3 d. each, $n s$ at $\mathrm{Gn} \mathrm{H}^{\circ} \mathrm{s}$, or take commissions from druggists. these facta 10 not give one the right to let loose unneasured and unrestrained conderanation on fios. pitals und medical men.
Let the provilent dispensary system be as free from abusc as posslble, so that it may command the respect of the profession. . At praseut we locturs are cutting and hacking at each other in a most wicke and gorlless manoer. While we are trying to acquire eacls other's fucome, we are sinking the social status of the butire profession. Therefore. let us all try and not in a nore busincss-like way in our professlonal transactions. At present we are the laughing-stock of the community: Only a few weeks ago, In Lirerpool, one doctor touters round the varlous ofices for a hospital vacancy, while another sent bu a large bundle of testluonials to a sweeps siek bencfit soclet y, ufferhis to do the work of the surgeon for "sixpence less" than their own "medicat atterdsat?"
Dr. Haranore seems ominousiy silent regarding the great abusc of our medical charities.

## Onotava

Dr. Poutass forwards us a communication from a patient, who writes to him from this now health-resort, conceming which we published last year a series of letters from Mr. Ernest Intrt, showing that Port Orotava is this year very full, evel to ovedowing, aud that the limits of the existing accomnonlat fon are overtaxey by the ation of visitors. The accommodation of the African stermbats is spohen of with nuth approbation; and the new hotel openel at Laguna, the stopping place ont the drive across the island Irom Santa Cruz to Orotava is saic to we very clean ant satisfactory. A new hotel has becen opened called Casa Carpenter, wherc accommodation is to be had on vory modente terms. "There can be no doult," this lady" writes, "abuut the elimate: it is perfect, of such luvely golden sunshive over sea and mountains; but at present there is not the accommodation necessary to satisfy all the requirements of English travellers. I am afrain they are sumewhat exaching the people who live in villas are contented because they cau have their focri cooked and served as they like, but in hotels folks are very much given to grumbling and fault-tinding. We shonld frequently have the food differently prepared. I can recummend the Casa Carpenter withevery confidence to reasonable people who will not expect to tind the luxuries of a West End hotel and cla): combined. The water is quod, aud Dr. Perez assured me quite safe to drink." She adds that there are this year plenty of mosquitoes, and the place is not free from tleas (as are inleed lew Spanish hotels), so that Leating's powker is a useful adjnict to truvelling appliauces. The postal arrangements are irregular, but she vrites: "We have the priceless sunshine and pure sea lreezt:" There are alreaty 150 English persons in Orotiva, and it is stated that siyty more are expected by the nex hoat. It will be remembered that in Mr. Hart's letters inteuding visitors were informed that the accommodation was at pre sent limited, twe Grand llotel ouly making np forty beds, and that the visitors wonld do well to ascertain beforehand what vacant accommotation might be available. There is no doubt that the singular equability of the clinate, and its delightful winter sumshine, together with au absence of coll winds, or from any sudden changes of temperature after sunset such as constitute the besetting dangers of the liviera and of Egspt. will make Port Orotava more and more frequented os a watering-place, if any place in fie world can offer equal advantages of climate or a nore interesting scenery wor the hotel necommodation is far from being fully developed. considerint the numbers who are flocking to the island. We hear, houever, that not only is the Grand Hotel likely to be consilerably enlarged next year, but that i new hotel is projected on a meighbouring site. which will ofter equal arbantages. Meantime, visitors shonld be catutioned to ascertain heforehand that they will we able to nbtain adequate and contortable acconmodation.
The effect of Mr. Eruest Lart's "Winter Trip to the Fort unate Islands" has been to give to Orotava a reputation which russ easily orertax its existing resources. ont this isa sort of dimenty whe prise, is likely soon to reuedy itself. Those who go to Orotara, however, without due notice, and without ascertaining that they can be received, will hare only thenselves to thank if they find a dificulty in housing themselves satisfactorily. We would recommend medical men who are proposing to send patients there nt present, to commmicate with Dr, Perez, to ascertaim whether the patients cam be satisfactorily provided for.

## Britise Qualificatioss

A.B.C. writes: The letter of Mr. G. Yiuler, in tho Joursil of Nareh 3nd, seems to me to invite criticlsm, although Scoteh degrees do not need alefeuce in your columans. Your correspondent's languige is so involved, and his aftitnde so peculiar. that one can hardly guess the object of his letter. Ife confuses degrees with qualiticatious, talks of thiugs English, and in the same sentence slubs them British, and speaks of "mumerous" scotch unirersities, so that one must conclude that his inability to sign the wertilicate he mertions hats had a verv disquietimer and confusing effect on his mind. This state of mind is furt ber indicated by his wish to throw "open" seotel degrees to Enh-lishmen, as English qualifications ave to Scotehmen. I do not know if yon correspondent apprectates in this seutence the difference betwren deyrets aml qualifieations: probably he eloes, as the arramgenent is so one-sided. I ean only point out to hint that the sootch miversities from which degrees cmamate are at present open to "we liaglishmm," who hargely svall ourselves of their thorongh and liberal system of edueation; they are open in the sume sense and degree that Kaglish corporatious are npen to Scotchmen, "Open" as long as thelr daws and regulations are complied with. This is the real kemel of the questlon. The regulations und curricnlun of a miversity are rery different to those of a metio exalliuing and thating bats like the Apot heo caries' Conpant, which no doubt answered a usefu! purpose in its time, but is nom out of date in mis view, there should be no baly examiminar for medieal qualitication which does not teach or further medical science in some other way
It is nn incongruity that errtain hodies of examiners practically irresponsinte smoun drawiog large salaries fron the pockets of needy students, the -. rosult of such salaries being practically dependeut on a rough and ready other aboses iusconarbule from a system of examination lu whlch the examiner and candidate hare never previously met, and these bave been pointed out ind the Jocrsal.
The last sentence of Mr. Pinter's letter seems to me the most curious and olseure of all. He states that everything Rnglish is under a clund, an assertion which requires elucidation or confirmation, and reminds one of the

Pinkere to whom a copy of the Pilyrim's Proqress was lent. The American returned the hook, nud sald that "Its statements are interesting, but tough." Jry Plader then takes nn the role of a medteal reformer, 1 a sound Brttsh qualifualan, which evesy mum wact sing in Great Britain a soumt be conpelded to have. He does bot luelude I reland in his seheme, and


 us best you can," turns olscurity into the banchiness on becomes of the ortionly nak, lf your correspond"nt hins n
nary rules of professinal etiquette?
Dr. J. J, Lefors wrltes: On a recent vogage across the Ahantic, I maike some ohservations on the matter of sea-siekness. It was evident to me, first, that respiration was imperfect: it was governed by the motions of the boat. One not used in the sea, and the sume with him mence it only at the turns, or, it breath as the ship is tussed up of down, citches are grent, only gasping for it. Thase the respirations infrethe wayes ate grent, only gasping (or it Thent and Imperfect, with very anpurent result. The blond ao inadequately quent and mperfect with rery appurent resule, The beessarily be noisonous to the bain, and the sympathetic sickness is quite understindable.
The experiment I made seemei to prove that the irreqular pespiration was not accondary to the siekness. I system of remular, fres breathiog prevented slekness. or traphlly relieved it. Oine must sit and give his attention to it, must brenthe to the, with full and regular inspirations and expirations.
must breathe to the, will discuss no theory, hint I nm alle to add the following letter of Dr. onll तlscuss no theory, blice, who repestel my experiments. Stockman and Dr. Prentice, Who repested leaverp Queenstown on Sunday we "Dr. J. J. Leiser-Dear Sir,-Mtel leaving Quecnse roll that the meals passed into a rery heary sea. So disagreeabe weok the opportnuity to exwere nlnost deserteal. Accordhg to promise we took the opporthrisyiled at periment on your theory of sei-sickness. The ships surgeon onariably valueour suguestions, he having henrl scoves of cures that proved invariably valueless. Weiertheless, we sent to work and secured ten unlortunate individunls whose gastrie regions were going through convulsive contontions, and making their lives miserable. IVe seated ou patients on deck, on the fore making their of ship, where the plteh was most enusillerable. Dr. Prentice spated filmself with five, and I took the nt hat tive under my care. We timed the breathlng in the following manmer. We raised the hand from the knee, indienting an inspiration, and down agrin for an expiration. We had u quarter second stop ratch, and timed the respiwatione exactly twenty per minnte. At the expiration of one hour resphetres symptome in ench case had entirely subsided. Of course this does mot mean that all the faintucss and tendency to nausea in ench case had sulsided : in a tew of the cases these still continued. By thi tlme we had thoronghly edueaterl nur patients in the modus operind of the cime we and then took their natmes for eonference the remaioder of the soyage, Wirs, aun then one excentlon, a case at first the sniddest of the ten, hut who obstinately kept his berth. amd relused to montinue the treatosent. and remained sick kept his berth, hat relusentin ment permament cumes. The following are the names as on the salonn passemurer list of the Etrurin, Felyruary 4th:-His Excellency. J. femmalis. Hellenie Minister, Volted States; Mr. Leonard Jerome, Xew Vork; Mrs. John A. King, Philidelphas: Mr. Thomas Le Bontiller, New York: F. D. Millet, artist, New York ; Dr, A. Lawrence, Men phis ; Miss Ida Griffiths, New York: Chunt F. Zhmowsk, Philadelphia; JIrs fhis; Thomson. New York ; John Schmidt. China. During the last part of the trlp flve others. Whon we had not feell fit to put in our list, were benetited hy the experiment, which. on our minis. estallishes the tbeory as a faet heyond any तmbt. The rure is infallible foll all cases that persist in carrying it out.-G. С. Stockvas, M.D.; C. W, ©. PRFsticr, M.D."

SUROEM-GFivral Chas. R. Fravcia. M.B. (Broudesbury) writes: Thequeation was misel by Dr. Edwart Markey, in a paper pad before thi SouthFanstern Branch of the British Medical Asociation, and afterwards published Io the Jotrasio of July 10th, 1886 , whether purpura. taken fil its generip sonse, and including not only the hamorrmagic variety but the "aqueous" sonse, and including not ore "sline." as learribed by D". Michardson, was of neurotic origin. nind the "saline. as dearilben a case which spemed to show that it is.
And he following case, contirmatory (?) of this virw, which has recently come undermy observation, apparently trachers thu twnfold lesson: (1) that the suspension of rasomotor influcuee over minute hood-ressels may lead to conirestion in some part of theiv course foltowto hinst-ressels may lead to congestion in some phart of their course, followed hy istands of blond-effusinnpanely, nerveparesis, and consequent vasular engorgement.
manefr. nerve-paresis, nid consequenlonged sorvien in the East, and subject to An Anglo-indian, retired niter prolond an atinek nfternehili, but recovered.
 though very slawly, under appmpraly a day. His recovery, ou inmer occajlemented hy somb it ounces of brandy a day. similar treatment, hut without sions, had been more mpic under somewhat sinmiar treat ment, hut wink any alenhol whatever. Habitually he was all exceedingly monterate drinker on fermpnted liquors. Shortly afterwards he was again atfacked, was simiarr. treated, and dicd. It was remarked with surprise by the medical attendant that the pattent enniplalned lowards the last of paljifation of tho heapt, in which no reasn coulh ive asstgned-currfu! pamination detected nothing
 tremlties.
Jtay we not reasonably luter that the enntinunus use of aleohnt in a weak-
the Say we not reasonably unter that was the cumse of both the palplation and
 the purpura? depencently of alcoho
example, anamin, de.

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# THE LUMLEIAN LECTURES ay AS AN INDICATION OF DISEASE. <br> Delivered at the Royal College of Physicians, March, $188 s$. <br> By W. Howshlip DlCKlNson, M.D., F.R.C.P., <br> Honorary FeHow of Caius College, Oambridge: Serior Physician to St. George's Hospital ; Consulting Physiclan to the Hospitat for Sick Children. 

## LECTURE 11.

Class 8.- Enemusted Dry and Broven Torigue.' The rariety about to be described is'distinct enough, though it has points of contact with the two preceding classes, as a later stage of which it presents itself. The essential characteristic is the covering of the tongue, with a brown dry crust, which sur.mounts and conceals the papille. It occurs as a later stage of the furred tongue, the spaces, between the elongated papille getting filled up, as it would seem almost necessarily, and the accumulation carried up eo as to level or overtop their summits! It' occurs' also as a later stage of the cdated tongne, more par' ticularly of that kind which has been described as plastered, the growth of the papillæ and of the epithelium in the interculs and the accumulation of parasites on the dry surface prolucing the result.
To the naked eye the characters of the encrusted brown and lry tongue are almost sufliciently described by these three words. it is irregularly covered with: brown. dry incrustation, variously 3roken and fissured. Sometimes the cracks are quite irregular: iften the deeper are: tranverse, with longitudinal longer and thallower fissures, which together divide the crist into more or ess rectangular seales, The surface, particularly in front, often lisplays, instead of incrustation, coarse elongated papille, which
re'antecedent to it, while towards the back and central parts the re' antecedent to it, while towards the back and central parts the oat.covers and conceals these prominences. The colour is gene--
ally brownish, and the upper surface rough and dry; while the aly
nder part is smooth, uncoated, and only clammy. The teeth are ften encrusted with brown matter.
It may be asked, Why is the encrusted tongue brown? First, ecause it is dry. Dlany animal substances dry brown, among thers the white, coat of the tongue. I have dried a thicklyoated white tongue at the temperature of $100^{\circ}$, and also at that $f$ an ordinary room. When dry it became brown. A brown, ry, encrusted tongue, when soaked in water, became nearly white, ut not quite, and brown as before when re-dried. Thus dryness ppears to be the chicf producer of browness, but staining by food od medicine no dontt helps, 1 Many coloured matters-beef-ten, ine, etc.- go into the miouth of $\Omega$ 'sick man, and cannot but. disHour the tongue if the uatural wash by saliva is wanting. The usts on the teeth arel probably similarly produced. They are th due to the drying of saliva on the tecth, for saliva nt the licat the body dries white.
With the microscope the chief points are the elongations of the pille, and their heing embedded and overlaid by a heterogeous brown mass, which will be further noticed. The inerustaon differs from what has been shown to form the cont or fur. ough attached to it so as to be inseparable without fracture. nced in section from within outwards, it presents first manch ithelium, more or less horizontally arranged, flattened, but ually not.old enough to have lost the power of taking carmine. rough this project long papillx, chiefly consisting of horny, uniting epithelium, upon the exalted summits of which rests a nfused mass which constitutes the crust. While the tops of the pille support this material, their intervals are filled up by it. nus there are two constituents of the covering of the encrusted lgue ; first, a large growth or accamulation of epithelium, much which is in the shape of elougated papillic; and, secondly, a s definite structure, which lies upon this and in its interspaces. e superimposed substance is mixed and irregular ; much of it I Hp described noly as amorphous; in it can be distinguished thelial cclls disposed withont regularity, fat-globules, oceaually other adventitious and accidental matters, and last, not
two cases, in one during life, in the other after death, I foums lying on the tongue large detached masses of dry brown crist, one of which was not less than a quarter of an inch thick. Sections of these prepared in different ways were examinel; ; show a diagram representing one of these sections male fromi a drawing which I owe to the skilful hand of Dr. Delejing. Both masses showed a profusion of' regetable organicms, chielly micrococci and the ordium albicans. I am indebted to Dr. D Gepines for a minute description of these organisms, which, however, I will not. read. Besides these were many st rands of horny or superficial epithelium, manr epithelial cells of the dewper hivis, many fat-globnles, and mueh indeterminate matter. The dry jucrustation differs from the moist coat chiefly in this; whereas the major bulk of the white coat is epithelial, a very large proiortion of the dark dry crust is parasitic. In the dceper parts of the epithelial structure; more especially in the Malpighian lay-r, there is often much profusion of nucleation or cell growth, the rorium is in many cases distinctly lyypernucleated and often over-injected. More rarely leucocytes are extruded within the papilla: and elsewhere:
To sum up the evidence afforded by the morbid anatomy of the encrusted dry tongue, we see first the results of the absence of friction and irrigation, most conspicuously in the accumulation which forms the erust. It is probable, also, that the elongation of the papillæ miny be partly attributed to this canse. But there are also signs of increased cell formation and nutrient activity, se that we witness here a double process, over-production conjoined in larger, measure with deficient removal. It is olvious that the dryness which helps to define this tongue has played an important part in it, both by want of scour and also by induration.
Coming to clinical considerations, much that has been said about the furred tongue applies also here. It will be consenient to take together two classes which, though I hare separated them for some of the purposes of the inquiry, are not to bedistinguished sare as the earlier and later stages of the same state: 1 lhall for clinical purposes fuse together the tongue which is completely encrusted and that which is in the process of shedding its crust in the way to become denuded. So rarious are the conditions undur which the encrusted tongue is seen that it is not easy to disecx"n what the link of association may be, except the somerrhat loose one of serere illness, and that of some standing. The instinctive sense ' of the physician carries him thus far. Hlis looks art ominous, he talks of the "typhoid state," and be orlers stiuuulants.
Analysing the details in the two tables before us (Nos. \& and 9), comprising fogether thirty-four cases, ]neumonia take the firsi place in frequency with six cases; then come pyomia with four and continned ferer with three. Acute rheumatism with hyperpyrexia occurred in one instance, and erysipelas in oue. In ihort. there is scarcely any protracted and depressing febrile disorler in which, if I may surplement the scanty records before ns with unrecorded experience, this tongue is not apt to be developed. It is often characteristic of typhus by means of the black cqlaur it then presents-possibly due to hemorrlage into the coat (but of this I cannot speak from observation). The encrusted tongue is so commonly lonked for in advauced typhoil that it is often spoken of as the "typhinil tomgue." thomsh hy no means the only rariety displayed in this disease. But the association with fever does not contain the whele vory. nor is the febrile condition essential. This tongle tuay curcur with its complete ahsence. The alstract shows that of the thirtsfour eases in question, fifteen displared a temperatine abose lows. eight a temperature under $99^{\circ}$, in three of which it was suthnormal. The low temperature was manifested with alulominas cancer, advanced phathisis, albumimuria, sythilitic mania, diarrhea, alcoholism, and prostration from an unknown canse. Thas, pyrexia, though often present with the enerusted tonglie, und no donbt, by the eraporation which it entails, helpfinl to it mednction, is liy no means necessary to it. The average temperature is lower than with the plastereil tongue. It is scarcely inen!fu! to inquire after what has heen said, whether this toncue is $t \rightarrow$ he generally attributed to openness of the mouth during sleep or coma. The dry enerusted or furred tongue-for the iwo lave similar clinical relations-is an especial propertry of coma or insensibility. T lare not recorded any case in which well-marked cona persisted for more than twenty-four hours withont one or the other being developed. The records are scanty. but a larger exferience supports the general rule that with coma or lons inconsciousness the tongue becomes as described. Hany reasms are
obyinus-hryness and disuse the chief. Put why the dryness? It is manifest that coma, if it involve liabitual openness of the mouth, must tend to dry the tongue; but if health is good in general respects, it does not appear that the mere passage of air over the tongue in respiration can produce anything like the degree of desiccation in question. I have noticed how little dryness has resulted in a person otherwise well whose nostrils have been surgically pluggel, and we must take another point of wiew. Coma, however it acts, is connected with only a minority of cases in which the tongue becomes dry and encrusted. Putting asicle all states of coma and unconscio:isness, all iu which the mouth has been habitually open from ather canses, and all states of prrexia, there remain many conditions, and these most varions, in which the tongue has presented itself. Adranced phthisis, intra-thoracic or abdominal cancer, idiopathic anemia, and diarrhoea have been mentioned: all were attended with much depression or prostration, and, indeed, it appears that, whatever else he present, a condition of much illness or lowered vitality funs throngh all and supplies the common factor. It has been shown that $n$ similar condition of prostration often attends the furred tongue. I should have preferred to have been more explieit, but it is not easy to narrow the statement within a more strict definition. To most of the conditions the term "sinking" wonlll be applied as indicating what is present or threatened. There is not necessarily any loss of consciousness nor any obvious failure of the nervous system. Sense and senses may be alike unimpaired. There is, as a rule, failure of circulation, of muscular strength, and of nutrition. Perhaps the term "asthenia" best implies this state. Any disturbance may be superadded, but none other is generally essential. I say generally, for direct dehydration will cause the state of tongue in question. This is seen in the effects of dry diet, and perhaps less simply in the effects of diarrhea. It is to be observed that exhaustion by suppuration, as will be seen, calases other changes in the tongue than this
It has been shown that the essential local change is dryness, and that this, as a rule, is not due to direct delydration or to increased eraporation from pyrexia or patency of the mouth. That it is due to deficient secretion of saliva is a necessary conclusion, warranted by the obrious deficiency of liquid in the mouth, by the difficulty or impossibility of spitting, and by the usually fruitless result of catheterisation of the parotid, notwithstanding that acetic acid may be applied to the tongue as a stimulant to this gland. I shall revert to this point, but am not wrong so far in assuming the dryness to be, as a rule, due to suppression of this secretion. Associating this with the asthenia which accompanies it, we cannot but regard the local as the result of the constitutional state, and probably may accept it as a sign that the prostration is telling upon the functions of at least some of the organs. The lowols, kidneys, and skin do not obviously participate in the failure; hut how about the gastric and other digestive juices? Ohserations here are difficult or impossible, but it may be conjectured that the salivary failure does not stand alone, and we may accep: the state of tongue before us as anindex not ouly of asthenia, lut of a failure of certain vital functions connected with nutrition.
8. Encrusted, dry, and Lroun.

| Pericarditis, hydrothorax, tapling often |  | $\ldots$ |
| :---: | :---: | :---: |
| P'neumonia ... | ... | ... |
| Ihthisis | ... |  |
| Cancer of lung | $\ldots$ | ... |
| l3ock in rectum and hepatic ascites | ... | $\ldots$ |
| Choleraic diarrhȯa ... ... | ... |  |
| Grimular kidney and uremia | $\ldots$ | ... |
| Ursemic coma | ... | $\ldots$ |
| Diabetic coma | ... | ... |
| Obstructive jaundice... | $\ldots$ |  |
| Cancer of pancreas, etc. | ... | ... |
| Acute rhcumatism | ... | ... |
| Hiopathic anæmia ... | ... | ... |
| Typhoid ... | $\because$ | $\ldots$ |
| Typhus ... |  | $\ldots$ |
| Firysipelas | ... | $\cdots$ |
| lyminia |  | ... |
| Rapid emaciation, causc uncertain | . |  |
| Alcoholism ... ... ... |  |  |

Total

Observations as to the above cases 1'yrexia (temp. $102^{3}$ to $104^{\circ}$ ) Hyperpyrexia
No ohservations as to temperature ... ... Average temperature of 21 cases Much prostration

- I2

Prostration not severe
Cliefly on liquid diet
Strictly limited to liquid diet...

## Dry diet

Saliva alnormally deficient ${ }^{2}$
Died, 14 ; recovered, 7 ; relieved, 1.
Class 9.-The Process by which the Coated, Furred, or Encrusted Tongue becomes Red, Smooth, and Dry.
The clcaning of convalescence requires no further notice; the shelving off of the coat at the tip and edges has been described. In less fayourable circumstances the process of making bare occurs in this wise. The incrustation is very dry and correspondingly brittle, and the epithelium beneath it, in connection probably with the same want of moisture, does not grow properly. The coat or crust now wears off more or less at the tip and edges, in a gradual manner, and displays not the normal surface, but a red and dry one, usually covered with a delicate membrane, so thin as possibly to escape notice, but discernible to a careful cye. Under the microscope it is evident enough. After, or more or less together with, the exposure of the fore part of the tongue, the central part loses its covering along a broad stripe which reaches from this point not quite to the back. This may be an inch or rather more in width, and is the part of the tonguc most exposed to the breath, and consequently the driest. The clearing is often effected by a very obvious cracking and breaking away of the crust, which may be so rapid that I have seen $a$ much encrusted tongue become nearly naked in a day. The exposed surface may look raw, but is seldom absolutely so, for it is skimed over with the dry translucent membrane which lias beea described. This stretches straight along the surface, like the arachnoid of the brain, not dipping between the papille, the outlines of which it obscures. The bare and polished stripe is often fringed with white fur or coating as a line down each side, outside which is the nearly normal lateral margin. After a time the whole upper surface becomes nearly equally red, dry, and bare, the surface being intersected with fine or deeper lines or cracks, some longitudinal, the deeper transverse. The conting is retained longest at the root. A resumption of moisture is a sign of coa-
stitution stitutional improvement, and precedes a gradual reclothing-too soldom observed-which restores the tongue to its normal state. 1 will now bring the microscope to bear upon the process which has been described. 1 pass orer the gradual change of convalescence to consider the modes by which the morbidly dirty tongue becomes morbidly clean. Starting with the elongated papille of the furred tongue, these, together with all the superficial epithe-
lium, lium, are often swept of accurately down to the Malpighian layer, time, or almost simultaneously, this may become covered afresh with epithelium of the horny sort, not at first as in health, but in the shape of the thin membrane of which 1 have spoken. Supposing the denuding process to continue, the Malpighian layer itself is removed and the corium exposed, making a surface which is uneven microscopically, though to the naked eye smooth, and neecs sarily red and raw. This process is attended with vascular injection, hypernucleation, and often the extrusion of leucocytes. Much of the injection and hypernucleation may be the consequence of the loss of the protective epithelium, with exposure and irrita tion of parts which should be covered. But in some cases it apparent that a general inflammatory infiltration of the superficia parts precedes the denudntion, and helps to produce it by a destruc tive process. This is most marked with scarlatina, where the infiltration is often most abundant. This may be due to the especia effect of the disease, which the tongue appears to share with the skin and thront. I have now traced the flaying operation down to the true skin. All that is special to the tongue has gone, at least in places; but more often, as I have said, the process stops on reaching the Malpighian layer, and lice begins a process of repair to which I have alluded, but to which 1 must revert. Th tongue is now red, level, and polished. To the hasty eye it looks
${ }^{1}$ The extreme illness of raany of thrase patients made it dificonle to estimate the absence of saliva ly att umpts, to spit or buy catheterisation of the duct. (he io

ike raw becf, a similitude often used; but the beef is mrapped a silver paper. A contimuons layer of horny epithelium, of exreme tenuity, presents itself, and resting on the more elevated emnants of what were papillx, stretches from one to another fithout dipping into the hollows, like the roadway of a bridge. he hollows, lowever, are not empty, but contain epithelinm of be deeper sort. The somewhat gradual process which I have escribed is sometimes replaced by one into which violence more bviously enters. This relates especially to the encrusted tongue. he felted mass of crust breaks through its deeper part, the fracre passing through the bases of the papillæ, leaving their broken Jumps standing. These quickly become levelled dornn, and the [alpighian layer soon presents itself with a delicate membrane, 3 described. In this breaking away of the crust accident cannet e excluded, but more is mrobably due to the rising up of new pithelium from beneath, by which the brittle and mostly effete lass above is pushed from its stool. Probably something of lis sort happens when scarlet fever patients and snakes shed eir skin.'
9. Furred or encrusted, becoming denuded: generally-dry.
ysentery, abscess of liver..

|  | Cancer of pancreas, etc. Peritonitis, fæcal extravesa- |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I |  |  |  |  |  |  |
| 1 | tions |  |  |  |  |  |
| 4 | Typhoid | . $\therefore$ |  |  |  |  |
| 1 | Pyæmia |  |  |  |  |  |

13
Observations relating to preceding cases.
Pyrexia (temperature $102^{\circ}$ to $104^{\circ}$ )
Hyperpyrexia (over 1049)
No observations as to temperature
Average temperature in 10 cases
Much prostration
Prostration not severe
Chiefly on liquid diet
Strictly limited to liquid diet...
No food by mouth (fed by rectum)
Saliva observed as deficient ${ }^{2}$

| $\ldots$ | $\ldots$ | 5 |
| :---: | :---: | :---: |
| $\ldots$ | $\ldots$ | 1 |
| $\ldots$ | $\ldots$ | 3 |
| $\ldots$ | $\ldots$ | $100.8^{\circ}$ |
| $\ldots$ | $\ldots$ | 7 |
| $\ldots$ | $\ldots$ | 0 |
| $\ldots$ | $\ldots$ | 9 |
| $\ldots$ | $\ldots$ | 2 |
| $\ldots$ | $\ldots$ | 0 |
| $\ldots$ | $\ldots$ | 0 |
| $\ldots$ | $\ldots$ | $2(?)$ |

Died, 10 ; recovered, 1 ; relieved, 1 ; not relieved, 1.

## Classes 10 and 11.-Bare, Red, and Dry Torgue.

 In the description of the process of deuudation I have anticited much that applies to the bare tongue. The completely bare ague, red, raw, and dry-for this state, does not seem to be atined except with dryness-is comparatively rare. The term cometely bare or denuded relates to the completeness of the loss of e epithelium in certain places, not to its spread ofer the whaleThis change is more limited in extent than the more allow direstures which have been described. I have already beed the process down to the Malpighian layer, which has come covered anew with a straight membrane instead of e normal serrated one. Should the repair be exceptionally Inting, this membrane is not formed, but the Malpighiau per is left to break away and lay bare the corium heneath. casionally it would seem that the destruction occurs after the mation of this membrane, which it involves, for the broken ls are often seen overhanging a tract of exeoriation. The ex3ure is effected not quite abruptly ; the neighbouring epithelial uctures shelve off until the patch of complete exposure is ched. Ilere no epithelium of any kind remains: the corium is 1 bare to the carity of the mouth, and is eren sometimes itself roached upen. I have not seen this process desceud quite to, ugh sometimes it lus appronched, the musculur fibres. The rosed corium sometimes slows little eliange of strueture, more en it is infiltrated with lencoeytes, sometimes to such an extent it the surface appears to be entirely composed of them. There lso injection of the blood-ressels. The infiltration is probably lerally due to irritation hy the unceustomed contact of the tents of the mouth, and is subsequent, not antecedent, to the
of covering. Even in scarlatina, where the inflammatory dation may possibly be a part of the eruption, the enucleation Teater in the exposed parts than elsewhere.
or clinieal purposes I shall place together two classes that not he always distinguished exeent with the miernscope, and a common consideration to the red denuded tungue, whether
absolutely bare, or protected only by the thin membrane which has been described.

The qualities of redness, smoothness, and dryness are nearly related. If the tongue be uncorered with the opaque superficial epithelium it will necessarily display the vascularity of the deeper parts; and this is usually increased because the tongue is irritated by exposure. The denuded tongue is dry partly because the loss of epithelial protection allows of increased eraporation from its surface, but chiefly from want of saliva. Want of saliva may enerust the tongue; it may also make it bare: of this more anon. This variety of tongue is that on which aphthous growths are most apt to occur. It presents itself in diverse circumstances, generally of exhaustion. The most prominent fact is its occurrence as the result of exhaustive discharges, especially of pus, and it is linked with the constitutional state described as hectic. The table shows that of thirty cases seven were connected with an astensible escape of pus, including one case of lumbar abscess, one of empyema, two of discharge of pus with the urine, one dysentery with open hepatic abscess, and two of advanced phthisis with much expectoration and diarrhoea. Besides these, in which loss of pus was obvious, there was one instance of profuse dysenteric flux in which an abscess had formed in the liver but not found exit; two cases of lardaceous disease with the customary discharges, and five of advanced diabetes, breught to fifteen, of thirty, the number of instances in which this state of tongue was associated with exhausting discharges. The frequency of diarrhca deserves remark. It has not been shown so far that simple diarrhoea causes it, but diarrhoa was prominent with other morbid conditions, notably dysentery and phthisis. The most striking tongue of this kind which I ever saw (it was as red and almost as smooth as sealing-wax) was in the case already referred to of acute dysentery, with unopened hepatic abscess. I have to thank Sir Joseph Fayrer for giving me some of his Indian experience, with regard more especially to tropical diarrhoea. In advanced cases of this, the tongue, he says, is shrunken, red, polished, and smooth; the papillæ have disappeared, and the epithelium is stripped off in patches. The gums, lips, and buceal mucous membrane are often aphthous. The tongue is very tender; alcohol or salt causes great pain in passing over it. As significant signs of convalescence, Sir Joseph notices a softening of the tongue, a change of the red to pink, less of tenderness, and the reappearance of the papillæ.

There remain cases in which the red, dry, smooth tongue has presented itself without any obvious association with discharge. Among them were five of pneumonia, all with much depression; one was double, and attended with maniacal delirium ; one was complicated with delirium tremens; another was in a drunkard: two were attended with great prostration (not explained). There were two cases of typhoid, of which one was characterised by sleeplessness and nervous agitation: one of tubercular peritonitis, one of biliary colic, and one of a dangerous gerge of grapes,-all these conditions being attended with much depression. Advanced tubercular disease presents itself as a not infrequent associate of this tongue: there were five cases of this sort in the thirty. Pyrexia is not needful to the prodnetion of this tongue, though often present. A temperature not above normal was found with it in cases of lumbar ahscess, pyelitis, lardaceous disease, several of diabetes, and some under dry diet. As compared with the encrusted tongue, there is no great difference in the frequency of pyrexia; both may occur without it; the average temperature of the bare tongue is somewhat lower than that of the encrusted.

To sim up the circumstances of the red. smooth, dry tongue, they are usually more chronic than those of the encrusted. This must be so, since the one is often a later stage of the other. Exhaustion by diseharge is frequent with the smooth tongue; or, if this be absent, there are generally especial circumstances of prostration or depression, which are often connected with the abdominal organs. This tongne implies failing nutrition. The clinical evidence aceords with the indications of pathelogy in this respect. The saliva is, I believe, always defecient, thoughI think it is not usually so completely absent as with the encrusted tongue. It will presently appear that in certain circumstanees mant of saliva prevents the growth of epithelinm; though this failure of growth may also laveits connection with o more general impairment of the mutritive process. Increased moisture of the tongue is a sign of the best omen; this is ususlly followed by re-covering, and possibly by recorery.

The prognosis with this tongue is bad: of the tlirty cases in
which it was recorded, sixteen endedfutally. The mind commonly remains clear, though the patient may he weak nito denth. 10 ami 11. I'are, Sinooth, Dry, Red (1Membrane or Nime Ficident).
lmemmonia Broncho + pueumonia (also nfter retovery
Phthisis or general tuberculosis, of of jeritoncum Hepatie'ascites and dry diet Attack of gall-stones ... ... lardaceons diserse, ascites. ete. 1 ... ... ... ... ane $_{2}$ Hysentery and alscess of liver


Diabetes, advañeed
Typhoid.
l'yamia ... ... ... ... ..... 1 Lumbar abscess, diseharging Pus in urine (abdominal
 Tubercular pyelitis, pus in
urine
and
$\ldots$ $\begin{array}{llll}\text { urine } \\ \text { Enprema, diselarging } & \ldots . .1 & 1\end{array}$

## Total

Obscrutions relating to the ubore Ciases. Pyrexia (temperature, $102^{\circ}$ to $104^{\circ}$ )
Hyperpyrexia (temperature over $104^{\circ}$ ). No observationa as to temperature

Huch prostration
Prostratiou not severe
Strictly limited to liquid diet...
Saliva abnormally deficient
Died, 16 ; recovered, $6 ;$ relievel, 7 ; not relieyed, " 1 .

Class 13.-Cyanosis or Tenous Congestion of the Tongue.
This torghe is characterised mainly by a superabundance of recent or deep epitbeliun. which occurs in circumstanees indientive of excessive production, not deticient removal. It especially helengs to heart disease or cynnosis from some other cause... To the naked eye there is a bluish or purple colour, and a smooth, wet, slippery surface like that of an eel, upon which the papilhe are almost indistinguishable, as if fused together, or in some other way deprived of their separating intervals. Upon this subotratum may be overlaid more or less of one of the grades of coat which has been aseribed to the partial obscuring of the deeper claracters. Microscopically, the most noticeable peculiarities are suiperabundance of the reeent epithelium, vaseular injection, and hypernucleation. The deepl epithelinm is amassed thickly orer thie surfuce, sometimes rising to the tops of the papille, bit leaving these exposed, sometimes overlaying them completely, so that the whole papilary structure is embedded. The Malpighian layer shares - in the overgrowth. The horny epithelium is usually deficient, as also are superlicial vegetations, so that thre surface is often abnormally clean and smoath. The corium and deeper parts are enormously over-injected and over-mucleated, and the fribrous tissue of tho corium is often coarse aud hypertropbied. The appeurancez presented suggest the means by which they; are proluced. In the excess of deep epithelium nad of nucleation we see eridence of increased growth, while the generally clean surfree shows that wear is not wanting. The essentinl factor is a. hypertrophic process connected with meelanical congestion. The thick eovering of the tongue with ep ithelium of the deep character, is, not confined to heart dipease or cyanosis, My claseification whs hased on what can be surely recognised with the nabed.age. Mand microweopic examination been the criterion, a separate class-must have been mule characterised by exeefse of epitheliun of this sort. But this peculiarity is not onvious. The horny or superticiul epithelium when wet is white nul comspicnons: the decperpithelium is ueither: Its presence in excass may tre inferred from the nipearance of epanosis, and guessedat from smiue dagrew of paleness aml fulness. such a tongue may be thiokly coveret witle stpericiut "rithelinm, by which the deeper clinractert may lus hiflen. Tuking us the stiminril great excess of riep epithelium as divilnyed after denth by the microscope, I find that of nineteen casts four were eomureted with oyanosis (cardine or pulnopary), six with chronic allonuinuria, two with acute tubrenlocis, two with psemia, and one cach of the follow-ing-pummonia, liphtheris, perityphlitis, lumbar abseess, and feurocythemia. Thus wr see tbis form of epithelial hypertrophy in circumstancea of three kinds-venous confestion, alluminuria, om disemes attended with derrexia. Th take the last first, no details of temperature nre nedidul when oner the disorders have meen named. Tha overgrowth was no donbt a direct result of the increase of hody heat on principles which have been stated. No fyrther refesence need be made to the congestion of eyanosis; but

I must halt for a moment upon the question of albuminuria, I Have sections of eight tongues from cases of chronio renal disease, inostly the granular kidney; in six there was such accumulation as has heen deseribed; in two there was less, but enough to show the tendency. Why in these cases should the epithelium grow in suoh profusion? Not, from pyrexin, for there usually was none: not from venous congestion, of which there was generally no signo. Whas the hypertroyhic process duc to the increased arterial tension so constant in the circumstanceis? If this be so, we ahould fivd hypertroply of epithelium elsewhere. The renson may admit of doubt; but 1 think none need apply to the observation that in chronic albuminuria certain parts of the lingual epithelium are remarkably increased.
I have now concluded the separate consideration of each variety of tongue. I ahall proceed to make a few observations relating to some general conditions which belong to it or affect it, and while I do so I must ask the College to tolerate a certain amount of repetition which it will not be possible to avoid.
Having regard to the importance of dryness as necessary to some of the mast significant alterations of the tongue' and its value per se as a clinical indication, I shall take this quality into conisideration, abstracted, as far as may be, from others. Beforo doing so I slaall venture to delay the College with a few obserisations upon the saliva.

## On the Salica.

Iam satisfied that of all the immediate causes which make the tongue dry, or tend to do so, arrest in the secretion of saliva is the most important. 1 n adrancéd conditions of dryness, not only is saliva obviously absent from the tongue and mouth, but the patient cannot spit... When the, dryness is less complete $e_{\text {; }}$ he will sometimes produce with difficulty a little spittle, which is often tenacious or bloodstained. Frequently, in the absence of saliva, sueh paticnts will, on the request to produce it, hawk up a little mucus from the throat, whieh is elearly a different thing: "I hare made many experiments upon the salivary ducts-or rather, ) should say, upon thase of the parotid, which lend themselves most readily to the purpase. A tube passed into one of these channels in health could generally be made to drip aaliva somewhat abundantly by the application of acetic.acid to the tongue, or the secrefion could be seen working its way out by the side of the tube. When the tongue wras dry it was usually impossible to obtain any by such means. With advanced and complete dryness 1 have never been able to get a drop; with lésser degreés often a hittle. These observations show the dryness to be; as a mule, due to deficient secretion of saliva, not to its drying on the tongue, as has been supposed by some. This failure of secretion appeare to be of much significance. It is not possible thas to gange any other of the secretions which are concerned in the digestive process; but it is, at least, probable that the gastric and others may be similarly affected., It is a matter of immemorial experienc that the dry tongue, more particularly that which is aleo en crusted, is incompatibie wat stimulants. This anci pht practice
physician orders liquids and stion physicion orders liquids and stimulants. This ancient practice a longet rond-experience. We may be sure that there is natira truth at its foundation, though we may not know what that truth is. l'rovisionally we may assume that a deficiency of 'saliva, if it depend on other than loeal causes, goes with a deficieney of other juices concerned in digestion. ${ }^{1 / 4}$ At the same time it would seem that other secretions-those, for example, of the lowel, the inteftines, and the skin-do not take part in any failure of speretion which may' he supposed to exist. Puitting aside cases where an excess of some secretion, ns with diarrhoen or diahetes, hans contrbutory the the dryness,
where, toget her with a dry tongue, the urine is fairiy ahundant. the bowels free, and the secretion of the skin not wanting or even excessive. If, therefore, it he presumed that the failure of the salivury secretion is associated with a similar failure elaewhern it is clear that the arrest is limitel, not common to all the gla of the borly.
1 may aild a few words upon the action of saliva upon the cost of the tongue; we lave seen that, us a neneral rule, us the congul breomes more and more coited, especially with acute diseren, il gets drier and Irier. This association of want of saliva with inereusing cont suggiests the questiun whet her tho secretion has and sul vent action on the cont, so that this thickens from the alisele
of yommal solution: This must bo nuswered in the negative. haretaken coated tongues and kept similar pieces. of them, one in saliva and one in water, for periods ranging up' to sixty-reig
ours. Then, making sections of each in the usunl way, 1 have atistied myself that there was no grcater loss of cpithelium in aliva than in water, and the same result has been given when he experiment was canducted at a tempcrature of $100^{\circ} \mathrm{F}$, as at he ordinafy temperature of a roem. Whatever effect, therefore, ito be at tributed to want of saliva, it is not by less of any solent action.
Other causes have been shown to' conspire to make the tongue onterl, but it would seem that want of saliva by itself will do nis. A boy was brought under the care of my colleague, Mr. ouse, with, as was believed, a fracture of the base of the skull. le had left facial paralysis, and an injury apparently of the hords tympani on this side. The tongue was normallys protruded, ut the left half, sharply defined by the median line, was dry and
resented a milky appearance. The suppression of saliva was resented a milky appearance. The suppression of saliva was rebably the eause of the coat, theugh other effects of nerve , jury could not in this case be absolutely excluded. ${ }^{3}$ I will ike a simpler case reperted by Mr. St. Clair. Buxtou. A lady had lumps, after which her meutl becane quite dry. The tongue, ums, cheeks, palate, and'pharynx presented a "fearfully dried p state." The tongue was thickly coated with a tonglr, brown
ir , which was horn-like and so hard that it sounded under a ir, which was horn-like and so hard that it sounded under a
low like the cever of a bouk. After ineffectual treatment by her means, the salivary ducts were probed, the glands gal raised, and the secretion restored. In the eourse of the following ay, Mr. Buxton tells me, in a letter for which 1 have to thank im, the fur heeame soft and spengy, theugh it had previeusly cen as hard and dry as wood; in a week ali had cleared off, and a fortnight or three weeks the tongue was perfectly normal. he fur stripped off in pateles, leaving a rather raw surface unerneath, which gradnally assumed a natural appearance. It has een shown haw closely the eonditions of furring and encrustaonl are. associated with deficiency of saliva, and inferred that icse are largely the physical results of the ensuing dryness; the ormally wet surface is soft and liahle to wear; deprive it of $10 i s t u r e$, and it becomes horny and resistant of it ; besides whicl,
ith no siliva solid food in ith no saliva solid food is nuacceptable. So that while indura-
on is created attrition is reduced; and in general terms, and an is created attrition is reduced; and in general terms, and
p to a certain point, it loods grod that the less saliva the more pat.
But there is another relation between the secretion and the vering, and that of an opposite kind. An interesting ease of
sting suppression of saliva Wis pullishecl by Mr. Rewlands, of sting suppression of saliva wias pullished by Mr. Rewlands, of
reat Crosby, and 1 have to thank tter. Ten years before the date of the report, a lady, aged 6y, aderwent suiden and complete suppression of the saliva, after a ervons shock. Since this the mouth and tongne lave been perctly dry. The tongue now presents the appearance of a piece of ry raw beef; it is perfectly clean. and intercepted with supercial fissures; no papille are to be seen witl the nalsed eye, lough to be made out with a lenas Ilere is a typical red dry, neoth tongue, sequent, and probably consequent, uponsimple deaiency of saliva. It is scarcely neeessary to revert to the red nooth tongne of disease, of which deficieney of saliva has en shern' to be a censtant, if not a necessary, attendant. These perinnes, showing coating and denudation from the same cause. Int so couitrary ns at first sight appears, for many smooth ugues 'were forpucrly reugh. The difference is margely one of me: furring and cncrustation are early results of want of saliva, mudation a late result: It has been shown that with the bare ugue of constitutioual disense two agents are commonly prent, want of saliva, and failure of general nutrition; but tlait unt of saliva by itself is able to cause bareness is shown by such ses as that reperted hy Mr. Rowlands. Of the modus operandi I 18 long in doubt. The epithelinm is fed by the blood, not by the iiva. Why does it waste in the absence of the non-nutritive id ? Conversation with my colleague Mr. Bemnett has, It think, ven the clue. The epithelium, though not nourished by the liva, needs to be kept moist by it, otherwise it eannot assimilate
nat is provided lyy the blood. Be this as it rasy, a general law
ty he formulated the tool ay be formulated; the tongue tends to beconse smooth whenever a long time it is kept dry frem deficiency of saliva, or phosibly m other eauses.

[^54]Hrs. Floma Sohlama, of New York, aged 102 , is said to have put 120 descendants. Her great-graudfuther lived to be 120 .

## THE PATHOLOGY OF ABORTION IN REIATKON

## TO 'TREATMENT?

MM MLTRDOCH CAMERON, M.D.,<br>Physician Accouchenr to the Glascow Western Infirmary ; Aseistant to the P rofemor of Midwifery, Glioggow LDiversity.

IT is not my intention to enter fully into the wide and complieated field of stndy ns found in pathology relative to abortion, but simply to bring before your notice three specimens, whiel may interest as well as show the importance of a careful examination of the discharged elots in every case of abortion. I am afraid it is too much the custom to take the patient's description of the nature of the discharge, which is generally summed up as ""a bleeding," or a " something that has come"a atray:"
Now, looking at the first two specimens, we see at a glance that there is a great difference in their appearance, and it is in being able to appreciate the reason for this that the accoucheur can earry out the proper treatment, and be alive to the dangers which may attend the one case rather than the other. Of course, in the early stage of abortion, say at the first month, there is the absence of the usnal signs of 1 regming to guide us, and wome ${ }^{n}$ them:


Fig. 2--Limbryo. sixth week. A. villi of chorion ; 23. ümbil.al vesicle with portion of ammion to the left.
sel ves frequenty look ujon the discharge simply as a periont. If The ovmu be discovered, it is frum to be rery small. In the second month, lowerer, the alsence of the last, p.riod, as well as the elarueter of the pains, generally makes the patient suspect preguanex.
If the diselarged elots are earefully examinol, the eenbryo wid usually be found surrounded hy its membraues, the anfion and chorinin with its rilli, some of which are found prenetrating the decidua reflexa. This is well seen in Specinen I , in whish a separation las been effected at the circular zone, marking the junction of the membranes of the orum with those of the nterus, which, instend of following the omnu in its passinge, remain attaehed to the uterus. You see the appearance of the discharged nyum is that of an oroid mass, tbe surface sumoth sud rose culoured, unless where the villi are exposel. These in the specimen are semn floating in the fluid. lu incision in the wall has

[^55]cut successively the decidua, the chorion with its villi, and the amnion, thus allowing a full viow of the carity with the suspended embryo. At times the decidua gets divided, and so allows the enucleated ovum to escape, whenit is seen entirely surrounded by the villi, which givo it a shagey appearance. This is very well seen in Specimen 11. In such cases patients require more attention than in the preceding one, as the danger from hemorrhage or septicemia has to be gharded agninst if the membranes do not come away
In this specimen the chorion was carefully divided, and the umbilical resicle discovered. It is marised $n$ on the card. A portion of the chorion and amnion was removed to obtain a clear view of the embryo, which is about the sixth week.
There is a popular idea that prostitutes are less subject to pregnancy than other women, but 11 . Serres haa remarked that when they were cared for in a division of La l'itis, the excessive losses were as rare as in others, but the periods were sometimes delayed, and ended by the expulsion of what they called "un bouchon." He gave no heed at first to the expression, but having directed his attention to embryology, it was. easy for him to detect in this discharge a portion having all the characters of the human embryo, and he was able to collect a large number in a short time, which had been expelled at the fourth or fifth week from girls 18 to 20 years of age.

In the third specimen which I show you, the orum was expelled covered by the decidu: vera and reflexa, which are still separate from each other. Several changes may be produced by any effusion of blond, and the appearance of the orums is oftenivery much modified. lut this depends on the stage of development. Almost till the end of the second month the blood which escapes tends to surround the chorion. If is ressel in these circumstances ruptures, the blood will insinu ate itself bet ween the villi, an'l gradually invade the whole Eurface of the chorion. Tho orum takes then a fleshy appearance. If the outside membrane is removed the chorion is found corered with coagulated blood, which is firmly retained by the ramifications of the villi which are in prisoned in its thickness. In this third specimen blecding has occurred; but, as you will notice, it has been limited to one particular spot in the decidua reflexa, and forms a solid awelling, about th:e size of a nut, which has been incised at the point a to reveal the clot. It is difficult to explain in these cases the reason why the decidua vera is at times thrown off, as in this case, whilst in normal pregnancy it remains adherent to the uterine wall nearly till term,

Concerning the complications which might arise in such cases, those from hemorrhage and septicemia, or both comlined, are the most common. The bleeding may be moderate in a large number of cases, yet at times it may he very alarming. This bleeding may be met with either at the outset, when the cmbryo is separating, or after it has heen expelled, and the membranes yet remain within the cavity of the uterus, or even after complete delivers. The bleeding may be continious or intermittent, even with clays between the attacks. Sometimes the discharge arrested in tho passage beemmes elotted, and is expelled in a mass, which the passage becomes clottcd, and is apt to mistake for the contents of the womb, unless he takes care to examine for the embryo and membranes.


Fig. 1.-Embryo, elght weeks. Portion of membranes removed, A. Amniotic cavity ; y. decidua; $c$. villi of chorion; D. embryo.

Usually the bleeding ceases with the discharge of the embryo and membranes or placenta.
Shonk it continue it is likely that there is a portion retained within the cavity., If a small portion of the placenta remains adherent, the bleeding may continuo for weeks.
If the odour of the lochia becomes foetid, we should be- on our guard against septicrmia. Tlie odour is very persistent, and the finger with which the patient las been examined retains the taint, in qpite of repeated washings and scrubbings with a nailhrush.
The treatment adopted will determine the result for better or worse.
I do not rish to speak of the preventive treatment of ahortion, but would like to say a few worls on the treatment of these complications. To avoid the manufacture of complicutions, if 1 may so speak, I would recommend that the membranes should be left intact, and encouragement given to complete expulsion. If the membranes are ruptured, one should, not be in a hurry during the earlier periods of pregnancy, but should pay special [attention to the cleanliness and antiseptic condition of the passages,
by making use of repeated in- jections.

Should the placenta be retained, I have seldom had much difficulty in extracting it with the fingers, and must say I have very little faith in the use of instrumeuts for its extraction, unless when it is
found protruding through the found protruding through the
os. Some hnve recominendel the use of a blunt curctte, whilst others prefer a sharp one, with which they profess to remove the debris of the membranes. $\ln ^{*}$ addition to this, they either dilate the as to allow of such an operation, or they drag the uterus down by means of forceps. Now is such treatment reasonable in
all cases!? Is retention of thic placenta so common and sc frequently dangerous as ict justify a procedure which is istelf not without danger te
thepatient? I emphatically say No, and, nfter a very large ex. No, and, ntter a very larke ch.
perimce, have no hesitation ir condemning such practice Why, in one case, after thr uterus had been scraped, caur terisel, and injected, to the suryrise and chagrin of the operator there was expellee the next day an embryo minus the legs. Besides, witl the curette you are workins in the dark, and cannot fail th wound the healthy memblrane and so assist septiciemia instear of preventing it.
If membranes nlone hav been retained, with proper antiseptic precautions there is littl chance of evil resulting. Besides, wheu one considers the amoun of injury that an inexperienced person can inflict with a aterin sound, we should surely pause before placing in the lands o every practitioner a curettc. be it sharp, or blunt, with the nesur ance "This is the real cure, use it."
In treating the hemorrhage I generally make inse of an anti septic tampon, with the application of a well-fitting firm handog! and usually find such means sufficient. I cannot say that I hav got good results from ergot. Where spasm or rigidity of the C uteri is the opposing canse of the escape of the placenta, I hay frequently had good results from the alministration of opium i the form of a two-grain pill.
Whenever a finger can be passed within tho uterus, hy fixin the fundus with the free hand little difficulty is experienced i extracting the portions retained. If there should exist any sym ptom of septic poisoning when the patient is aeen for the fir
time, I always make use of frequent antiscptic injections, say, every two hours,

Coucerning medicinal treatment, I may say that quinine is freely given, and sometimes along with it salicylate of soda. Where everything has been discharged, and blpeding continues, very satisfactory results have been obtained by the administration of tincture of steel and ergot.

In conclusion, patience, l consider in snch cases, will do less harm than meddlesome interference.

Dr. LOMBE ATrínll confined his remarks to the trentment of cases in which abortion could not be arerted. In such, if the hamorrhage were alarming, plugging was the most certain mode of controlling it, but if used it was essential that the plugs shonld beremoved after the lapse of, at most, six hours, when the uterus should be washed out with an antiseptic solution. But it was very seldom necessary to jlug. He adrocated treating such cases by washing out the uterus with a stream of hot water, a method which, if carefully carried out, was perfectly safe and nearly always efficient, the contents of the uterus being in the majority of cases soon exvelled. He also expressed his disapprobation of the forcible removal of placenta in the earlier montlis of pregnancy till time was giren to show whether it would not be cast off and expelled.-Dr. J. A. Byane said he was of opinion that, as a rule, the hæmorrhage accompanying, or precerling, or following abortion was not dangerous and did not terminate fatally; but still cases had been mentioned where death. from that canse had occurred, so that we should be always ready to stop it if events called for interference. He agreed with Dr. Attbill that the washing out of the uterus with hot water was a most useful adjunct in this form of hamorrhage. We must also attach great importance to the use of the laminaria digitata, and Dr. Robert Barnes's dilators and rapid dilatation if necessary, and if possible the removal of the ovum. He night mention that he was one of the first to draw attention to the difficulty in some cases of removing the placenta at an early period of gestation. Before the transformation of the chorionic stmetures and the formation of the placenta
 ing clot: B. amniotic cavity; c. space between tho deciflua sem and reffexa; n. decidua vera. there was not much difliculty in removal or expulsion, but about the fourth month the placenta was intimately soldered to the uterns. What first attracted his attention to this was a caso in which a lady being almost moribund from hamorrhage he procceded to remove the placenta with his fingers; he did succeed after some time, but he was so much struck by the dense attachment of the placenta hat he determined never again to attempt the removal, but to ry to atop the hrmorrhage and allow separation and expulsion. He had lately seen a case in which fatal tetanus supervened upon an abortion.-Dr. Aust Lawnesce stated that wheu the hemorrhage ras excessive be almays plugged the cervix uteri with carholised int, and then, when the os was dilated, he cleared out the conents of the nterus with his fingers. If the contents could not be leared out he passed into the uterus an iorloform hourie and lugged with ioloform wool, and then in twenty-four hours he ould clear the uterns, and if he conkl not do so the repeated the
process-Mr. Lawson TaIT was of opinion that anyone who knowingly left a piece of placenta after a miscarriage might well lay himself open to a charge of gross careles ness. There was nu need of any dilatation or of the use of auy slarp curette. Ilis ithe speaker"s) "alligator" ovam forceps would remove anything which had been left withont any risk.-Dr. MLRPHY (Sunderland) said that had he not hearl the two distinguished members of the Dublin Ohstetrical Sclool who bad preceded him advocate its use, he would hare beliered that speaking of the vasinal tampon as in nse in the gear 1887 was an anachronism ; surely the place to plug Was not the vacina, but the cervix, and the material not cotton wool-antiseptic or otherwise-but the caontchouc hydrostatic liggs of Robert Barnes if the cervix was large enough; if not, the instrument used by Professor Tarnier. On the question of treatment of the retained placenta was not Dr. Lombe Atthill. in adrocuting expectancy solely, relying on his experience as Jlaster of the Rotunda llospital, where he or an assistant Master was always
on the premises ready for any emergency that migbt arise? But how ahout his private patients, or those he saw in consulation at a considerable distance? Was it safe, however, in the one case or the other to leave a placenta in situ, and expose the patient to the risk of hiemorrhage and septictemia? For bis own part, he would not feel justified in doing so. and he invariably removed the placenta, the patient being chloroformed, and a hand introduced into the vagina and one or two fingers-the best instrument we possessed-into the uterns. There was no doubt. however, that for the operator it was a difticult, tedious, and even painful operation. and one to which no one conld lonk forward with pleasure.

> Aston Mavor (Population. (63,637).-This district is fortunatein having a vert low deathrate, considering the densiry and the social position of the bull of its inhabitants. The average for the last swreu years is 15.8 jer 1.t.0. There were in 1s-\%. 0155 deaths registered. a rate of 15 jer l. (kns. which was 2.8 lower than in 18, 6, lut $1 . \frac{t}{2}$ per 1.900 alore the rate for 1855. Mr. Henry May .states that the deaths were increased to a large: extent by the injurious effects upon health of the very long and sceere winter, the cold wenther being prolonged funtil the end of Say, and the temperature in every one of the first five months of the year being considerably below the average. The mortality was also incrensed by tho long, hot summer, which caused a large amount of fatal illıess amongst infauts. There had been an increase in the deaths from whooping-cough, but no exceptional mortality from any epidemic outbreak. Typhoid fever was less common chan usual, only 17 cases coming under notice. . leasles and scarlatina, though somewhat prevalent, assumed so mild a form that the mortulity was slight. Tho deaths from diarrhoes were chielly among infants. Jlr. Nar confesses that the sanitary improvements of late years have fiiled to diminisli the severity of this disease, and offers the explanation "that the infants are born with more inherited debility of coustitution than formerly, and fall sooner victims to exhausting disease:" He accounts in a similar manner for the increased infent mortality from bromehitis.

A CRITIULSM OF THE MIDWIFERY FORCEPS IN GENERAL USE. ${ }^{1}$
Hy WILLIAE STEPHENSON, M.D.,
Profecsor of Midwifery in the Cintwersty of Aberdeen.
Is a fientchman, it is with some degree of diffidence that 1 venture to introdnce this subject, seefng that a Well-known unthority las stinted that " it is not to the land of the mountain and flood that wo are 10 look for opportunities of acpuiring experience in midwifery of this difticult kind; it must be in great centres of poulation-London, Manchester, Liverpool, Birminghama, Dublim." llowever, since both his geographical and historical knowJalge are at fault in making such a statement, I may take sunrage, and introtuce a subject which is of interest not only to the ohatetricians of the large centres of population, but likewise to envery somintry practitioner.
A medicnl man cannot, like a dentist, provide and carry about will hima number of forceps ingeniously modified to meet varying conditions. The necessities of practice demand that he should lave but one pair, suitable for the ordinary and easy cases, but at the eame time capable of meeting any contingency ; not cumbersume to carty about, and simple in construction, with no weak pooint, linthe to smap when severely tried. It is evident that such an instrument must belong to what we may speak of as the ordinary type of midwifery forceps, and not to the complicated and formidable looking traction forceps of recent years. Most of the forceps in general use are serviceable, but each and all have their Wrak points or defects; none can be said to combine in themselves the lust features which experience has evolved. What is required at the present time is not the invention of novelties, but the juticious combination of such chnracters in the varions instrumonls that linve commended themselves to the profession at large.

It would be $n$ matter of great importance if an Association such as this (lyy committee or otherwise) would thus arrange an instrument. which would be known as the British forceps. They could he altered, as in the course of yeurs new modifications commented themselves to the profession; and the young practitioner, when providing himself with iastruments, would be guided by the general opinion of the profession instead of that of a single person. As $a$ contribution to this end, 1 would submit the following criticism of the forceps in general use.
lmongst the many contributions to obstetrics which the authority ahove referred to has made, not the least is the introduction of un instrument which has been largely adopted. Barnes's forctps are well-known, but those who are nnfamiliar with obstetric history can but faintly realise the good serrice he has done in binghand, in combuting the Iread of a powerful instrument, and exprosing the fullacy of there being sufety in weakness.
A formidable rivel to his instrument is that of the late Sir James sinypun. No single form of forceps has, lerhaps, been more genernlly ndopted. Cnfortunately, however, they have become stereotyped, nal have undergone no modification for more than a quarter of a century. IIad he lived it mould in all probability lave been otherwise. The process of evolution is to be seen in his entirely discarding the short forceps; and, had it not been interrupterl. his lone forcens would probnbly have been made slightly longer, and, prophap, otherwise modified.
Thesur two forceps, Simpson's and Burnes's, may be taken as the typus of those in general use; and u comparison of one with the otlier will be founl to cover most of the important points to be considered. The day of short forceps has gone by, and there is a very general consensus of opinion in favour of the pelvic curve, sul that the question of "straight versus curved" need not be discuss(v).

1. The Lenyth.-As to the length of the instrument, those who have been accustomed to use Singuson's forceps will agree that they mect the requirements of the rast majority of cases, even where the head is at the brim. Dr. liarnes totally misrepresents the capabilities of the instrument when he states in his Intest work, "if one be accustomed to use a compuratively short double curvend forcens, like Simpson's, which will mostly fnil to seize the hend nt the privic brim." In his writings he has several times repeaterl

[^56]this opinion, which is at variance with that of roost men who have been in the labit of using Simpson's forceps. I have never fuiled with them to grasp the hond, even when above the brim; still I nm at one with him in regarding it as an improvement were Simpson's forceps made of equal length with those of Barnes: it, would render more eusy their application in the bigh operation and give incrense in power.
2. The Ilandles.-Less, attention has been paid to this point than its importance deserves. The value of a phir of forceps lies quite as much in the form of the handles as in that of the blades. To be reudily serviceable they shoudd properly, balance the blades in the hand; and this principle at once discards both the very short, as seen in Matthems Duncan's forceps, and the unduly long and heavy, as in the French type. The form of the handles determines not so much the amount of force that can be exerted as the conservation of the force. What is of cuportance is to avoid fitigue to the operator's muscles and the proservation of "the delicacy of diagnostic touch and the eractly balanced.control over the movements " which is lost when fatigue is produced. For this end I have no hesitation in discarding all others and giving the preference to the well-marked type of liandle fonnd in Simpson's, that properly should be called the German handle. More than any other form it lends itself to comfort ic grasping and readiness and vuriety in the mode of traction. One important characteristic is the hollowed shoulder at the hend of each handle. For facilitating traction it far surpasses the device of the ring in the shanks, as in Barnes's and other forceps. Dr. Barnes has admitted that the shoulders ansirer the' purpose better than the ring, yet strangely enough he has not indopted them.

The advisability of curring the bandles so as partly to meet the differlty of exerting traction in the proper, direction will be ruferred to further on.

The Lock.-The general conseusus of ppinion is so strong in fnyour of the Smellie or English lock, that it need not be discussed in comparison with the button nnd mortice, or the screw. The faucied gain in the Ziegler lock is delusive: if there be a difficulty in locking, the blades are not in a position for traction: if the latter are so placed that traction can be made, there will be no difficulty in locking.
4. The Parallel Shanks have now been adopted in all the best forceps. It is here that a slight addition to the leagth is required in Simpson's forceps, so as to bring the lock more external in the higher operations. If the German handle be adopted, there is no need for the semicircular bow which forms a ring with its fellow when locked.
5. The Pelvic Curve has also now been decided, and does not differ in the two types of forceps under discussion.
6. The Form of the Blades.- The objection to thin springy blades is now well understood; several specimens of the liarnes; forceps 1 have seen crr in this respect, a fault probably of the instrument maker more than the author. The actual form of the blades is to a large extent dependent npon the fenestre. One extrame is found in Taylor's narrow forceps, so made for a special purpose; the other extremo is met with in several of the Americnn fenestra is wider the of Hodge, Smith, and Wallace. In them the is preferuble. In both Simpson's aud Barnes's, the fenestrex are too narrow. An increase was first suggested to me by a pair of forceps by the lute Dr. Angus Macdonald, and since I have alopted this modification I havo been fully couscious of the improvel grasp, and greater retentive power of the blades so obtamed. Slight as the modification is, I am certain no greater improvement cquld be made on the present type of forceps.
7. Axis-traction Rods-lt is extremely doubtful, thut the profression will ever lay nside the ordinary forceps, and take to one or 'other mbdificntion of Tarnier's instrument. The latter are essentially so much more complex nud cumbersome that it would require a much greater deficiency on the part of ordinary forceps than actually exists to prodnce the revalution in general practice. Still it must been pointed that a defect in the ordinary curved instrument has Jocr pointed out. This question I have discussed at lengll in this $28 t h, 1886$, and hate shown that the defeet may
Jonal be overcome by a much simpler motliod. Increasing experien in tho use of the simple tractor, in the form of a looks, assures me that all the ndrantrige's claimed' for the eomplicated npparatus can he obtained by the simple contrivance reidily applicable to any forceps. It cnables the operator to change the direction of the forer in any way required; and tives much greater fecility in em phosing lxitls hunds at once; it likewise diminishe's the risk of
fatimue by diminisling the strain upon the hands, and is simplicity itself in construction. The same end cannot he gained by curving the handles, as proposed by Aveling and others. The object is therely attained in part only, for whilst traction can certainly be made with curyed handles more directly in the required axis, yet a change in the direction of the force can only be made by changing the hold upon the head. With the tractor, on the other hand, the direction of traction can be changed at will without clanging the grasp of the blades on the head.
The forceps which I now recommend are Simpson's, modified according to the opinions stated above, and embody such changes as we can suppose Sir James Simpson wonld himself have adopted lad he lived. The instrument is lengthened by an inch added to lie shanks, and the fenestre are incrensed in width on the convex side by a quarter of an inch. The changes appear trifling; but experience has convinced me that they materially enhance the usefulness of the instrument. With them ] wonld couple the simple forccps tractor, and, so armed, I am certain the practitioner will be able to cope with any difficult case where forceps are applicable, whilst at the same time the simplicity of the instrument is retained.

## ON THREE CASES ILLUSTRATIVE OF RENAL SURGERY. ${ }^{1}$

By KFNDAL FRANKS, F.R.C.S.I.,<br>Surgeon to the Adelaide Hospital, Dublin.

THE surgical treatment of stone in the kidney is of sneh recent Iate that I need offer no apology for bringing forward at this meeting of the British Medical Association three cases, the first in Ireland, in which operative measures have been resorted to. Taken ogether, these cuses are very instruetive, each of them presenting catures, both in regard to their history and the results of operaion, which I think are well worthy of consideration. The first
case lias already been published in the Annals of Surgery for aase las already been published in the Annals of Surgery for lanuary, 1887 . It represents a case in which a stone, which when lried weighed 171.3 grains, was readily detected both by the finger and by an exploring needle through an incision in the left loin. lusire of renal calculus, and vet the symptoms were almost coniul manipulation with the fingers and free use of exploratory punctures failed to reveal the presence of a stone. In this case he kidney was not incised. The third case was one in which exloration with the finger and exploring needle also failed to detect stone, and yet, after a free incision was made into the snhstance ff the organ, a small calculus lying in an abscess cavity was found a exist. These cases, then, are typical cases of the varying con$n$ the Lidney; and as they open up several pearch after a stone hought, I will shortly slietch the history of each.
The first case was that of a man, aged 28 , a silk weaver by trade, in whom I operated on May 6th, 1886 , for stone in the left kidney. The history of this condition dated back for about six years. Ie iad previously, enjoyed goodihealth, but had been a heavy alelrinker. In the winter of 1870-S0, during one of lis drinking ronts, he had rigors, followed by a feverish attack, and a fortnight ater suppression of urine, which lasted three days. When the rine was again secreted it was passed mixed with blood. Conurrently with the hematuria severe and paroxysmal pain came n. It begrn in the left groin and hip, and sometimes shot down ato the left testicle. Thongh varying in intensity, it was coninuous during the six years jrevious to operation. The haematuria id not entirely cease for three mouths. When admitted to hosital the urine contained pus. I had him under observation for ver six months. During this period he never passed blood, but e amount of pus was variahle, sometimes amounting to a third. he urine was always acid, though sometimes extremely fretid. he specific gravity was about 1017. The microseope revealed pus ells and crystals of uric acid, but there were no pyriform cells
nd no tube casts. On examination of the site of pain nothing nd no tube easts. On exaraination of tle site of pain nothing bnormal conld he detected but well-marked tenderness over the lat is, over the region of tho left kidney. lle conld not lie on the ght side withont increased pain. Ily colleague, Dr. Wallace eatty, who examinel the case with great care, concurred entirely
${ }^{2}$ Real in the Section of Surgery at the Annual Mevting of the British edical Association, held in Dublin, August, 1887.
in the riew I took of it, and accordingly I operated in the usual way, choosing the lumbar incision. When the kidney was reached a hard mass conld be felt in the pelvis, and an exploratory puncture with a long needle showed that this was a calculus. It was about two inches in length, and completely filled the pelvis. "An incision two inches long was made throngh the substance of the kidney down to the stone. The hæmorrhage at first was very brisk, but a finger passed throngh the wound served as a plug, and it quickly became checked. The stone was friable and chalky, but was so firmly embedded in the pel ris that it had to be crushed with a forceps and remored piecemeal. Part was hooked out with the finger and part with the assistance of a lithotomy scoop. The debris were washed out by means of irrigation. A drainage-tube Was placed external to the kidney and bronght out at the lower angle of the wound. The incised parts bealed by first intention, excepting along the track of the drainace-tube, which was not finally elosed till between the fourth and fifth week. After operation he was able to lie on the right side, and since he left hospital has been able to resume his work, which he had been obliged to give up entirely. He is now in good health, although the urine still contains a small amount of pus.

The second case was that of a farmer, aged 40 , on whom I operated on February 24th, 1887. His renal history dated back to an accident he met witl in August, 1885. A horse kicked him in the right groin; he fell backwards, striking his left side and back against a heap of stones on the road. He was stunned for a few minutes, bnt, on recovering, he experienced a sharp pain over the two last ribs on the left side. About a week later he noticed that the act of micturition caused him pain, which was most acute at the glans penis. It was increased in frequency, and was often followed immediately by the passage of a few drops of blood. These symptoms lasted for a fort night, and then he was more or less free from them till September, 1885 , when the hard work of the harvest brought them all back again. They continued withont improvement till he came under my care. Ile then complained of pain over the left kidney, of a dull aching eharacter, and continnous. It was increased by lying on his back or on his left side, or by exertion. It shot down into the left groin and into the penis, especially if he experienced a jolt. There was tenderness on pressure over the region of the left kidney. The urine was pale in colour and cloudr; it contained a small quantity of pus, and oceasionally a little blood; it was acid, with a specific gravity of 1020 ; the microscope slowed some renal cells, but, no tute casts.

As some of the symptoms pointed to the possibility of a vesical calculus, he was sounded twice for stone, the second time under chloroform, but nothing abnormal could be felt except an increased rigosity of the lining membrane of the bladder. I therefore made an exploratory lumbar ineision, and exposed the left kidney. I pressed it carefully all over between my fingers, but beyond an apparently thickened condition of the pelvis, I was unable to detect the presence of any stone. The kidney was then punctured systematically with a long needle, but nothing was found. I accordingly closed the wound, which healed rapidly, union being complete in a week, and he was then allowed to return home. Sir weeks later I heard that he had returned to the country in "fairly good spirits and health, and that he lrad not much urinary trouble." But at the end of this period he got a chill from exposure, with high fever, rapid pulse, and he soon became delirious; but during the attack the urinary symptoms were not aggravated. He died on Apri] 15th, the gentleman who attended him not having been able to arrive at a diagnosis as to the cause of death. It does not howerer appear to have been in any way connected with the renal trouble or witl the exploratory operation. I should adul that the pain in the sile was materinlly improved by the operation, $n o$ doubt the result of the division of some of the nerves.
Though operation in this case failed to detect the stone, as lans happened in many other cases, I have not hesitated to communicate it, as it forms a strong contrast with the third case, in which similar difficulties were encountered. This was the case of a married woman, aged 34 , who was admitted to the Adelaide Ilospital on February 16th, 1887. In 1869 sle suffered for about a Jear from anmmia, but subsequently she enjoyed good health up io January, 1885. In the meantime she had married and had become the mother of four elildiren. She became pregnant for the fiftr and last time in May of that year. In the preeeding January (that is, J885), she hegan to suffer from a burning pain, not very severe in the ryion of the riglit kidney. It was accompanied by:

1 profuse dfarphen, Ut the mill of threodays she was veized with
ligevery stubling pain in thersames fituntion, almost causing, her in

- faint. isimilar patoxyme arentrel sulsecpuatly, while in the in-
"tefals betrean these parnxysms the hurning, pain continued.
1 All the se Eymptons trere aggravarad during tho montirs of preg-
nanes" Which temminated peninturely at the eighth month in the biplli of a stillbarn child. 'This whis in December, 1885. Immediately ufter thit ocenrence khe exprimeed an vew pain in the rifhtesild of the iabdonen of a guiving character. Sue referred
1 thas on whil about midway hetmen the anterior superior ilite spine and the umbilicus of therightitside. These:symptonus were preseut when she was admitted to hogital. "Daring her atay in henpital yrevious to operation'she had frequent attacks of the paronysmat pain, heginning at the back fover the right rennl reglon," and whoting throngh to the front under the right costal arch:" as though a needle irere being driven through from bepassery dows pain radiated acress the abdomen, and more lataly paissery lawn to the hip, somelimes postoriorly, sometimas io front and down to the inside of the titigh. When an attack came on was always accompanied by natisea and by vomiting if she had takerj food shortly before. Sinco her last confinement menstrua"tiom hat taken place fortnightly, lasting for eight days, and during these periods the pain in the abdomen was aggravated. an examination it was found that tenderness on pressure was markell in the back over the two last ribs and below them, but nowhere else in the neighbourhood. Anteriorly, where she complained of the abdeminal pain, $A$ 'swelling with ita, long axis vertical would be felt, tender to the touch and scarcely movable. It was difficilt to determine what this thmour was; it felt in shape liko a kidney, but it felt longer and occupied a distinctly lower poaition thian that of the normal organ. The inereased pain Inrind the menstrual periods gave rise to the idea that it might The a diseased criury The ninie, which was frequently axa same charactera. It was heid, of normal specific gravity, and coutained $\because$ no albumen, pus, or blood: but after standing a short time a well-marked deposit of malate of lime was invariably seen. Under the microscope mumberless erystals were found, mostly octahedra, but sometimes ovoids and dumb-bells Occasionally a deposit of amorphous lithates was thrown down. In addition to thege might be seen vaginal epithelium and a few cills resembling pus corpuscles.

Dr. Wallace Beatty, who took a very great interest in the case, and who rendered me much raluable assistance, considered that it was case in which operative measures ahould be adopted; and this viets was also held by my other colleagues: Accordingly performed the operation of mephrolithotomy on April 5 th, 1887 the muscular larers had been divided, I found the lumbar apo neurdsis was adherent to the peri-renal fat, and that it'required some: troble and patience to clear the anterior surface of the kidney. The posterior surface was readily freed. The first thing which attracted special notice was a depression about the centre of the convex border of the kidney, which presented the appearance of a stellate cicatrix, but beyond a slight thickening of the renal silistance heneath it, nothing could be felt to account for and was decidedy longer than the normal, and I have no doubt but that this was the swelling which was felt:through the abAlminal twall previous to operation. There was absolutely nothing to be felt nf andabormal kind in the renal pelvis. As 1 could "asily drasy enels part of the kidney in turns up to the lumbar incision, J carefully passed eaoh 'portion through my fingers, but 1 condd detect no hardness or inequality to guide me as to the maition of a caleulus. 'J Exploratory punctures made seriatim mevery direction likewise failed to give any clue. Under thesp circursatances I determinerl to make the exploration complete by incising into the kidnay sulstance, as otherwise the only alternatives left to $n s$ would have been either to leave hor unrelieved, or began Mo, as Mr. Morris has donf, an atherwise healthy organ. began liy making in ineision about an inch and a half loug, with margin. The hemarrhage at first wras very brisk and toot some time and jressure to arrest. This 'incision reached down to thio pelvin: With my finger passed into it, 1 felt about in all direotions, but without suecess. J then got a probe-pointed and gronved director, and passing it into the wound in the kidney, explored in several directions. Suddenly it alipped upwards
into what isas evidently a small abscess chvity, and some pas came along the groove of the director, iA amall culculus, about the size of a peat, was distinctly felt lying in tho crvity. I now passed a knife along the groove, and by means of an extension of the wound upwards for sbout an inch, 1 laid the abscess eavity freely open. The amount of pus contained in it was about half a drachm. The wound now bled freety, and as prossure seemed to have little: effect, 1 irrigaterl it with meak corroslve sublimate solution, which in a few minutes controlled it to a great extent. Unfortunately, the fluid washerd out the stone, and before 1 could examise the returned fluid it had been thrown out. Hnwever, wo succeeded in finding two or three very hine spicule. As the oozing from the kidney substance was still free, I thought it best to plug the remal wound dightly with a piece of antiseptic gauze wrung out in weak earbolic solution, the end of the gauze being brought out at the angle of the skin wound beside the drainage tube. The parta were sutured in successive layers, and the wound dressed with ganze and a turf mould pad. For two days after the operation the patient auffered from inceasant vomiting, which nothing seemed to check. She was nourished entirely by nutrient enemata. She had had no return of the spasmodic pain-that is, the renal colic, but the prostration from the vomiting caused me some uneasiness. On the morning of the third day, having tried every medicinal expedient I could devise, it occurred to me that the vomiting might be reflex from the kidney, and might be duc to the plug which. 1 had put in to stop the bleeding, much in the same way as nausea is so generally an accompaniment of rena with the happy result that romiting only occurred once subse quently. From this time she made rapid progress. The wound re mained aseptic throughout, and healed by first intention. The urine continued to flow along the track of the drainage-tube for four reeks, and a fortnight later the patient returned to her home in Holyhead. She completely got rid of the pain in the back and abdomen, and lad no return of it when last I heard o her. I believe she is now in perfect health. When she left hos pital she had regained flesh and colour, and looked a different woman.
This case is interesting in many ways, and 1 think it is one als of considerable importance. When Mr. Menry Morris exeised on otherwise healthy kidney, and found in it a small calculus hidder away in one of the calices-which on a previous occasion he had beeu nnable to detect, either by digital exploration or by nedl puncture through a lumbar incision-he suggested that it migh be better practice to open up the kicney. This advice has been rather than to sacrifice a healthy organ. 'in some quarters, but 1 venture to 88 that this case goes to prove the wisdom of the suggestion. IIad not cut into the kidney, I must have resorted to the more dange rous expedicnt of nephrectomy, or have been satisfled to leave
patient in statu quo: and I believe that the exploratory incisio is by far the safest alternative. The result in this casc makes $m$ regret that $[$ did not resort to it in the second case.
Another point which this case emphasises is that, to arrest t hæmorrhage from the kidney, should it prove difficult of contro it would bo better to compress the edges rather than hy leavin any foreign body in the substance of the kidney itself. Takir these cases together, it will be seen that the only symptoms con mon'to all three are the pain and the localised temberness. forming a diagnosis, the condition of the urine may act as a guid but the absence of blood or pus from it

## ILLUSTRATIONS OF THE ORTHOPEITC $\triangle P P \perp$ RATUS; REFERRED TO AT A DEMONSTRATION OF MODERN ORTHO. PAEDIC METHODS. <br> By NOBLT: SJITII, F.R.C.S.En., <br> Surgeon to All Saints' Children's Hospital, London. <br> Tirw points chiofy urged in regard to the use of instruments w

 as followa:1. Determination by the surgeon himself as to the kind of $;$ strument to be used, if any.
${ }^{2}$ 'Read in the Section of Surgery at tlie Annual Meeting of tho British Med
Association held in Dublin. August, 1887 .
2. Simplification of the mechanisms (combining lightness with efficiency) and..
3. Construction admitting of easy alteration by the surgeon.

Success in treatment often depends upon the skilful application of these principles.

Knock-knees in children may generally be cured by instruments, In slight or moderately, severe cases the following splint, or a modification of it, may be eflicient. In this case the leg could be at once drawn into a straight, or ucarly straight, position.
Plate at top of straight metal splint coming well up ?
thigh, for firm bearing.
Stiff band behind thigh to counteract the tendency of
the splint to come forward; soft strap in front.

Knee-cap and straps to pull knce outwaris


Fig. 1.
The splint can be bent by the surgeon with wrenches.
In many cases where both legs are affected it is necessary to connect the tops of the splints by a band across the buttocks, to keep the thigls sufficiently forwards, and the feet from turning in too much.


In more severe cases a rack joint must be placed opposite the knees. $\left\{\begin{array}{l}\text { Firm band passing behind knee, up to which the knee } \\ \text { can be drawn when this part has a tendency to } \\ \text { come forward, and also when there is hyperex- } \\ \text { tonsion. }\end{array}\right.$

It is also necessary to keep the legs always extended.
Many modifications have to be made as a severe case progresses towards recovery.


Fig. 3.

When the curre is forwards, splints are not of much use, as we lose the points of firm resistance at each end.

If any splint is 'used it may be made as shown here.

Gutta percha shield to protect anterior slarp edge of tibia....

Forker end taking a bearing upon each side of the heel.........

Here osteatomy is often the only means of correcting the deformity.

Fig. $\boldsymbol{T}$ is a case of talipes equinus.


Fig. 6.

Thigh band at upper en 1 of single lateral bar

Front stop joint at knee preventing hyper-extension, but \} permitting free flexion. The patient, in continually" attempting to place the sole of the foot flat.on the ground, has caused the knee to give way, producing hyper-exteasion, sliown in Fig. 6.

Treatment consisted in division of the teudo Achillis, and rectification of the position of the foot. Then the rearing of the apparatus shown in Fig. S.
oint at ankle at first fired, then either front stop joint to protect tendo Achillis from too much strain, or back stop joint to prevent recontraction, or limited move ment both ways according to disposition of case


Fig. 9.- 1 case of rupture of the internal lateral ligament of the knee-joint. Instrument applied to outer side of peg, with free morement of knee-joint aud limited flexion of foot.

Without this support the patient could only walk With the aid of crutches, and then with difticulty: With it she could walk well with the aill of one stick, and cren the stick was not absolutely necessary. She wore this for a few months; six months after, the linee was quite well and strong.

Fig. 10.-G. C., aged S. Scrofulous disease of kneejoint; very bad family history. Duration of disense, three ycars, commencing after an injury:. Knee said to be out by celebrated bonesetter; he nsel forced morements, and abscess came; knee made much worse. There ras constant paiu aud swelling of joint. Applied instrument.
Fig. 9.
The patient can walk ahout, but it is essential that the splints take a bearing from the ankle, coming lown to the ground and from the inner condyle of the femur:
Band of attachment at kree
Band to act upon the curve
Round peg working freely in a socket $\qquad$


Fg. 4.

Trough to support thigh attacherl to each lateral metal rod (one on each side) without movement of kace.
Knce-cap to keep kneo towards snpport......


Fig. 10.

Tiesult.-Rapid improvement and cessation of pain and heat in joint. A year after was watking about comfortably, but owing to very had family history was directed to continue to wear instrument, which is no trouble.

Fig. 11.-Modified Thomas's splint for acute hip-joint disease. Attached above ly shoukder straps, leaving ehest perfectly free.


Fig. 11.
Fig. 12.-Dr. Judson's (New York) ischiat ic erutch for hip disease, used hy him in all stages of the disease. I have found it very useful after the acute stage has subsided.


Fig. 12.

Soft perinesl band upon whieh weight of boily on this side is supported.

Metal stem adjustable to height, eoming to ground belos foot, and to level of foot of sonnd leg; left leg being short from the disease.

This apparatus my friend Dr. Virgil P. Gibney (Ňew York) intonded to show at the mecting, but, unfortunately, it did not arrive in time.
Fig. 13.-For earies of the spine. Plnster-of-Paris, leather, or gutta percha back splint moulded to the back while the patient is recumbent in a prone position, with the legs at an angle of $45^{\circ}$ with the straight line of the body (so that the lumbur part of the spiac does not bend in too much).


Coming toplavel of shoulders.
Shoulder straps to keep unper part of body lack to splint, developing the thorax and lewving the front of chest free for respirition.

Metal baods to st rongthen splint.

Fig. 13.
This splint is appliced upon the principles of Mr. F. J. Chances instrument. The latter is the more perfect appliance, becanse it onables the surgeon to regulate more exactly the bearing of its different harts in accordance with the progress of the case: but for keneral purposes the oplint here depicted is applicable, and by it the spinc is held frmor than by any jacket.

Fig. 14 represents a plaster-of-Paris spine support for caries leaving the chest perfectly free, strengthened in back by metal bands.


Fig. 14.

## THE ETIOLOGY AND CLASSIFICATION OF THE ANAMIA OF PUBERTY!

By E. MACDOWEL COSGRAVE, M.D., F.K.Q.C.I',
Physician to Simpson's Hospital and Whitworth Hospital, Drumeondra Lecturer on Biology at the Carmichael College of Medicine, Dubliu.

A targe number of girls suffer during puberty from a condition of ill-health characterised by a very constant train of symptoms, and to which the names anmmia and chlorosis are applied. Although the discase is so common, its symptoms so plain, and the treatment, as a rule, so suceessful, the ctiology is by no means well established, various theories being put forth by different writers.

Trousseau ${ }^{2}$ considered it a neurosis, the blood changes being secondary. Niemeyer ${ }^{3}$ appears to consider it as a result of premature sexual activity. He writes: "According to my observation, obstimate chlorosis attacks all young girls without exceltion in whom the menses have appeared in the twelfth or thirteenth year, before the development of the brenats and pubes." Mitchell Bruco ${ }^{4}$ says the origin of the disease lies in a peeuliar condition of the blood and blood-vessels, which is beliered to be congenital and perhaps hereditary. Aitken ${ }^{5}$ considers chlorosis as one of the "functional diseases of the female organs of generation in the unimpregnated state." Sir Andrew Clark ${ }^{6}$ considers "froculent retention and its conseguences" as the cause. Sóe ${ }^{7}$ looks upon the inability of the organism to meet the demands made upon it by the simultaneous advent of menstruation and of rapid growth of the tissues as the cause.
A great many predisposing and exciting causes have been described by various authors; most of these seem to be not so much causes as merely coincilent with the time of life at which the disease begins, but, generally speaking, all things are causes which lessen metabolism and the power of the system to meet be clemands made upon it, such, for instance, as want of exereise, improper food, and vitiated air, and the rariety of the disease cansed will depend greatly upon the force and direction of these cnuses.
The distribution of the disenso hears this out. It is not confined to any class, but is more otten met with in large towns than in the country, and is much more common amongst girls who sit al.' their work than amongst others. When it does occur amongst servants, defective drainage is often an exciting cause. In Dublin the disenso is very common; yet in Iluddersfield, where the great
1 Reat before the Medical Section of the lioyal Acalienty of Medicine. In
reland, March 911 , 1888.
2 Clinical Medicine, vol. Y, p, 101, 1873.

- Textbook of Practical Mcaicine, vol. il, sec. Ini,
(Juain's Iictionary of Sfodicine, art. Annmia.
- Suain's /ictionary of Sfadicine, art. Ancmia.

Quoted by Sir Andrew C
s Medical Socirty of Loudon. Novomher 11 hh, 188 i.
7 (lenoted by Str Andrew Clark.
111
majority of the girls work from an early age in mills, it does not seem to be common, as, on looking aver the notes of more than 600 eases treated there consecutiyely, 1 find only three examples of the disease, and one of these girls is specially noted as having a "sitting joh" in a mill. The chief differences between the girls in Yorkshire towns and those in Dublin are that the former are better fed and have more exereise, both at their work and after it.
But, although these causes are generally met with, sometimes they are absent, and the disease occurs in girls of good physique, living in enuntry air, warmly clad, and well fed.
In Sir Andrew Clark's papers the graphic deseription of the patients only dealt with one variety of the disease-that generally termed ehlorosis; mit other well-mairked varieties of the anemia of puberty are met with. I would venture to propose the following elassification:-

1. Fat ancmia, where there is a well-marked deposit of adipose tissue.
2. Anæmia of overgrowth, where there has been well-marked general inerease of growth without muel deposit of fat.
3. Anæmia of general malnutrition.

The first and second and the second and third may overlap, but never the first and third. In the first variety the symptoms of anmemia generally follow the deposit of fat in the tissues: in the second they follow the rapid growth; in the third they generally follow the appearance of the menses. The second and third (those in which there is no deposit of fat) are liable to be compliented by tubereular disease.
In spite of the great weight of Sir Andrew Clark's experience I cannot look upon ennstipation as even an important cause of this anemia. Constipation and ancmia are often associated, but very often the constipation is not greater than would be expected from the general sluggishness of the functions, and is similar in significannee to the copious pale urine, of low specifie gravity and deficient in urates, so geuerally associated with this anemia. That the constipation is aceompanied not only by torpidity, but also by loss of power, is shown by the failure of belladonna and aux romien to relieve it.
Another argument against ennstipation being the cause of the lisease is that eure often follows the use of iron in the form of 3rifith's mixture or Blaud's pilis, without any purgatives being
dministered. diministered.
Habitual constipation is a common complaint, and as long as the bowels are evachated regularly, uneomfortable symptoms sellom arise, no matter what the interval between the motions. Mhere seems no reason why constipation should at one age and in me sex cause this characteristic train of symptoms, and proInce none of these symptoms at other times.
In some curious cases the constipation is persisteat through life, put is not accompanied by any definite symptoms except at puberty and the menopause, at hoth which periods there is palpitation with thortness of breath on exertion. In one case, at present under isservation, there has been obstinate constiphtion, as a rule not nore than one motinn in nine days; the patient is now 40 . and it sonly quite lately that the palpitation and shortness of breath ave appeared.
With regard to the oceurrener of the menses. my experience is ery different from that of Niemeyer. ${ }^{3}$ Early development and lot premature menstruation seems the rule. Often the anamia sets In without any rppearance of the menses, but in many of he eases there has been a slight appearance for from one to three $r$ four monthe, and then eitlier a total cessation or an oceasional light appearinee for a month or two, and then several months it hout any.
Renerally, speaking. I have found that in the anmmia of eneral malnutrition the menses may be absent, seanty, nr, in are enses, normal. In the anemia of overgrowth there is an ttempt at establishment, of menses without development of the reasts, cte. The beginning of fatty anxmia is coineident with ie development of the breasts, etc.
In the fatty anæmia there is certainly an hereditary aeguired misation. It is very common to find several sisters affeeted. In ar fanily I have noted four. in another threc, and in several two Taffectrd. In these cases lhave often found that the mother has een married early in life, and I have learned to look upon this as important factor. In one family of good means, and living in ne country, the mother was eighteen vears of age at t'm hirthe of
her first child. She has had five sons and three daughters; all the sons have been very strong, but the daughters, although when young, strong, and of healthy colour, have all passed through wellmarked fatty ancuia. In another ease the mother never suffered from anæmia; her first child, a daughter, was born when she was only seventeen : the child is now rapidly getting stout, has no appearance of the menses, and is, in fact, passing ioto fatty anæmia.

Another very interesting point in this variety of anæmin is, that if any strong eall in a partieular direction is made upon the system, it will be able to meet it ; thus, there is generally marked shortness of breath and palpitation on going upstairs, and but little whilst walking not too rapidly on level ground, yet domestic servants so anæmic as hardly to be able to walk on level ground, will sometimes be able to earry heary weights upstairs. This I have never observed in the other forms of anæmia.
A most important contribution to the etiology of the disease has been made by Beneke ${ }^{10}$ who has shown that the annual inerease in the heart and blood-vessels in girls up to puberty is 8 per cent., per annum, whilst during the establishment of menstruation it is 80 to 100 per cent., so that if puberty is established in a single year, an extra growth of from 70 to 90 per cent. weight. in addition to ordinary growth, is entailed, and that at the end of puberty the lungs have arrived at the fullest development. and the excretion of carbonic acid gas has reached its highest. There is no such rapid change in the male.
Professor Bowditeh ${ }^{11}$ says that, up to 11 or 12 , boys are, on the average, taller and heavier than girls; for the next two or three years girls have the advantage, whilst after 14 or 15 boys again exeel in strength and height.
It is probable that the rapid development of the female is to be found in sexual selection. Men generally choose wives younger than themselres, and so women who are early vexually mature are most likely to be married and have offspring. In time this ought to eanse a papid maturity, and the general tendency would be emphasised in the offspring of mothers who were married young.
The parts affected in this rapid development are the various tissues derived from the inesoderm. The white cells and blood corpuseles, the heart and blood-vessels, the reproductive organs. and the supporting and connecting tissues are chiefly affected. During puberty the mesoderm is largely called upon by the rapid growth of the organs concerned in generation. If the system is unable to meet the demands made upon it, anxmia results. If badly under-nourished, the system is almost certain to fail to meet the extra demands, and the anæmia of general malnutrition is established. If, at the time the rapid growth of the organs of cireulation and reproduction is set up, there is aztive growth of the bones, muscles, and other tissues, the system may be overtaxed ly the further demand, and the anxmin of overgrowth gradually appear. In a third class of cases the mesodermal energy is misdirected, and instead of the demand being supplied, an excessive amount of reserve tissue (possibly resulting in part from deficient oxidation) is formed, and fat anemia develops.
I That there is not only an aceumulation of fat, but deficient growth and a fat substitution, is slown by the norta of small calibre and the unequal thickness and fatty metamorphosis of the intima, which are so well-marked as to have led to the idea that the cause of the disease is a congenital condition of the blood and blood-vessels. ${ }^{11}$
With regard to progriosis and trentment. 1 would add only a few words. In the variety of anæmia assaciated with deposit of fat there is suflicient, but misapplied, ritality, and cure may be hooked for. The treatment is twofold, specific and symptomatic. Iron may fairly be called a specific introduced in quantities far exceeding the orlinary needs of the system, it does good, nind often, withont any assistance. e ares. Dr. Oswald Selmiedelerg ${ }^{13}$ snys: "The possibility eannot be denied that under conditions otherwise farnurable and necessary to the cure, the formation of red blond corpuseles may be foreed, even by an increase of the iron absorbent, which, thningh in itself minute, is kept up a considerable time, because of a long-continued extras supply of the metal."
It seems probable that the irnn acts by modifying the mesodermal growth and cheeking the excessive formatiou of a reserve 10 Der teber dos Folumen des, Herzens und die Heite des Arteria in den Jerschiedenen Hebensalten. 1879.
11 The Grouth of Chidren. 187
13 Cf. Dr. Mitchell Bruce, loc, ant.
13 Elements of Pharmacolagy, 153. p. 132.
material. Arsenic and the mineral acids also do good, but J believe unt so rapidly.

As learing on the specific action, I may mention that the syrup of the iodide of iron has seemed to meto act much more rapidly and effectively than the syrups of the phosphates and of the hypophosphites.
The form in which the iron is given must vary with the necessities of the case. As a rule I prefer four or five grains of the iron and aloes pill of the B.P. each night and morning. In this combination 1 have never found iron disagree. If there is a catarrhal condition of the mucous membrane of the stomach, I use a mixture containing sulphate of magnesia and sulphuric acid, either adding sulphate of iron to it or ordering the myrrh and iron pill of the B.P. In some forms of dyspepsia the sulphate and carbonato of magnesia with aromatic spirits of ammonia in a bitter infusion act well in conjunction with the iron and myrrl pills. Very rapid improvement follows the use of the solution of the perchloride of iron. B.P., but some people cannot take it ; I find however that it disagrees with comparatively few since I have prescribed it (on the suggestion of my friend Dr. Cameron, of Huddersfield) with an equal quantity of spirits of nitrous ether
Ilygienic trcatment is also important. Fresli air, good food (especially meat), and moderate exercise are useful, but overexertion is hurtful, and tends to prolong the anæmia, or even to render it permanent.

In the anæmia from overgrowth the prognosis is generally good, but the possibility of tubercular disease must not be overlooked. Fresh air, nourishment (especially milk), and comparative rest are all important. Iron has not seemed to me to be so necessary; when given it is generally hest in the form of the syrups of the iodide of iron and of the phosplhates. If purgatives are required, I prefer the saline ones und avoid aloes.
In the ancmia of general malnutrition the prognosis is bad: the excessive demand comes upon a system but badly able to fulfil its ordinary duties, and permanent debility generally results. In such cases, country air, perfect rest, and plenty of milk and other easily assimilated food, with cod-liver oil, is what is required, and medicine is of secondary importance. I have found most benefit from the sulphates of iron, quinine, and magnesia, in combination with hydrobromic acid.

## ON THE EXCISION AND SCRAPLNG OF CARBUNCLE.

## Bx RUSHTON PARKER, M.B., B.S., F.R.C.S.,

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There are few procedures in practical surgery that better deserve recommendation than the local extirpation of carbuncle, of which the pain and tenderness are thereby ended, and the state of gangrene, always virulent and sometimes inveterately spreading, xcplaced by simple inflammation in a healing sore.

If the carbuncle be small enough, or seen early enough, an abortive treatment may sometimes be practicable by syringing through it an effective antiseptic liquid; but we seldom get such a good chance of doing this in carbuncle as in boil. In my own case I have several times arrested a boil in its early commencement, when little more than a pustule in a hair follicle, by injecting strong carbolic or sublimate solution a few times, at short intervals, with a hypodermic syringe. But the manipulation necossary for this in even a small carbuncle is at least as painful and prolonged as the excision of the rirulent centre (or centres), and not appreciably more saving of tissue. When an anwsthetic is given, the question of pain, as of time, is unimportant; lyut there are cases of small carluncle, especially facial, in which excision there and then, withont assistance, is very convenient to the surgeon and readily borne by the patient. The disease is almost always acutely tender, if not constantly painful, while constitutional disturbance is sometimes great aul increasing. The effect of extirpation is immediate relief to the former ill, and a gradual but sure end to the latter when not too late. 1 concur with the support given to this important practice by Mr. Ilerbert Page and Mr. Fdmund Owen in the Journal of March 24 th, Rnd with the tribnte there paid to Mr. Teale"s cxcellent paper on "Scraping," adding, in this brief reference to my cases, some details that usefully supplement those accounts. ifrefer, however, to consider together erasion and excision, as hoth may be required in different parts of the
same carbuncle, while other carbuncles require the one or the other according to the softness or harduess of their affected tissues.

Cass x .- A servant girl, aged 19, was sent by Dr. Grimes to the Liverpool loyal Infirmary on the evening of September 4 th, 1885 , suffering from an acute brawny inflammation on the left side of
her chin, of four days' duration. As there was a question of malignant pustule, I was summoned, and went to her at once. Under chloroform an incision was madc, and the nodule inspected within. The tissues in the centre werc grey and purple, and the thing was decided to be carbuncle. A conical piece was excised, pure carbolic acid put into the wound, with a sublimate dressing laid on. The inflammation melted rapidly away day by day, aud the girl was well in a fortnight. There was, I believe, no nnxiety about her constitutional state from the first, but I have no note of the details.
Here the best practicable form of immediate local extirpation seemed to be excision with a sharp knife, on account of the density of the tissues. The virulent centre was about the size of a pea, and yet the collateral swelling was as big as half a walnut. Case ir. A night-soil carter, aged 23 , had a pimple on his neck on May 24th. I886. This be picked, but was none the worse next day, when, however, he took too much drink, and, the day On the 2sth he was sent by his medical man to the Liverpool Royal Infirmary, with the left side of his neck in a swollen, red, angry state, yery like in appearance to the illustration of malignant pustule given in the Journal by Mr. Morrant Baker on June Itth, 1884. . His temperature was $104^{\circ}$, and the disease was at first supposed to be a mild form of malignant pustule. Excision of the centre, dirty-grey and purplish, with some surrounding skin, was performed by me withont amasthetic shortly after his admission. Ilis temperature rose to $105^{\circ}$ that evening, but fressings applied. the night. It was taken every two hours for four days, and found to rise after mid-day and fall after midnight. The second day lowing it again became $104^{\circ}$, after which it kept below $100^{\circ}$, before regarded as a mild form of malignant pustule ; the local grounds ances, absence of pus, and constitutional state favouring the idea. But neither the juice of the excised fragment nor the patient's blood or urine showed bacilli under the microscope, though there were abundant micrococci found in the urine and juice of thic wound. The case is therefore considered to be a small carbuncle, be due to pto boil, with unusually severe symptoms, presumed to Case ini.-Another porbung. aged 22 , who came carbuncle of the chin, right side, in a woman ased-2, who came to me on January 15 th, 1887 , eight days after
its appearance. In local characters it was like worse every day. But the temperature was only $99.5^{\circ}$, getting pulse 72 , which I thought augured well for the patient. I cxcised the centre, without anæsthetic or assistance, in my consulting room, applied carbolic acid inside and a sublimate dressing outside, with the same good effect.
A icw years ago I read an account by, I think, a Parisian surgeon, of the excision and antiseptic after-treatment of ordinary carbuncle, and determined to adopt it at the first opportunity. aged 43, came, under my April 29th, 1886, when (Case IV) a man carbinclo was not serere, thongh moderatcly large. Dut it was as usual, tender and painful, situated at the back of tho nuck, and as was likely to be benefited by its removal. I therefore, and menced to excise it at once, under chloroform, througl are comincision, dissecting lack such part of the remaining skin as seemed, not too far injured. But I soon found that the sharp spon more easily served the purpose, most of the carbuncular tissue being saft and pulpy. The bleeding was certainly abuudant, but was controlled with hot water and the pressure of sponges. The next day he expressed himself very pleased, feeling that "a load had been removed from him," in the loss of all disconfort. Sublimate dressings and encalyptus ointment were used, and he was well in a fortnight.
Case $v$ was that of a man, aged 50 , who came under my care on January ISth, 1888 , with a large carbuncle on the nape of the neck of some ten or twelve days' standing. IIe was not ill nor to distress, but he readily agreed to its removal. 1Here, I began to
erase, lut soon found that excision had to be done with knife or scissors in some portions that were hard and brawny, and entirely
ninfluenced by the spoons.: The fascia was in places underained, and these 1 opened up and scraped well out. The bleedng here, too, was profuse, but kept dorn with hot water and the ressure of sponges. Dressings as in the previous case were apdied, and the patient was well pleased with the effect, and the speedy estoration of suppleness to his neck. He was up and about in a lay. or two, and well in a fortuight.
I have gone thus far, but I hope not tediously, into these five ases to show that while neither erasion nor excision is hy itself panacea for all carbuncles, the two processes combined or selected re applicable to every case, not as a mattcr of mere novelty or ariety, hat as the most effectual treatment that we can adopt, if oot put off too Inte. Not that 1 dcubt that any of these caruncles, all of them, perbaps, werc capable of recovery under exectant treatment, which differs little from no treatment. I am erfectly sure that all were exceedingly henefited by local extiration ; and if it be that any of them were likely, if too prolonged, o end in fatal septicamia or pyæmia, that disaster was unoubtedly averted liy the operation performed.
There is no means known to me at present of deciding in the arly"stages of a carbuncle whether it be likely to end in recovery r death if allowed to run a natural course; but it does seem to de that timely extirpation in some form or another, indiscrimiately nsed, is the most certain means whereby diminished atality is to be hoped for in the most serious cases. while rinimising the diseomforts of the slightest. I can look back pon several fatal cases in which I should gladly have known that xcision was likely to be curative.
Just a word ahont potassa fusa, which I personally seldom use, ut on which Mr. P'age seems rather hard. If for some reason it hould not be possible for me to scrape or cut out a carbuncle, I hould consider it a rery fair suhstitnte to mash up the interior rith sticks of potassa fusa. To be sure this would in effect be a Iore or less thorough erasion; but any of the gangrenous virus nremoved would have the chance of being permeated by a pretty ficient antidote, that might easily arrest forther spread of the isease.
Some persons rul, in canstic potash or other powerful chemicals 1 addition to excision, but their additional necessity is at least oubtful: of theso 1 consider solid nitrate of silver the best for æmostatic purposes, but it causes great pain. Pure carbolic acid as the advantage of producing local anesthesia in addition to its utiscptio qualities.

## THE GOULSTONIAN LECTURES

 ISANITY IN RELATION TO CARDIAC AND AORTIC DISEASE AND PHTHISIS.Delivered before the Royal College of Physicians of London. By Wm. JULIUS MCKLE, M.D., F.R.C.P.LoND.,

Medical Superintendent, Grove Uall Asylum.

## Lecture IJJ.--Jnsaniti in Relation to Piftiisis. (Concluded from page GS9.)

Some, hearing liallucinatory abuse and reviling, funcy that sery old score is raked up against them, and that their delusively nagined misdeeds, known to and animadverted upon by all. ocsion lhe linger of lerision or of scorn. A few take delusions bont being baffled, annoyed, or as, to malevolent and injurious iterfercnee with their mind and its operations. Ilaving links ith these, hut in themselves mostly of neutral cmotional chaucter, are delusions such as that new patients electrify the old, - that bells are leept ringing and electrify the air.

Third Sub-group: Morose, Angry Mania, or Cases with Deluons of Injury. Dersecution, not or not yet Systematised.- Ihases del times of emotional depression, though present in some exnples, are far less frequent in this, than in the previous sub--oup, as also are suicidal tendency, apathy, and indolence. On other hand, many ure irritable, sullen, morose, moody : some -e obstinate, or are given to refuse food ; on the other hand also icitement predominates-excitement, usually angry, but in some ternatety angry and gay; indeed at first there iway be acute
ania. Such. pationts. ania, Such, pationts, too, are usually restless and violent, hether merely destructive, or dangerous, or threatening, or homi-
cidal; usually also are they fidgety, gesticulating, muttering, swearing, denouncing: some are noisy, some mentally confused. Of many are the utterances at times voluble but incoherent. rambling, confused, irrelevant, peculiar ; and their conversation may be with imaginary people. The memory is often impaired. occupation or amusement unsouglit, the glance furtive, the visage grimacing.

A majority are hallucinated, hallucinations of hearing being the most frequent, and those of sight coming next. A majority, again, are extremely suspicious, a majority are at times cithers obstinately silent or very taciturn; a few lose sleep.

Delusions.-Injuries to, or maleficent influences affecting, the', patient's body are frequent subjects of the delusion; delusions of persecution, of the hostility of otlers, or of poisoding, are some what frequent ; those of conspiracy are occasional.

The delusions as to bodily damage or injurious influence are. such as that "the contents of the head are drawn ont by the nosc.", that the sufferer is "interfered with," that "electricity ylays on Lim," and by it be gets hallucinatory messages or "is elcetrified,", is "worked on by spiritualism," is "placed in strange malpo-1 sitions by the country he is in." Or, that he is "full of another'sl spittle," "a weight is imposed on the nape, chalk is thrown, into: his mouth and urine into his body" sees a "blie, gaseous sub-, stance inside him." His "frame ribrates" with the persecutors? movements: "the attendants threif wrong things, thus stopping his breath and nearly killing him;" "has been torn from head tof foot all his life."

Similarly depressing and expressive of a sense of hostility in the environment are the ideas that roices gibe at and vex him.: that the newspapers write against him ; that detectives follow him ; that he is surrounded by blaspheming infidels, or affected by the operation of "secret telegraphy," that he is "roobed," is about to incur evil and injury from those around: that his wife is unfaithful to him, and he therefore kept in an asvlum in fur-s therance of an immoral object ; that whilst in the army he "suffered more than any man in thic world."

Nevertheless, expansive ideas may crop up in the more active and gayer mania; rarely, if ever, does this state assume a chronios character. The patient says he is a better doctor than his physician; or that "a saint put a ring on his finger:" or that, havingr been electrified, he can by e touch tell what others have done alli day; or he says he is Christ, or has a saintship from him, or is the Trinity; "has thousands of millions of moner, hrought the suin back, will live 100 years."

Fourth Sub-group.-These cases are of the monomaniacal type. in some instances abortive or imperfect, in some a rapidly deteriorating psychosis. For the most part of the persecutory querulous types, occasionally they are of the hypochondriacal or of tlie exalted; the characters, however, are often mingled.

An example mainly taking the persecutory querulous forin may be as follows: at first eccuntric, silent, restless, be lecomes disrespectful, morose, sullen, noisy, angry, tlireatening, sleepless, 6 mutters curses, and entertains delusions of persecution and of poisoning; later he takes delusions such as that, for love of him, a rich woman had him sent from India under fictitious namee.: and, he being under a course of opium, she also took the oppor-7 tunity " to work off his mind and brain, because work is taken off. by people who are outside." He sees them, ther dray themselves before his eyes, he hears them, and they annoy his mind and ? hrain, and say that they "persecute one man;" he is that man. Day and night, but especially the latter, he hears the men who: follow and annoy him, paid to do so by a woman. who also mesmerises him constantly, and keeps him in the asylum. "Opinm is put into his food and brain; the time-giring and secing of opium through the brain is destroying him." Under the deln-? sions of injury le lrecomes excited.

In some cases many of the delusions are more of a yeutral tint. One "has cannon halls in his head; his name is writton on his forehead. The chaplain is not ordained, is a debanchee: a nuresi causes death of the inmates. so does the baker:" the officinls" about him are "in false numes," and his language is foul and threatening towards them under the delusion that they are receiving bribes from a woman to cut off his head. "Against him ' bad characters have a spite; day and night people talk abouthim, and what be has becn through."

Occasionally the expansive elament is relatively more marked than in the preceding examples. Thus, one " is an heir : his relsor tions were about to shoot or poison him, and day and night they talked of doing this," their object being to give his property to
another heir: therefore he fears leing killed. "ITas an estate; thu aislum premises helong to him," and so do the clothes woru hy those in charge of him, nud hecause of this, and of his detention in what he delusively culls his nwn "ansion, he threntens, and tries to attack. He asserts that he is "wated in the city;" is to marry a rich lady: has enormous wenlth. Lnter on, he shouts his orders to imaginary persons in nn anintelligible jargon. Or, another " sces Christ, or the devil frequently, or whenever he likes; hears God: sees 1 Iim in Heaven; needs not to work, inasnuuch as God will nlways provide him with food."
Fifth Sub-group, - In a few eases phethisis appenrs to widen, deepen, modify the mental defect of a weak-minded person; as it were, to add dementia to a degree of imbecility, and bring the individual affected under notice, and into an asslum, owing to the grave loss of mind, the failing mental eapacity, now obvious. Such persons are usually young ( 18 to 2.5 ). Hopeless as this condition may appear to ane unacquainterl with its truc nature, or lacking experience of the kind, it is sometimes the thentre of therapeutic triumph, and under outdoor exercise, a regular life, large diet, cod-liver oil and tonies, the patient may be found to lose the marked signs of phthisis, gain greatly in body weight; and, throwing off all the supervenient dementin, return to the degree of nuental eapacity normal to him, such as it is. Similarly 1 have seen, at least temporary, mental recovery in one example prosenting relations similar to the weak-minded eases just mentioned, and occurring in a youth, aged 19, the subject of moral disorder, of inveterate kleptomania, impulses to theft, also to strange aets ; vertigo; and, somewhat doubtfully, of hallucinations of hearing, at times.
Second Group. -Cnses in which the order of incidence of phthisis and insanity was doulteful, that is to say, in which the two apparently came on simultaneously; or so nearly simultaneously that it could not be definitely stated which of them preceded the other.

Of the 106 eases already analysed with regard to the question of insanity supervening on phthisis, the order of incidence, on closer scrutiny, was found to be donbtful in a goodly number, owing to apparent approximate simultaneity. Taking the twenty-four examples most adapted for our present purpose. I hare examined my notes and records of them with some interest to ascertain, more precisely than from a general impression, how far these cases, on the whole, resembled those of insanity supervenient on phthisis, and forming our first great group already discussed. In cases of insanity nnd phthisis coming on about simultaneously, and of doubtful order of incidence, obviously we cannot expect to find, as the initial disorder, those actively guasi-delirions symptorns and hallucinations sometimes coming on in established or advanced phthisis, and forming the clinical aspect of the first sub-group of eases of insanity supervenient on phthisis. But if wo find a genera! likeness to the other sub-groups of cases of insanity supervening on phthisis, in those where the order of incidonce is doubtful, it affords the necessary confirmation to my view that phthisis gives origin to, or assists in the causation of many examples of insanity like those most apt to begin nearly simultaneously with the invasion of lung tubercle; or, in other words, that actual phthisis produces or precipitates a state of the constitution or of the organiem similar to that which, in this second group, leads to the practically simultaneous breakdown manifest in both phthisis and inssnity. We find that those under the present head show in general grouping somewhat similar to those under the preceding head; particularly do they repeat the symptoms of the second, third, and fourth sulb-groups above, as ray bo seen in the following genernl summary.
Summary.-In many there is emotionnl depression. This may assume the more enmmon aspects of melnncholia; fear, weeping, griof for alleged, but imaginary, guiltiness of crimes; or vexntion about the "nhuse" he receives, and the "evidence" raked up against him ; or a suicidal tendency, or attempt, may he observed. But in some the state is apathetie or stuporose; a condition more of less of melancholia attonita.
Even still more frequent aud striking than phases of emotional depression are the cases with delusions as to bodily injury, damage, torture or detriment of various kinds; thnse as to persecution of manifold variets, or of plot or conapiraey against the lunatic; those as to being poisoned lly food, or deprived of food; those as to hostility, nnnoyance, as by hallucinatory woiens, whether these be reviling or not: those as to interference, threats or designs against him, adverse influences, mysterions agencies.
Uzually either not, or imperfectly, systematised, the abore de-
lusions of injury or persecution often tend to become fixed and systematised. Yet may expansive delusions occur in some, and when they exist are usually found alternating with depressed or persecutory delusions; as in some forms of monomania.
Sleeplessiness is frequent ; violent, restless, noisy, destructive states, or foul habits, may be fond. Some are scowling, angry threatening and abusive in language. Some are suspicious, some are apatlectic, or confused, incoherent, or unsociable or irritable. or shy in appearance and demennour, or act with an air of mystery or secrecy, or are discontented, malicious.
The great majority are hallucinated, hallucinations of hearing being the most frequent, those of sight next, those of other special senses sometimes observed. Usually disagreeable, the hallucinations are so, or the reverse, according to the predominant coexistent mental colouring. Visceral illusions are frequent.
Thus we see how closely the above eases, set down as examples of those in which the incidence of phthisis and insanity is nearly, simultaneous, and its precise order doubtful, resemble the second third and fourth sub-groups of those eases of insanity snperyening on phthisis, of which we have already spoken, thus justifying the remarks preceding the particular deseription of this second great group of cases.

It will seareely have escaped notice how large a number of the enses collected for our first two groups we eventually excluded from immediate consideration, and in how considerable a share the precise order in which phthisis and insunity came on was obscure and difficult to determine.
Not only are there, in phithisical cases of insanity, the usual difficulties often attending the attempt to attain correct information on the cansation and inception of disease, as experienced by all practitioners of our art, but there is the further and unusual difficulty engendered by two factors; the one being that the mental eondition of many a one prechudes ns from obtaining accu-
rate information from the sufferer limself: the other that in many of the insane the phthisical process is extraordinarily latent, fails to reveal itself in its full symptomatic aspects, and does not occasion some of the usual reactions of the organism, or at least in the customary degree. But the latency of phthisis in some of the phthisical insane forms a separate subdivision of the subject, and one which I had hoped time would permit me to take up in this leeture.
Third Group: Phthisis Siupervening in Insanity.-1. Relations of forms and clinieal aspects of insanity to the subsequent occurrenee of phthisis. 2. Relations of phthisis to the modification of pre-existent mental symptoms.

1. Clinical Forms of Insanity in Relation to Supervenient Phthisis.-Almost any form of mental affection may become complicated by the supervention of phithisis, but some forms are particularly liable thereto. In these latter forms of insanity there are operative, and for a somewhint protracted space of time, not
nerely merely such of the general asylum influences as may foster
phthisis, but also the chief causes of the mental disease which predispose to phthisis-the special habits, carelessness, negleetfulness, tendency to self-exposure, and disinelination for or refusnl of food, which characterise these cases. Nor is this all; there is a still further puissant influence in the diathetic state, in that here-
ditary ditnry degeneration which displays itself in psychical degradation, aud in a tendency to pulmonary or other tuberculosis; the
diathetic infle diathetic influence promoting the brenk-down simultaneously, or
successively in Depressed or suspicious lunatics often neglect or refuse food, exercise, warmth of body, or the conditions of its maintenance: or are of depraved labits, not merely filliy, self-neglectful ones, hut also sexually self-abusive; if present, the habits of nightrestlessness and self-denuding, or of food-vomiting. also degrade nutrition; and this degradation of the nutrition is enhanced if refusal of food necessitates artificial feeding for $n$ protracted space of time, especially if with co-existent disorder of the digestive orguns, or if the patient is a garbage-eater, and thus dissipates his
digestive porvers and irritates his digestive orgns by that whieh digestive powers and irritates his digestive orgns by that whieh elination for, food is apt, in spite of care, to lend to defective nutrition. Some of these, or other, patients persistently keep indmovable in one position, regetating there, neglectful of warmth, of comfort, of eleanliness, regardless of draughts of air or other injurious impressions. Many insane persons, also, are in the halit of eovering up the head in bed at night, repeatedly rebreathing or defective vertilation (if any) of asylums, the gense of confinc-
orn
ment and of surveillance, add a depressing element. Also the conditions of life in prychically degenerate familics, the irregularities, imprudences, liggienic blunders, and social solecisms found in the members of such, under the home-roof, build up an inclination to phthisis, nud long before the subjects thereof reach an asylum.

In relation to the present subject, I lave taken about twenty cases, as sufficiently illustrative of the forms of insanity in which phthisis is most apt to occur; and of the modification undergone by the preceding mental symptoms under the effects of pulmonary phthisis. Unfortunately, I might illustrate this group by a large number of cases, but as this third and last is the least important of the three great groups-least important, that is, in relation to our present inquiry-I have thought it quite snfficient to analyse a modest number only, although under the present head would come all the cases of phthisis in the insane in more recent years under my care, save and except the 100 already referred to under the first two great groups, and except some occurring in recent nonths and not ennmerated lere, and except those with forms of mental disease alrearly spccified as being omitted. The age at death, varying from 24 to 52 , was, on the average, between 36 and 37 . The cases are examples of the sub-groups in which phthisis most frequently occurs; and, as under the other groups, so here, I lave purposely excluded phthisical cases of general paralysis, cpilepsy, or any gross organic brain disease.

1. One Sub-group. with supervenient phthisis, is that consisting of examples of monomania of the mingled persecutory and expansive form, the persecutory element usually predominating. In these cases, hallucinations and illusions are frequent, especially those of hearing and sight, while those of taste and smell may be present. Some of the patients have led a very irregular life, liave deserted their duties, wandered lither and thither throngh their country or the world, come into frequent conflict with social usages, the rights of others, and with the law. The delusions have been those as to persons working adversely to the sufferer, of annoyance, and often by individuals of the other sex; of various linds of injury ; of being joisoned; of being haurted by shadows and voices, or by the levil and his wife; of carrying Mr. Punch on lis back; of being transported as a convict, or affected by witchcraft, or of having all his thoughts repeated by others. Hypochondriacal monomania may exist.
2. Another Sub-group, with supervenient phthisis, consists of cases with chiefly unsystematised delusions of persecution, ill-treatment, annoyance, injury, medical malpraxis on the sufferers; of damage, hurt, and annoy from electricity brought to bear on them; of conspiracy to annoy or injure them; or delusions leading them to claim what others wear. In some, these delusions, however, tend to become systematised and fixed.

With these are often querulousness and hypochondrical symptoms. Hallucinations may be frequent and vivid. Occasionally patients of this sub-group may also overflow with the foulest sexual delusions and illusions.

Third Sub-group.-In some such cases clıronic moral and infellectual perversions have followed acute mania, or hare supervened in melancholia, now become chronic. The melancholic deas may be on rellgious subjects, and such a patient nay also lelusionally believe limself or herself to be the subject of criminal harges. Iypochondriacal melancholia may be found.
4. Another Sub-group consists of stuporose cases, which, whether f the more simple or of the melancholic form, find many ohthisical victims; but the stereotyped clinical features of which is quite unnecessary for me to limn.
Dr. Clouston" long ago described what he termed "phthisical" nania or insanity, and whicl he regarded as being "a direct result of a strong tubercular diathesis, or tendency which was then being fereloped, or about to be dercloped, into direct tuberculosis." At me moment including "only cases which died within five or six rears after becomiug insane, and in which the development of the wo diseases was somewhat contemporancous" at another this "typical phthisical mania" consists of cases in which symptoms of ohthisis came witlin five years of the commencement of the inanity, and in the majority of them within two years. Thus, in anny, the order of ineidence of the two was problematical; in any the phthisis came sonme considerable time after the insanity, hhich latter, therefore, could not positively be termed "plithiical." If present at all the acnte stage was very sliort, and passed either into a chronic stage nor into deep dementia, but into an critable, excitable, sullen, and suspicious state; a mixture of sub-
acute mania and dementia; with want of periodicity, and of fixity of meatal condition, clisinclination to exertion of mind or body, and unprovokedshort attacks of mild excitement;-suspiciousnesis the chief and most nearly characteristic symptom.

Whilst many of these cases form an important contingent of those springing, or partly so, from a plithisical or tubercular basis, nevertheless a further sub-division is requisite; and the several distinct clinical sub-groups I have described (under Groups 1 and 2) fell within my experience.

I do not take up the relation of phthisis or tuberculosis to idiocy. From his large experience, Dr. Langdon Down ${ }^{13}$ concluded that tuberculosis is frequently a cause of idiocy, impressing special characters thereon.
2. The Modifying Effects of Ihthisis on the Clinical Aspects of Pre-eristent Insanity. - In the foregoing and similar cases of the third great group, what are the modifications of the mental state wronght by the supervention of phthisis? In about twothirds we find some clange; on the other hand, in about one-third rery much the same state before and after the superrention of phthisis.

The cases where clange was wrought being of the types already described, I need not state the mental symptoms preceding phthisis and compare them at length with those existent subsequently to the incidence of the phthisis; it will suffec to mention, in several cases, the new symptoms or modifications coming subsequently to phthisis, itself a complication of insrnity.

New symptoms after supervention of phthisis, or modifications of previous mental state :-

Many become more quiet during the phthisis, more manageable, less dominated by delusions than previously. One gets more depression, less delusion. One becones less hypochondriacal and less suicidal, but, on the other hand, apathetic, and makes ridiculous, childish, trivial, inept statements.

As more marked new symptoms following phthisis occurring in chronic insanity, one gets the delusion that his food is bad, that he is ill-treated or improperly dealt with ; and has perversions of smell, and taste.

Another takes the new delusion as to poison being in his medicine, and, more frequently than before, has emotional depression and clelusion as to hostile and injurious intentions and acts of those about him.

Another, after phthisis, takes delusions that he is annoyed by bad women; that women worrs him, take his blood, force bim to dirty himself, give him pain in the heart and cliest disease, afflict him by the Disine power; also that he will die a martyr to the creed, and is "Israel of God."

In one, whose monomania had been of a mingled expansire and persecutory type, after phthisis the expansire symptoms fell completely into the background. The persecntory delusions and their associated illusions, hallucinations, and other sensory perversions, concerned chiefly the imaginary lizards which were put on him and ate him, and the animals which toucled him. Visual, tactile, and visceral hallucinations and illusions existed, and so did the delnsions of being "haunted and enchanted."

In a case with the same symptoms as the last before phthisis was marked, the expansive delusions receded entirely from the foreground after the inroads of pulmonary disease, and there were increase aud augmented influence on the acts antl denteanonr of the patient of delusions as to malpraxis and evil workings exerted against him, and increase of the dclusions of injurious influences, annoyance, and bostility, which largely replaced the exalted ones.

In another case the new symptoms were that "the angels tried to strangle him at night," thereby"causing his cervical strumous adenitis and its swelling, pain, and discomfort ; and that prostitutes importuned him nightly.

Another, for a time sad and freor from delusions than before plathisis, then intensely irritable; the old delucions of persecution, the liallucinations related thereto, more active than ever. And now came refusal of food and medicinc.

Differently from what had previously been, the delusions of injury, after phthisis had supervened in one case, referred chiefly to ill effects of imaginary applications of electricity to him.

That the other patients are in the asylum because he is bere, and that everything he swallows brings fresli jatients in, was the chief new feature in one case.
a London Hospital Reports, vol. ili; I ancel. September 21st, 1887: Lettsomian Lealures Bratish Medical foumal, January 23ind. L8s7. page 150: Iancet, January


In two cases 1 noticed the idea on the part of the patient that the had been an enormons length of time muder care and was humbreds of years old.
Uf the modification occurring in stuporoso cases this is an ex-ample:- The suhject of mental stupor, and dying phthisical, begins to speak ngrin. What ho says refers to adverse influences operating acrainst lim, nul he speaks of "twenty evil spirits coming to him in the night," and of the other patients being derils who torture him. Ile speaks of injury, asks to be put out of his misery, writes that his brother came drunk (not so) to see him, and advises the latter " not to come in a coftin, as these are dangerous places." Finally, he takes the clelusions that the attendants punish, persecute, and deprive him of strength; and, though prostrate, wishes to get up and be about.
Time fails me to sueak, as I had hoped to do, of acute tuberculosis and of tubercular meningitis occurring in the insane; of the latency of phthisis in many of them; and of the alternations of phthisis and insanity. Nor can 1 bring before you, as 1 intended to do, the salient therapeutic points relating to numerons cases of cure and of prolonged arrest and vast improvement of phthisis in the insane; nor the temperature charts in my possession illustruting the effect of antifebrin therein. Nor is there space for a summary of scattered contributions in medical literature bearing on the subjects of these lectures. It remains only that I thank you for your presence here, and the courtesy shown to me.

## SURGICAL MEMORANDA.

## ON゙ COMFORTABLE ARTIFICLAL LEGS.

1 Have often luring years past intended to send a note to the lourasal upon an important detail in the construction and comfort of artificial legs, and my intention was strengthened by the illustration and adrocacy by Mr. Barwell of what is called his modified Beaufort leg in the Journal of January 10th, 1885. This leg, and others that I have seen, are secured by straps that tightly encircle the thigh, and quickly cause wasting of the soft parts around the femur, to the great discomfort of the patient.

Some twelve years or more I made use of Thomas's knee-splint, with or without a boot attached to the lower end, as a comfortable, durable, and light form of stiff artificial leg, that can he procured for fram ten to twenty shillings. The patient sits upon the perineal edge of the padded rins, and the unconstricted thigh fattens on the amputated side equally with that on the other.
Mr. Joscph Critchley, 88, Upper Pitt Street, Liverpool, has since adapted to his artificial legs, for use after amputation above, through, or below the knee, the padded ring of rod-iron exactly as used for the upper end of Thomas's knee-splints. The advantage of this is incalculable, and many working men have thrown away the artificial leg of ordinary pattern, presented to them by railway companies or by private subscription, in favour of a leg made by Critchley, purchased at the patient's own cost, simply because the constricting thigh attachment of the former cansorl intolerable discomfort in wasting, that entirely disappeared on wearing the latter.

I glance at the illustration will explain the uppearance of this important improvement in the attach-
 onont and upper end of the legs, the practical walue of which can dau, 1h restooll lay those familiar with the use of Thomas's splints. cution om particulars I must refer the reader to Mr. Critchley's lunatic; thertisments and yrospectuses. Ilis cheapest artificial those as t quite so low in price as the one described by Mr. Barwhether the cy are . beyond all comparison superior in practical
utility, and are more comfortable and durable than many others. They are well known and highly approved hy the hospital surgeons of Lirerpool, for whose poorer deserving patients the cost is without diflieulty raised by private subscriptiou.
Critchley's best artificial legs, with springs and joints for knee and ankle, are superior in my opinion to the most exquisite articles of other make, by reason of their physiological and rational fituess, while far below them in cost.

Ru'shton Parier,
l'rofessor of Surgery in Uuiversity College, Liverpool.

## TOXIUOLOGICAL MEMORANDA.

POISONING BY BLLLADONNA AND ACONITE.
At 6.5 P.m. on February 10th, 1888 , 1 was called to a girl, aged 17, who had swallowed liniment instead of her medicinc. The liniment was composed of equal purts of aconite and belladoma liniment, of $B$. $P$. strength, prepared with methylated spirit. The patient was convalescing from a third attack of rhemmatic fever. Slue had a mitral systolic murmur, with slight accentuation of second sound orer the area of the pulmonary valres.
She took two tablespoonfuls of the mired liniment at 5.45 p.M. on the day in question. On my arrival at 6.15 the patient was delirious, the face and neck were flushed, and there were violent convulsive movements, principally of the muscles of the neek and upper limbs, though the lower limbs did not escape. I was informed that "slie had been sensible till within a few minutes of my arriral, and had been putting her fingers down her throat to make herself sick," and that "this had lad the desired effect." The vomit smelt strongly of spirit and camphor.
The pupils were widely dilated, and not influenced by light. The pulse was barely perceptible at the wrist. The heart's action was very turbulent and irregular, the beats being, as nearly as could be estimated, 300 per minute. The patient was throwing herself about so much that two people were required to hold her on the bed. The teeth were firmly clenched, and a gag had to be introduced before 30 grains of sulpbate of zinc in warm water (a good deal of which was lost) could he poured down her throat. Any stimulus, whether of tonch, light, or sound, seemed to aggrarate the convulsive movements. The breathing was deep, hurried, and becoming stertorous.
6.45 p.m. The pulse was imperceptible at the wrist. There were short periods of complete intermission of the convulsive movements, and these were accompanied by apnoa. The heart's action was not so turbulent, but still irregular, and the beats 240 per minute; the face and body getting more and more antemic; the tongue and throat were quite dry and gritty to the feel.
7.25 p.m. Heart suddenly stopped, and respiration continued only a few seconds. Hot Hannels to the heart and brandy and ether subcutaneously had been employed. In one attack of apnoea the breathing was set going by artificial respiration, but in the others it began again of its own accord. Artificial respiration and stimulation of the heart after its beats failed to be felt har no effect. The temperature was taken five minutes after cleath; but the thermometer registered $97^{\circ} \mathrm{F}^{\mathrm{F}}$., the point at which it stood when introducel. Rigor mortis quickly supervened and as rapidly passed off.
St. Albans.
Eustace II. Lipscomb, L.R.C.P.Lond.

## THERAPEUTIC MEMORANDA.

LOCAL APILICATION OF CALOMEL IN PHAGED FNA
I HAD a case of phagedienic ulceratiou of the under surface of the glans penis under my charge at the Station llospitul. Brighton, in Angust last, which defied the recognised treatments of this disease. I applied nitric acid in the most thorough manner on six different occasions during a period of eighteen days without success. I then applied pure carbolic acid, but the lisease again returncd. Constitutional treatment with opium was adopted throughout. For six days the patient sat in a hot water hip-bath on an average about four hours daily, without any appreciable effect on the course of the disease. The condition of the penis on the twenty-first day was as follows:-

A large ulcer existed, cavering the entire nnder surface of the glans, moulding it like the mouthpiece of a flute, and extonding to the reflected foreskin in the vicinity of the ulecr. A third of the glans had been destroyed. The surface of the ulcer was covered with a reddish grey sccretion, irregularly disposed, and
Uzually ei
ierced here and there by large red granulations. The edges were ugry and undermined.
P applied calomel powder on the twenty-first day of the disase, spreading it thickly, and pressing it well into the interstices f the ulcer. The calomel acted like magic; the uleer began to eal rapidly. Now and then a suspicious spot appeared, but it ras at once dissipated by a thorough application of the calomel. he patient made au excellent recovery, and was very pleased at ie result, for he believed he was going to lose the whole affair. could give him very little hope. I had used all the recognised those slow, creeping and the literature of the subjeet pointed those slow, creeping nlcerations as almost incurable, except by mputation, and then very often the disease returned in the
ump. I was tempted to use ealom iump. I was tempted to use calomel, as I have found it very seful in all forms of syphilitic ulceration.

## T. J. Gallwey, M.D., ésurgeon-Major M.S.

Newcastle, Jamaica.

## IDIOSYNCRASY TO ANTIPYRIN.

Somewhat similar case to that lately recorded by Dr. Sturge cently came under my notice. I administered to a lady on two
fferent occasions 8 grains of antipyrin for attacks of migraine fferent occasions 8 grains of antipyrin for attacks of migraine,
on each oceasion, very shortly after taking it, a tight feeling d on each oceasion, very shortly after taking it, a tight feeling
constriction was felt across the chest, with a burning sensaon in the pharynx. These symptoms were immediately followed isneezing, by intense suffusion of the eyes, and by quantities of ucus flowing from the nose, giving her all the appearances of tring a severe attack of coryza; there was also great irritation the larynx, causing severe fits of coughing, but unattended ith expectoration. After a quarter of an hour these uncomrtable symptoms gradually subsided. There was no urticaria. followed it up on each occasion with an equivalent dose of itifebrin ( 3 grains) which (with one repetition in the course of ( hour on the first occasiou, but which was not required on the cond) completely relieved the severe hemierania, as it has done subsequent trials without using antipyrin at all. It appears, erefore, that antifebrin may be used equally with antipyrin in
graine as in febrile conditions, and may replace it with adrange where the latter disagrees.
Orotava, Teneriffe.
II. Coupland Taylor, m.d.

## REPORTS

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## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF areat britain, ireland, and the colonies.

## WELLINGTON HOSPITAL, NEW ZEALAND.

CASE OF SUPRAPTBIC cXsTOTOMY.
Under the care of G. Gore Grllon, M.B., C.M., Hon. Visiting Surgeon.)
M., male, aged 35, labourer, formerly a seaman in the anch navy, was admitted July 26 th, 1887 , suffering from pain flesh very much the last two years, and had had trauble had urine for the last seven years.
In examination Dr. Gillon felt a stone at the neek of the dder, its size being estimated at over an inch and a half in th. Deep suprapubic palpation, under chloroform, discovered ird substance behind the pubes-this was evidently one end be stone, and it appeared to be fixed firmly in that position. I July 30th, 1887, Dr. Hassell giving chloroform, suprapubic was performed by Dr, Getersen, of Kiel, and Sir II. Thompa) was performed by Dr. Gillon, in the presence of Drs. Grace, ited by means of the fingers and seoop. The peritoneum was 1 er seen. Ten ounces of Thompson's fluid (hot) were used for the Ider, and ten ounces of hot water for the reetal bag. A mediumd Barnes's bag was used in the rectum. The stone was par y encysted in a pouch just behind the pubes, with its pong
vertical, and there was a little difficulty in extracting it. It vertical, and there was a little difficulty in extracting it. It ength being $2 \frac{1}{3}$ inches, and breadth $1 \frac{1}{3}$ inch. No stitches we placed in the bladder.
ext morving, owing to the tube having becoree blocked during
the night, it was found that the urine had forced its way round the tube and into the surrounding tissues. All the stitehes in the abdominal muscles and skin were immediately removed, and a large drainage-tube inserted. Iodoform was used freely, and elhareoal poultices applied. The bladder was washed out with Thompson's fluid, and one grain of opium given every four hours. The temperature was $99.4^{\circ}$. Two incisions were made in the abdominal wall, drainage-tubes were inserted, and brought out at the original wound.

August 12th. The wound looked unhealthy; the patient was turned on his face with pillows to support the chest, pelvis, and thighs, leaving a space underneath the wounds for a vessel to cateh the diseharges in. The wound was syringed out every three hours with carbolic lotion (1 to 30) from below. He felt much easier in the prone position.

August 15th. The prone position was maintained; he slept and ate with comfort. The urine came freely, and also much pus through the tubes.

On August 18 th he was turned on to his back again. There was still a copious discharge of pus and urine. The bladder was: Washed out through the penis with Thompson's fluid, and much flaky pus thus expelled from the bladder wound.

August 25th. The patient had a rigor. Two more incisions were made in the abdominal wall, and the patient again turned on his face.


On September 2nd urine came through the penis for the first time without the catheter, some still coming through the wound. The patient was turned on his back again.

September loth. The bladder was still washed out daily. Pus still in the urine. Urine came occasionally through the round, but generally through the penis. The temperature remained
about $100.6^{\circ}$. about $100.6^{\circ}$.

On September 19th another rigor occurred, the temperature rising to. $103.8^{\circ}$. The patient was again turned with his face downwards; there was increased discharge of pus from the tubes.
in the left iliac region.

On September 23rd the temperature was normal night and morning, and there was rery little discharge from the tubes. On October th the bladder-wound was quite healed. He got.up on Norember 9th, and walked about ius the ward. The urine was quite clear. and contained no pus and no albumen. He could hold his urine for six hours. A slight discharge from one of the old deep sinuses in the abdomen on the left side continued, but this had healed by November 29 th, and he was perfectly well, and. gaining tlesh rapidly.
Remares by Dr. Ghlion.-1. There was considerable cystitis present, due, I think, to the raw surface in the front of the blander where the stone was lodged.
2. The drainage-tube should be constantly seen to be clear the first twenty-four bours, and if blocked, removed, and a larger rigid tube inserted. The stitches should also be all taken out, and, if necessary, the patient kept in the prone position, as recommended by Treudelenburg and Schmitz.
3. The pus seemed to burrow its way beneath the muscular layers-in fact, at one time I could get my finger between the skin and muscular layers, and underneath that I could pass a soft probe, lying deeply on what scemed to be the transversalis fascia, up as far as the spine of the left ilium, and under the conjoined tendon.

Dundalk Dispeasary.-A retiring allowance of $£ 100 \mathrm{p} t \mathrm{r}$ annum has been granted to Dr. Brown, who filled the office of nedical officer to the Dundalk dispensary district for the long period of forty years.

A Library for thr Blind.-Sir Charles Lowther, Bart., desirous that the blind population of the East of London should have a library for themselves, has presented the trustees of the People: Palace with a large number of embossed English works (in all 345 volumes) in Dr. Moon's type for the blind, comprising, besides the Holy Scriptures, a large number of religious and secular works.?

## REPORTS OF SOCIETIES．

ROVAL MEDICAL AND CIIRURGICAL SOCIETY．<br>Tuesday，Manch 27 th， 1888.<br>Sir L：II．Sieveking，M．D．，President，in the Chaif．

1 Case of Lixtroversion of the Bladder Treated by Preliminary Division of the Sacro－Iliac Nymehondroses．－Mr．G．11．Maklse read a paper on this subject．The pationt wis a male child，aged 5 ． An attempte to raise a tlap after Thiersch＇s method had fuiled three years previously．On the second atmission a cicatrix on the left sido of the extroverted hadder marked the position of the unsuc－ cossful flap，and prevented any considernble shifting of the skin on that side．On Forember ：20th，1886，the sacro－iliac synchon－ droses were divided on each side，with the result of allowing ap－ proximation of the naterior superior iliac spines to the extent of one inch，with correspondiag diminution of the gap existing in the situation of the symphysis pubis．This gain was maintained by means of continuous extension．On Janunry 2ind，I887，an attompt was made to unite the opposite boundaries of the bladder， Which failed，presumably in great part，in consequence of the tension due to the old cicatrix．The bladder was then covered ly means of a single lateral Thiersch＇s flap at a later date，the ex－ posed surface laving been reduced in area from $3 \frac{1}{4} \mathrm{in}$ ．$\times 3 \frac{1}{4} \mathrm{in}$ ．to $1 \frac{1}{2} \mathrm{in} . \times I_{\frac{1}{3}} \mathrm{in}$ ．by the closure of the symphisial gap．The specinl features of the case were discussed，and some of the possible ob－ jections to the method were considered，the following advantages being claimed for it ：－l．Saving of time．In one of Trendelenberg＇s cases the whole procedure，excepting the closure of a small fistula， occupied eight weeks only．－．A perfect mucons lining to the new bladder，interrupted only by a median cicatrix，was attained． 3．Failure of the primary operation in no way prejudiced subse－ quent measures．4．Should primary union fail，much smaller flaps were needed thnn in the usual operations．5．The superficial area was not merely lessened，but a gradual hackward sinking of the bladder－wall accompanied the decrease in diameter．6．The last two points were of special importance in cases like the one re－ hated，where cicatrix interfered with the ready fashioning of flaps． 7．The closure of the symphisial gap offered a better support for itle abdominal viscera．－Mr．Thomas Smith had not operated on many cases of this kind，and，though he was glad that the new operation had been tried，was afraid that much good would not come of it．

A Case of Wound of the Femoral Artery and Tein；Traumatic Faricose Aneurysm；Ligature of both Artery and Tein：Recovery； with Remarks on the Treatment of Hounds of the Femoral Artery and Vein．－Mr．W．J．Walsumm read a paper on this subject． R．H．W．，aged 19 ，a medical student，received a punctured wound in the upper third of the left thigh．The profuse hæmorrhage that resulted was controlled by digital pressure and a firm bandage．On the following ifternoon an arterio－venous aneurysm was detected．Three days after，as the tumour was increasing，it wss explored．The femoral artery and vein in Hunter＇s canal were found wonnded，and were tied above and below at the in－ jured spot．The patient made au uninterrupted recovery．The question of the treatment of a wounded femoral artery and vein taneous ligature of the artery and vein．The author gave trelvo cases in which immedinte ligature was applied．In four，and probably iu five，gangrene occurred．It was submittcd，however， that，especially as concerned the superficial femoral vessels，the danger of gangrenc had been overrated．2．Continuous pressure without operation．Out of thirty－six cases so treated，thirty－five resulted in arterio－venous aneurysm．The dangers of treating this affection were commented on．The author concluded that pressure alone could not be recommended，and showed that pressure itself involved the danger of sloughing and secondary hemorrlange． 3 ． Temporary pressure in order to allow the collateral circulation to become estnblished before resorting to ligature．The danger of gnagrene after ligature was reduced to a minimum when the col－ Iateral circulation had become established．Grillo，of Naples，tied both yesaels in fiften cases for aneurysm without a single bad result．In twenty cases collecterl by the anthor，gangrencoccurred in five ouly，and in four of these five cases the gangrene was due to other causes．4．Lignture of the artery and application of pres－ sure to the rein．Cases at St．Bartholomew＇s Hospital were meu－ tioned in which the rein was pricked in tying the artery．No har n foll wat where the ligature was withdramn and the artery
tied higher up．＇But where the artery was tied at the same epot thrombosis mind blood－poisoning ensued．In all the hemorrhage from the vein ceased on tying the artery or on applying pressur to the vein．The author cousidered that in a wound of the artery and wein there was some risk in tying the artery above and below and leaving the vein untouched，or in trusting to pressure npon it and that such treatment should only be undertaken when thi wound in the rein was very small，and there was a rensouabl prospect of the external wound healing by the first intention ．The question of the lateral versus the circular ligature of veins， In four cases of wounds of large veins observed by the anthor，its use was successful，ns it was also in thirteen cases out of sixteen collected from other sources．The fatal cases occurred before the
days days of antiseptic surgery．The following conclusions were volved in a That when the femoral artery aud vein were in－ to apply pressure fured wound of the thigh，the safest course was case，in order to allow the collateral circulation to become case，in order to allor the collateral circulation to become estab－ of both the artery and vein．2．That immediate ligature（thends before the collateral channels hare had time to enlarge）of both the femornl artery and rein，and especially of the common femoral ressels，was linble to be attended with gangrene，although this risk was probably less than had generally been assumed．S．That ligature of both vessels when，in consequence of pressure，as of a tumour，the collateral circulation had become established，was attended with much less risk of gangrene．4．That．when the femoral artery and rein were wounded，ligature of the artery and pressure on this rein，if the wound of the latter vessel was s mere puncture，was a safe treatment，provided that the nature of being lept asedto and uniting by the first intention wouad when the wound in the vein Tas too large to permit of treatment by pressure，the walls might be safely nipped up and a ligature thrown around them without obliterating the calibre of the vessel；
but that this procedure should only case，when the procedure case，when the instention．6．That considering the grave risks of gan－
by the first grene that attend the sudden obliteration of the common femora veiu，the lateral ligature should in this sitmation，for all small and moderate－sized wounds that require immediate ligature，le the treatment adopted．－Mr．Julke congratulated the author on the
success of his case，and said that in regard to treatment it $\pi ⿰ ⿱ 丶 ㇀ ⿱ ㇒ 丶 幺 十$ very often difficult when hæmorrhage was great to diagnose whether the vein was injured as well as the artery．Ile had twice（in cases of cancer）been obliged to ligature both the iliac vessels at the same time，and in both cases the patients had sur－ wived a week or ten days，and the ligature had not been followed by gangrene or other bad result．He thought perhaps when both vessels were ligatured the risk of gangrene was less．Every case of arterio－venous aneurysm could not be treated in the sameway much must depend on the nature of the case．A maucame him to be treated for slight eczema of the foot，who for years had been treated with elastic bandage for an aneurysmal varix，and had been nble to follow his occupation ns a carpenter．
patient complained only of the eczema，and did not mention th varix，which Mr．Inulke discovered accidentally．＇Ie though varix sometimes followed bruises of vessels，as in cases of bulle passing between artery and rein，when there could be no hemor rhage at the time of accident．－Mr．Hanrison Conipps referred alen to difficulty of diagnosing when the rein was injured as well as
the artery．Ife thought that pressure ought always to tried first，and recommended the following method：Limb be firmly bandaged from bottom to top：round to left exposed；then firc－stick to be applied above， and below wound，and retained by narrow webbing at each end o
stick．Compresses over the stick，and a Liston＇s splint Many cnses had probnbly been cured by pressure trentwent teg had not been recorded．－Mr．Thomas Smrtry related a case of a boy treated by pressure，Who had recovered．－Mr．Pearce Goc＇l
mentioned a case of Mr．Lawson＇s which had under pressure treatment．He was operated on，and improniea tion found between artery and vein．The artery was tied，but th vein left alone，and complete recovery followed．lle thought tha
all surgeons who had tried pressure in wounds of the palmar nre all surgeons who had tried pressure in wounds of the palmar nre
were dissatisfied with the treatment，and would alway cut dom and tie bleeding points，and that arteries in all parts ought to treated in the same way．l＇ressure on vessels was probably dangerous as ligature．He prefersed immediate operation as
gature of blecding points.-Mr. WAIsHAM replied that the presare in his case was done while Mr. Cripps was looking on. His ceatment gare the patient the chance of recovering with pressure nly. In one case, snpposed to have been cared by pressure, an neurysm appeared after a sudden strain ten years later.

## CLINICAL SOCJETY OF LONDON. Fridar, Marct $23 n \mathrm{D}, 1888$.

W. II. Broadment, M.D., F.R.C.I', President, in the Cliair. IIyperpyrexia in Acute Rheumatism treated by Ice-Pack.-Dr. IILLAM M. Ond related this case. The patient was a man, aged 2 , a heavy heer drinker, who had contracted, three weeks before dmission to St. Thomas's Jospital, a sharp attack of acute benmatism, referred to exposure to cold. On admission he was nnd to have acute inflammation of many joints, marked signs pericarditjs, and slighter signs of endocarditis, with some Ilis temperature was $10^{\circ} .4^{\circ}$, the respirations were quickurine contained one-sixth of albumen and very little ued, the urine contained one-sixth of albumen and very little
hloride. Ile was slightly delirious. Two days later the delirium
ad increased to such a degree that it was necessary to remove him rom the large ward to a single-hedded ward. He was very iolent, had hallncinations and delnsions, and was with difficulty ept in bed. The delirium strongly suggested the existence of yperpyrexia, but the temperature was only 101.4․ After this the emperature rose steadily, till at 4 A.M. on the morning of the ourth day from admission it reached $108.4^{\circ}$, while the patient had allen into a state of restless unconscionsness, with tremors. The sepack was now applied, and was maintained for four hours, at he end of which the temperature was $100^{\circ}$, the patient had recoered consciousness and spoke sensibly, and the pulse had fallen rom 160 to 100 . During the next few days the temperature, after first rise to $103.4^{\circ}$, kept between $100^{\circ}$ and $101^{\circ}$. The signs of ericarditis disappeared, but those of endocarditis remained. The oint affection had greatly decreased, and the albumen had disapeared from the urine. On the seventh day after admission temerature again began to rise, and at 2 A.M. on the morning of the ighth day was $105.4^{\circ}$, the patient laving passed through delirium ato restless unconsciousness. The ice-pack was again applied. iy 5 A.m. the temperature was $100^{\circ}$, and the patient had recovered onsciousness. After this the patient made a steady recovery, and ins discharged six weoks after admission in good general health, nd without sign of lung or heart disease. The treatment was fectively carried out by Dr. Ord's house-physicians, Dr. Wheaton nd Mr. Macevoy. Dr. Ord brought the case before the Clinical ociety, not because it presented anything new or original, but rith the intention of emphasising the value of cold applications ) the surface of the body in lyyperpyrexia. Ile arged that, notrithstanding tle acknowledged value of the various antipyretic rugs in pyrexia, their use in hyperpyrexia was comparatively nsafe, large and frequent doses being required, wherely toxic ymptoms were often produced. IIe admitted that the bath entment was not of aniversal applicability, but pointed out that - involved no poisoning, and had a remarkable effect, not only in aducing temperature, but in restoring the nervous system to a atural condition. The rapid disappearance of inflammation in te thorncic viscera and joints was also noteworthy.
T'wo Cases of Myperpyrexia Suecessfully Treated by Cold.-Dr. -J. Arkie read notes of these cases. Case I.: A.W.G., aged 2i, Larrial, railway clerk, was admitted into University College Hosital, September 21 st, 1887 , with an ordinary attack of rheumatism. is previous health and habits were good. He liad syphilis nine aars ago. Ilis motlier died after an attack of acute rhemmatism. is sister was rlenmatic. On admission he was treated with rge doses of salicylate of soda. The night after admission he came very delirious, the joint pain disappeared, the skin became ot and burning, and the temperature was up to $110.4^{\circ}$. Ile was eated with ict-cold batli for forty minutes. The temperatnre fell $97^{\circ}$, but ran up four hours later to $107.2^{\circ}$, while lie was taking atifebrin. The bath was repeated for twenty-fire minntes. The mpernture fell again, and showed no further tendency to run up :cessively. No visceral lesion followed. The patient was ultiately discharged cured.-Case II.: E.C., aged 30, a married oman, lad rheumatic fever eighteen years ago, bnt no complicaons. There was no family history of rheumatism. Present ill18s: She had been ailing with joint pain for a week before she d been seen by a medical man, The temperature at midday on tober 9th, 1857 , was $102.5^{\circ}$; at 10.30 the same night it was $110.4^{\circ}$. e patient was violent and delirions. No bath being available,
she was treated with ice-cold packs. The temperature fell one honr later to $101^{\circ}$, and for the next twenty-four hours areraged $103^{\circ}$. It then fell to normal under salol and salicylate of soda. The patient was discharged well on October 57th, 1887. She had been readmitted with another attack of acnte rheumatism and pericarditis, hut was now convalescing. Remarks: These cases showed the value of the cold bath or pack as antipyretics. Both belonged to the type in which the temperature, after maintaining for one or two days a moderate level, suddenly rises to an excessive height. In both cases the temperature was very tractable, having a little tendency to run up repeatedly. The cases threw no light on the etiology: one was a male and the other a female; one a first attack and the other a second; both seemed mild nncomplicated attacks. In both there was cessation of sweating, and in one disappearance of articular pain. In both the delirium accompanied the hyperpyrexia, and was of the same violent character. Both patients liad marked retraction of the head, and one severe or persistent ouisthotonos. Dr. Mictagan thought all the cases formed a valuable addition to the literature of an important and somewlat obscure subject. In the way of criticism he had nothing to say; he would only homologate in its entirety what had been stated by both gentlemen, that the salicyl componnds, all potent in rhcumatic pyrexia, were of no use in rheumatic hyperpyrexia. In the treatment of that condition the external application of cold was the only remedy on which one could rely, and it was waste of valuable time to hare recourse to any other. He would try to give some indication as to why it was that a remedy which rapidly cured rheumatic pyrexia was of no service in rheumatic hyperpyrexia, and that the one agency on which one depended in rheumatic hyperpyrexia one never thought of applying in rhenmatic pyrexia. Rheumatic pyrexia and rhenmatic hyperpyrexia were two totally different morbid conditions, essentially distinct in their pathogenesis. It was because of this that their treatment was so essentially different, and that what cured the one was of no arail in the other. Rheumatic pyrexia was of metabolic origin ; rheumatic hyperpyrexis of neurotic origin. In the one the fever was due to increased metabolism and consequent increased production of heat; in the other the rise of temperature resulted from paralysis of heat inbibition. As the subject was not before the Society, he did not stay to consider how rhenmatic pyrexia was produced, or how the salicyl compounds cured it. Hyperpyrexia was not a disease per se, but an incident occurring in tho course of rarious and different ailments. It might occur in any of the specific ferers. How was it induced. The fever in these ailments was of metabolic origin, due to increased production of heat: normally heat prodnction was prevented from passing due bounds by the heat-inhibiting function. Increased prodnction of heat necessarily gare rise to stimulation of this function. Prolonged stimulation (as in the tetanising of a muscle) might lead to exhaustion of function. Stimulation of the inhibitory function might in any fever lead to fatigue, and even paralysis of that fnnction, and consequent rapid rise of temperature. Rhenmatic fever was the one in which this was most likely to occar, because in that fever much metabolism, the chief source of heat production, was more increased than in any other; as a result, hent production was greater, heat inhibition more strained, and therefore more likely to be paralysed. But hyperpyrexia did not consist solely in excessive rise of temperature any more than pyrexia consisted in increased body heat. That a very high temperature did not neccssarily cause nervous symptoms was evidenced by what one saw in relapsing fever, in which it was not uncommon to have a temperature of $106^{\circ}, 105^{\circ}$, or even $108^{\circ}$ without the patient presenting any other symptorn hy which his case conld be distinguished from that of the man in the next bed, whose temperaturo might be only $102^{\circ}$ or $103^{\circ}$. The condition to which was applied the term hyperpyrexia essentially consisted in paralysis of inhibition of the functions of organic life, heat inhibition being only one of them. Ilow did cold produce its curatire action in this condition? Not by lowering the temperature, for to say that would be equiralent to saying that the high temperature was the cause of the disturbance. Moreorer, cold actually removed the whole morbid condition and cured the patient. It could not do this simply by a refrigerating action. The pliysiological effect of long exposire to cold was to produce a sense of drowsiness and a tendency to sleep. which, if not resisted, gradually deepened into fatal coma. Cold was evidently a powerful ageney, experiencing a sedative action so great that it might prove fatal by coma; but, like other sedatives, it might
be dised in modoration, and have its queting action turned to good nccount, lle would illustrate what he, believod to be its mode of action in byperpyrexia by n relecence to the action of digitalis in heart disease. Stimulation by the cardiac intabitory nerve the varus, slowed the leart's actiou. When, as often happened in mitrul disease, the heart's action was excited and disturbed, ane did not try to allay the disturbnnce by soothing the oxcito-notor nerve of the henrt, but by giving digitalis, and stinulating the inhibitary nerve. To stimulate inhibition was the physiological and scientifte way of allaying excessive functional activity.. It was thus that cold acted inhyperpyrexia. That condition essentially consisted in paralysis of inhibition. Colel stimnlated inhibition and cured the patient. Its mode of application was a matter of detail and convenience. Ice or cold water were tho two means of applying it. Care must only be taken that inhibition was not over stimulated, for complete inlibition of organic life meant cleath. Cold acted in hyperpyrexia not hy lowering the temperature, but by enusing such peripheral excitation of the cutanenus nerves as resulted in stimulation of the inhibiting centres. It was only by recognising that rheumatic pyrexia and rheumatic hyperpyrexia were different morbid conditions, totally distinct in their pathogenesis, that one could explain wly it was that the treatment suitable in the one was inapplicable in the other. -Dr. Coupland thought that although Dr. Maclagan had clearly differentiated between pyrexia and lyperpyrexia, they were both equally due to disturbance of the nervous system. and that cold was equally a means of reducing pyrexia as of lowering hrperpsrexia. Dr. MacAlister's argument in his lectures on fever was based on the neurotic origin of fever, of prrexia as of hyperpyrexia. The cases related were all good examples of the benefit produced by the treatment by cold in hyperpyrexia. Dr. Ord's pationt had well-marked nervous disturbance hefore the hyperpyrexia set in, and this, fortunately, was often the case: so that. by wntching the patient in whom these symptoms arose, and taking his temperature, one migint anticipato and prevent the hyperpyrexia, A committee appointed by the Society some years since had found that the cases had markerl prodromata, the chief of which were in the nerrous system. If, when the temperature rose to $105^{\circ}$, the' bath was always used, the patient would probably be cured. In Dr. Arkle's patients there were no prodomata mentioned. Dr. H. Thompson lad years ago advised to look ahead in these casns, and treat them carefully, so as to nvoid the sad fatality which awaited the patients umless treatment was prompt.-The Prasident thought the eases were all of extreme interest, but the fact that in Dr. Ord's case there was cerebral disturbance before the hyperpyrexia was noted was of far-reaching importance. Whaterer the explanation, it was clear that the delirium and subsequent coma were not altogether due to the rise of tomperature. The nervous element in the case came first; the disturbance was probably of the whole nerrons system not of the inbibitory heat centre. In failure on the part of the nervous system, the tronblo seemed to commence. In relapsing ferer, with a temperature of $107^{\circ}$, the patient was sometimes furiously delirious. In two cases he had seen the peculiar delirimm mentioned by Dr. Ord; no high temperature followed in either case; both patients were under the influence of salicylate of sorda, and both proved fatal. Possilly the cold treatment might have nverted the fatal result. Two factors were at work in the cold treatment; one was the abstraction of heat; the other was that that treatment enabled the mervaus system to reassert its control over the body, nud thus led to the enre of the patient.-I)r. Bissl. Morrson cited the ease of an infant, 14 days old, whose pulse, consequent on over-feeding, fell to 30 per minute, the akin hecoming cold. A drachm of tincture of belladomna was injecterl into the rectum, whereupon the pulse rose to 180 and the temperature to $130^{\circ}$. In fact, the child's life appeared to be in danger. Iee was applied, and the temperature cooled down-to such an extent, indeed, that the heart stopped for a few beats. The child, howerer, recovered with artifieial respiration. IJe thonght the case inight serve to illustrate the action of cold.Dr. Angzl Money remarked that in Dr. Arkle'a first case, when tho man recovered from the coma, his first remark was "Isn't this marvellous?" IJe thought the use of this expression well illustrated Dr. IJughlings Jackon's theory that the eentre in thn brain, which was well used (for this was an ordinary expression with that patient) was the first to act.-Dr. Bartow had treatod $n$ ease of ncute rlypmatism in a clelicate woman wha could not he remosed from her bed to a bath when it was neces-
sary to apply the cold. The jatient was stripped, except at the waist, and the bed tipped nt the head so that cold water which was poured over her ran awny at the foot. The water was used several times, and she was rubbed dry after each application. This simple procedure reduced the temperature from $107^{\circ}$ to $100^{\circ}$. This was a good substitute for a cold bath where the latter could not be applied. The constant application of cold in slight pyrexia produced depression and rigor, and made a patient look quite blue. It was really a powerful remedy. "Ie cited also the casc of a barman, with furious delirium at the beginning of pureumonia, whose temperature was lowered by similar treatment.- Dr. Ond remarked that Dr. Maclagan's theory of hyperpyrexia being due to paralysis of the centres of organic life, of which heat was one, was partly corroborated by Dr. Buzzard's vierrs that rheumatic fever miglit be due to an affection of the cerebellum, in which the heat-jnhibition centre seemed to be situated. He (the speaker) also thought that the effect of cold was not simply mechanical, a.s was eridenced by some experiments performed upon cadarera. Haring heated them to a height in warm baths, he treated them by a cold bath without reducing the temperature in anything like the proportion to which a cold lonth reduced the temperature of a hyperpyrexial patient. His patient, who was before delirious became quite clear, and slept: his pleurisy disappeared, and the peri- and endocarditis both thenceforward diminished. Hyperpytexia was a fever out of proportion to the local symptoms. For its treatment one must lonk to prevention in cases of rheumatic fever; and if the temperature rose over $105^{\circ}$ he had recourse to the cold treatment. It was said that pericarditis was usually necompanied by delirium. This he had not found in his cases; but it was a sign of rising temperature. He thought a graduateal
bath was preferable to the ice-pack.-Dr. ArkLE said that possibly in his second case prodromal symptoms were present before the hyperpyrexia. In the first case the patient was a little deaf and light-headed-symptoms that frequently occurred when the salicylate treatment was pushed. That man had taken 240 graius in the day preceding his hyperpyrexial symptoms.

Gall-stones exciting Sirppuration: Operation: Recovery.-Mr. Pearce Gould described this case. The patient was a gentleman, iged 38 , who had symptoms of gall-stones two years befare he consulted Mr. Gould for an abscess in the abdominal wall at the junction of the epigastrium and right hypochondrinm. The abscess was opened, and 140 small biliary calculi were renored together with pus. The sinus that was left was long in healing. No bile was discharged through it at any time. Many of the ealculi showed eridence of spontaneous fracture of a larger calculus. Mr. Gould mentioned that he had found reference to thirty-five other cases of gall-stones making their way through the abolominal wall, but this was the only one in which the diagnosis nppeared to haro been made prior to the abseess hursting. The abscesses had pointed at various'places in the abdominal wall, most often abore and to the right of the umbilicus. As a rule no bile had escaped with the stones, and these latter had generally heen numerous. There appeared to be lacking any satisfactor,
explanation of the very different results of biliary calculi in thferent cases.-Dr. Onn said that the disintegration of urinary calculi had much interested hin, but as to that of biliary caleuli he knew nothing. The disintegration of urinary calculi might be the result of either of many different causes: the slirinkage of the outer layer, or of the inner portion, in consequence of the dif ferent composition of the layers. Biliary calculi were composed of a mixture of cholesterine and bilary pigment, and the bile might act on one or other of these constituents alone.-Dr. Mac LaGAN mentioned the case of a woman who died from peritonitis, and in whom post morten 180 small caleuli were found in the peri wenty or thirty were disintegrated. thought that possibly the squeゃzing of small calculi against on it beame distended, might produce disintegration.-The l'nespDRNT thought the explanation offered by Dr. Ord seemed rery reasonable. Calculi being formed of heterogenpous materials, and then exposed in a medium of a different chnracter from that in which they were originally formerl, would be liable to suffer dis integration. He remarked that unless the cystic duct were closed no abscess would form oxternally--Mr. (lovi, thought it remarn able that, considering the variations to which calculi were expmspe in the intestine, more of them were not found broken ul
Dr. Jnelagan's explanation, he thorght that. if it were enrrect, one would expect to find after biliary spasm that the stones roided were broken up by the contracting anll-bladiur and durta, but
uch stones were not found disintegrated. He thonght that the
harp angles of these disintegrated calculi might, perlapa, have harp angles of these disintegrated ealculi might, perhaja, have
letermined the abscess in lis case. The speelmens in the tarious sondon museums were of facetted stones, quite unlike the fragaents he had handed ronnd.

## MEDICAL SOCIETY OF LONDON. <br> MONDAT, MARCH $\because 6 T H, 1888$.

. Knowshey Tirornton, A.B., C.M., Vice-President, in the Chair. Ctintgal Evening.
Lupus of the Mouth, Pharynx, and Larynix.-Dr. Onwnshowed girl, aged 21, who came to him in 1886 with lupus of the nose. here was theu no disease of pharynx or larynx, but she returned a March, ISS8, with lupus of the gums and soft palate, pharymx, nd larynx. In this case the lupus had spread throngh the nose o the palate by lymphatic ehannels.-Mr. Lesxox Browne said e had recorded elevem eases of lnpus of the larynx. He had never cen lupus of the posterior wall of the pharynx, and he did not gree with Dr. Orwin's riew as to the path followed by the lupus. distinguishing point between lupus and tertiary syphilis was hat the latter often attacked the palate, both-soft and hard, by xtension from the nasal mucous membrane, whereas lupus Iwrys extended by the buccal mucous membrane.-Dr. Ormin, in eply, said that there ras no history of syphilis.
Injury to Lower Epiphysis of Ulna.-Mr. EDMUND OwEN howed a girl, aged 18, who, sixteen years previonsly, had been nder his care at St. Mary's Hospital for an incised wound of e left wrist. The blade liad passed through the ulna, just bore its articnlation with the lesser sigmoid cavity ; that joint ras not opened, but the lesser sigmoid carity was sliced from the adius, and the wrist-joint was laid widely open. The tendon of flexor carpi ulnarls, the ulnar nerve and artery, and some of adjacent flexor tendons were cleanly severed; circulation and utaneous sensibility were ultimately restored along the inner side $f$ the hand, and thougl inflammation attacked the surrounding issues and an abseess formed on the back of the hand, the power $f$ movement became in due course as free as ever. Indeed, the hild was left-handed; as she grew up slye easily used her knife in tat hand; ultimately she became a useful domestic servant. But le ulna lad ceased to be developed, ant hent the growing radius fer to its side. In September, 1887, the girl fell wpon the inner de of the damaged wrist, and immediately afterwards (aceording her account) sensation became diminished along the inner side ? the hand, and the member became useless. Ilow far the case ight be influenced by hysteria Mr. Owen conld not say, but it as evident that tlae ball of the little finger and the weh of the lumb were wasted; probably the nerre was injured. The elief terest consisted in the apparent overgrowth of the radins; actuly, however, that bone was half an inch sloorter than the opposite le, whilst it was bowed in Its lower two-thirds towards the ulna, hich latter bone was three inches and a half shorter than its llow on the right side. The ease showed how largely the ulna pendel on the integrity of its lower extremity for growth in ngth. The upper epijhysis was of comparatively little importnee in that respect. Reference was briefly made to cases reported
Mr. Augistus Clay and Mr. Walter Brown, of Leeds. In ese eases the radins had bieen injured, put the deformity had been so great because the radius was less dependent for growth on the lower epiphysis than was the ulna. lle then de some remarks as to the best method of treatment.Wh. Rosp: alluded to the case of a boy with frseture of the above the intermal malleolus. The boy subsequently returned the hospital with inarked deformity in consequence of the owth of the fibula and the arrest of growth of the tibia. He repred an inch and a half of the fibula, and thus restored the mmetry of the limb-Dr. DATTES-COLLES spoke of a case of .etured tihia involving the epiphysis, which gave rise to serious formity, which he treated ju muel the same way as Mr. Rose d done.-Mr. Walter l'rr: said that lee did not think the symums wern due to damage of the ulnar nerve at the dute of neciat, as the wasting had been far too rapid.-Mr. Kisowsley orntos asled whether it was not advisable in such eases to ait the full development of the bones.
Paralysis of the Ocular Muscles.-Dr. S. West showed a moman, 1 dag, sudicted at one time to arinking, who had suffered from 1 idache. This returned sbout two months before admission, efly at night. It rapidly got worse, and wns most marked in , left temporal region. On getting up one morning five weeks
ago sle saw double, and the eyelid dropped a few days later. No other symptoms were noticed, no romiting nor giddiness. Fyesight began to fail on March 19 th, and she could thon hardly see at all. No changes were visible on examination of the disc. She had lost flesh, but had pieked np more recently. There was no' history of gout, rheumatism, or syphilis. There was complete paralysis of all the recti and the inferior oblique, and ptosic. No other nerves were affected.

Gunsinot Injury of Iright Knee-Joint.-Mr. Wr. Thoses related a case of gunshot injury of the right linee treated by opening ap the joint, and eleansing with solutions of carbolic acid and sublimate. A full report of this case will shortly be published.

Trephining for Hiddle Menangeal Homorrhage- Dlr. Divies Colley showed a man who had sustained an injury to the head from a fall. He lost eonsciousness, and on recovery there was slight paralysis of the left arm, and great bruising over the temporal region on the right side. The paralysis afterwards became complete, and extended to the left side of the face. He passed his urine and motions involuntarily, and his temperature went down to $97^{\circ}$. On the eleventh day Mr. Daries-Colley trephined, and found a clot three inches long by seven-eighths of an inch thick, which he scooped away, washing out the cavity. The patient rapidly and completely recovered. Mr. Daries-C'alley observed that very few such cases were on record.

Charcot's Disease of the Shoulder-Joint.-Dr. DeEvor showed a man with symptoms of ataxia who had suddenly developed symptoms of Charcot's disease of the left shoulder-joint. No history of previous injury ; no pain.

Obliterative Arteritis fiom Crutch Pressure.- Ir. Wainer Ire showed a man who had been obliged to use a crutch since the age of 8 . A year ago he had noticed some loss of sensation in lis fingers, and ultimately the artery from the axilla downwards had solidified. The cireulation had since returned to some slight extent.-Mr. HADDEN said that he had seen three cases resembling the above, and thonght that there wias a class of eases in which plastic effusion into the arteries gave rise to thrombosis.

Thiersch-Goulds Operation for Remoral of Penis.--Dr. Pirncell showed a man, aged 45 , who had been operated on several times for cancer of penis, the first time in March. 1836, and the last in January last. He had operated according to the method described by Mr. Gould. The testicles were not removed, and the patient had complete control orer his bladder. He was now comparatively well. The second ease was not well enough to leave the hospital. Ile was operated upon on February 2lst last. IIa was 68 years of age. Epithelioma of penis began last year, but no glands were enlarged.

Carcinoma en Cuirasse.-Mr. Morgan showed a woman, aged 52 , who presented a typical exanple of the disease named and described by Velpean as carcinoma en cuirasse. Last summer induration and swelling of the right namma began, and was followed very shortly by a similar condition in the opposito breast, and this hy hardness of the skin of the chest over the whole surface above and between the mamma. When sent to the hospital in October, there was a hard odematous condition of the whole of the skiu of the chest. whicll Was red and even on the surface, presenting almost perfect symmetry, and só hard as to obscnre the exact condition of the mammac. The skin of the axillæ were little if at all enlarged. Since October. little change in this condition had taken place, except some ulceration of the skin around the margin of the right hreast. Both nipples wera surrounded by thick crusts of pigmented epithelium.

## ROYAL ACADEMY OF MEDICINE IN IRELAND

Section of Menicise.

## Frinat, March Oth, 188.

JAMES LittLe, M.D., I'resident, in the Chair.
Case of Ineumothorar.-Dr. Waiter G. Surrer exhiluted a patient suffering from pneumothorax.

Etiology and Classification of the Amemia of Puberty.-Dr. K. MacDowel. Cosgrave read a paper, which is mublished in itis day's Jotrnal, p. 688.-Mr. Cox said his treatment was, fires or all. absolute rest in bed for a fortnight, then purgation by sulphate of magnesium, then iron. Ite combined the iron with tincture of digitalis or of nux romiea, and sometimes used a combination containing ferrum redactum in - -grain doses, with $\}^{3}$-grain of the arseniate of iron.-Dr. C. J. Nixos said he could not understand any distinction between the anamia of puberty and chlonosis. Why not as well speak of the ansmia of dentition or of diarrhea?

The object was to determine the origin of anæmia-whether it was essential or symptomatic. The essential forms were of three claseses: First, the constitutional, which had its origin from birth; that was a form of which they knew nothing, whet her as regards its being due to a defieieucy in the manufacture of the elements of blood, or to an increased amount of the destruction of those elements. The second clnss was the nnemia of puberty, ardinarily spokeu of as chlorosis. The third class was the form known under the name of peraicious anemia, the certainty of the uxisteace of which they only arrived at because the patient died. When the pathological principles as to the basis came to be investigated, they recognised all forms of anemia as standing on the same level with regurd to the condition of the blood-cells, in simple anemia as in cases of chlorosis, or in the most profound forms of pernicious anremia. Chlorosis applied not only to the female, when specinl calls were made on the vascular system in puberty, but to the male also. The reason the female was more subject to the disease was because the red blood-cells were normally fewer in number; and certainly, from the condition of the geuerative system-ovulntion and menstruation-there was more disturbance in the blood-forming process in the female thnn in the male.-Dr. Wriohr said the only way to cure the patient was to recommend her, the moment she felt her health fail, to put herself under treatment and commence taking iron. Although Sir Andrew Clark had recently claimed the credit of being the first to indicate frecal accumulations ns a cause of the disease, he well rensembered that the late Mr. Richardson taught his class yenrs ayo that he could cure as many cases by using aloes ns by using iron-Mr. Foy mentioned a case of fire daughters and two sons, the offspring of an early marringe, of whom the girls became anemic; the boys escaped.-Dr. J. W. Moore snid that season exercised an influence on the occurrence of antemia or chlorosis in young adult life: for instance, there was a greater prevalence of the disease in winter than in summer. - The Presinest thonght it would be a very dangerous thing to make a diagnosis of anemia in any case where there was loss of weight accompanying it. Where he saw n girl who became hreathless and lad palpitation on exertion and had got white, if she did not increase in weight, he would fear he had to deal with tuberculosis and not with anemia. There were cnses where ancmia had been set going by shock; for instance, that of a young lady who accidentally killed her father by giving him a poisonous liniment. Then there were affairs of the heart and other exciting causes, suggesting that anæmin was due to some influence on the nervous system. -Dr. Coscrave replied.
Gastric Fipilepsy--Dr. A. W. Foot made a communication on gastric epilepsy. A lad aged 17 had a series of epileptic attacks for two ycars, induced by eating rich and judigestible things, or ardinary food in a rapid manner. His attacks occurred nt meals and in the dining-room almost exclusively. 1te was seen by Dr. Brown-Sequard, and, nfter persevering in his treatment for five years, the seizures ceased to occur.-Dr. Finsw mentioned the case of a young student who, crossing the Channel, had a supper of beefsteak about 3 o'clock in the morning on board the steamer. After breakfast he becnme the victim of a very severe attnck of epilepsy. The cause proved to be the undigested beefsteak, and there was no return of the disease. He lind experience of another case of a young man who had, when a child, suffered from scarlet feyer. That youth, whenever the harge bowel became loaded with animal food, became liahle to epileptic scizures.-Dr. C. J. Nixan said Dr. Foot's case was one of extreme interest, in view of the important fact that an eprileptic of five yenrs had got completely well. It was not sufficient to direct attention to the peripheral irritation alone. A healthy person would not get an attaek from a mass of undigested food in the bowels. There rom ir in peculiar condition of the cortex of the brain which, danger was thant, once it was developed, it was apt to continue Mr. Cox made some remarks, and the I'Rrsinkst said there were two fnctors at work. Besides the irritation, there was the molite excitable condition of some portion of the brain, which made it liable to disclarge itself on slight provocation. Some twenty years ago he saw a boy. nged 8 or 9 , whose case left a great impression on his mind. The boy had had a succession of epileptic zeizures. His father and mother were first cousins, and he had five unclea and aunts conlirmed epileptics. Still it occurred to him that the boy might have worms. Beans were taken that dislodged a rast quantity of round worms. From that time to the present the patieut, who was now thirty years of age, had never had
a recurrence of the epileptic scizure, If the worms had been nllowed to remain some time longer, until the epileptic habit had been established, he would have leen, like his uncles and aunts, a confirmed epileptic.-Dr. Foot replied.

## leeds aid west riding medico-cilirurgical SOCIETY. <br> Friday, March 16th, 1888.

J. Sfottiswoode Cameron, M.D., Vice-Y'resident, in the Chair.

Cystic Kidney.-Dr. Curf slowed a kidney in an ndranced state of cystic degencration; weight, 10 ozs . The other kidney weighed $7^{\frac{1}{2}}$ ozs., being healthy.
Abscess of Brain.- This was shown for Dr. Endsson. There was a large collection of very foetid pus in the sulstance of the right hemisphere. There was no bone or tubercular disense discovereu. Specimens.-Mr. JEssor showed the following. 1. Lipoma nasi.
Adenoid tumour of kidney (successful nephrectomy). 3. Sarcoma 2. Adenoid tumour of kidney (successful nephrectomy). 3. Sarcoma
of femur (amputation). 4. Large, round-celled, alveolar sarcona, from popliteal space. 5. Hematoma of arm.-Dr. Al.LAx showed: 1. Primary cancer of bladder. The symptoms had existed for six months. Z. Spleen, greatly enlarged, from case of leucocythremia. The intestiue, also, was shown. The latter showed pearly nodules, and the mesenteric glands were enlarged, but there were no nodules in the spleen. 3. Cuncer of stomach and liver. 4. Yiscera from a syphilitic infant. 5. A collection of gall-stones. 6. Twin chick ens, united by the thorax.
Knee-joint. - Mr. Teale showed a knee-joint from a man, who on two occasions had received injury by strain or wrench followed by pain and swelling. A loose body
felt, and the joint was opened for its removal. felt, and the joint was opened for its removal. It was
then found that besides partial detachment and then found that besides partual detachment and great thickening of the synovial fringes, there was destruction of the carti-
lage on the inner side, and the surface of the bone had been worn into a deep groove, with a slarp edge, as if a piece had been removed by two saw cuts at right angles to each other. Several loose pieces of bone and cartilage were also removed. In a second operation the knee-joint was excised, but the patient died from
acute septicamia. Mr. Teale thought a piece of bone acute septicarmia. Mr. Teale thought a piece of bone and articular cartilage had been broken of by the injury, which had worn the
groove in the opposing surfaces of femur and tibia.-Dr. Jacob Dr. Barrs, and Mr. Littlewtood made some remarks.
Pelvic Cysts.-Mr. Maro Rouson slowed a series of preparations illustrating the origin of pelvie cysts. He showed spectmens of hydrosalpinx, pyosalpinx, parovarian and broad ligameat, cysts, dermoid, unilocular, multilocular, and phpillomatous ovarian cysts, and fibro-cystic tumour of the uterus, demonstrat-
ing ly means of diagrams the seat of origin of the various tumours. He remarked on the frequent gonorrhceal origia of tubal disease ; and, aftershowing specimens of follicular degeneration of the ovary, said that such disease, though forming no tumour, was frequently a cause of intense pelvic distress, incapable of relief except by removal of the appendnges. In cases shown the patient had recovered from the operation.
Ankylos is of Atlas and Occiput.-Dr. Wandrop Grifritul showed a specimen of ankylosis of atlas and occiput. There wa a history of suppuration about the neck in clindhood.
Cirrhosis of Liver.-Dr. Gmifritri also showed a specimen of this condition. There was a very large vein, in the position o the fotal unbilical rein, passing from the portal vein to the umbilicus, providing collaternl circulation. This perhaps was the reason that ascites had not recurred after the patient land beer tapped.
Liver Disease in Cat.-Dr. Griffitu also showed the liver of cat studded with large nodules, presenting somewhat the appear ance of a human syphilitic liver.- br. BAnRs and
thought the condition a congenitnl abnormality, and not patho logical.

Tapilhary Growths.-Dr. Jacos showed on a screen, by meanso a Lewis Wright's lantern microscope, a number of preparation illustrating papillary forms of growing epithelium from variou inflammatory and ncoplastic growths, including papillomatn o the tongue, coceidium nodules from rablit's liver, aud adenoi growths from the kilney and prostate.
Miscellaneous Specinens.-Mr. Mavo showed a specimen Tubercular Arthritis of Knee. Specineas of Abnormalitites, College, mounted by Dr. OLIVER, were shown, as well as a numbe
of ophthalmic and other preparations recently added to the Yorkshire College Museum.-Mr. LITTLEWOOD showed sections of hard chancre (excised on the sixth day) and pigmented moles. In the former a characteristic induration had appeared at the edges of the wound.-Mr. Littlewoon, for Mr. Brown, showed Median and Ulnar Nerves, becoming bulbous and adherent to the stump of the forearm.

## SOCIETY OF MEDICAI OFFICERS OF IEALTII.

 Firinay, March I6th, I888.Alfred IIlle, M.D., Iresident, in the Chair.
Death-Rates as Tests of Healthiness.-Dr. Lours l'arkes read paper in which the fallacies arising from a faulty enumeration of the population on which death-rates were founded were pointed out, and it was shown that in the ten years intervening between two censuses, it was in many cases impossible to arrive at even an approximate enumeration by any method at present known. The only effectual remedy would be a quinquennial instead of a decennial census. The author next pointed ont the fallacies which might arise from disregard of the different age and sex distributions of different populations, when their death-rates were used for the purposes of comparison and as tests of health and sanitary condition. It was urged that no public atatement of death-rates alıould be made, which liad not been corrected for age and sex distribution on the basis of the proportions fonnd to exist in the country generally at the date of the last census. The method employed by the Registrar-General in the case of the twenty-eight large towns of England and Wales was simple and efficient, and with no great labour might be applied to every commumity of persons throughout the country. The influence of virtli-rate upon deatli-rate was considered, and the late Dr. Letheby's views upon the relations which should subsist between a ligh birth-rate and a high death-rate were alluded to. The fundamental distinctions between mean age at death and mean duration of life were insisted upon, and it was shown that the mean duration of life was one of the best tests of the healthiness of a population. In conclusion, the autluor brought under notice the
death-rates which had distinguislied for so many years some of the northern manufacturing towns, and urged that this excessive mortality, which was largely confined to the earliest periods of life, was due to causes which could be brought under control, and that an authoritative inquiry into all its aspects was demand ed. Such an inquiry would bring public opinion to bear upon acondition of things which should not be allowed to exist any longer.- In the discussion which followed, the Ireesident, Dre, Bate, Sykes, Saunders, and Seaton, and Slessrs. Butterfield, Blyth, Noel IIvimphreys, Lovett and Shirley Murphy took part, and Dr. Pankes replied.

## REVIEWS AND NOTICES.

A Treatise on Cinemstry. By Sir H. Roscoe, F.R.S., and C. Schorlevxer, F.R.S. Vol. IlI, Organic Chemistry. Part IV. Messrs. Macmillan and Co.
Triv present rolume, consisting of 54t pages medium actavo, forms 1 further instalment of the well-known textbook on chemistry, soth inorganic and organic, with which the names of these uthors are associated. This part is devoted to a description of he aromatic compounds containing seven atoms of carlon, inluding the toluene, benzyl, benzoyl, and hydrobenzyl groups, as rell as the xylene group of the compounds containing cight toms of carbon. The rolume is a worthy successor to those plich have preceded it, and is claracterised by the lucid and omprehensive manner in which the extremely unwieldy mass of acts composing modern organic ehemistry is presented to the eader. Of particular value are the historical retrospects given n iutroducing the more important compounds, and which serve o indicate the progress und development of the various branches f orgaric chemistry. It is these passages which make this omething more than a mere work of reference, and render a arge part of the volume suitable for continuous reading. a a work of reference, the treatise of the authors cannot, of ourse, compete with the exhanstive compilation of Beilstein, Iandbuch der Organischen Chemie, in which the avowed aim of he author has lucen to refer to every organic substance the comosition of which has been determined by analysis. But there can
be no doubt that tho work, as far as it has progressed, is not only withont a rival as a treatise on organic chemistry, but is also unequalled as a book of reference in the Englishlanguage. The present part is not one which contains much that is of special interest to medical men gencrally, although there is a rery clear account of the relationship between benzoic and hippuric acids and of the causes to which the appearance of these substances in the urine of man and of the lower animals is due. The description of the preparation and properties of salicylic acid, as well as of some of the products of oxidation of the opium alkaloids belonging to the 8 -carbon-atom group will also be read with interest.

The Curability of Insanitt. By Joiln S. Butler, M.D: Hartford, Connecticut. Messrs. Putnam. 1887.
At first sight one is prejudiced against this very small Work onr such a very large subject, and but for personal knowledge we should have supposed that it was the first effort of $n$ voung man Who was starting on the path of authorship. As it happens it is the summing up of the experience of an old man who has seen much, and probably discovered into how small a space all onr real knowledge can be put.

Dr. Butcer begins by discnssing the proportion of patients to medical men in asylums, in the past and in the present. He is a strong adrocate for the separation of the curable from the incurably insane, and for the individualised treatment of the former. Why shonld it be necessary to state this proposition that the insane must be treated as individuals? But'so it is and so it will remain as long as medical superintendents are expected to be medical stewards, or are men appointed for social rather flan medical fitness. We do not know of a single English asylum or lospital for the insane which is sufficiently officered if there is to be thorough medical superrision of the cases. No general physician, even with $\Omega$ staff of clinical clerks, wonld pretend to be responsible for the diagnosis and treatment of two or three hundred cases; and yet in the best lospitals for the aentely insane this is what is expected. Skilled and experienced general physicians, with special training, should be at the head of asylums, and they shonld be free from mere administrative work, and have every assistance in providing suitable companions and attendants.

Dr. Butler points out how many cases of functional mental disorder require special treatment, and nowadays one must admit that in asylums lady nurses and lady companions have replaced the "Mrs. Gamps" of former days, yet here in England thero is still much to be desired. The general hospital nursing is in advance of that of our asylums, and even this is much better than the nursing provided for those cases which are treated at home. Individual treatment, such as that recommended in this little book, implies thorough knowledge of the conditions under which the disorder has arisen, and a proper exertion of force to counteract the evils. It is surprising that so little has been written on the functionat cure of functional disorders, for there is plenty of room for the exercise of this kind of treatment among the insane.

The majority of medical men seem to have three courses open to them in treating the insane. Fither they narcotise them, send them to an asylum, or send them abrond. Any one of these forms of treatment may be abused, but we think that the sending of a person of unsound mind abroad withont laving fully considered what he is going away for is unreasomable and may be dangerons. The mind is at least as much influenced byrest as theorgans of sense. and rushing over the Continent is not rest. Rest in bed and careful Watching may be much better than railwajo or cren acean trarel. The advice given by our author is sound, his examples are interesting, and his anthorities are the best in lunacy. IIe exhibits the old man's love of quotation, and his quotations will be found to be correct and apposite.

## A Theatisi: on Astigmatism. By Swan Burvett, M.D. St. Louis, Missonri: J. II. Chambers and Co.

Notwithstannust the author's preface, we much doubt the wisdom of writing a book on astigmatism alone. It appears to us to be both theoretically unsound and practically inconvemient to divorce the consideration of one form of ametropia from that of others, and the book before us could have been only complete had it formed part of a larger work.

The theoretical parts are, we think, the best. The nature of bi-axial and a tri-axial ellipsoid is well explained, and the effect of spherical and cllipsoid surfaces in causing spherical aberra-
tion is fully dealt with, and illustrated by an excellent diagram (lig. 7). In nastigmatism, as it occurs in the eye, we miss any clear explanation of the fact that an eye with simple astignatism sees lines best which nre nt right angles to its enmetropic meridian. It is true that all the data for the explamation aro given, but hardly, we thiuk, nerranged so that they would be put together by a heginner without assistance. Yet this is the poos asinorim of astigmatisn.
In speaking of mydriatics, we are surprised to see that the author recommends the use of atropine of the strength of $2-4$ per cent. Solutions of this strength are never used iu this country, and are quite umnecessary. ile also supports the practice--which used to be widely adopted, but which we thought had been abandonerl by most-of postponing the ordering of the correcting glasses till the effeet of the mydriatic has passed off. We must confess that we could nover see the necessity of this; the condition of the accommodation can and ought to be ascertained before a mydriatic is usel, and the objection that the dilatation of the pupils affects the result is trivial, since any difference arising from this source can easily be eliminated by means of a diaphragm.
Most of the illustrations arc excellent. It is, however, unfortunate that the ellipsoid in fig. 6 does net fultil the conditions of the definition. We think that the nature of an ellipse would have been rendered mach more obvieus to the notice if the old schoolboy trick of drawing it had been given, namely, by fixing a slack string between the two foci, and running a pencil-point round within the string. We must object more forcibly to fig. 30, which is a blemish to the book. It is supposed to represent the mode in which the inverted image is formed in the indirect method. It is inaccurately drawn, and has not oven the merit of being clear as a diagram. Hays from two widely separated points on the fundus are depicted as emerging in a single pencil, which could not possibly come from either.

The apparent increase in the size of the image in emmetropia is mentioned and explained, an nlvious omission from most of our textbooks. The explanation of the changes in the shape and size of the image of the dise on withdrawing the lens in the various forms of astigmatism might be given more fully in a special treatise. The author does not appear to have seen M. Patent's excellent paper on this subject (Iiec. dOphth. 1881):
The description of the ophthalmometer of Javal and Schiotz is the best we have seen in English, and the auther pays a high tribute to its scientific value: its practical use is much limited by its cost. It is not the author's fault that he has nothing new to say as to the practical testing of astigmutism.
On the whole, we doubt whether the book will be of much use to the ordinary student, since it contains hardly enough elementary matter. For the specialist it contains much that is of interest.

## NOTES ON BOOKS.

Notes on Dental Surgery, Intended for Students of Médicine and Medical Practitioners. ©y J. SıITH, M1.D., LL.D., F.R.C.S.E. (Edinburgh: Maclachlan and Stewart). This is a small foolscap 8 8o. pamphet of 70 pages, of whicl a about thirty are occupied with sucli subjects as dental nnatomy; dentition, nud anesthesia This lcaves altogetleer inadequate space for a sufficiently clear description of dental diseases and their treatment, and it is not, description of dental the author has failed to produce a really useful work. It, hewerer, contains plain directions for extracting teeth. It is a pity the author has not instcad brought out a now addition of his MIandbook, now out of print. That IIandbook. revised and amplified, might perhapa have successfully competed with well known manuals of a similar kind; but this meagre parphlet is not likely to do so.

The Erinlogy and Pathology of IfyIramuios, with its, Relation to
 H.R.C.P., Plyssician to the British Lying-in IIospital. P'p. 17. (Edinburgh : Oliver and 1ooyd. 1887),-This is a reprint from the Fhinhurgh, Medical. Journal. The subject is discussed'under two heads (a) the etielogy and patholngy of the disorder, (b) the relation of the excessire secretion to certain fretal deformities. The article appears to he n summary of the works of sncli men as Gusserow, Bar, Ahltiella and nthers who have laboured in this field,
while the conclusions arrived at are similar to t'ose now generally accopted.

The Refraction of the Eye. By C. Hartringen, F.R.C.S. Third Edition. (Messrs. J. and A. Cluurchilh. 1888).-When a book has shown itself to be sufficiently popular to require a third edition, there can be no occasion to cavil much at its contents. We are glad to see that several slips that occurred in the carlier editions have been corrected, notably Figs. 63. and 43, thengh it is not clear why Fig. 54 remains unaltered. It is most difficult in a small work on a large subject to know what matters to treat of and what to omit, but we think those whichr are mentioned should be treated with some approach to completeness, and that when In explanation of facts cannot be given, the reader should. at any rate, be put on the right track for finding an explanation for himself.! The statement on page 29 as to the mode in which distance is estimated is so incomplete that it would be better omitted, whine the statement attributed to Landolt, but without a reference, that when the correcting lens is placed 13 millimètres in front of an ametropic eye, the retinal image is of the same size as in emmetrepia, would have been of value had it been pointed out that this is because that point is the anterior focus of the eye. The statement in this latter form occurs indeed in Landelt's work on Refraction, but it is no mere his than is the multiplication table. Mr. Hartridge is, we think, rather hard on Donders. It is true that he stated that hypermetropia did not pass into myopia, but that was twenty years ago, when anyone else would hare said the same. We theught that he bad confessed and received absolution long ago. There are several alterations in the chapter on the shadow test, and it has ou the whole been improved. We dissent, howerer, entirely from the statement that the obliquity of the edge of the shadow in astigmatism with oblique meridiana is due to the shape of the image. It is due solely to the fact that only that part of the edge which coincides in direction with one of the principal meridians is seen sharply defined by the observer. Fig. 88 , illnstrating the measurement of a sfiuint with the peri-
meter, is inaccurate meter, is inaccurate, since the patient is fixing a near insteed of a
distant object, so that alout ten degrees of the squint is really normal convergence. Notwithstanding these slight defects, we believe that the book is nearly as complete ns it could be made within its present limits.

Pathology and Treatment of Abortion. By Leslie: Philurs, M.D. Pp. 110. (Birmingham; Cornish Brothers. 1387.)-This small pamphlet of 110 pages, dealing with the pathology and treatment of abortion, contains nothing original or new. The subject is dealt with in the usual manner, the terminology being that used in most of our textboaks. The part played by the mother, fnther, or foetus with its membranes in the production of abortion is shortly descrihed, the references to the Lumleian Lectures being numerous. Part 11 includes the treat ment of abortion, which is theroughly practical and sonnd, thengh we can hardly agree with the author in recommending Taits uteriae dilators in incomplete or concealed abortion. Dr. Phillips has, however, found these instrumentg "reliable and certain in action," and his preference for them is perlaps natural. The essay does not pretend to originality, but is intended to supuly a want frequently felt by the bnsy practitioner, whose time is too much occupied to reai the literature on the subject published in journals, pamplitets, and other periodicals.

## REPORTS AND ANALYSES

## DESCRIPTIONS OF NEW INVENTIONS,

 in mbdicine, straent, dietertís, and the ALLTED SCIENCES.L1Q. PODOJHYYLLN: ET BELLADONNE C. STRYCINIA (HOCKIN).
Turs is another of Messrs. ITeckin, Wilson and Co's conveniont fluid preparations. It is perfectly miscible with water, and ench fluid drachim contains at grain of resin of pollophyllum, 友 grain of alcoholic extract of bellarlonna reat, and zo grain of stryclanine. This comlination is recommended in cases of habitual constipa tion in which peristaltic action of the intestines is deficient, and
the liver is "torpid." It has been highly praised by Professer the liver is "torpid." It has been highly praised lyy refossen (quinlan, who advises in suitable cases one fluid dracbm to be taken three times a.day in combination with aronic.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOL 1888.

Subscriptions to the Asseciation for 1888 became due on January lat. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belouging to Brancbes are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice arders should be made payable at the West Central District Office, High Holborn.

## Tbe Britísh fledial Joumat.

## SATURDAY, MARCH 31st, 1888.

## THE BUDGET.

Mr. Goschev's amual financial statement was this year complicated by the necessity for providing an inceme for the new county authorities proposed to be established under Mr. Ritchie's Local Government Bill. The very satisfactory surplus of Imperial income over expenditure in the year 1887-8 will be practically swallowed up by the elaims of the county authorities, and Mr. Goschen, casting abourt for some means of popularising his Budget, has imposed a number of petty taxes in order to satisfy the income-tax payers. We have little concern with bonds to bearer, and contract notes, and bottles of champagnes, and need not therefore discu:s whether increased duties upon them are or are not stateimanlike and wise.
Besides the local budget, to which we shall presently cefer, the, only point in the Budget which particularly uffects the medical profession is the continnance of the sax on carriages, and the now tax of $£ 1$ on pleasure horses. Apparently a country doctor will in the future have to pay or the priviloge of getting about the country $£ 1$ for his horse, .5s. for a two-wheeled trap, or $£ 11$ s. for a four-wheeled vehicle f drawn by one horse. The happy possessor of a one-herso rougham-provided it has not pair-horse fittings-has to thank ho Chancellor, therefore, for a net saving per annum of 1 s., as nder existing arrangements he has had to pay £2 2s. for his arriage.
The tax on horses will bear with especial severity upen pracitioners in country districts, who, by the very nature of their ractice, are compolled to traverse great distances; and it is aly by a very severe straining of the definition that such a man in be held to keep a horse for "pleasure." The pecuniary reards of comutry doctors are already so inadequato that an inist upon what is in offect a part of the apparatus of his prossion cannet be permitted to pass without pretest.
As letters published elsewhere show the profession is becoming ive to the injustico which is threatened, and we trust, therere, that Mr. Goschen will see the desirability of inserting in o special Bill which he proposes to introduce a elause giving o same exemption to the nag of the hard-worked country ctor as to the farmer's cob.

We have now to consider broadly the local badget introdneed by Mr. Goschen. The Gevernment propose to cancel all the grants in aid that have been thrown as sops to local authorities by weal governments in the past, as some particular want made itself articulate. These amounted for $1856-7$ to f2,5 52,000 , the chief items being for roads $£ 237,000$, poor-law medical officers $£ 147,000$, sanitary officers $£ 72,000$, panper lunatics $£ 480,000$, police $£ 1,412,000$, and grants to public vaccinaters $£ 19,000$. To make good these grants the Imperial Government will hand over to the County Councils various licence duties, amounting in all, with the new proposals for taxation, to $£ 3,800,000$, the largest propartion of which is from liquor licences. In addition, the Government will give to the counties hali the receipts from the probate duties, estimated to amount to $£ 1,800,000$. This will give the County Councils an income of £5, 600,000 , against which they will have to make good the grants now received from the Treasnry to defray the cost of maintenance of disturnpiked and main roads, estimated at £1,040,000, and to pay 4 d . per head per day for indoer paupers, estimated at about $£ 1,200,000$. This will make the total expenditure $£ 4,600,000$, thus leaving an annual income of abont $£ 1,000,000$ for defraying the cost of the new duties imposed upon the coinnty authorities by the Local Government Bill. To give time for the now authorities to get fairly started, it is proposed this year to make certain temporary arrangements, which need not, hnwever, coucern us here.
The transference of the licence receipts from the Treasury to the county exchequers will no doubt meet with universal approval. Licences are in reality local imposts, and belong strictly to the district. In the same manner the horse tax is par excellence a local affair, and we regret that the Chancellor did not recommend that the receipts from this souree should be handed orer to the counties instead of meddling with the probate duty, which stauds on a different fenting altogether.
Until the terms of Mr. Ritchie's Bill are generally available (for, although the measure is technically" published," copics aro not, at the time of writing, procurable), it is impossible to say how far Mr. Gosohen's gifts to lecal finances will suffico for the purpose. But anything which will help ratepayers to see exactly the financial position of the district in which their lot is cast deserves encouragement and support. and Mr. Gnschen's proposals, if they do nothing else, will certainly help to a clearer understanding, both of our mational and locul balanee-shects.

## THE POSITION OF MEDICAL OFFICERS OF HEALTH.

Whilst the general public are wading through the intricacies of the Local Gevernment Bill, and are disenssing the constitution of County and District Councils from the political and finanoial standpoints, and whilst fierco fights are brewing over this and that particular proposal of the Ministry, we fear that one of the most important matters in local administration, from a public health point of riew, runs great risk of being overlooked, or, at all events. of not being treated with the serious consideration it
eleserves. It is notorious among all who aro conversant with the managoment of local affairs that the prosition of medical officers of hoalth has lung been one of a very unsatisfactory character, and las been gradually going from baul to worse. And yet we camot discern any proposal in the 1 bill designed to secure an improvement of the present system, or which in practice under the new state of things would effuct the much-needed reform.

In a few of the larger boroughs, where a health offieer with special qualifications in preventive medicine has been appointed and has been assigned a proper position as modical adviser to the sanitary authority, where the officer's whole time has been secured by a roasonably sufficient salary and where his tenure of offico has been fixed on a tolorably secure footing, the duties of the office havo been efficiently perforned. Benefit has accrued to the public health and to sanitary knowledge, and credit to the medical profession. In some of the smaller towns also many an energetic hoalth officer has faithfully discharged his duties for a mere nominal salary, and, in spite of many discouragements, carriod thenn on concurrently with his private practice. But, in a much larger number of insignificant urban districts and in the majority of the existing rural districts the omission of the sanitary authoritios to make proper arrangements, and the obstacles thrown in the way of energetie officers anxious to fulfil their duties have been fatal to adequate sanitary progress.
To many boards of guardians the transaction of their sanitary functions as rural sanitary authorities has been distasteful. They have habitually treated those functions as subsidiary to the poor-law administration, and at their meotings they have frequently deferred the sanitary business to the end, with the consequent result of sholving it altogether or postponing action indefinitely. In many districts nothing short of an outbreak of actual disease has been sufficient to goad tho authority into action and to secure the remedy of glaring sanitary defects. When the medical officer of health is appointed at a merely nominal salary of a few pounds a year, when he is not debarred from private practice, and, having regard to the salary, is unable to give enough of his time to his sanitary duties or to the examination of the unwholesome conditions prevailing in his district, or when he hesitates to report to his authority some umpleasant truths, lest he therely endanger his chances of reappointment at the end of his year of office, or estrange some of his best private clients-when conditions of this kind surround the health officer's appointment, as they do too frequently at the present time, it is not surprising to find sanitary work neglected and sanitary officers dissatisfied and discouraged.

Apart from the representations that havo from timo to timo been made to oursolves, a cursory glance at the reports of the recent sanitary survey made by the Medical Department of the Local Government Board discloses numberless examples of such cases. In one instance "the office of modical officer of hoalth has been allowed practically to be a sinecure, tho medical officer leing also district medical officer;" in another the "nedical officer of health doos his best in advising under mueh discouragonient;" "uncdical ofiser of health zealuns, but working under
groat difficulties ;" " medical officer of health fair, but advice not. attended to by sanitary :uthority;" "originally an energetic officer, who has come to acquiesce in m incompetont administration of affairs;" "work efticient, lint salary only $£ 3$ per annum;" "unsatisfactory, poorly paid for work requisito;" " medical oflicers of health (who are also district medical officers) admit wretched condition of their districts, but do little or no work becauso of their dissatisfaction with seale of payment "-and so on. Those examples afford ample andication of a faulty system.
Under the new arrangements it is proposed to constitute a popularly-elocted "Comity Comail" for each shire, to tale over the general adininistration of the county and many other powers, and also to substitute popularly-elected "District Councils" for the existiug urban and rural sanitary authoritios, to take over the existing powers of those authorities and cortain additional powors. Existing officers are to be transferred to the new authorities or compensated. Certain of the powers of the Local Government Board under Sections 189 and 191 of the Public Health Act, 185, as to the appointment of medical officers of health, the prescribing of duties, the amalgamation of districts for the appointment of medical officer of health, etc., are transferred to the County Conncils. But the Local Government Board still retain some control in the matter, Section 23 (b) of the new Bill proposing that the county authorities shall pay out of the County Fund and charge to the new Exchequer Contribution Account
"To every local authority by whom a medical" officer of heatch or inspector of muisances is paid, one-half of the salary of such officer, where his qualification, appointment, salary, and tenure of office are in accordance with the regulations made by order under Section 191 of the l'ublic llealth Act, 1875 , as amended by this Act; but if the Local Government Board certify to the Council that such medical officer has failed to send to the Local Gorcrnment Board such report and returns as are for the time being required by the regulations respecting the duties of such ofticer, made by order of the Doard under the said section, a sum equal to such half of the salary shall be forfeited to the Crown, and the Council shall pay the same into ller Majesty's Exchequer."
This is practically a proposal to continue the present system and all its anomalies.
It appears to us that each county authority should have a superintending modical officer of health, who should bo specinally qualified in lyygiene and its many branches, should be debarred from private practice, should assume many duties-such as those of county analyst, the making of post-morten examinationa for coroners' inquests, ote., which at present are not performel according to any recognised plan-should hold his office during "good bohaviour," and should be assigned such a salary as would socure the services of the ablest men. Tho division of the county into districts for tho appointment of the suborlinate health officors should also be adjusted according to the sami considerations. The necessity for some such plan is scen wher it is remembered that the powers at present vested in tho Lomen Government Board under Section 299 of tho Public Health Act 18\%5, for compolling negligent authoritios to perform their dutic are transforred to the new Comuty Councils. Who is to advise the

County Council in such eases if they lave not a recognised medical adviser independent hoth of private practice and of local authorities?
The burden of responsibility in advising on sanitary operations should rest with the medical officer of health, and it is of the first importance that he shonld have a special training for his duties. In order to secure this, the sanitary serrice of the country should be so reorganised as to afford inducements to the best and ablest men in the medical profession to join its ranks. Now is the opportunity to effect such a thoroughl reorganisation, and it is to be hoped that it will not be lost.

## THE ELECTION OF PRESIDENT OF THE

 ROYAL COLLEGE OF PHYSICIANS.Tue movement which is now on foot to remove the disabilities under which students educated at the medical schools of London at present labour, and the part which the College of Physicians of London has taken in that movement, invested the election of a President this year with an interest which could not have relonged to it in the days, not so very long distant, when the College was little more than a learned and highly exclusive club. By undertaking to grant licences to practise medicine to the ank and file of the profession, the College stepped out of the larrow groove along which it had travelled for centuries; and by odoing it not only increased its influcnce within the profession, nut largely added to its responsibilities. So complete has been he success of this experiment, which met at the time with much prosition from the more conservative elements within the Colege, that it must have been a surprise to many of the younger ;eneration of Fellows, who had grown up to a belief that the xistence of the great order of Licentiates was a part of the stablished order of Nature, to find that one of those whose ames were most upon the lips of the quidnunes who during the Lst month have bcen speculating on the probable result of last Ionday's election, had taken a large share in carrying the form.
The interest taken in the election by the Fellows was shown y the unprecedentedly large attendance. The retiring President, ir William Jenner, delivered a long and interesting address, nd inmediately afterwards the business of the election was inceeded with. The method of procedure is peculiar and isceptible of improvement. The voting is by secret ballot, nd each Fellow when he enters the College buildings is supased to be completely unaoquainted with the names of the ellows who are likely to command the largest number of tfrages.
As will be seen by a letter puhlished in another column, the iquette which forbids canvassing has been on the present casion broken through, in the presumed interests of a party thin the College. No fewor than ton names issuel from the n at the first ballot, the list being headed by Dr. Richard nain, who had obtained a clear majority. It is, however, cessary, in order that the election shall be completed at one
ballot, that one Fellow should receive the suffrages of two-thirds of the Fellows roting.
A second ballot hecame necessary. The contest was now seen to lie between Dr. Quain and Sir Andrew Clark, and, amid a scenc of unwonted excitement, the voting papers of the second ballot were drawn from the urn, and it then appeared that there was a slight preponderance in favour of the younger Fellow, who tras therefore declared elected.
While Dr. Quain would have brought to the duties of President remarkable business capacity and an unrivalled acquaintance with the affairs of the College and with the history of medical policy in this country, Sir Andrew Clark has already given evidence of sterling qualities, which the responsibilities of office may be expected to develop. He has assumed these responsibilities at a moment in the history of the College when it is within its power to render great services to the canse of medical education. Sir William Jenner threw himself into the movement for the extension of university facilities with an admirable energy, and thanks to his vigorous leading and strength of character, he leaves the College pledged to do its utmost to remedy the injustice now suffered by metropolitan medical students.

The scheme propounded ly the delegates of the Conjoint Board was drafted upon too narrow a basis; conscions of the integrity of their own motives, its framers proposed to perpetuate the worst traditions of the College of Surgeons, and failed to perceive that no scheme could be really acceptable to the great body of the diplomates of the two Colleges which did not recognise their right to have a roice in their own affairs. So little was this understood by some that there were petulant whispers of an intention to abandon the whole if cery detail was not accepted with unquestioning gratitude. The Royal Commission will afford time and opportunity for wiser coumsels to prevail, and we may venture to express the confident hope that the new President will use the influence which his official position will give him not in the interest of any party or clique, but with a broad-minded appreciation of the many sides of a complicated question which cries aloud for solution.

## MR. JUSTICE GRANTHAM ON THE SANITATION

## OF PHISONS.

The great work of prison reform, begun by Howard and contimued by Neild, has apparently in the eyes of some of our judges gone too far. Our gaols are in too sanitary a condition: our prisoners are too comfortable. A residence in prison is, according to Mr. Justice Grantham, rather a pleasure than a punishment, and, although he does not actually say so in as many words, this judge seems to intimate that he would regard a ligher prison death-rate with a certain dogree of complacency. In his charge to the Grand Jury at Lancaster during the recent assizes, he said: "There was another aspect of the case that he thought it desirable to call their attention ?to, as a way of accounting for the circumstance of these habitual criminals coming back time after timo as thay did, and that was the ab-
solutu comfort and perfeot smitation in our prisons at the present time, as compared with the homes of many of these people, and especially compared with the workhouses. He found that, taking last year as an example, tho death-rate of the prison population was only 8 per 1,000 , and when they remembered the class of persons they had beforo them in the dockthe worst class very often, the most ill-fed, and the most acquainted with insanitary conditions-it was startling to find that prison life was a curative for these pcople. Taking the population of the towis romud about, they found that the Liverpool death-rate was 24 per 1,000 , Manchester 28 , Preston 27 . He commented on the contrast Prisoners were placed in much more favourable relations than most of the working population. They were well housed, in a sanitary sense, and were supplied, night and day, with pure air. They were not exposed to one of the chicf eauses of the ligh rate of mortality. Could the same thing be said of all their workhouses, or some of their barracks? They did not-make such reports as that of the medical inspectors of gaols. It was for that reason he thought it very desirable that the people who were so fond of going back to prison tine after time should be tanght that the prison was not merely a comfortable home." By these arguments he excuses himself apparently for inflicting the brutalising punishment of the "cat" so often as he has lately done.

Of course Mr. Jnstice Grantham's figures are entirely fallacious. It is impossible to compare the death-ratc of adults, taken under most peculiar conditions, with that of the whole population. We believe that, excluding reformatories, the general age of prisoners would not range eithey much under or much over that of soldiers, namely, 20 to 45 , and we find that the death-rate for adults of the gencral population in England between these ages is about 10 per 1,000 per annum, making a difierence of only 2 per 1,000 in favour of the prison-rate, instead of from 16 to 20 , as Mr. Justice Grantham seemed to intimate. The other conditions of prison life, the numerous persons suffering only short terms of imprisonment, mixed up for statistical purposes with those undergoing long terms of penal servitude, lower the prison death-rate again, and make the comparison still more untrustworthy.

Ent although judges nay be pardoned if they are neither sanitarians nor statisticians, they cannot be excused for roturning on the strength of false deductions to brutalising and degrading punishments. A distinct blow has been struck at prison reform, when a judge authoritatively declares from the bench that imprisonment as at prosent conducted is no punishment at all, and that the only way to improve criminals is to give thom as short a stay in our prisons as possible, and rather to sond them back to the world in a few weeks, with their backs marked and scarred with the lashes of the eat.

Tho only logical deduction from such remarks is that we unust either rocur to, the methods of the preceding centuriesthe cart tail, the pillory, the gallows-or must mako residence in our gaols less sanitary, our prison death-rate somowhat lighter. There could be no doubt of the punitive effects of a
committal to Newgate, for instance, during the period 1755-65, when no less a number of prisoners than 132 died of gaol fever. A residence in the Leopoldstadt Prison"of Vienna from 1834 to 1817 also had some claim to the term "physical punishment," since out of 4,280 prisoners there, 378 died, a death-rate of 86 per 1,000 of whom 51.4 per 1,000 died of phthisis producod by insufficient ventilation.
Perhaps, however, our judges themselves are not altogether the losers by the better sanitation of prisons, since we find that the fevers endemic in these foul dens previous to the present century did not confine thoir attention to insanitary gaols or overcrowded prisoners. According to Wood, in I521 a contagious fever broke out at the Cambridge Assizes, and the "justices, gentlemen, bailifis, and others resorting thither took such an infection that many of them died, and almost all that were present fell desperately sick and narrowly escaped with their lives." At the "Black Assizes" at Oxford in 1577, the Lord Chief Baron (Bell), the Sheriff, and 300 other persons present died. 'In 1730, at the Taunton Assizes, the Lord Chief Baron (Pengelly), Sir James Shepherd, Sergeant; John Pigott, Esq., Sheriff, and somo hundreds besides died of the gaol distemper. In 1750, at the May Sessions at the Old Bailey, Sir Samuel Pennant; the Lord Mayor (Sir Thomas Abney); and Baron Clark, the judges present, together with Sir Daniel Lambert, Alderman, were seized with the distemper and speedily succumbed, while, according to Lord Campbell, the Lord Chief Justice (Lee) was attacked the same year by gaol fever, but recovered. In 1752 "another Lord Mayor (Winterbottom) fell a victim to the disease. Well might Lord Bacon, in writing on the subject say: "The smell of the gaol is the most pernicious infection, next to the plague. When prisoners have been long and close and nastily kept, whereof wo have had in our time experience twice or thrice, both judges that sat upon the trial, and numbers of those that attended the business or were present sickened upon it or died."

If it be a fact that our gaols are better 'sanitated than either workhonses or the dwellings of the poor, all honour to those to whose wise labours the better condition of the former is duo-all shame to our locsl authorities who permit crime to be better housed and treated than poverty and misfortune. But it is the workhouses and the homes whicli must advance to perfection, not our prisons which must recede from it. Whitever be the disciplinary or reformative measures introduced into these latter, one thing must bo seenred-that the punishment ceases 'when the prisoner is liberated; that he does not pass back to the world with health injured or wrecked by the treatment he has reccived in prison. Above all that the punishment inflicted should mean no more than the sentence conveys, and that that which was on the face of it only a temporary deprivation of liberty, should not bo converted by insanitary surroundings into a eapital punishment of the most lingering and eruel description, or convey a pernanent injury which slall remain throughout the rest of life.
That public opinion, supported by wiso experience, will not pormit a return to the degrading physical punishments of past
ges is certain. It is owing to the replacement of these by more umane methods that criminals are decreasing in numbers daily ; nee the classes from which criminals are reeruited-themselves ster edueated and more enlightened-see that they are no nger treated as wild beasts, against whom every man can raise s hand, and, therefore, are not driven by desperation to war gainst society. But still less will England allow any tampering ith the health or life of prisoners. A wise philanthropy secs in iese unfortmates, not lazy and irreclaimable villains returnung prison as to a comfortable home, but brothers, driven by reditary instinct and injurious environments to erime, and resimable, not through greater physical sufferings, but by wise d judicious influences, acting not only on the mind, but on the dy, through improved sanitation, using the word in its widest noblest sense. That profession which numbered John rakley Lettsom, the friend of Neild, among its members, will t permit the degradation of those of its body who practise in er Majesty's gaols into the registrars of the eapacity of weak manity to bear tortme. Our duty is to alleviate sufferings d relieve pain. Our highest privilege is to extend orr ministions to the mind as well as to the body, to offer to erring thers the hand of help, to bring back to honesty and wisdom ose who through misfortune and weakness have fallen far away m both. '

## HABITUAL DRUNKARDS ACT.

CAMERON, owing to unforeseen parliamentary complications, postponed the second reading of the Tlabitual Drunkards Act cndment Bill till April 0th. The Chairman of the Comtee for Legislative Restraint for Habitual Drunkards, Dr. Fora Kerr, has received a communication from the Home Secre$y$ promising assent to the second reading, with a reservation as ertain clanses. The main object of the Bill is the enactment : permanent measure which, it is hoped, will be secured during current session of Parliament; but the business of the House yommons is so uncertain, that no effort should be spared to $\mathrm{g} g$ strong pressure to hear upon as many members as possible, ach of our readers will write to his parliamentary representa, permanent legislation may be accomplished this year, leaving future free for further and much needed amendment.

## ${ }^{7}$ : IMPURE ANTIPYRIN.

extraordinary demand for antipyrin is rery much in excess he supply, and great pressure is put upon the manufacturers icrease the amount of the manufactured article in the market. consequence lias been that due eare has not been shown in purification of the drug, a certain proportion of benzine ng been detected in samples submitted to annalysis, according r. Dujardin-Beaumetz. This impurity ray aecount for some te toxic symptoms mhich have been reported, such as cutas eruptions, gastric troubles, and even grave corebral sym-
is, more particularly in the aged.
THE PROGRESS OF CREMATION IN ITALY. TATLON in Italy, says a cerrespondent of the Times, has not ic last two years or so made so much headray as at first," xample of Jlilan in 1876 soon found many imitutors, espe-- in the northern and ecntral prowinces of ltaly, and there ow something like thirty-two societies und comnittees for ring eremat ion, though they have not all got erematories of e own yet. The number of persons burnt last year was only

165, as against 181 in 1886. The Pisa Socicty, however, has not yet aent in its statistics for last year, and crematoriums will be opened in the course of the present year at Turin, San Remo, Verona, Bologaa, Pavia, and one or two other towns. Of the total number of 952 cremations that have occurred in 17 cities in Italy, since 1876, as many as 518 have taken place in Milan, and 155 in Rome. The new erematorium at Milan is situated at the extreme end of the Campo Santo, just outside the walls of the city. The temple, as it is called, is a building in the Doric style; constructed of stone, and having an open façade supported by columns, from behind which rises a tower whicb. as seen from the ontside, looks as if it formed part of the temple, although in reality it stands quite by itself, and is the chimney. The inside of the building is divided into several rooms, in the first of which the religious rites are performed; its walls are lined with funeral urns containing the ashes of many of those who have been cremated at Milan. There is a separate room in which the bodics are placed pending eremation, and a third in which the relatives and frieuds spend the two hours occupied by the cremation itself. There are two furnaces-one being for general use, and the otber for the bodies of persons who have died of contagious diseases and are not natives of Milan. The body is not visible to the onlookers when being put into the furnaces, nor are the ashes afterwards.

## BEATING AN EPILEPTIC GIRL.

A hospital physician has drawn our attention to the ease of a child under his care. The mother brought the girl, aged 11, to the hospital on account of her becoming liable to "attacks" in which she either "turns foolish" or drops down. The case prored to be one of minor epilepsy (petit mal). On a recent oecasion, while getting coals for her mother from the cellar, she was seen to fill her shovel, then walk to the end of the street, holding the coals before her till she came to herself. Last week, when her father was laving his dinner, she combed her hair and put the combings on his plate. The mother says that she often "loses herself," and stands looking vacantly before her; in such conditions she does not answer a question, or move when touched. The child looked fairly nourished, but was rather anæmic ; she answered questions well, and complained of headache. This girl attends school and is in the third standard; it appears that, on more than one occasion, when in the foolish, vacant state, the tencher has struck the child, doubtless in ignorance of the cause of her apparent stupidity; happily, however, the child has not yet been remored from school. It is not upon the individual teacher that we would cast a word of blame, still we cannot bnt think that a system in training and supervising teachers which allows of sueh mistakes ought to be reformed. The introduction of two or three medical advisers amongst Her Majesty's school inspectors.would form an authority capable of following up and explaining such cases to teachers, preventing repetition of direct, though uniutentional, cruelty. Occasional visits to certnin schools by a medical inspector, with power to report, mould do mueh to increase the care taken of feeble-brained children; it would lessen the responsibility of teachers in making exemptions, and they would be grateful for the assistance. As to this individual child, it is well that it should be educated and cared for: if left uneducated mental degeneration will follow. Should the child be so fortunate as to be removed to an asylum, slie would probably be placed in a well ordered class in the asylum school. Why should not suitable classes for such feeble children be provided for day scholars?

ENLARGEMENT OF. THE WORCESTER INFIRMARY. Dr. Strange writes: The Worcester County Infirmary has just been enlarged by the addition of thirty beds. This building

Which has an unrivalled position overlooking the valley of the, Severn, and open on all sides, has been for a long time much overcrowded, more than 1,200 paticnts passing through its wards annually, giving the large number of twelve patients per bed, the average of other county infirmaries being about eight or nine. The medical staff have found it impossible in this state of things adequately to treat many prolonged eases of disease, such as empyema with drainage, diseases of the spine, bones, and joints. At the annual meeting held on March 19th, the enlarged wards were thrown open to the inspection of the governors. The enlargement has been effected by loringing forward the south wing 30 feet, giving ten additional beds to eacl of the three wards in this wing. These wards have now twenty-six beds in each, mith superficial area and nir space about equal to those of the new central portion of the Great Northern Hospital mentioned in the Jourral a few weeks ago. The cost was under $£ 3,000 ;$; 500 of which was contributed by one donor. The appearance of the building, formerly so symmetrical, is now somewhat lopsided, and presents a standing invitation to the next generation to restore its symmetry by a similar addition to the north wing, When this is done the Worcester $\ln$ firmary will be second to no country hospital in healthiness and situation, in the arrangement of the wards, and in its complete administrative department.

## AN ENGLISH SANATORIUM in the highlands of

Anona the health-resorts beyond Europe where invalids and tourists may find sunshine and warmth, and a dry hracing climate, along with home comforts, San Paulo, in Brazil, has already attraeted attention. From Rio de Janeiro to San Panlo is a railway journey of thirtcen hours, but from the port of Santos it is only a three hours' run. The voyage from Southampton to Santos, in the steamers of the Royal Marl Stenm Packet Company, oceupies only twenty-thrce days, and from New York (by the Brazilian Mail Steamship Company) twenty-eight days. Owing to its natural and commercial advantages, San Paulo is destined to become the third great city in South America. As yet it has only between forty and fifty thousand inhabitants, among whom are Brazilians, Portugucse, Germans, Italians, Frenelh, English, and Amerieans. In its immediate vieinity aro charming country walks and scrambles amongst a rich and almost tropical vegetation, with fishing, boating, and shooting for those who love spert. The climate during both winter and summer is Ielightful, and has been recommended hy Dr. Walshe (Diseases of Lunge, 4th Edition, p. 649) for pulmonary invalids. The atmosphere is dry and exhilarating, and the barometric range so remarkably limited that it does not exceed three-quarters of an inch throughout the year. The average maximum temperature in the hottest month, January, is $80^{\circ}$ in the shade ; in the coldest month. July, $72^{\circ}$. The average minimum night tomperature in January is $64^{\circ}$; in July, $49^{\circ}$. The numher of days on which there is brilliant sunshine for the whole or the greater part of the day avernges 235 per annum, and such days are pretty equally distributed thronghout the yenr. Unlike the Mediterranean winter resorts, San l'aulo has no unhealthy season of the year. Invalids are recommended to spend both seasons there, and it is a disputed point which is the more benefieial; but those who like sea-bathing, and want a clange, can go to Santos for sea-bathing in June or July. Two miles from the city, a sanatorium has recently been built by an Finglish gentleman, on a hill commanding a splendid riew. It is well-drained and supplied with excellent water. It has reception rooms, billiard and bath rooms, and every modern conveniance. Dr. William Ellis, an English physician resident in San TMaln, is an able guile-adriser to those who go there in search of liealth. The enterprize of risitors and residents has supplied a !oman Catholic chajel, and Chuech of England, l'resbyterian, an:1

Weskeyan services; concerts, operas, musical societice, public gardens and bands, and riding clubs are to be found, as in othor pleasure loving and prosperous cities. Where a sea-voyage is ordered for invalids, a sojourn in San l'aulo may prove in some eases an additional recommendation.

## PHYSICAL TRAINING OF THE GREEKS AND ROMANS.

Mr. A. S. Murray, Keeper of Greek and Roman Antiquitica British Museum, delivered an interesting leeture at the Parkes Museum on Thursday, March 22nd, on the "Physical Training of the Greeks and Romans." ITe observed that it had been said in ancient times that the two things which the Greeks desired most were to be healthy and to be beautiful. Beauty in their eyes was attainable largely by a careful system of physical training. We see, he obserres, their idea of physical beauty nowhere hetter than on the sculptured frieze of the larthenon at Athens, now in the British Museum, for the greater part of it is a simple glorification of the beauty of youth as developed by physical training on horseback and in chariot racing. There was no more marked difference between the Greeks and the semi-barbarous races that surrounded them than in this matter of physical training. In one of his dialogues Lucian introduces the Scythinn Prince, Anacharsis, who visited Athens in the sixth century B.C., and in the course of his visit went to the Palaistra. He was much surprised at the various exercises of the youth, thinking them ridiculous. He asked Solon, the legislator, how he could defend such folly. Solon explaiued that the exereises of the youth might seem absurd to an onlooker, but that they were meant to train up a race of men who, largely by this training, sloould beeome valunble citizens, capable of taking their part in war through the skill of body they had thus acquired, and capable of taking a share in the administration of public affairs throngh the clearness of head and ready judgment which the habitual training of the Palaistra fostered in them. The lecturer then proceeded to describe the ordinary exercises of hoy 3 previous to their reaching the age of joining the Palaistra; and, secondly, the series of athletic contests which they practioed in the Palaistra, giving instances of the skill attained in the rarious contests of leaping, running, wrestling, boxing, throwing the disc and the spear. Lastly, he noticed the physical training of girls, to whom running was the only form of public contest allowed, and that only in a very restricted degree. He concluded with a brief aketch of a limited range of physical exercises, as practised by the Romans.

## COMPULSORY NOTIFICATION OF INFECTIOUS DISEASE.

The Local Government Doard at the end of last year addressed series of questions to sanitary authorities of districts in which there is a system of compulsory notification of infectious disesse with a view to obtaining information which may be useful to the Board in considering the extension of this method. The Salfor Town Council have since published a report by their medics officer of health, Dr. John Tatham, which gives a useful accoual of the results obtained in that horough. Dr. Tatham enys that, al reccipt of notification, the house is at onee visited by himself the sanitary inspector, and particulars obtained as to the cause 0 illncss, the opportunity for isolation, and other points of import ance. More than half the enses visited are romoved to hos pital, disinfection carefully performed, and, in cass of small-pos the inmates revaccinated. Where patients remain in their ow: homes, eare is talen to limit the extension of the disease, an school authoritics are informed when school cliildren are foun resident in a house with a case of infectious disense. In Salfor
there is very there is very little concealment of such disease, and medical mut loyall- support the health department in their duties under $l$ Notification Act. Tl:e result has been exceedingly eatisfuctol


#### Abstract

regards small-por and typhus, importations of disease never , iving rise to extension of a serious kind. In the case of scarlet ever, a suflicient time has not yet elapsed for the formulation of rust worthy evidence based on reported cases of sickness, but the leath-rate from this disease since the Notification Act came into orce has been lower than during the immediately preceding quinןuennium by not less than 33 per cent. Dr. Tatham points out he effect of a district where there is no notification upon those rhere it exists, and shows the necessity for the extension of the ystem throughout the whole country, and he urges the need for he central registration of all cases of this class of malady, in rder that a district may learn what is taking place in others rom which it may receive infection. The report is an excellent lece of work, and shows how valuable are the services an able ealth officcr can render to a community.


## COCAINE AND ITS SALTS.

INCE cocaine gained for itself a reputation as a local anrestletic, ttention has lieen directed to the fact that the cocaine salts suplied for medical use are far from being constant or uniform in heir purity and general characters. The subject was thoroughly iscussed at a recent meeting (March 14th) of the Pharmaceutical ociety, in a paper by Dr. B. H. Paul, from which some very useful unclusions may be drawn. Samples of the lydrochlorate of ocaine may be classed as crystalline and amorphous, and it is rell to note that the author of the paper doubted whether the ilt in a pure state ever assumed the amorphous condition. In tet, salts which are crystallisable with difficulty are in all uses mixtures, in farious proportions, of cocaine salts with ther salts of a different nature. The test of purity, based a the more ready solubility of the non-crystallisable portion of le salt in chloroform, is not altogether reliable, and the weight the crystals obtainable on the neutralisation of an aqueous olution by ammonia is stated to be preferable. Some investiators professed to have identified an impurity, which they alled "hygrin," the presence of which accounted for the diffinlty with which certain specimens are crystallised. This subance, howerer, Dr. Paul considers to be apoeryphal, although is evident that a product known as "amorphous cocaine" is ot infrequently present, and admits of identification. Its hydrolloride is the usual impurity. It is of a pale yellow colour, a itter taste, and of feeble anæsthetic properties. It has an kaline reaction, and is sparingly soluble in water, though freely in alcohol and ether, differing in this respect from the pure lt. A dilute solution becomes milky on the addition of amonia, and remains so. The aqucous solution of this neutral drochloride becomes acid on boiling, and this accounts for the adency of solutions of cocaine to become acirl. Cocaine itself adily undergoes decomposition with benzoyl ecgonine, on being eated with alcohol or water, aud this coustitutes another source impurity in the course of preparation. To obtain a pure proct, the alkaloid itself should he dealt with and not the hydroloride, which is wasteful because of its cxtreme solubility. It ould appear from these results that the quality of cocaine drochloride varies very much. In fact, as Dr. Paul observed, a salt is sold at a price far too low to ensure its purity. The skers who produce a good salt are heavily handicapped in * competition with others who supply an inferior article at a s price.

ENGLISH AND FOREIGN HEALTH RESORTS.
Larnogate as a Winter IIealth Kesort "was the subject of an eresting paper read by Dr. T. Britton, the president of the rkshire Association of Jledical Officers of Health, at a recent eting of that society. In favour of IIarrogate as a minter lidence; Dr. Britton pointed to its elevated position- 400 feet
ahove the sea-the sheltered position of Low IIarrogate, its dry and bracing air, its low death-rate-I3.7 per mille. The mean average temperature during the winter months was 39.3, and the rainfall compared favourably with other British watering places. The drainage and water supply were all that could be desired, and the sanitary condition of the ylace excellent. There are, he says, a large number of first class hotels and lodging houses where the comfort of visitors is carefully studied. In the winter months the charges for rooms are extremely small. For those who like them there are lightelass hydropathic establishments, under experienced medical supervision, and there are also several goou boarding houses. The country around is singularly bcautiful, and abounds in places of historical interest. The roads are good, and of easy gradient. The town is partly surrounded by a belt of grass-"The Stray"-of 200 acres in extent, the remaining part being open fields and country. "But," ho adds, "it is somerhat wanting in light amusements. Concerts and lectures are good and plentiful, but there is nothing during the day." This he lopes the energy of its inhahitants will soon supply, as nothing tends more to aid the system in throwing off illness than rational amusements. The Harrogate 4 dvertiser in giving a report of Dr. Britton's paper, quates in extenso from the JoURNAL, the advice and information as to the means of extending the resources and pleasures and usefulness of health resorts given by Mr. Ernest IIart in his recently published letters from Carlsbad. These letters and the information therein given have, we notice, been largels quated by the provincial press; and it is to be hoped that now that the attention of the local authorities of our British healtli resorts has been called to this need, the matter will not be allowed to end merely in words, but that steps will be taken by some of our leading liealth resorts to bring into play the same intelligence and public spirit which have enahled small German watering places by imposing a reasonable "cure tax "on the guests, to derive resources which have been wholly devoted to public purposes. The lessons derivable from the study of the administration of Carlshad by Mr. Ernest Hart have evidently been taken to heart in many places; but practical steps might well be taken in this direction in such places as Buxton, Bath, IIarrogate, Droitwich, and Cheltenham, all of which, by somewhat similar means to those employed by German health resorts might be made centres of continuous attraction and delightful resorts for English visitors. In the end such $\Omega$ policy would quickly repay any outlay involved, while it would quickly become, as at Carlsbad, more than self-supporting, and a source of great profit to landowners and residents.

## FOREIGN MEAT.

Ir would be very desirable that Ministers of ITer Majesty's Government, before replying to questions put to them in I'arliament, should consult with practical men as well as with their legal advisers. On Tuesday, March 2Oth, Sir M. IIicks-Beach, in reply to a question put by Captain Cotton on the sale of foreign meat as English produce, said that be believed, although he could not give an authoritative opinion, that the sale of foreign imported meat as English meat Then English meat is demanded was an offence under Section 6 of the Sale of Foot and Drugs Act, 1875 , and that, therefore, be die not see that any further legislation was required. Scetion 6 provides tlat "no person shall sell, to the prejudice of the purchaser any article of food or any drug which is not of the nature. substance, and quality of the article demanded;" and undoubtedly, if English meat is demanded, the seller offends against the Act if he supplies foreign meat. Action cannot, however, be taken except upon the certificate of the pubiic analyst duly appointed. Considering that analysis is incapable of distinguishing between bcef, mutton, or real,
it is rather too much to expect of the public analyst to discriminate analytically between English and foreign meat of similar descriptions. There is not, at present, tho faintest probability that such differences as would enable the most skilful, analyst to give a certificate upon which a prosecution might be lased will be discovered, and the Sale of Food and Drugs Act is, therefore, likely to remair a dead letter on the subject of meat, eges, and kindred articles of food. Sir Michael Hieks-Beach's answer to Captain Cotton is, therefore, although theoretically correct, no answer at all. It should be known, however, that there are other means of punishing vendors who sell artieles not of the uature, substance, and quality demanded besides the Sale of Food and Drugs Act. Only quite recently a vendor of butter, which proved to be margarine, 'was sentenced to six months' imprisonmeut at the Fssex Assizes, the prosecutor having elected to proceed against him for laving obtaincd money under false pretences. In such a case the certificate of a public analyst would not be absolutely requisite, other evidence, such as might be furnished by the police or the shippers of the neat, being arailable. It is not a little remarkahle that whilst it was felt desirable to pass an entirely new Act against the sale of foreign fat under the name of butter, although the matter has always, and could well have heen further dealt With, under the Sale of Food and Drugs Act, the Government now refuse to consider the far more iinportant sulpject of meat, which is not amenable to the lood Act, and attempt to make believe that that Act is all that is needed. We can only strongly advise Sir Michael Ilicks-Beach to place himself in communication with the Society of Public Analysts.

## HOW TO CURE GOITRE.

Prexch army surgeons hare been profitably employed in drawing up medico-geographicil reports of the French Departments Surgeon-Major Aubert has already reported to the Académie de Médecine on Calrados, Loire-Inférieure, and La Véndée. On February I4th, his report on the Medical Geograplyy of the Ain was read. In reference to ninety-three men with goitre from the mountainous districts of that department, who were exempted from military scrvice from 1872 to 1886, Dr. Aubert makes a most reasonable suggestion. As most cases of goitre between the ages of 18 and 20 are curable, a great service would be done to them by enrolling, instead of rejecting them, and placing them in the territorial army in healthier parts of France, particularly in const stations. By sending thesemen far from their mountains to naval arsenals they might be permanently cured, and at least could not fail to derive great beuefit from the change.

## THE EMPEROR OF GERMANY.

IT is stated on what appears to be good authority that formal application has been made by the Empress Victoria of Germany to the Queen, her mother, requesting her to permit Sir Morell Mackenzie and Mr. Hovell to wear the orders whieh the Emperor intends to bestow upon them. The former will probably receive the Grand Cross and Star of the Order of the Ilouse of Hohenzollern, aurl the latter the same order of a lower class. With regard to the licalth of Ifis Imperial Majesty, we think it well to point out that, as the medical attendants are still forbidden to furnish any inlormation berow that contained in the official bulletins, little or no reliance is to be placed on the statements which appear from day to daj in the political papers, thongh professedly made "on the lighest authority:" These are nothing more than rumours, which are in every case unwarrantod, and in many glariugly absurd. As medical men know, it is absolutely immaterial to the real issue that the Finneror is still able to go about indoors, to transact businces, give audiences; and even to speak. A man may do all this, and may have the outward appearance of health, aud yet be suffering from advanced cancer of the
larynx. When it begins in this region, the discase, aя a rule, does not epread beyond it, and is slower in its course than in many other parts of the body. Under favourable circumstances life may be prolonged for three or four years, or even'more, and during the greater part of that time the general health may scarcely be affected to any degreo appreciable by an ordinary obscrver. With regard to the nature of tho disease, although the result of Professor Waldeyer's examination has not been made public, the general drift of his report has been communieated to us by a well-known pathologist, whose authority as to the faets may be implicitly relied on. Professor Walderer found the microscopic appearances of the fragments of expectorated tissue which were submitted to him precisely as Professor Virchow had described them. He did not discover any trace of alveolar structure, although there were a good many particles of relatively considerable size in the sloughy material which he examined. Professor Waldeyer, however, came to the conclusion that the disease was cpithelioma, his decision being based on the great number, and variety in form, of the cell-nests. - In spite of this, however, the present aspect of the case, together with its clinieal history from the beginning up to the present time, still give grounds, in the opinion of those who have inost elosely watcled its progress, for a less unfavourable interpretation. We understand that, a few days ago, Sir Morell Mackenzie remored through the opening in the windpipe a large flat piece of cartilage which had apparently been thrown off from the cricoid or thyroid. We are not disposed to attach' $о$ much importance to this oecurrence as has been done in some quarters, for unfortunately there is ample evidence to show that perichondritis and malignant disease are not mutually exclusive. Eifoliafion of cartilage is certainly not a common feature in laryngeal cancer: but it is by no means an unknown, althoagh a rare, plienomenon of that disease. Though it may sound like a paradox, we are convinced that mueh of the obscurity of the present case is due to the extraordinarily close and unremitting attention that has been bestowed upon it. Probably no case in the history of medicine has ever beeu watched through -ull its varying phases with such anxious vigilance, and it is possible that what seem to us, with suel knowledge as has hitherto been available, puzzling and anomalous elements in the case, may he nothing more than the ordinary course of things when the natural evolution of the disease is fully seen.

## EARLY RISING AND LONGEVITY.

Iroresson IlUumprny's recent Collective Investigation Report on Aged Persons, published in the Jocraval, contains some very positive evidence on a matter which has already engaged the attention of moralists as well as plyyicians. "The opportunity for nutrition to do its restorative work was in nearly all provided by the faculty of 'good sleeping', to which was eommonly added its appropriate attendarit, the habit of 'early rising." Thus there is a relation between early rising and longevity. No doubt many people. will hastily seize upon the sentence just quoted, and employ it in edifying lectures or cesays for the perusal of youth, or embody in it popular medical works. Important qualifications follow 'in Dr. Humphry's Report, but they are likely to be overlooked. Doubtless the habit of early rising is, in itself, healthy ; snost of all, it is a good aign of health when it eridently gignifies rapid recovery from fatigue. Again, it usually denotes a strong will, the gift as a rule of a good phyaical constitution, or at least the safeguard of a verage bodily strength. Late risers \&ro generally either invalids or persous of bad habits, idlers who are never frec from other vices besides idlencss. The nervous exbaustion which keeps a man wakeful throughout the small hours produces sleep late in the morning. This exhnuation is invariably due to one of everal life-shorteuing influences, especially anxiety, or indiscretion in diet or drink. Liarly rising.


#### Abstract

is thus rather one effect of certain farourable influences, a nother result of which is longevity, than a cause of longevity. To turn a weakly man out of bed every morning at 7 o'clock will not prolong hislife. 1t will be noted that by "good sleeping" Professor Humphry signifies quick sleeping, "that is, the reparative work which has to be done in sleep is done briskly and well." Here, again, we have an effect of a cause; but preventing a weakly subject from sleeping more than four or five hours nightly would not cause him to live long, but would rather tend to shorten his lifc. Equally important are Professor Humphry's observations which show that by "carly" he does not entirely mean the time by the clock. The word " has a relative significance with reference to the time of going to bed. A person who retires to rest four hours after midnight and gets up at 10 A.m. may be strictly regarded as an 'early riser.'" Thus early rising is synonymous, in long life histories, with short sleeping, which means rapid recovery from fatigue, a sign of bodily strength. These scientific facts in no wise contradict the 'álleged value of early rising as a practice to be cultivated by all persons in good health. It is excellent as moral discipline, and eminently lealthy as a matter, of fact. Most persons will eat three meals daily. When a man gets up late those meals will probably follow each other at too short intervals to be wholesome. When he is an early riser it will probably be otherwise. He can cnjoy a good breakfast, and by the time for his lunch or midlay dinner be will have an honest appetite again.


## SLUMS IN LAMBETH.

AN inquest was held before Mr. William Carter on Monday, Mareh $26 t h$, on the body of a child aged 10 weeks, who was found dead in a dwelling, 19, Opal Street, Upper Kennington Lane, where the zanitary conditions were incredibly bad. The father of the child, labourer, possessed only one bedstead, at the top of which slept he mother, father, and two children, while at the bottom slept wo other children. Dr. Farr said that on entering the passage le found the boards in a rotten condition, and the plaster falling off the walls. In the front room a shocking scene presented tself. The parents, with four children, were in bed. In a cupoard where the food was kept he found the dead body of the de:easerf, Me had no doubt that death was due to suffocation. Me ound the ceiling of the particular room all down, and the rain ras rushing in. The jury returned a verdict of accidental death rom suffocation, at the same time stating that they were of pinion that the sanitary authorities should be at once communiated with. Dr. Farr informed the Court that the houses were otally unfit for habitation. The coroner promised to report the zatter to the proper authorities.

CAESAREAN SECTION-UNUSUAL COMPLICATIONS. N Décember 16th, 1887, Dr. Norment, of Hampden, Maryland, was thed in to a single woman, aged 26 , who was eight months egnant. She was forty-nine inches liigh, and very thin. There as marked kyphosis, involving the entire dorsal region. The wer ribs were in the upper pelvis. The uterus hung penduus over the pubes, the symphysis lay a little posterior to the mora when the patient stood on her feet. The rulvar orifice oked slightly backwards. There was marked contraction at the tlet, the distance between the coccyx and pubes being about - inches, lut Dr. Norment failed to discover any contraetion in e inlet. The ensiform cartilage was approximated to the pubes. - lower extremities were edematous, the urine was highly puminous, and contained abundance of hyaline and fatty casts. ere were tro old suppurating sinuses tracking from the nbar region downwards, one opening below the antcrior jerior spine of the left ilium, the other opening on
right thigh. The patient had a hacking cough and
bad headache. Dr. Norment did not consider craniotomy or cephalotripsy to be safe in this case. He notes that Charpentier speaks of 37 maternal deaths in 119 cephalotripsies (minimum conjugate 2.7 inches) as "fairly satisfactory," and most probably his case was in as unfavourable condition as the worst of Charpentier's 37 who died. He also dreaded the prospect of being compelled to perform Cæsarean section after the failure of one of the destructive operations. There was little prospect of saving the mother by Cresarean section, but a good chance of rescuing the child. In order to give the best chance to the mother, Dr. Norment operated on January 13th, almost directly labonr pains began. He described the operation in the Philadelphia Medical Teu's, February 11th. The lumbar sinuses were washed out with a 1 in 2,000 sublimate solution, the ragina with a 2 per cent. solution of carbolic acid. The operation was performed on Sänger's principles. The uterus, by its own weight, protruded through the abdominal incision, and lay on a disinfected towel between the patient's thighs. The membranes could not be conveniently ruptured from the vagina, so they were left intact to the last moment. The situation of the placenta could not be determined. Dr. Norment took care to incise the anterior wall of the uterus, but in so doing cut through the placenta. The membranes were ruptured after the placenta had been separated from the left side of the incision, and the child seized by the feet. It was asphyxiated, but recovered, and was well and alive early in February. A row of fonrteen carbolised silk sutures were passed through the mascular wall of the nterus; on each side of the incision a continuous suture of the same material was made to unite the cut edges of the serous coat. The wound was closed after the uterus bad been cleared of its contents, and made to contract firmly by "massage." The patient, however, suffered much from shock, and uremic symptoms set in. She died sisty-two hours after the operation.

MENSTRUAL BLEEDING FROM A LAPAROTOMY SCAR. At a recent meeting of the Kïev.Obstetrical and Gynæcological Society, Professor Georg E. Rein showed (Fratch, No. 7, 1888, p. 136) a menstruating woman from whom be had about three years before remored a cyst of the right ovary weighing 37 pounds, fixing the pedicle in the abdominal wound. The patient soon recovered, and the wound. healed, but at one part of the scar thele remained a diminutive slough, which fell off just before the beginning of menstruation, its separation being followell by a constant flow of blood from the denuded surface during the whole catamenial period. The phenomenon had regularly recurred montlily ever since. As a rule, the scar begins to bleed somewhat earlier than the uterine flow makes its appearance. The menstrual blood from the cicatrix has a characteristic odour. It is difficult to explain such an occurrence. Possibly, a Fallopian tube or one of the uterine cornua had been stitched together with the pedicle into the abdominal wound. However, Irofessor Rein hopes soon to ascertain the nature of this interesting and'rare case, since the patient must underge a second laparotomy for disease of the left ovary.

THE NEW" EDITIONS OF THE "MEDICAL," "DENTISTS'," AND "MEDICAL STUDENTS' REGISTERS." The Medical Register, the Medical Students' Register, and the Dentists' Register were published on March 21st, and copies may now be had from Messrs. Spottiswoode and Co., the publishers to the Medical Council. The publication of these volumes is always awaited with much interest. and this year it will be found that under the able superintendence of the Councirs indefatigable Registrar. Mr. W. J. C. Miller, B.A., statistics and tables of greatl value have been prefixed to the Medical Register. from which it H appears that whereas the number added to the Register in $1877 \%$

Fas only 940, the number registered last year was 1,531, an increase of 591 . In 1306 , the first year in which such data as are now presented were ascertained, the total number on the Register was 2,2020 , while this year it amounts to 2,246 , an incrense of $\pi, 046$. Abont 66 per cent. of this number registered in London, 19 per cent. in Scotland, and 16 per cent. in Dublin. The increase in the number of registered medical practitioners may also be gauged by comparing the number of pages in the successive volumes; the number of printed pages in the Register for 1859 was 335 , in 1870 it was 548, in 1876 it was 598 , and this year it is 1172, an increase quite ont of proportion to the contemporaneous increment of population. The population of the United Kinglom at the present time, ineluding persons serving in the army and at sen, cannot exceed forty millions, so that it would appear that on an average there is one registered medical practitioner to every 1,480 persons. Among the statistics prefixed to the Medical Students' Regrster will be found tables showing the numbers registered in $188{ }^{-1}$ in each division of the United Kingdom as having passed the several recoguised examinations, and the numbers registered at each place of medical study. The Dentists' Register has been very thoroughly and carefully revised, a process involving much unnecessary labour, owing to the extraordinary carelessness of many registered dentists. This peculiar weakness appenrs to bave been anticipated loy the framers of the Bentists' Act, which (Section 12, §3) provides that the Registrar may send a notice to any registered dentist inquiring whether or not he has ceased to practise, that if no reply is received within three months, a registered letter is to be sent making the same inquiry, and that if the Registrar gets the letter back through the dead letter office, or, after another interval of three months, receives no reply, the dentist is to be deemed to have ceased to practise, and his name shall be erased from the Register. Soon after last Midsummer letters of inquiry were sent to all persons on the Dentists' Register: three montbs later a thousand registered letters had to be sent out to those who had not answered the first inquiry. By this meaus it has been possible to correct an unprecedented number of crrors. From the tables and statistics prefixed to the Register it appears that the unqualified Uentists were, in 1879, 4,806, or 91 per cent. of the whole, while the dental licentiates were 483; but in the present Register the licentiates have increased to 975 , and the unqualified persons have diminished to 3,889 , or 79 per cent. of the total, thus showing clearly a decrease of 12 per cent.

## SCOTLAND.

EXAMINER IN MEDICINE AND CLINICAL MEDICINE, GLASGOW UNIVERSITY.
Thp U'niversity Court at their last meeting elected Mr. Gulland, M.B.FAlin., to be Examiner in Medicine and Clinieal Medicine for the ensuing year. Mr. Gulland only graduated in medicine in August, 1886.

PHILOSOPHICAL SOCIETY, GLASGOW. At a large meeting of this society, Mr. Maylard gave a most interesting demonstration on bacteriology. Ne showed the processes and media adopted for the cultivation of bacteria, and amply illustrated the value of the study in its connection with the etiology of diseases.

MEDICO-CHIRURGICAL SOCIETY, GLASGOW.
Din. Jas. Finlayson reported a most interesting and rare case of recorery after embolism of the superior mesenteric artery in a Woman, aged 45 . The patient had heart disease, and morz
than a year before had had an apoplectic seizure. Dr. R. S. Thomson reported some oliservations on the treatment of whooping-cough in Belvedere Fever Hospital, with special reference to the influence on the disease of nitric acid, ergot, and chloral. After a long series of careful observations he concluded that none of these drugs exerted the slightest specific influence on the discase, but that choral diminished the frequency and soverity of paroxysms.

## SOUTHERN MEDICAL SOCIETY, GLASGOW.

Dr. Fleming read at paper on some notable surgical cases recently uuder his care. He reported five cases of intestinal obstruction, it one of which the patient recovered after inflation. He also reported a complete cure of traumatic epilepsy of eighteen months' duration by trephining, and successful cases of suprapubic lithotomy and nephro-lithotomy.

DISTAL LIGATURE FOR INNOMINATE ANEURYSM.
SOME weeks rgo, at the Glasgow Royal Infirmary, Professor Dulllop ligatured the common carotid and subclavian arteries for innominate aneurysm. We are glad to learn that the patient is doing well.

## MEDICO-PSYCHOLOGICAL ASSOCIATION.

THE quarterly meeting of the Scottish Branch of this Association was held in the Mnll of the Faculty of Physicians and Surgeons in Glasgow on March 8th. Dr. Watson was called to the chair. Dr. Yellowlees narrated his experiences in visiting a number of American asylums. Varions other membirs who had been is America joined in the subsequent discussion. Dr. Turnbull then read notes of a case of exophthalmic goitre with insanity. Dr. Ireland read a paper giving an account of a recent visit to the Institution for Idiots at Bergea. Drs. Clouston, Ilowden, Urquhart, and Yellowlees were appointer a committee to make arrangements for the annual meeting of the Association in August next, which this year is to be hekd in Edinburgh.

THE UNIVERSITIES (SCOTLAND) BILL.
The Government have at last taken the reform of the Scottish universities seriously in hand, and by the introduction of this Bill so carly in the session show a disposition to settle this long-vexed question. This Bill, as introduced, is drafted on broad aad liberal lines, and promises to effect what may be described as a revolution both in the administration and teaching of the universitics. The greatest changes are made in the constitution and powers of the Court. The present Court, with its limited powers, is to be swept away, and to be replaced by a large representative body with complete and sole control over the entire administration of the university, both financial and otherwise. This Court is to consist of the Rector, l'rincipal, head of any afliliated college, Lord Provast of the city; Chancellor's Assessor, Reetor's Assessor, four Assessors elected by the General Conncil, four Assessors elected by the Senate, two Assessors nominated by the Crown, and such number of the governing body of any affiliated college as the Commissioners may determine. The Sennte is to be restricted to tho work of tenching and the maintenance of diseipline. The Council is to have power of more frequent meeting and of adjourning discu*sions. The special commissioners appointed under the Dill are to possess fxecutive powers, to make new ordinances for the better regulation of the universities, to modify the composition and increase the number of the various faculties and to create new faculties, to appoint new professors and intra- or extra-mural lecturers, to antiliate colleges, and to make a eomplete medieal school at Dundee. They are also to regulate the admission of students to the universitics by examintion or otherwise, to
arrange their courses of study, the manner in which they shall be taught and examined, and by whom. The appropriation of the students' fees and the other emoluments of the universities, and the whole question of the salaries of the professors, are also left to their decision. Other sections of the Bill deal with questions f property and the amount of money to be advanced by the Treasury. . The Bill will no doubt eroke abundant criticism, but it will be readily acknowledged that it is by far the most compreltensive scheme of reform yet brought forward; in many respects it is the most rational attempt yet made to bring the work of the Scottish universitics into harmony with present requirements.
the technical college, glasgow. AT at recent meeting of the Governors of the Technical College, the chairman stated that the Senate of the University had made a favourable reply to the application for recognition of attendance at the Technical College as qualifying in part for the degree of B.Sc., and were prepared to bring the application under the notice of the expected Universities Commission. Ife also stated that the Senate, as custodians of the IIunterian Museum, had agreed to accept the gift of the zoological and ethnological collections, at present in Anderson's College Museum. In regard to this gift, the Governors of Anderson's College and the medical professors sent a strong remonstrance against alienating such valuable specimens from the College, depriving their professors of much useful teaching material, and the people of the east end of the city of a museum that was once a popular holiday resort. It came out in the discussion that followed that the museum had been practically closed to the public for some years, that it lad never been properly looked after, and that only one professor had used the specimens to illustrate a popular course of lectures now giren up. And, further, that the governors of the Technical College, to whom the museum now belongs, having no interest in any form of instruction except what is mechanical and technical, found an anatomical collection useless and an encumbrance, and were glad to get rid of it. It may seem hard that the professors of Anderson's College should be deprived of these raluable collections, but it was much too late for them to remonstrate after the gift to the University had been made and accepted. There is, moreover, much to be said in farour of Professor Young's contention that a large well-equipped museum
like the IIuuterian is the like the IIuuterian is the most fitting resting-place for such pccimens, as they cau there be properly displayed and 'in such urder as to make them more generally iustructive.

## TUBERCULOSIS IN CATTLE.

?he local authorities of Paisley aud Glasgow bave had an interiew with Lords Cranbrook and Lothian to call attention to the revalence of tuberculosis in dairy stock and the danger thereby aused to the community through milk supply and otherwise. rincipal McCall, of the Glasgow Veterinary College, has also ddressed a long and alarming letter on the same subject to the scal authority of Glasgow, in which he states that there are few owns in the three kingdoms, if any, where there are so many iberculous and emaciated animals sold in the open market as in lasgow. Ho thinks the reasons for this are that the persons Tho traffic in them are not sufliciently punished by coufiscation f carcases, and that it pays them to feed the inhabitants of Glasow and the West of Scotland on the abominable carrion. He is lso fully of opinion that the only remedy for this state of matters that tuberculosis should be included among the scheduled disises and so stamped out, compcnsation being given to owners as d pleuro-pneumonia, and he seeks to impress on all local authories that it is their duty to do all in their power to induce the overnment to act promptly in thie matter.

## IRELAND.

Dr. Eagleton, of Carrahoe, Galway, died last week from fever contracted in the discharge of his professional duties. The deceased gentleman was only twenty-six years of age, and his untimely death is much regretted.

Dr. Rorert Travers, Professor of Medical Jurisprudence in the University of Dublin, died on Tuesday, March 2ith. Me graduated in medicine in 1835, and was appointed to his professorship in 1864.
the late dr. john meenan.
As oil-painting of this lamented physician has been presented to the Mater Infirmorum IIospital, Belfast, with which he was for some time connected. Dr. Meenan had attained much popularity alike with the public and his professional brethren, and his untimely decease is deeply regretted.

## THE INSPECTORSHIP, LOCAL GOVERNMENT BOARD.

 The report that Dr. Edward Thompson, of Omagh, has been appointed to the office of Medical Inspector under the Local Goyernment Board, racant by the promotion of Dr. O'Farrell as yet lacks confirmation. Dr. Thompson is surgeon to the County Tyrone Iufirmary, and visiting physician to the district lunatic asylum. If the rumour should turn out to be true, this appointment also will have been given outside the service, and many very well-known and competent candidates trained as dispensary officers been disappointed.
## SIR PATRICK DUN'S HOSPITAL.

The Governors of Sir Patrick Dun's Ilospital have unfortunately incurred the displeasure of the Duhlin Corporation in regard to the building of a new fever wing. A newspaper writer directed notice to the fact that fever wards were being built close to several dwellings, and urged that a distinct element of danger would be introduced in that special locality. It was asked why the Corporation had permitted the building, but it has turned out that the contractor sent the plans to the wrong place, and that the wards were erected without the knowledge of the borough engineer, and, therefore, contrary to the law on such matters. It is not unlikely that the Corporation will require such modifications in the building as will meet the popular objections.

## BELFAST ROYAL HOSPITAL.

Av election was held on March 26 th. to till the post of housephysician, racant by the resignation of Dr. S. H. Dunlop, who retires after two years' service. There were three candidates, Dr. II. L. Mackisack, Dr. W. B. M'Quitty, and Dr. John Campbell, and much interest was taken in the election, the attendance of voters being one of the largest on record. The result of the polling showed a decisire majority for Dr. Mackisack.

## BELFAST DISPENSARY DISTRICT.

With reference to a paragraph published on March IIth, we regret to find that we were misinformed in stating that Dr. Spedding had been dismissed by the Belfasb Dispensary Committee. Dr. Spedding tendered his rexignation to the committee at its meeting on March 5th, and it was accepted by the Local Government Board in a letter dated March 22nd. Dr. Biggar has been traniferred to the district formerly held by Dr. Spedding, and to fill the racancy thus created an election was held upon March 2bth. There were six applications, but the contest lay virtually between Dr. Osborne, who has been acting as locum tenens for some time, and Dr. J. C. Ferguson, of the Belfast Union Hospital. The former was successful at the final ballot, and was deciared duly elected.

MEMORANDUM FOR THE INFORMATION OF MEDICAL PRAOTITIONERS IN REGARD TO THE EMPLOYMENT OF UN QUALIFIED ASSISTANTS
A.-On April 21 st, 18s9, the Gencral Medical Council passed the following resolution:
"That the Conncil records on its minutes, for the information of those whom it may concern. (hat charges of gross misconduct in the employment of minnalified assistants, and charges of dishonest collusion yith macqualified practitioners in respect of the signing of medicill certifleates required for the purposes of any law or lawful contract, are, if brought before the Council, regarded by the Conncil as charges of infumous conduct under the Medical Act."
B. - On Nopember 20th, 1886, the attention of the Council liaving been directed to this resolution, it was determined that steps be taken with a riew of making it public ; accordiugly, on July 25 th 1887, the Exceutive Council resolvel that it should he inserted twice, at an interval of a montlı apart, as áu advertiscment in the following medical journals: Lancet, Bretris Medical Jourval, Medical Press and Circular, Pronincial Medical Journal, EdinZurgh Medical Journal, Glasgore Medical Journal, Dublin MEedical Journal.
C.-On November 2end, 1887, a report was adopted by the General Conncil stating that, as a consequence of the publication of the' foregning havertisements, a number of letters chiefly markei "Private" on the snbject of the employment of unqualified assistants had been received ly the Registrar. The report proceeds as follows:

From these communications, from notices in the newspapers, anil also from common report, it is evident that magistrates, coroners, county court judges, and other representatives of the public sense of justice, as well as medical men themselves, are becoming alive to the professional misconduct of registered practitioncrs who place patients under the sole clarge' of unqualified assistants.
"The ndministrators of the law regard as implicit frnud any claim of payment for the serrice of such substitute assistants. when it is represented as 'medical attendance.'
"This fact is encouraging, for when it is found that the ownet of $\Omega$ ' branch practice' cannot get a claim allowed for the services of his unregistered substitute, and, moreover, that the protection of a "corer' does not enable the unregistered practitioner to recover charges, these two kinds of irregular practice will probably not long continue to exist in this country."
D.-Since the date of the foregoing report, a case of the misemployment of an unqualificd assistant has been, brought before the notice of the Council and adjudicated upon; and the registered practitioner concerned, having been informed of the grave disapprobation with which the Conncil regarded his 'conduct, promised at oner to discontinue the practice condemned. Other cases have also been brought under the notice of the Exccutive Committec.
F.- In the prosecution of their desire to put a stop to this Krongfal practice, the following resolution was passed ly the General Council on Sovember 26th, 1857:
"That it be referred ta the lixecutive Committee to consider under what circumstances a registerud medical practitioner would render himself liable to the censure of the Council in reforence to the employment of uncualified assistants."
F.--On February 27 ch , 1888 , the Executive Committee, without attempting to mike a formal Iefinition of the misconduct in question, reparted to the fieneral Chuncil that, irr its opinion,
" -1 rogistered miedical practitioner would remder himself liable to the consure of tire Medical Council in case of the employment of an ungualified assistant in the practice of medicine, surgery; or midwifery on lohalf and for the benefit of such rogistered practitioner, either in complete substitution for his own servicas, or under circumatances in which due personal supervision and control are not, or cunnot be, oxercised lyy the snid registered practitioner."
The Executive Committec also stated, in reference to the procedure kuown as "covering," that in its view a registered practitioncr covers mu unregistered person, when he docs, or assists in doing, or is party to, any act which enablea such anqualified person to practise his if he were duly qualifed.

The fixecutive Committee furthermore called attention to a ro-
solution passed by the General Conncil on April) 21 st , 1883 (rol. xx p. 91), Which implies that, in the Council's opinion, "any registered practitioner practising for gain, who knowingly and wiffully deputes a person' not registered or qualified to be" registered under the Medical Act to professionally treat on 'his hehalf, in any matter requiring professional discretion or skill, nny sick or injured person 'should' be subject to the same legal liebilities as a person who falsely represents himsclf, to be a leyally qualifiod medical practitioner; hut with special proviso that such cnactment 'should' not linder any duly regulated training of pipils in' mettical schools or otherwise by legally qualificd practitioners, nor the use of trained pupils in partially treating the sick or injured under, the direction, supervision, and responsibility of such practitioners, nor any legitimate employment of nurses, midwives, or dispensers."

John Marshale, President.
March 1 st, 1888.

## ROYAL COLLEGE OF PHYSICIANS.

On Monday,' March 26th; the daty after Pulm Sunday, as required hy statute, an extraordinary comitia was held for the election of a President. There was a rery large attendance of Fellows, and the chair was taken by Sir William Jenner, Bart., M.D., K.C.B., tho has been President of the College for seven years. Before resigning the chair, Sir William Jenner delivered his annual address, narrating the history of the College dining the past twelve months, and concluding with an account of the lives and labours of the Fellows deceased in the same period, of whom tho most distinguished were Dr. Wilson Fox and Sir George Burrows, Bart.
The by-law regulating the proceedings for the clection of a President haring been read by Sir Menry Pitman, a ballot wha taken, with the following result: Dr. Quain, 46 vot 8 : S Sir Andrew Clark, Lart., 42 votes ; Dr. Wilks, 25 votes; Dr. George Johnson, if votes; Sir F. Sieveking. I2 votes; Dr. Andrew, \& rotes; and 1 vote each for Sir H. Pitman, Sir TV. Gull, Bart., Dr. Bristowe, and Dr. Charles West.
'To Fellow' haring obtained tro-thirds of the rotes, a second hallot was taken for the two highest, Dr. Quain and Sir Andrew Clark. The result was: For Sir Andrew Clark, Bart., 79 votes for Dr. Quain, 71 rotes.
Sir Andrew Clark, Bart., was thus elected President, and was duly admitted to that office ly the Senior Censor. In a few fitting words he acknowledged the honour conferred upon him, and promised to maintain the honour and dignity of the College.

## ASSOCIATION INTELLIGENCE.

## COUNCIL.

notice of meeting.
A mfeting of the Council will be held at the Offices of the Association, No. 429, Strand (corner of Agar Street), London, on Wed nesday, the 18th dny of April next, at $20^{\circ}$ clock in the afternoon.

Fraveis Fowke, General Secretary.
March 15th, 1898.

## NOTICE OF QUARTERLY, MEETINGS, FOR IEss. <br> ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by nny by-law of the Association, who shall be recommended as cligible by any three members, may be elected a menber by the Cbuncil or by aay recognised Branch Council.
Aleetings of the Council will be held on April 18th, July 18th and October 1ith, 1888 . Candidates for election hy the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely. Narch 28 th, Junc 27th, September 26 th, and December 28th, 1888.
Candidates seeking election by a Brancb Council. should apply to the Secretary of the Branch. No member can he elect oul by a brancl Council unless his name las heen inserted in the circular summoa ing the meeting at which he seeks election.

Francle Fowkr, General Secretary.
COLLECTIVE INTESTIGATION OF DISEASE.
The Report upon the Connection of Disease winil Ilabits oi Intemperance, which was presented to the Section of Medicia
in the Annual Meeting of 1887 will shortly be published in the Journit

Reports upon the two remaining inquiries, namely, that into Drphtheria, and that into the Geographical. Distribution of certain.Diseases, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on The Etioloay of Pietisis.
A fresh inquiry into the Origin and Modr of Propagation of Epinrmics of Diphtheris has been issued.

Memoranda upon these subjects, and forms for recording observations, may be.had on application to the Secretary of the Collective Investigation Committec, 4झ9, Strand, W.C.

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## BRAÑCII MEETINGS TO BE HELD.

South Walfs asd Movmouthseire Braver.-The spring meeting of this Branch will be held at Pontypridd about the second or third week in April. Members wishing to rend papers, eto., are requested to send titles to either of the Honorary Secretaries by the end of March, in order that they marb be inthe Honorary Secretaries by the end of March, in order that they may be in-
serted in the circulars.-AIFRED SHEEX, M.D., Cardiff; D. Arteur Davies, serted in the circulars.-ALrened SH
M.B., Swansea, Mooorary Secretaries.

Metropolitan Covaties Brancti : Eist Lomon ant South Essex DisTRICT. -The next meeting will be beld on Thursday, Aprill 19th, at the Hackney Town Hall, at S.30 P.M. The.chair will be Laken by F. M. Corner, Esq. A paper on the Surgety of Abscess will he read by Moward Marsh, Esq. Visitors will be Welcome.-J. W. H.ENF, IOI, Queen'e RJad, Dalstod, IIonorary Secretary.

Wfst Somicrset Braxch,-The apring meeting will be held at the Railway Hotel, Taunton, on Thursday, April 12th, at 5p.m. Dinner at 5.30 p. M. The subject settled by the Council to be discassed after dinaer is Boae Setting. Mr. W. J. Penny, Assistant-Surgeon to the Bristol General Hospital, and Demonstrator of Anatomy to the Bristol Medical Sohool, his kindly pronised to come and open the discussian. The election of representative of the Branch on the Council of the Assnciation for the ensuing year will take place at this meetion -W. M. Kklly, M.D., Tauatan, Honomry Secretary.

South-Fastery Brasici: Wfat Kait District.--The next meeting of this District will take place on Eriday, April 27th, at the Hospitsl, Gravesead, R.J. Bryden. Esq., in the chair. Gentlemen desirous of reading papers or exhibiting specimens are requested to inform the Honorary Secretary of the District not later thau April sth. Further particulars will be duly announced. -A : W. Nankiyeni, F.R.C.S., St, Bartholomew's Hospital, Chatham, Honorary Sec retary.

North of Englayd Braych.-The spring meeting; will he held at the Infirmary, Sunderland, on Wednesday, April 25 th, at 3 P.M. Members intending to read papers or show specimens are requested to communicate at once with the secretary. The dinner after the meeting will take place at the Queen's Hotel, at 50 clock. The following papers are already promised:-Dr. Hume: A Case of Congenital Fistrula of the Stomach, Curea by Operation. Dr. Colev On the Treatraent of Effusion iuto the Pleura in Children. Dr. Murphy A Man 222 Days after Gastrotomy. Dr. Oliver: Notes on an Unusual Case of Hæmaturiai-G. E. Wrlismson, F.R.C.S., 22, Eldon Sqaare, Newcastleon-Tyne,-IIonorary Secretiry.

Vortif of Irfiand Branch.-A general meeting of this Branch will be beld in the Royal llospital, Belfast, on Thursday, April 19 th , at II A.M. Gentlemen who wish to bring any buslness hefore the meeting will kindly communicate as early as convenieui with Jown W. Bzers, M.D., Lower Crescont: Belfast, Honorary Secretary.

OXFORD AND DISTRTCT BRASCT..-The next ?meeting will be held at the Rain elife Infirmary, Oxford, on Friday, Aprif 2 th, at 3 p.as. Notice of papers to be read must be sent to W. Lewis Morgan, 42, Brood Street, Oxford, oa or before April 15th. A dinner will be provided for those members who siqnily their inteltion to dine. to the Secretary two days before the meeting.-S. D. Darbishire and W. Lewis Morgay, Iouorary Secretaries.
Sotithern Brasch : Sotipmampton Districtu-The next meeting of this District will he held on Tuesday, April 10th, 1838, at the residence of Dr. Madean, C.B., 2Q, Cirlton Crescelit, at 'S p.ar. Buslness : Eilection of oficers. Passing of accounts. At the same time, a joint meeting with the Snuthampton Medical Society will take place. when a pipar will be read by Brigade-Surgeon Gorwin, M.S., on the Treatment of Wounds of the Atwiomina! Viscera. Dr, L. Association and Branch subscriptions ase, with specimen, of Monster Birth. Association and Branch subscriptions lor current year, amounting to fl Rs. Bi,., vecanie due on Jannary ist, and may be paid th the Mororary Secretary as boon, ag convenlent, Thisopa. W. TaEid, M.D., IIonorary Secretrary, Br $_{\text {r }}$ Anglesen Place, Southampton.
Sodthers Branch: Soutu-East Hayts Dhetriot.-Ordinaer meeting at the Grasyenor IIotel, Queen's Gate. Southsea, am Thursiay, April $12 t h, 1383$. The chair will he taken hy the l'resident, Dr. James Watson, at 4.15 P.3. Gentlemen who are desirous of introluring parients, exhibiting natholarieal specimens, or making communications are requested to signify their intention it once to the Itonorary Secretary. Dinner will be provided at 6.30 p.3n:charge, ss., exclusive of winc, etc.-J. W'ARD Cousiss, Honorary sceretary.

NORTII WLLES DRANCH,
The intermediate meeting wus Leld on Tuesdar, March E0th, at the Pwllycrochan IIotel, Colwyu Bry, undex tie presid ney of Ghalles Wrilliasss, Esq.

Vew Members.-Mr. J. Owen Jones, Flint Dispensary, IIolytell, was elected a member of the Association and Branch; and Messrs. E. Parry Edwards-and Alfred W. Inghes, Flint, of the Branch.

Treasurer's Report.-The accounts of the Branch for the year 1887, showing a balance of nearly $£ 4$ in hand, were read and confirmed.

Archifects', Survejors', and Engineers'. CompuLenry Registration Bill.-It was resolved that the members should petition in its favour.

Payment of Fees to Medical Witnesses in Civil and Criminal Cases.-After a discussion initiated by Mr. Richard Williams, and taken part in by Drs. Jmiach and Griffitii, and Messrs. Bickerton, Jones-Morris, aud the President, it was unanimously resolved; "That the members of the North Wales Branch, having had under consideration the question of fees for atfendance in courts of law, beg to declare their opinion (1) that in cinil cases the law should be so altered as to place services rendered in the witness box on the same footing as any other professional services; ( -2$)$ that the present scale of remuneration for attendance in criminal cases is wholly inadequate."

Tote of Thanks to President.-On the motion of Dr. Roberts, Menai Bridge, seconded by Dr. Griffith, Portmadoc, a rote bf thanks was passed to the President for his address at the annual meeting.

Papers.-Mr. Bickerton related the history of two cascs in which he had removed a piece of glass which had lain in the eye for seven and ten years respectively with complete success, sliowing the foreign bodies, and illustrating by diagrams the line of incision in each case and the condition of the eye at the time of operation:-Mr. L. F. Cox related the history of two cases of Climacteric Insanity.-Dr. ImLAch read the report of a case of Hystero-epilepsy of twenty years' duration cured by removal of the Uterine Appendages.--Mr. Robert Jones read a paper on the Causes of Non-union in Cases of Fracture, and remarks were made by Dr. Gaiferth and Mr. T. L. Jones.-Dr. Johs: Robeets showed some Pneumococci from a Case of so-called "Creeping Pneumonis." and gave the history of the case, and made some remarks on its pathology.

Consuitation with Homoepaths.-Dr. E. J. Lloyd introduced a discussion on this subject, which wes taken part in by the majority of the members present. No resolution was passed, the evident sense of the meeting being that it was not well to alter the present rule of the profession.

## SOUTII-EASTERS BRANCH: EAST AND TEST SUSSEX DISTRJCTS.

A consonst meeting of the above Districts was held at Brighton, on March 22nd. Dr. Moore (in the unavoidable absence of Mr. Salzmann) took the chair.

Next Meeting.-Resolved: "That the next meeting be held at. Ilastings in May.

Representative of Branch on Council-Mr. G. F. Ifolgson, of Prighton, was nominated as a representative for Sussex on the Council of the Association.

Communications.-The following papers were read: Dr. Starling: A Case of Fibroid Induration of the Stomach.-Mr. Howarn MAnsh: Recovery after Laparotomy for Intestinal OlistructionDr: MLicker showed cases of Lupus Erythematosis. Inpus Von Excdens, and Selorrhoeh.-.Mr. Verrata. : A case of Lupus Exedens. -Dr. Macher read Notes of Treatment; all the lupus enses, including Mr. Verralls, being treated locally with resorein ointment. -Mr. Ferball: A Case of Nephrotomy for henal Calculus.

[^57]
# SPECIAL CORRESPONDENCE. 

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
IIcemoglobinuria in Rhemmatism.-Arsenical Rhinitis.-Paris W"ater-Supply.
AT a recent meeting of the Sociéte llédicale des IIopitaux, M. Hayem made a communication on hremoglobinuria in rheumatism. The patient, a woman, aged 37 , was attacked with rheumatism in 1886, and again in 1887. She was then suckling her sixth child. Six days after the second attack came on she entered the hospital. The urine was completely red; there was pain, adynamia, rheumatic œdema in the arms and liands, copious perspiration, rheumatic preumonia of the right lung, followed by symptoms of pericarditis. The uriue, which was scanty at first, became abundant, and the patient rccovered. She did not lose her milk, and began to suckle her child again. The urine presented the characteristics of hemoglobinuria: it contained no red corpuscles, but a large proportion of albumen and white corpuscles. The blood was normal. This case shows that hæmoglobinuria may appear during an attack of acute rheumatism. It differs from hæmaturin in that the urine contains neither red corpuscles nor stroma. Rheumatic nephritis evidently existed in the case described by M. Hayem. The serum of the blood was not modified during the attack of hrmoglobinuria, and the red corpuscles were not dissolved by the uriuc. M. Hayem ascribes the hemoglobinuria to the existence of renal mischief. M. Bucquoy cited a case which he had observed twenty years before of paroxysinal hemoglobinuria a frigore. The patient passed black urine when he was ont of doors. The urine became normal when he was indoors. The patient was rheumatic but not albuminuric. At the time paroxysmal hrmoglobinuria a frigore was not properly known. M. Hayem observed that such patients must be regarded as suffering from the effects of cold. The remal lesion, which undoubtedly exists, is not persistent; it is only during the attacks of hemoglobinuria that albumen is observed in the urine. M. Albert Robin cited tro cases of hromoglobinuria. In the first the patient had a genuine attack of acute rheumatism. The urine became red; there were no traces of red corpuscles; there was considerable albuminuria. Symptoms of inflammatory nephritis soon showed themselves. In the second case hrmoglobinuria appeared before rheumatism. In both cases there were unmistakable signs of sovere inflammatory nephritis.

Dr. A. Cartaz mnde, some little time ago, an interesting communication to the Société Clinique of Prris on a case of arsenical rhinitis. Workmen handing arsenical products are often subject to accidents of this nature which, commencing with coryza, lead to deep ulcerations, and ultimately to destruction of the mucous membrane and perforation of the septum. The affection is identical with that obsersed in workmen employed in manipulating chromic salts, only in the latter case the course of the disease is generally more rapud. Notwithstanding the extensive ulceration and profuse sanious diseharge, there is scarcely any ozena. It would seem as though tho deleterious substances neted as parasiticides, and prevented the putrefaction of the climinated products. This opinion has been already expressed by J. N. Mackenzie with regard to the necidents caused by chromic saits. The sense of smell is not generally much affected. The case under consideration was that of a man. aged 48, employed in a manufactory of arsenical colours, Mittis green, and Sehweinfurt green. Ile first came to the hospital in 1885. Ilis general health had always heen good. Ile commenced handling arsenical products at the age of 17 , and continued that trade without interruption until he was 30 years old. lle had only now and then slight ulcerations on the arms, thighs, penis, and acrotum; these ulcerations had disappeared under treatment by baths and sulphate of iron lotions. He lad had on tro or three occasions deep ulcerations of the fingers. At the age of 25 he contracted simultaneously gonorrhoca and chancre, as to the nature of which he could give no information. Up to this time he had never been occupied in younding or sifting arsenical products. From 30 to 38 he was employed on other work. At 33 he resumed his first trade, but this time was much employed in sifting. At the age of 43 he had facial paralysis a frigore. He remained a fortnight in hospital, but was subjected to no internal treatment, the only trace left of the paralysis being a aligl $t$ devintion of the right commiesure of
the lips. He then returned to his work, and from that moment crusts began to form in his nose. Soon afterwards he noticed a swelling of the right side of the root of the nose, and considerable suppuration ensued. On examination perforation of the septum was discovered. Syphilis being suspected he underwent \& severe specific treatment, followed by a month of mixed iodide-mercurial treatment, withont any effect. At this period Dr. Cartaz took charge of the case. The patient had then discontinued his work for a month, and there were no ulcerations on the fingera or other parts of the body; the nose, however, appeared much damaged. It was flattened, deviated to the right, and very red; the point was swollen, the skin tense, and erysipelatous-looking. On the left side there was some bony overgrowth affecting the bones of the nosc and the nasal process of the superior maxillary. This tumefaction filled up, as it were, the interanl angle of the eye. Rhinoscopic examination shored that the cartilaginous septum had completely disappeared, while the turbinate bones on the left with presented extensive though superficial ulcerations coverel greyish red, and slighty swollen. The edges of the remer were eroded in places by superficial necrosis, and at severn point higher iup the probe touched bare bone. A small sequestrum was detached. The left middle and lower turbinate bones were destroyed. There was not much discharge, and but little smell. The pharynx was of a deep red colour but without ulceration. Washing out with disinfectants was employed, and the patient to continue treatment, consisting of sulphur baths, nas instructed tions of chloride of bismuth and iodoform, with iron insufflations of subnitrate Some time fiterwards be returned to his previous work, two months the symptoms came on again as severely as before He then definitively gave up) his old occupation, and his condition gradually improved.

At a meeting of the Sociét $夭$ de Módecine Publique et d'Hygiène Professionelle, M. Bechmann, chief manager of the water supply of Paris, announced that in 1884 some benutiful springs of pure fresh water had been purchased by the city of Paris. Until now these springs have not been utilised, and at certain times water which is known to contain typhoid germs is distributed to the inhabitants of the city. M. Bechmann has tried to prove that the assertion made by Dr. Brouardel and other medical men that the Seine water contains poisonous principles is unfounded. Ile admits that this water is not altogether harmless, but gives statistics to show that during the distribution of Seine water last summer tha rate of mortality from typhoid fever was lower in the arrondissements to which it was distributed than in those which were supplied with water from the Vanne and Dhuys springs. M. Beehmann quite passed over the fact that in a convent inliabited by 300 persons in the nineteenth arrondissement on epidemic of typhoid fever was produced by the use of Seine water. Witlin ten days 132 of the inmates were attacked with toxic, septic, and typhoid symptoms. M. Mosny's report on the use of pure drinking water at Vienna and the consequent diminution of typhoid fever in that city, furgating the strongest evidence of the infuence of water in propagating this and other affections. Since tho town was supplied
with new water-pipes no Vienna. Dysentery, which killed about has been recorded in year, has disappeared since Vienna was furnished with a supply of pure spring water in 1874. In 1877 this water was temporarily replaced by Dannbe water in certain quarters of the town. A terrihle epidemic of typhoid fever was the consequence. Siuce hienna has been exelusively supplicd with spring Water, typhoid
fever has almost disappeared, lospitals is a rare occurrence. M. Mosny is perfectly convinced that water is the prineipal agent in transmitting typhoid fever. and that the only means of suppressing this affection in a town is by supplying the inhabitants with large quantitics of absolutely pure water. In replying to M. Bechmann's statements as to the rate of mortality from typhoid fever in Paris during the time that
Seine water was distributed, M. Brouardel and M. Chantemess observed that it was only twelve or fourteen days after this water was supplied that its effects conld be demonstrated, and that death from typhoid fever usually occurs four or fise weeks nfter the appearance of the affection. M. Bechmann's table of statistics records six deaths from typhoid fever during the fourth week after the Seine water was supplied, fourteen deaths during the fifth and sixth week, twenty-nine during the seventh week
thirty-six during the eiglith, and forty-four during the thirtecnth. The mortality dirl not liminish so rapidly as might have becn expected when spring water was substituted for Spine water; but this M. Bronardel attributes to the microbes deposited in the water-pipes by the Seine water. He considers it most essential that the Grovemment autlorities should immediately take the neeessary measures to utilise the springs that were purchased four years ago, and considers that tle immunity of the inhabitants of Paris from typhoid fever is more necessary than the establishment of a metropolitan railway, which the Government is bent upon carrying out before adopting any other measure.

## BERLIN.

[FROM OUR OWN CORRESPONDENT.]
We are living lunder the sign of Cancer. Cancer is the subject of discussion in all medical assemblics, from the cancer-bacillus of Ur. Scheuerlen to the operative remoral of carcinomata in the different organs. Cancer forms the subject of private conversation among medical men, and alko among the laity. "What do you think of the illuess of the Crown Prince? "the principaJ question till lately, has now been altered to: "What do you think about the illness of the Emperor ?" Our Emperor Frederick enjoys an extraordinary popularity, and the whole interest of Germany is concentrated on the great question: "Ilow long?" In these questions the position of Sir Morell Mackenzie is rery much discussed. There is a large party of laymen and, unfortunately, also of medical men who hate him. The former do so from Chaurinism because they are foolish enough to believe that the honour of German science is wounded by an Englishman being the first rlysician of the German Emperor. His professional detractors accuse him of laving, by his optimism, prevented a radical operation being undertaken whilst there was yet time. IIowever, happily, there is a much larger number who are thankfuj to him for having jrolonged for some time so precions a life; and he enjoys infull measure the confidence of IIis Majesty the Imperor himself, and of his ilhstrious consort. It is just announced that Dr. Jerman Krause has been named Jrofessor.

## SWITZERLAND.

[FROM OUR OWN CORRESPONDENT.]
The "Bund" on Einglish Practitioners in Sucitwerland; Iemorandum of the Schweiverisehe Aerzte-Commission: Memorandum of the Société Vaudoise de Médecine.
In excellent paragraph on the recent decision of the Bundesrath sce the Journal., Mareh 3rd, 1588 , 1). 420) has just appeared in he Bund (March I9th, lS88). Iccording to the correspondent (a Mr. "S." of Genera probably a Swiss medical mani), the decision of the Federal Council "affords a striking proof that the questions elativo to medical practice are still settled on the ground of a harrow-learted protective-duties' theory (schutzallltheorie), which night be logical enough with regard to commercial articles, but nost assuredly apjear quite absurd when applied to medical aid o sick and suffering fellow men...... The very fact that a medical man holding a British diploma can be prolibited from practising midst his countrymen abroad is nothing but an obvious and ntenable anachronism, thougla it might answer to the spirit of
ur (Swiss) medical laws. Or passibly tho Swiss practitioner tands in sad need of legal protectiou in his business from foreign ompetition? Now, if there is nnything on which competition nl even over-supply might be useful to the community, it is just ie medical help to the sick. $i s$ a matter of fact, lowever, lare is no fear of competition or of over-supply of the sick tarket with slilled metlical help from granting facilities to Engsheractitioners to settle in the Swiss liealth-resorts, for the wish cpressed hy the lugadine colnnies (adide the douncilu, February $\left\{\begin{array}{l}\text { th, p. } 33 \pm \text { ) is an ontcome of a real necessity. and is most inti- } \\ \text { atcly connectel with the foreign industry ( } r \text { remadenindustrie), }\end{array}\right.$ lat is, with a prosperous developuent of our foreigners' stations Fremdenstationen). Foreign practitioners generally attract to us cir comatrymen, and give the widest possible publicity to the imatic ad rantaces of our country, as well as to our leealth-resorts ld hotels. Because a Siviss physician practises in London withIt an English qualification, scores of our health-resorts, hatels, muner stutions, etc., are to suffer heavily ly losing the largest went of their prosperity! It is simply absurd. IInve Gerinany
d Italy phohibited Sin Jorell it d Italy prohibited Sin Morell Ntrekenzie, and Italy Irofessor n Bergmann from pribetising it Berlin aul San leino, thongh
without local diplomas? Supposing that Her Majesty the Queen lad come to Switzerland; would her medical attendant be prohibited from practising medicine? Or, given a British subject who did not happen to speak Germanor French; is he bound in duty to consult a Swiss practitioner, notwithstanding the fact that the patient cannot possibly understand the doctor, nor the doctor the patient?" After alluding to other absurdities of the same kind, the correspondent of the Bundlaysdown a principle which will certainly find acceptance among enlightened merabers of the medical profession all over the world "Science," he, says, "is cosinopolitan, and the
practice of any scientific calling must be founded on the most practice of any scientific calling must be founded on the most liberal basis, absolvtely free from any degrading spirit of a caste or a trade corporation," A different sparit is shown in the two official documents which have beenpublished here, one from the $S$ wiss Medical Committee (Schweizerische Aerzte-Commission), the other from a Special Committee of the Société Vaudoise de Médecine. Woth of them are addressed to the Swiss Ministry of Interior, which is urged absolutely to refuse the "reciprocity" between Great Britain and Switzerland as regards medical practice. which was a couple of months ago proposed to the Federal Coincil by the British ambassador at Berne. Poth dacuments lay stress on the general inferiority of English. medical meu as regards scientific training and professional ability to Swiss practitioners, and argue that the proposed bargain would be altogether in favour of the former, whilst the latter would receive nothing like an equivaleut in exchange. This attitude is, no doubt, admirably logical, but it is, perlaps, another mark of our inferior intellectual training that it strikes us as extremely unwise, from a practical point of riew. Granting that English doctors are, on the whole, poor creatures, it is nevertheless true that their sick countrymen prefer them to the superior beings radiant with the culthire of Berne, Zurich, and Geneva, Who wish to supplant them. This is national prejudice, perhaps, but it is none the less a hard fact against which the most faultless logic is of no arail. Whatever may be thought of British qualifications, there can be but one opinion as to the effect of Finglish visitors on the prosperity of Switzerland, and the Federal Government may be trusted not to drive away such useful guests, merely to gratify the jealousy of a feiv native doctors.

## CORRESPONDENCE.

## The election of presideat of tile college of PIIYSICJAVis.

Sir, - The result of the election of President of the Royal College of Plysicians has given satisfaction to many; but a protest nutst be made against the means by which this result has heen attained; to some extent they involve a departure from precedent. Canvassing was had reconrse to, if not in favour of one candidate, yet against another. It is now known that a portion of what is called "the College party," supported by the popularity of the Registrar of the Callege, used its influence in a certain directiou. It would, in my opinion, be more becoming if the officials of the College in future were to alstain from such interference, and to lease the Vellows entirely free in choosing their President.-I am,
etc. etc.,

ONE OF THE FELlows.

## THE BUDGET.

Sm. -1 think a strong, unanimous, and active opposition should he started at once against the proposal of the Chancellor of the Fixchequer to tax loctors' horses. If great efforts are not made during the Easter recess, the intolerable injustice will be completed. I at present pay $£ 1$ los. tax for a groom and trap. Linder this iniquitons scheme my taxes will be raised to $£ 3$ los. for the one item of conveyance alone, Beside the monstrous income-tar. with trade as depressed as it has been, such a burden will be of serious import to many country doctors.-1 am, etc.,
MexJorough, near kotherham.
W. SyEfs.

Sim, The new budget of Mr. Goschen seems about to place another burden on our already overweighted professiou. I see that it is proposed to exact a fresh tax of $£ 1$ for every pleasure horse, and doubtless, unless some steps are promptly takeu, the absolutely necessary horses of struggling medical practitioners will he reckoned under this eategory. Surely somuthing might
be done, through our representatives in Parliament, to have it
definitely settled that our horses shall be regarded as heing kept for purely business purposes, as much so as in the case of any traderman, for it could never he asserted in the case of the latter that his horses are not at times nsed for other purposes. -1 am , etc.,

Major Greenwoon, jun., M.D.
18, Queen's Road, Dalston, E., March 27 th.

## CONSULTATION WITH HOMGOPATIS.

Sir, -As a member of the British Medical Association and one of the oldest practitioners in Cheltenhaza, I protest, in common with Dr. Needham, ngainst the recent rote of the Gloucestershire Branch of the Association being regarded as any fair criterion of the feelings of the profession generally in Gloucestershire as regards meeting homacopaths in consuitation.
Let the homeopaths drop their distinctive appellation and cease to delude the public with the idea that they possess a new and improved methodus medendi, and professional fellowship will be conceded as a matter of course. Until they do this no rapprochement is possible or desirable. I am, etc.,

## Cheltenham.

W. Philson, 3.D.

## LIGIITING BY GAS

SIR,-The cxamination of the varions methods of lighting by gas has been an interest to me for some time. I lope the following notes may be of use to those who, like your correspondent "F.R.C.S.Eng.," wish to know how to obtain light in the least objectionable manner.

So long as gas, as supplied by the companies, contains the usual excessive sulphur impurity, and the gas is burnt in the usual wasteful fashion, and ordinary sitting-rooms remain unventilated, so long will gas prove more or less objectionable. As a rule, with the usual fittings which the plumber supplies, about twice as much gas is burnt and paid for as is really required.

Gasburners of the better class may be divided into

1. Regulated flat flames, such as the antomatic governor burners of Sugg, Peebles, and others, varying in price from one to six awidlings. These obtain the full parliamentary standard of sixtecn candlesirs. and sometimes slightly more.
2. Regencrativier buruers. These are mostly of the Argand type, large, costly, and, 115 : the cheaper forms, somewhat unsiglitly, They require, moreover, ${ }^{n c}$ ather careful looking after, and are apt to get choked with soot. 1 They are, on the other hand, rery economical in working, giving wabout 50 per cent. more light than the simple burners; and the lige ht is extremely pure, white, and ateady: Of this type are the Werthom and Cromarty lamps. Quite recently some new forms have betcon brought out hy $\mathbf{F}$. Siemens, recently which one, a simple Argand sellileng for a few shilings, gives a most briliiant light, and, if fitted whith a regulator, ought to he very useful when a strong light is regunired for professional purposes, such as the examination of the lan rynx, etc. It is far superior to all other non-regenerative Argandsy in the market.
There remains another class-mamely, the to incandescent lightsof whieh the "Auer-Welshach" is lest khenown. This gives an extremely brilliant light at a most economica. 41 rate if the pressure he high-say two inches of water. At a presu ate it below an inch and a half it is not worth haring. It is simple... in construction, hut the " mantle," which is rendered incandesceit in by a Bunsen flame, is very fragile, and, if not accidentally bre oken, requires occasional renewal. In some parts of America, where, "water gas" of low illuminating quality is supplied at high pry essure, this method of lighting is found to answer very well. The price, however, of the burner is very high, and at the present extes some mantles.

Of the large number of carlmretters which have been int isoluced, the "albn-carbon," in which ordinary gas is enriched "by the is brilliant, steady, and very economienl of gas. It has, hors light the disadrantages of requiring attention to the supply oierer, "albo-carlon," of not giving its full light till some time after, the lighted, while at times, if not properly attended to, it gives ' it is disagreeable odour. It will he seen that a light rarying foff a about two candles and a half to about eight candles perfoo rom gas consumed can be obtained, according as a common burner tror a more artificially-constructed one is used.
Erery room which is lighted by gas should have an outlet,
Every room which is lighted by gas shoular or a tube op near from the centre of the ceiling into the chimney. If a regtening
tive lamp be placed under this opening, no ineonvenience will be felt from the gas.-I am, ete,

Ernest H. Jacob, M.D.
Leeds, March, 1888.
TIIE CAUSATION OF HAMMER TOES.
Sir,-I was much struck by the remarkable unanimity of opinion that existed as to causation of hammer toes between the reader of a paper upon the treatment of that deformity at a recent meetiug of the Medical Society and the majority of those who took part in the discussion upon it. I have dissected a very large number of feet affected with hammer toes, abducted toes, and those of two female subjects affected with marked flexion of the metatasso-phalangeal joint of the great toe, and in not one of them was it neeessary to explain the change in the normal position as being dependent upon what appears to me to be so obviously the effect of the displacement, namely, the altered condition of the ligaments. Why should we not explain simple abduction of the great toe as heing produced by primary shortening of a ligament? The reason is that the canse is so obvious, but if the condition is a more complex one, and when the pressure rery frequently acts indirectly and not distally, the deformity called hammer toes, like many other acquired deformities of the human borly, is attributed to a change which is an effect and not a cause.

I have discussed the question rery fully in a paper on the Causation of Deformities in the last number of the Guy's IIospital Fieports, so I will not do more than refer to it here.-1 am, etc., 14, St. Thomas's Street, S.E.
W. Arbethiot Lane.

## LOOSE BODIES IN TIIE KVEE-JOINT.

Srr,-In replying to the remarks of I'rofessor IInmphry at the 3ledical Society of London on February 27th, 1 endeavoured to make it elear that 1 did not attribute the presence of the "loose cartilages " in the knee-joint of the patient exhibited to fracture of portions of normal cartilage, but rather alluded to the possibility of the breaking off of portions of cartilage altered in marginal contour, especially having in mind those ontgrowths from the edges of articular cartilages which are fonnd in chronically diseased articulations, and notably in joints the subject of chronic rheumatic change. The man had long suffered from chronic joint affection, and in violently using his knee, which he was accustomed to do at his trade despite the pain, such outgrowths might have been broken off. The idea of these bodies originating from riolence has survired in the writings and teachings of a succession of surgical authoritics.

Brodie upheld this doctrine, and the most recent work on diseases of the joints in this country seems to take the same view. Brocllurst, writing in vol. ii of the St. Geurge's ILospital Reports, allurles to the ease of a clergyman who sustained a violent wrench to his knee at football. This was followed by pain and swelling, which lasted for six weeks. Then a loose cartilage was foum on the inuer side of the joint, and extracted by incision. "It proved to be the anterior portion of the internal semilunar fibro-cartilage." An inspection of this specimen will inevitably suggest to that the carcial olscrer that the abore lescription is true, and in rol. xv of the Pathological Society's Transactions, relates a case of loose cartilage occurring soon after injury, and describes it as "a liroken off bit of the articular end of the femur covered on one sille with its natural eartilage." It is importaut to obserre that these were the cases of healthy and vigorous young meu, not likely to have had calcareous arthritic formations of antecedent date. It is surely possible for a portion of bone and cartilage to
be fractured and still retain its place by untoru fragments, so that union may arain take place. lienee, in "extraordin, so that riolent "aceidents which do oceur to the larger joints, such lesion may be overlooked in the subscquent ankylosis, or spoiling of function of the injured articulation. Should the patient die, the joint is not often so closely examined as to detect, for instance, a detached portion of cartilage.
The report of Goodhart iu Bryant's Surgery refers to the possilility of fracture of artienlar cartilage and bone, so that we may fairly doubt whether the explanation offered by Professor liumphry will apply to all cases.

There seems no more reason that a portion of the articular end of a bone, with its encrusting cartilage, shonld not quietly exfoliute after severe luruising, than that it should be inpossible for a similar process to occur on the superficial aspect of any bene. I'aget, Writing in St. Bartholomerc's IIospital lieports for IS:0,
most strongly upholds this riew, Furthermare, he examined the specimen microscopically. Teale's well known case seems equally conclusive. There are obvious reasons why I should be anything but desirous of entering into controversy with so accurate an observer and reasoner as Professor Humphry. From old associations it may he considered an act of heresy on my part to attempt to differ from him. I confess, on looking into the matter, that the cases seem rarer than I previously imagined, or than is usually tanght and beliered. Doubtless many specimens of this kind hare really the origin that the Professor so ingeniously suggests. - I am, etc.,

20, Stratford Place, W.
Sir, -In reference to Professor Humphry's remarks on the above subject, I venture to draw his attention to a specimen which was exhibitcd by me at the Pathological Society some twelve or more years ago, and was reported on by a committee of the Society. It was removed by me from the knee-joint of a young man, who had received a severe injury to the joint some time previously. It had all the appearance of structure of a piece of articular cartilage which had been detached by violence, and was thought to be so at the time.

I regret that the specimen was accidentally thrown away, and I have not by me the report of the Committee, which is printed in the Transactions of the society.
There was no suspiciou of the man having suffered from rheumatoid arthritis, and as he is still alive I have not been able to rerify its origin.-I am, etc.,
J. Walters, M.E.

Reigate, March 26th, 1888.


## resection of the pylores for cajcer.

Sir, -In the very instructive account of "A Case of Cancer of the Pylorus in which Pylorectamy was performed," in the Journil of March 2tth (page 633), Professor George Buchanan has paid me the compliment of quoting my opinion on the subject (Operative Surgery of Malignant Disease, 1887). And immediately benenth the quotation, he has published a short note from Professor Billroth's assistant, Dr. Salzer, in which an opinion almost diametrically opposite to my own is expressed. Professor Buchanan says that the important question "ls pylorectomy justifiable or not?" may be disposed of by quoting these two opinions.
Even had the twa opinions been precisely similar, or to the same effect, I doubt whether the question would have heen so readily disposed of. But 1 am afraid they are likely to raise fresh controversy rather than to prevent it.

Before entering on the question of the prospects of operative surgery for the radical cure of cancer of the pylorus, I must first point out that the opinions expressed by Professor Billroth and myself are not answers to the same question. His opinion is, on the face of it, a reply to the question of the justifiability of pylorectomy for all and every cause; my opinion refers solely to pylorectomy for the remoral of cancer.
In my book I do not say that the operation is unjustifable, hut that I am led to doubt (from the evidence which has heen laid before the profession) "whether the operation of resection of the pylorus for cancer is ever a justifiable aperation." And the evidence was to this effect: Of 55 patients on whom the resection was performed for cancer, 41 died of the results of the operation, 13 recovered, and the result was not mentioned in the remaining case. Ten of the patients who surrived the operation were follored up. In every one recurrence took place, and I think I am within the truth when 1 say that there was not one of them Who was quite well a year after the operation, while several died of recurrence in the course of a few months. With a mortality
of over 70 per cent. on the one hand, and such a failure ns the of over 70 per cent. on the one hand, and such a failure as the Pesults show on the other hand, I think my doult of the justifasility of the operation for cancer will scarcely be deemed unrcason-
ible.
Professor Buchaman pleads, in favour of continued experiment,
the marvellous improvement which has taken place in the statistics of orariotomy, and seems ta think it possible that practice in the operation of pylorectomy may secure for it some such improved measure of success. Pylorectomy is never likcly, for obvious reasons, to be as safely performed as ovariotomy. And, in any case, when the operation is performed for the relief of cancer, if a comparison is made, it must be between pylorectomy for cancer and ovariotomy for cancer. My book showa (page 34") that, of 99 patienta who were operated on for either sarcoma or carcinoma of the ovary by several operators, 33 died of causes directly connected with the operation. Nor is the mortality likely to be diminished by practice, for the operators were all men singularly skilled and successfnl in the ordinary operation of ovariotomy. The mortality is so much larger than that due to ovariotomy for uon-malignant diseases, and the recurrence and dissemination was so rapid in some of the patients, that one of the opcrators, Mr. Knowsley Thornton, has openly expressed a doubt "whether it is not a positive injustice and cruelty to the patient to operate at all." Yet the results in some of the cases in which the patient survived the operation were brilliant compared with those in which the patients recorered from the operation of pylorectomy.
In the introduction to my book I have dealt much more fully than I can do here with the comparison between operations on the same part of the body for innocent and malignant disease, and have pointed out that when great benefit may be derived from an operation, a greater risk to life may reasonably be incurred; but when the benefit is small and of short duration, the risk of the operation ought also to be small in proportion. Operations for malignant disease ought, therefore, not to rank among the most fatal. 1 go even further thau this, and maintain that, as a general rule, the least severe and fatal operations for maligmant disease are the most successful in their final results.
It is difficult to judge of the relative malignancy of cancer of the pylorns as compared with cancer of other parts of the body; but I cannot but believe that its malignancy is above rather than below the average, and that it teuds to involve the surrounding structures and to affect the lymphatic glands at an early period of its existence. Professor Buchanan's case is in point, for, although the symptoms had only been noticed between four and five months, there was already a cancerous gland in the lesser omentum.
One of the objects which I had in writing The Operative Surgery of Maliynant Disease was "to discourage the repetition of useless and dnagerous operations" br showing the large mortality by which they have been attended and the low measure of success which has resulted from them. In attaining this object, 1 have been very careful to err rather on the side of leniency than harsliness in judgment, and hare been at great pains not to wound the feelings of indiridual operators. I would not on any account venture to criticise my friend Professor Buchanan, for whose surgical alility I have a great respect. I can only say that the case appears to have been as well suited as any for resection of the pylorus, aud that the operation appears to have heen as well designed and executed as one could reasouably wish.

But the whole question is one of grave importance (which must be my excuse for the great length of my letter). and the position of operative surgery may be seriously affected by it. The brilliancy of the Tienna school of surgery, from which most of these questionable operations for maliguant discaso have emanated, has naturally produced an influence on operative surgery in all countries, and has led surgeons to push surgery to its limits. It would not be reasonable to expect that British surgeons shou'd have wholly escaped this influence. But an examination of the reports of some of these operations shows how small is the influence which has been exercised on British surgery by the Yienna schnol, and during the last two or threc years it has been a source of great pleasure to me to see that very few of these modern operations for cancer have heen practised in this country:-I am, etc.,
hembry t. Buthn.
8ㄹ, Marley Street, W., March 2Cth.
the clifton lunacy case.
Sme,-In your editorial remarks on "The Clifton Lunacy Case,' your refer to the "annorance aud lass of time," as also to the "heary costs irrecorerable from an impecunious plaiutiff," incurred by medical men who sign lunacy certificates, no matter how carefully and properly they may act in the matter. This is
exceptionally true in thisfease. Dr. Shaw and I Igave our profedsional services gratuitously. The patient was snffering from an nttack of achte mania, with suicidal symptoras. She required detention in different asylums for about two years and a half, and a year later we were served with a writ, and called upon to answer charges of having falsely, malicionsly, negligently, 'without reasonable or probable cause, well knowing the same to be untrue, in collusion with each other, given insufficient certificates. The charges of conspirtey, malice, and wilful ant criminalf falsihood were not withdruwn till after the ease had opened, after an appeal from the judge (Mr. Justice Field), but withont any ayology that such grave accusation's should have been made regardless of trath and unsupported by a particle of evidence. The Tcamed counsel for the phaintiff (Sir Walter Phillimore), contrary to the better traditions of the bar, conducted the cross-examiuatious in a spirit that called forth frequent censures from the Bench, and was in marked contrast with the couduct of the defence, as we, on our part, avoided bringing forward much evidence of a painful nature, and imputed no intentional untruthfulness to the plaintiff.
The expense of a trial occupying the court for four eutire days must necessarily be very great, and the burden is not lightened by "costs" being grautel against an impecunious plaintiff, hat I ask your permission to state that these expenses are, at all events, considerably lessened by the generous support we have received from those of our professional brethren who aided us both before and during the trial by alviee and ly their evidence in the witness box, and who have in no case nceepted any professional fees. I do not know if the medical witnesses for the plaintiff were equally disinterested, but 1 feel that my thanks are due to them also for the nid they rendered us. The one. Dr. Tibbits, by showing the kind of expert (?) evidence the prosecution had to rely upon, and which, I may add, was accepted precisely at its just value. The uther, Dr. Lyttleton Forbes Winslow, who, on account of the notoricty lie has obtained in eonneetion with breaches of the lunacy laits, might possibly have been regarded as an authority on the sulject, expressed (so far as it was possible to gather) an opinion favourable to the certiticates.

Allow me, in conclusion, to express my sincere and appreciative tbanks to the large number of ray professional brethren who have offered me their sympathy, together with their congratulations, on the verviet of the jury.-i am, etc..
23, Calctonian Place, Clifton, Bristol, Marcll $2 t$ th.
Sirn,-Will youl allow me to correct an error which appears in your issue of Marcl "tth, in your comments on the late lunaey action at Bristol?
You say: "The other medical man declined to go so far as to say that rambling, incolerent conversations, refusal to answer questions, and rague statements of ill-usage were suffieient to justify the certificatces." The actual worls were as follows:Sir W. Mhillimore: "Are there any facts in the certificates indicative of insanity?" to whieh 1 answered that "I dill not understand the question as put." Sir W. P'hillimore, eontinuing: "Do you consider rambling, incoherent conversation, refusal to answer questions, and vague statements of ill-usage are sufficient to justify the certifieates?" my reply to this question being," Rambling, incoherent conversation are certainly signs of insanity." In reaponse to the learned jullye, to give au answer to the whole yunstion, ! said: "Then 1 cannot answer the question:" to which his lordship replied, " 1 dill not think the loctor could when he understood it." 'rhat there was a distinct uetion to be tried against the courent for fals" imprisonumt previons to obtaining the lunacy certitleates was the opinion I entertained previous to the'netion comimg into court, and was sibstantiatell ly Mr . Justice Field during the hearing of the case, who said, referring to the locklog up of the phaintiff in her room: "This wns undnubted interference with the plaintiff's litherty, and he would tell the jury that this entitlell her to a verlict unless circunstances justified it."
1 medical expert is ealled in th alvise on ex-parte statements, not on evilence which he is imawne of at the time and only oomes to light sulseeqnently during a trial. It is sumfiaint, however, for my purpose to show that the leurned julge antertained and expressed the same as that orighally done hy ine- -1 am , etc.

70. Wimpole Street, W., March 2uth, lskW.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## fees for Attending inquests.

By Section 25 of the Coroners Act 1887, 50 and 51 Vic. c. 71 , the local autlority for a county or borough is empowered "from time to time to make a schedule of fees, allowances, aud disbursements which, on holdlng an inquest, may lawfully be paid by the coroner holding such inquest. We do not know whether this power has as yet been generally aeter on ; but we see from a report that in Norfolk the loeal authority have allopted a seale which is far from liberal, allowing nothing to jurymen, very lit tle to witnesses, and only 5 s, for a medical witness. As regards jurymen and witnesses in general, the local authority were apparently acting within their powers in framing the schedule as they did; and if the scale of fees is inadequate, the only thing to do is to bring pressuro on the framers to revise their worls, and allow proper remuneration to those who attend.
As regards medieal witnesses, however, their general porrer of disallowing fees is fortunately limited by the Aet. By Section 22 "a legally qualified medical practitioner who has attended at a coroner's inquest in obedience to a summons of the coroner", is entitled to receive, by way of remuneration for attending to give evidence, the sum of one guinea, and more if he makes a postmortem exnmination. The schedule which only allows bs, is, therefore, in that respeet wrongly framerl by the local authority, and ultra vires. No doubt the error will be curreeted has soon as pointed out, and any medical practitionera who have been refused their guinea will get the difference jraid over on pointing out their rights under the Act. In case similar deprivations liave been attempted elsewhere, we think it well to point out what has been done in Norfolk, and what the rights of members of the profession are under the new Act,

## ELECTION OF CORONERS.

Whime Lord Halsbury proposes to vest the appointment of coroners in the Lord Chancellor, the object of Mr. Wootton Isaneson's Lill is to leave the election in the hands of the freeholders who are voters for the county or the part of a county, the election heing by ballot, and in all other respects like parliamentary elections. The maximum amount permitted to be spent by a candidate, other than personal expenses and returning ollicer's charges, would be limited to $£ 400$ where the freeholders on the register do not exceed 2,000 , and $£ 430$ where they do exceed that. number; and an additional $£ 50$ would be allowed for every complete 1,00 elactors above 2,000. A petition against the return of a candidate would be tried by a commissioner aprointed by the election jurges.

## certhfichtes of neatil.

lkrericusasks: Is it legal for a registrar of births and draths to zegister the deaths of patients who have only been seen by an ungualidied man, and on his ceatlicate, be openly stating to the registrar that ho is maqualifed, and llut be is not a merlical man?
** A registrar of ileaths must ragister the deatlas of all persorts, whether aftended hy qualified or unqualified practlthoners. Whenever a certifieate, or any written statement of the ciuluse of death, wignod by an uniegistered prac-
 merely ns part of the information tendered by the legal informant of tbe lesth, lasuoh eases, only the rauso of cleath'is inserted the the regleter, and tho name of the person signige such clecument is not recomied therein.

## A HISPUTED FWH.

 leyally qualided medical practlioner, who has attenterl at, curonar's inqutab in nuedience to a autumasts, is entitherl to a foe of one fuluch. The Act asy




 mattor is uot free from coubt, but a chant brought indio bor imandiums propmery conductwl, ought osucceed. The action shotill be for a manditum Hrecting the eoroner to pay.

UNBIBASONABLE JHFFISAL IO CONSULT.







 quest. for sul explanation, It may therelaro be weth to manaste to sume

 etmostanted, that the possession of a degref, in contradintinction to a dijuma

In predicine, is not to he regarded as conferring br implying superior practicel professional knowledge or position, but rather, thoughi not wecessarily so, as a mark of simple acutemicil cultnre. Under all the circumstances, although ever deairons to promote professlonal conenrd and unity, we could not blame siation with " $\Lambda$. $B,^{\prime \prime}$ lus collearne, at the local dispanded from intimate asso-

FEE'FOR PONTHORTE゙M EXAMINATIONS IN HOSDITALS
Da. Peter Yates (lifirmary amb Dispensary, Bolfon) asks whether he is emtitled legally to claina a fee for performing a post-mortem examination on, and mortem examination was orderca to he in-patients of the hospital. The postand Dr. Yates was also ordcred toattend the inquest. ** No claim can be legally made.

## NAVAL AND MILITARY MEDICAL SERVICES.

CANCELLING CLAUSES OF TILE ROYAL WARRANT OF 1879

Fe have received several letters protesting against foreshadowed tampering with the best elauses of the above Warrant, especially with the valuable right of retirement ion pension after twenty years' full pay service. We do not question the right of the autho rities to cancel or amend Royal Warrants, but such dacuments should be considered very sacred. In common fairness however, alterations cannot justly be made to the detriment of officers who have entered, or are serring under clear conditions of contract; in other words, changes should not hare retrospective effect. We, will not assume the Secretary of State will so act, and await the statement of his specific,intentions.

## ARE BATTALION SURGEONS NON COMMISSIONED OFFICERS?

planh clothes, theanjutant said hewished to address a few which I was present in missioned ofticers in an adjoiniog room, and, turning to worls to the non-comof them; you'd better come in." Now, sir, is this one of said, "You're one relative ralak qnestion'? If so, the sooner surgeons hind of the effects of the an effort to resist simjlar'sumbting the better. Siurdeon's and actineons make are not commissioned, therefore I snppose we are non-commissioned ofgeons But it sonnds very ofdi, and I feel I should like some ormmissioned officers. of it .
*** Sueh conduct, ought to have been at once bronght to the notice of his superior officer by our correspondent.

## ARMY SURGEONS AND FOREIGN SEIVICE

Correspondent asks the Parlimmentary Bills Committee of the British Nedical Association to obtain returns from the Secretary of State for War as follows : classes of officers: 1. Cavalry of the Line (on the relief roster) the followiag thllery ; 3, Royal Engineers; 4, Infantre of the the relief roster); 2, Roval Arment; 6 , Comanissariat Staff; 7 . Medical Staff: 8 . Ont 5 , Chaplain's DepartMent; 6 , Commissariat Staff; 7. Medieal Staff; 8. Orinamep Store Stafi; 9 Staff have more than the average share of service in appear that the Medical elimates, then in justice they are entithed to ligher ratwical and monealthy conditions of retirement.
"** Such a return would probably work ont to show that the medical hape a larger proport ion of foreign service than other officers : but the comparison, we feir, wonld not he satisfactory or conclusive, hecause it could he urged the conditions are dissimilar. Ilegimental ponditions of -service conld hardly be well contrasted with departmental, aml even the latter materially differ from each other. The Chaplain's. Commissariat, and Ondnance Dopartments of the home army do not, for instande, serve in Iudia;'dervice in the eavalry abroad is, on the other himd, almost confined to India,' The wear snd tehr of hard foreign service is nuqueationably one of the causes of the greater siekness and mortallty among metlical nlivers than others; it is one reason why they should receivo gooll payand pensions. but we would remind our corre spordent that medical oflivetis commaud higher salarles becainse they are professioal men, taking with them into the public service specsill knowlerige privately acguircel. Every twil of the serew hroumlet, to leascon medical officers will inevitably bring on the anthorities the oll Nemesis of fallure in the supply when metical coudidutes are wanted for the army

## VOEUNT1E:E MEDCAI ASSOCIATION.

 On the motion of the Tremsurer, at 26 . King Willinoi Street, St ramel.
 Warmat for ereating an Arhis Medicil Reserva this terms of the Royal that no action be taken hy thed $i$ ssociation Resue this Council recommends Phe question of jowing the Medical lleserve entimely opone for the indivinual members to act $n$ they think fit."
it was further
 fact that in the reronto Rosal Warrant "That this Council, recognking the from this Association for the letter ormany of the sugiestions emanating Sursice being moneeded, ard further notmanisation of the Voluntere Medical on Aagust I6th litat have not wo, whith were mate in the Ifouse of Commons m A agust I6th list, have not recelvel efcet, a deputation be appointed to wait
apon the War Secrctary with the riew of urgiug the adoption oI ths ss us."

Briganfesirgens (Retired List) writes lit ine Walkrant. appear to quite crasp the scone and drift is matter for satisfachion lo sec you rant. As one who havineope and drift of the Army Medical Recerte Fiarthe scheme "withont feur retired from active service, can affond fo fiscuat reason to suspect that its "plan of campaign" "may be inters ouly too much lever" to the War Office luminaries to stir np the full pay Medical Siafl with a loag pole when it snits them ta do so. Should the plan suocecen we may expect soon to hear that "f full pay" medieal officers have to हjeod uearly afl their scrvices, ahroad, that an endearour will he made to prevent them going earried pensinn, which, to a qreat extent, induced mant to enjoy the hard the service. You also justly say it is strange many gond mer to enter wedical officers" are not mentioued, and it is often a wonder to me that thoee willing to accept temporary employment are not, called inpon mow that thoee to keep their liatid in. It would afso be interesting to know if thow and then will have to provide themselves with uniform, or if to know if those joining do 6 , "without compensation," although liadle to be relegated again at short notice to the "uaemployed lists" when it sujts the convenience of the hor fession wish to do all in their power to yonr remarks' also that whilst the proinsion wish to do all in their power to "support the regnlar madiral kerice in case of natimal emergency," yet all concerned ought to " look well fefore they leap" in aiding the railitary authorities, who hare so often shown such regrettable "animus" against the profession, to put themselves In a better position to be able to "sit on" the much abused ammy surgeon a better ever. In any case, it seems certain that unless the profession onite as a cor find the "military caste" "onal wishes on one side, we must fully expect to off the doctore one against the other." scarcely veiled endeavours to "play

## MEDICAL OFFICERS IN THE GERMAN ARMY

A correspondent, who signs himself "Observer," writes: The treatment of medical officers in the mightf German army!'and of the medical profession at large in that great and enlightened empire, is in marked contrast to that how, at the funeral of the late ernperor, his the account of the Daiky Neirs, the chief physicians of the late emperor, wis personal physicians, as well as the procession they ime army, were accorded most honourable positions in the procession; they immediately preceded the Emperor's personal chamber lains, walking close to the coffin i also that they wore "hrilliant uniforms." Which, at all events, the "model army" of the world consider suitable for them. What, he asks, would be the positions accorded to our suitable for surgeons or court physicians in'suchi a State pageant? They would ib all probability, be conspicuous by their ahsence. Aleclieine and scieuce art Especially do poor social jealousies and narrared with Continental natinns. before the advancing wave of denyocrac sorrow caste. prejudices, retreating as apparent in every-day military lifacy, spek a refuge in our ariny. This in as apparent in every-day military life as in state ceremonials.

## RED CROSS ASSOCIATLON.

We are asked by a correspondent writing from liarachi, Indin, to state when and where the competition is to take place for the prize ofiered by the Em${ }^{\rightarrow}$ Red Cross Association," at p, Which a notice appeareil under the hearimg of correspondent will obtain pull informe Jourwal of lebruary the last. Onr as well as all essential particulars regardiug the terms of the inquires abont, as well as all essential particulars regardiug the terms of the conuretition, in

## MEDICO-PARLIAMENTARY.

## TOUSE OF LORDS.-Thursalay, Mrarch ミand.

Poor-law Guardians.-On the motion of the Farl of Kimberiey the followine possession of the poor-law gumardians, and their to the various powers now in tress that may from time to time exist in the atrequacy to cope wirh displaces; and also as to the expectiency of coneerted action between ther mpulons anthoritics and voluntary agencies for the relief of distress: the Lont Arch-
 Strafford, Marl oI Kimberley, Earl of Aberdeen, Lori Hathour, Earl of llopetoun.
and Lord Thring.
Friday, March isrd.

Iunacy Acts Amendment bill.-On the motion for the third reading of this Bill, Earl Spaveer said he believed it tras now perceived that the Bill did not meet a case which lue ndduced When the bill was in Committee. IHe was not now prepared witls a clause, but he trusted that, if it were found practicable to frame a clause the object lie lad in visw would the attained when the Bill mas in Committee in the, other llouse,-The Lorn Cha neer.lor was inclined to think the nohle earl was right, and, if it furned ont to be so, hee shonlel here no objection' to the necessary amendment of the Bill.-Lord liamatour silia the commanications that liad taken place had redueed the matter at issue to a small point, which should be fully considered before the Bill reached the stage of Committee in the other Honse.-The Will was then read a lhird time, and, after an amerbment lad been made, was passed.

The Sale of l'oreign Meat-Ioral Lasrnatos asked Her Majesty's Govermment whelher they could not introduce some measure to prevent the finudulent practice of selling foreign imported meat as home produce. The? remedy le suggested for this state of things was the insertion of two clauses inlo the Adulteration Act of 1875 . one clanse providing that every lierson selling
should impose severe penaltics on any person who sold foreign meat without having over his shop a hoard stating that the shopkeeper was licensed to sell foreign meat. This rould have the effect of putting purchasers on their guard against having forcign meat palmed off upon them as homo meat and at the high price of home meat.-Lord Trcro thought some sort of personal disgrace ought to be intlicted on those who habitually indulged in frandulent practices. In France they cntailed sentences of imprisonment varying from fifteen days to three months.--Lord Wantage said the foreign meat was sometimes better than English. The Earl of Oxstow remarked that, if the practice of selling foreign ment was fraudulent, there must be some law which made it so. There was the Sale of lood and Drugs Act. 1875, and other Acts for the protcction of the public. Until it had been proved that the law was not sufficient to meet the case, the Government could not bring in a Bill on the sulject. There were also Acts of Parliament to proride punishment for obtaining money under false pretences. He could not undertake to substitute imprisonment for fines in cases of adulteration, for some of the practices were laudable, ns, for instance, when publicans sold water for gin.

HOUSE OF COMMONS.-Thursday, March 2 nnd.
The Children's Dangerous Performances Act, 1s70.- Mr. It. VinCENT asked the Home Secretary, having regard to the public exliibitions of young children in acrobatic and other performances apparently dangerous to the life and limbs of children now talking place in the metropolis, whether it was the duty of the Metropolitan Police, or of the Stetropolitan Board of Works, or of what provisions of the Children's action where necessary under the Mr. MATtirews replied that the statute referred to did not give the power or impose the duty of taking action upon the police, or the Metropolitan Board of Works, or any public authority. The Act left it open to any person or society to initiate a prosecution in a groper case. He understood that there was a society which liad occasionally taken proceedings under this Act.

> Friday, March 2srrl,

Length of Foreign Service for Army Mcdical Officers.-Dr. TanNER asked the Secretary of State for War whether it was the intention of the War Office to prolong the period of foreign service for officers of the Army Medical Staff; and whether, in the event of such an erent taking place, any compensation tould be given for the increased risk.-Mr. E. Stanhope said the length of foreign service would be extended by one year in all departments in the intereats of economy, and for the purpose of lengthening the period of service at home. As the service of an officer was available wherever. Ifer Mnjesty might require it, no case for compensation arose.
Aldulteration of Lard.-Sir M. Hices-Bescir, in reply to Dr. Clark, stated that the Board of Trade were aware that cottonseed oil was extencively used in the United States in the mannfacture of lard. He thought that the selling of the adulterated lard in this country would bring the seller within the Adulteration Act.
Sinall-pax.-Mr. Prcton gave notice that on that day four weeks he would move the appointment of a Select Committee to inquire into the circumstances attending the epidemic of small-pox in Sheffield and the surrounding district, and especially to ascertain whether its origin could be traced to defcetive vaccination, to insufficient sanitary precautions, or to any other causes.

## Monday, March 26 th.

Te-employment of Retired Army Medical Officers.-Dr. Tanner asked the Sccretary of State for War whether army medical officers of the retired list re-employed would receive the same pay, allowances, and military status as other officers of thirir rank; and whether their additional service would count for increased pension when compulsorily retired ly age ; and, if not, what advantages they would derive.-Mr. Bnodrick said, as regards pay and allowances, the remulations limited the payment to a retired medical officer to $£ 150$ in addition to his retired pay. As regards military status, such officers were entitled, under certain restrictiona, to the rank and position which they held in the Army Medical Department before their retirement. They did not courit service subsequent to retirement towards incrense of pension.
St. John's Maxpital for Diseases of the Skin.-Mr. Lawsos asked the Secretary for the Home Department whether his attention had been callerl to the constant charges in the pullic press,
of the wifful misappropriation of the funds of St. John's Hospital for Diseases of the Skin; whether he was aware that no legal action had been taken against any of the members and late members of the Board of Management making such charges; and whether at the present time an appeal for funds was being made and their receipt publiclyacknowledged on behalf of the hospital; if so, whether he would instruct the Public Prosecutor to take action in the matter, with a view to protect the public from possible fraud. - Mr. SATtuews said he had received a letter from the authorities of the hospital, who informed him that an action for libel was now pending, at their instance, against a weekly journal with reference to the charges in question. It was true ledged. On meting, passed by an overwhelming majority a vote of confldeuce in the Board of Management. ITe could discover no reason which would justify intcrference on his part.
Fires in Theatres.-Mr. Dixon-Hartland asked the Home Secretary whether, having regard to the destruction of another theatre by fire at Oportn, where a great number of lives had been lost, he could state when it was the intention of Her Majesty's Gorernment to introduce their Theatres Bill to diminish as much as possible the risk of such accidents in England.-Mr. Matriews said the Government had decided riot to introduce a Bill on the subject--Mr. Dixon-Hartland inquired whether, that being so, Mattrernment would no lenger continue to block his Bill.-Mr. Sanitary Condition of Bethnal Green -Mr. Rrtcuir, in answer to Mr. Howell, said that the report of the Commission which held an inquiry into the sanitary condition of Bethnal Green had been received, and would be hild before Parliament at once.

## HOSPITAL AND DISPENSARY MANAGEMENT.

## CORK FEVER hOSPITAL.

During the past year 199 cases were under treatment in this hospital, of which 58 were typhus patients and 71 typhoid. On examining the number of admissions for the past eight years, it is at once erident that a steady decrease has taken place in infec-
tious dis thious diseases: and when, iu the course of time, the clearances of and proper sanitary andemned by the corporation are effected, public health of the city of Cork will materially improve. Typhoid fever prevailed during the entire year, priucipally in hightysituated localities, probably owing to the want of proper ventilation of the sewers of the city. As regards typhus fever, it has been gradually decreasing for some years, in numbers as well as in the severity of its type. The Cork Fever IIospital affords accommodation for many of the poor who are of a better class than the very poor, who are obliged to go into the workhouse hospital, and prevents to a great extent the spread of infectious disease.

## proposed rebullding of tile royal london OPITTIALMIC HOSPITAL.

THE Committee of Management of the Royal London Ophthalmic Hospital have recommended the erection of $a$ larger building. either on the present or an adjacent site. The Corporation of London have been communicated with, and negotiations are proceeding. The cost of the new building is estimated at £30,000.

## OBITUARY

## FELIX hERATS, M.R.C.S.Jng.

We have to announce the death, after a lengthened illncas, of $3 \mathrm{Jr}_{\text {. }}$. Felix Kerans, at the early age of 29 , from phthisis. The deceased was educated at the University College, Liverpool, where he succoected in carrying oft silver medals for materia medica and me-
dical dical jurisprudence, together with four houorary certificates. the South Dispensary, and at Toxteth Workhouse Ilospital.

Medicat Magistrate.-The Chancellor of the Duchy of Lancaster has appointed Mr. Thomas Munns Wills, F.R.C.S.J., etc., $n$ Justice of the Peace for the Borough of Bootle-cum-Linacre.

# PUBLIC HEALTH <br> AND <br> POOR-LAW MEDICAL SERVICES. 

THE IROCEDURE LN PLACLNG PAUPER LUNITICS UNDER CALR AND CONTROL.
An inquest was recently held on a pauper patient who died of pneumonia a few hours after being admitted into the Lancashire County Lunatic Asylum. The deceased appears to have been a cab-driver of intemperate habits, and to have been under the inHuencc of drink at about the time he fell ill with preumonia. Deliciurn appears to have supervened, and the union medical oflicer recommended the removal of the deceased to the workhouse. Whilst being taken there the deceased rambled a good deal in mind, but a conflict of evidence sprang up as to what happened on his arrival at the workhouse in charge of his wife and ol others, the porter there alleging that his wife reparted the deceased as being out of his mind; whilst she, on the contrary, declared that she had not done so, and that she was unaware of What passed on the arrival of the deceased at the workhouse gates. But be this as it may, the next step was that the deceased was driven to the house of the relieving officer, to whom the worklionse porter, who accompanied the party, is said to have reported that they had brought the relieving officer a lunatic. The relieving officer decided that the deceased must be sent to the county asylum ; or, nt all events, that he must be examined with a view to that being done if he was found to be of unsound mind. The deceased, therefore, was next driven to the medical officer of the union workhouse, who, as reported, stated in his evidence that the wife of the deceased told him the latter was insane, and that the deceased, after answering several questions lucidly, suddenly drew attention to a horse and a drove of pigs, which he imagined were flying down the street. Witness diagnosed the case as one of mania from drinking, complicated with a low type of pueumonia, and signed the necessary certificate for admission of the deceased into the asylum. A magistrate's order laad still to be abtained, and after considerable delay this was accomplishea, and the deceased was erentually taken in the evening to the asylum, having been left at the workhouse by his wife, who understood de was to be sent to the asylum, and who in fact is reported to lave stated in evidence that although told by the union medical ffficer to take her lmsband to the workhouse, "she thought he aight mean the asylum, as her husband was rambling."
A case of this kind, it is clear, would have been better met by ford confirmation to the riew take and the facts relating to it fford confirmation to the view taken by our Parliamentary Bills ommittee, that in any coming lunacy legislation the already not oo secure provisions concerning the reception of pauper lunatics ato asylums should not be further relaxed; the relaxation of ne of these provisions in the Lunacy. Bill now before the Legision to lunatics of the private class.

SIPORTANT DECISIOA UNDER THE PUBLIC HEALTH ACT. He Doncaster county magistrates had before them a case on aturday last where a Mrs. Staniforth, of Sheffield, was charged nder the legth section of the lublic Health Act of 1875 with being in charge of a person suffering from a dangerous infectious isorder, and exposing such sufferer in a public conreyauce."
It appeared that the servant of Mrs. Staniforth became ill, and rs. Staniford a gencral rash, which turned out to he small-pox. rse at Mextharounce said that the girl must leare and go to her me at Mexborough immediately. Mrs. Staniforth ordered her
get a cab, herself helped to lift the lucrace on the rected her to return to Mexborough by a certain train. The fence set up was threcfold. First, as a matter of fact the rs. Staniforth did not know that the disease was small-pox. re magistrates held, however, that since small-pox was at the ne prevalent in Sheffield, that since the girl twice suggested to rmistress that her disease was small-pox, that since (on the girl ying, "What shall I do if they stop me in the street and say ] ve amall-pox ?") Mrs. Staniforth lent her two veils and a pair roasonable doubt that the her hands and face, there could be the complaint.
The other two points raised were questions of law. First, that ce if Mrs. Staniforth did expose the girl in a public conrey-
ance within the meaning of the Act, the offence began and ended in the borough of Sheffield, and that, thercfore, the West Riding magistrates at Doncaster had no jurisdiction, for that the only exposure of the girl which took place in their jurisdiction was the act of travelling in a third class carriage at Mexborough, which was the girl's own offence and not 3 rs. Staniforth's.
llere the magistrates held that the whole journey was undertaken consequent on the acts and orders of Mrs. Staniforth; that while the exposure began in the Sheffield cab, it continued in the train and in the Mexborongh streeta, and that, therefore, they had
jurisdiction.
The last point was that a mistress was not "in charge" of her servant within the meaning of the section. This objection the magistrates also overruled, and fined Mrs. Staniforth £2, the presiding magistrate, Lord Auckland, stating that he considered the case a rery bad one, and but for the rery heary costs (f5 6s.), the magistrates rould have inflicted the full penalty allowed, namely, f5. Mr. Binney, of Sheffield, the solicitor for the defence, at once gave notice of an appeal on the two points of law raised, which the magistrates granted. The Mexborough Lacal Board was the prosecuting authority.
IIealta of Exglish Towns.-In the twenty-eight largest English towns, including London, which hare an estimated population of $9,398,273$ persons, 5,903 births and 3,792 deaths were registered during the week ending Saturday, March 24th. The annual rate of mortality per 1,000 persons living in these towns, which had been 23.3 and 20.3 in the two preceding weeks, rose again last week to 21.1 . The rates in the several towns ranged from 14.8 in Huddersfield, 15.4 in Cardiff, and 16.3 in Halifar to 26.3 in Preston, 28.1 in Blackburn, 30.4 in Manchester, and 37.6 in Plymouth. In the twenty-seven provincial towns the mean death-rate was 21.8 per 1,000 , and exceeded by 1.6 the rate recorded in London, which was only 20.2 per 1,000. The 3,792 deaths registered during the week under notice included 118 which were referred to whooping-cough, 50 to measles, 43 to scarlet fever, 30 to diphtheria, 27 to "fever" (principally enteric), 26 to diarrhea, and 25 to small-pox ; in all, 319 deaths resulted from these principal zymotic diseases, against 442 and 363 in the two preceding weeks. These 319 deaths were equal to an annual rate of 1.8 per 1,000 ; in London, the zymatic death-rate was 1.9 , while it areraged 1.7 in the twenty-seven prorincial towns, and ranged from 0.0 in Portsmouth, Preston, IIalifax, and Newcastle-rpon-Tyne to 2.6 in Wolrerhampton and in Blackburn, 3.9 in Sheffield, and 6.7 in Plymouth. Measles caused the highest proportional 'fatality in Bradford and Plymouth; scarlet lever in Oldham and Huddersfield: whoopingcough in London and Wolverhampton; and "ferer" in Fottingham and Leicester. Of the 30 deaths from diphtheria recorded last week in the trenty-eight towns, 17 occurred in London, 2 in Norwich, 2 in Birmingham, and 2 in Oldham. The 25 fatal cases of small-pox included 17 in Sheffield, 2 in Blackburn, 2 in Hull, and 1 each in Bristol, Nottingham, Manchester, and Sunderland. The number of small-pox patients in the Metropolitan Asylums Hospitals on Saturday, March D4th, was 15, of whom I had been admitted during the week. These hospitals also contained 1,107 scarlet ferer patients on the same date, which showed a further decline from the numbers in recent weeks; 77 cases were admitted during the week, against 100 and 94 in the two preceding weeks. The death-rate from disenses of the respiratory organs in London was equal to 5.6 per 1,000 , and was
considerably below the arerage.

Healtir of Scotcif Towns.-During the week ending Saturday, March $24 t h, 870$ births and 562 deaths werc registered in the eight principal Scatch towns. The annual rate of mortality, which had been 24.2 and 21.0 per 1,000 in the two preceding weoks, rose again to 22.2 during the week under notice, and exceeded by 1.1 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns, the lowest rates were recorded in Perth and Leith, and the highest in Paisley and Glasgor. The 562 deaths in these towns during the week under notice included if which were referred to the principal zymotic discasea, equal to an annual rate of 2.2 per 1,000 , which slightly excceded the mean zymotic deathrate during the same period in the large Finglish towns. The The largest proportional fatality of in Edinburgh and Glasgorr. The largest proportional fatality of whooping-cough occurred in

Glasgow，Two deaths from diphtherin werc recorded in Dundee． The mortality from diseases of the respiratory organs in these Scotclitowns daring the week was equal to 5.6 per 1,000 ，and cor－ responded．with the rate from the same diseases in London．
 during the week errding Saturday，March 24 th，were equil io an aunual rate of 29.7 per 1,000 （against rates delining from 34.0 to 29.0 in the three preceding weeks），the rate for the same period being only 20.2 in London and 20.4 in Edinburgh．＇The 201 deaths included 20 which resulted from the principal zymotio diseases （equal to an annual rate of 3,0 per 1,000 ），of which 5 were referred to measles， 4 to searlet fever， 4 to whopping－cough， 4 to＂iever， and 3 to dintrhea，and not one either to small－pox or diphtheria．

TEXTBOOKS ON HIGGLENE．
M．E．T．asks what are the best books to read Ior the examinations for the Yidiploma in Publle Health．
－Parkes＇s Practical Hygiene and Whilson＇s Mendlook of IHyierie，＇A usefúl nlementary book is Principles of Hygiene，by Dr．F．F．Willoughty：
R．asks to be recommended a work to read in preparing a course．of lect unes on hygiene to be given in a normal school to young adults．
＊K．cannot do better than rearl Principles of Hygiene，by Dr．E．，F゙． wllonghby．

## HOSPITALS FOR INFECTIOUS DISEASE

Dr．O．G．Havelan（Felixstowe）writes：Your note on ．．．Infectious Hospital Provision at the Seaside＂in the Jotraxal of Jarch 10 hh incluces me to ask you for reference to any practical，warking articles treating on hospitals anitable to amall communlties，dit 2,000 or 3,000 inhabitants．I am very ，anxions to provide such necomnodiation here，bit there are so many press－ iog claims that expensg is a great oliject．There is whvious difficulty in tind－ ing ran existlig buidring suilable：to erect a special orie would he costly： ing an existlig builing suilable：to erect a specal one winalig，such as the ＂Droker，＂would meet the requiremente？
＊＊The supplement to the Tenth Annual Report of the Local Govemment Board contains the report ant papers on the use and influenees of hospitals for infections diseasen．Temporary hospitals are not to be encoumged．

## WHO IS TO PAY？

Is Dount writes：As a poor－latr medical oftieer． 1 lave harl the following ex－ ceptinnal case to deal with．
－A small farmer＇s family of eight indiriduals were affleted with disease，one alter the other being struck down until six were prostrated．They were under the case of a medical practitioner from pelghbouring town as fis private pathents．The merlical atterdant failed to give any notitication to the medical offcer of halth，and eraded the inquiries of the neighbours as to what was the matter．＂The two ret remaining whll，a boy and a girl，were what was has matter．nume the six patients，and they coild get no outside maslotance，as people wore alraill to go near the family through fear of infec－ assletance，as people were alrait to go near the tamuly through fear of infec－ thon．As a consequelice，the honse，its inhatitants，and the premises around， Lot into a state of Gith and uncleanness better imagined than descritect， and the neighboura thought it time to complain to the parish authorltles－ They did so，and if received an order from the asgistant overseer to visit the family，and foul nut the state of anairs On calling I found the cases to be enterio fever．The girl heforementinted was aiso feverish，and should have been in bed；so that．at thes time there whs only the boy to do everythink for the seven sick ones．There were no rlainfectants to be seetit，mat the Ither The sewen sick ones．There were no mene both told methat they were still prster the care of jr．－，and that lic wais coming to seet them agalo．I reposted these facts to the asslatant that lic was coming to ser them againg frepostan＇it．fity duty to call at the ovtruers，and mad in my note that I did not think it．ny enty to eall at meve house again，us there was a medical man－alroaly，iu attendance．Ifowever， the sanitary authorlt ins took the matter up，and ransed a commanication to to sent to the family modical at tendant，asking him not to visit these patients agatn．The assistant．overseme was thell listrmited to request．me io take charge of the cases，which I did．The mantary anthortics supplied me with a tminel＇nurse and a woman scrubber，workinen sere bent to clean ugt the
 dered by me for the patlents，and all wants for domestic pnrposes，even in desediby me for the pathents，and all wants for anmpled nut of the sanitary funds for full threa moluths if hast the cesre．and．．treatment of the eiglit
 motlonta（for the boy tuok the fevir also），and thes lave all recosered． thanks to the excelbent umaing and the genermus aswifancen windered just at the right moment．Fivery expense arems to have becn unct out of the sanitury funds except that for medical attentance and medictne and as the farracer arcl lamily were not panpers，it．arpears hard an ine as the parish dinefor to he called upon to attemi them as auch，aud，at the same time：io are evoryhisly rlan frairl fairls wrll．
If put the particulare this fully befure fom，and slath he giad if you wilt kiady Inform me if 1 have ans uromect of extra remuncration from the Guardians，ne ought It make a dalin on the fands of the Easitary lomare．
＊＂＂In Doult＂minst certain！y make hla clatin on the funds of the sipnin tary beard．

FACTORY 1NSPl：CTOMS．
W．J．S．－Factory tuspectors are appalntat be the Seervitiry of State for the

 dinlles．

Tile wholu of the Shildon lodged Colliery ambulance class（in－ stricted by Dr．Fielden）have received certificates of profictency．

## MEDICAL NEWS．

## MEDICAL VACANCIES．

The following Vacancies are announced ：
CENTRAL LONDON OPHTHALMIC HOSPITAL，Gray＇s Ind Foads－Ifouse Gurgeon．Applications by April 10th to the Secretary
CITY OF LONDON HOSPITAE FOR HISFASES OF TIIE CHEST，Victoria lark．－Resident Clinimal Assistant．Applicatious by April 12tli to the Sec－ retary，24，Flishury Circus，L．C．
DERBE BOROUGII ASYLUM．－Medical Superintentent．Salary，ess50，with turnished Louse，etc，Applications by April 13th，to be addressed ta the Derby Borough Asvium Committee，under cover to the Town Clerk，and endorsed＂Medical Superlntendent．＂
FSSEXTUNATIC ASYLUM，Brent wond．Tempmary Assistant Medleal Öfficer for three months．Salary，e30 for the term，with loart，lodging，and wash－ ing．Applications to the Medical Superintendent．
HOEPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST Brompton．Resident Ctinical Assistants．Applications by April 万th，to the Secretary．
IIULL BOROUGH ASYLUM！Willerty．－Assistant Meslical Officer．Salary － 100 per anmum，with board．lodging，and wasling．Applications by April 2nd，to the Medical Superintendent．\＃1
ISFIRMEARY FOR CHILDREN，Myrtle Street，Liverpool，－House－Surgenn． Salars： 885 ，with board and lodging．Applications by April 941 ，to C．W Carver，Esq．，Honorary Secretary．
LIDDRLL PROVIDENT DISPENSARY，Jarrow－on－Tyne，－Medical Officer Sulary，ezoo．Applications to John Claristic，Esq．，29，Cobien Street． Jarrow．
BOYAL ALBERT HOSPITAL，Devonport，Honnrary Ophthalmic Surgenn． Applications by April gth to the Chamman of the Selection Committee at the Hospital．
WESTPORT UNION．Achill and Baltyeroy Dispensary．－Medical Officer． frilary，£117 per annum and fees． 1 Applications to Mr．John Corrigan， IIonorary Seeretars．Eleetion oll April 3rel．，

## MEDICAL APPOLNRMENTS．

Frdsfr，David，M．B．，C．M．Ratin．appointed Medical Ofticer for the Collieries of Cardenden，Demend，and Dundonala．File．
Latrsois．Mr．，appointed Resident Medical Onticer to the parisl，of Itesolis，Ross－ shire，vice J．Gunn，L．F．P．S．Glas．，resigneतt
Motin，W．T．，L．R．C．E．，M．R．C．S．，appointed Imuse－Physician to the Lomoon Hospital，vice C．G．May，B．A．，M．B．
PuHzips，J，R．，L．K．Q．C．P．I．＇appointed Mediral Officer to the Aughnamy Dispensary，Clogher．Cniou，C口．Tyrone，vice L．M．Ourdner，L．K．Q．C．P．l．， Dispensa
resigned．
POPE．P．，M．R．C．S．E．L．R．C．P．Edin．，appointed Cliuieal Assistant to the Borough Asylum，Birnuinghain．
L＇OTT，F．II．，L．R．C．P．，M．IR．C．S．．appointed Assimant Medical Oflicer to the Cotou Jlif Lunatic Hosuital，vice S．E．Holder，M．B．Lond．，resfgnel．
SICER，Scanes，M．D．，appointed Physician to the Department for Diseases of the Throat，St．Mary＇s 11 ospital，Lomion．

Menico－Legal Societt of New Yotk．－The following are the oflicers of this Society elected for the jresent year：－President： ClarkBell，Fsq．F̈̈rt Fice－President：W．G．Stevenson，M．D．Second Vice－President：Ira Russell；M．D．Seeretary：Albert Bach，Esq． Ascistant Secrotary：Clark B．Aucustine．Esq．Correspondiny Secretary：Morris Ellinger，Esis．Treisurer：E．W．Chamberluin， Esq．Assistant Librarian：Benno Loewy，lisq．Curator and Prathologist：T．；II．Kellogg，M．1．．Chemist：C．A．Doremus，M．1． Thustees：Charles Milne，M．D．：Richard B．Kimball，Esef．；M．J． B．Messemer，M．D．；Fred C．Vulentine，M1D．；Simon Sterne，Haq： Wilham G．Davies．Permanent Cimmission：Clark Bell．Lsq．； k ． O．Doremus，M．D．；Judge John K．Dillon；＇St ephen Smith，M．D．； llon．David Dudley Field ：K．S．J＇arsons，NiD．
 meeting of the Medicn－Legal Snciety of New York will be de－ roted th the discussion of this suljeect．Short papers fare leen promised by Dr．Joseph I＇arrish，of New Jersey；Dr．I．JI．Crollers， of Connnecticut；Mr．Norman Kerr，of London；Dr．S．C．Mann，of lronkiyn；Dr．Wright，of Bellofontaime，Ohio；and others havis heen invited and are expected to read whort papers on the medical side，while prominent members of the legal side will also take part in the discussion．

Morpilinf，and Chioraf，Ponsunist，－An inquest was held recently by Dr．Danford Thomas on the body of a man aged $6 \mathrm{in}^{5}$ ， who had long suffered from memralga，to relieve the pain of which lue had heen in the habit for a long time past of taking ohloral and worphime by injection and otherwise．fle was found neariy uneonscoms，and breatheal with dilliculty．Ln a moment of con－ scionsmes he sath．＂ 1 have taken ton mach， 1 an suffocating． He had two convulsions of epileptic form，annl died slortly after－ rarls．A rerdict of death from misadren＇ure was returned．

Tur Manchester magistrates were engaged during two days recently in investigating clarges against five men named Thehanan，Wilson，Xelson，Shires，and Thomas，who had，it was alleged，under various aliases，practised as＂metlical speciulists， and defrauded a great number of people of large sums of money： Some remarkable evidence was given as to the profits of the imposture．The prisoners have been committed for trial at the sessions．

Ambulance Classes for Rahway Men－Thirty－two of the London ant North Western Railway empluyés belonging to the Birmingham Branch of the St．John Ambulance Association．were examinerl ly Surgeon－Major IIutton，of Leamingtom，on March 2fth，and so satisfied the examiner as to receive high commen－ dation．

Dre，Ferreira dos Santos，who was sent to Paris by the Brazilian Government to study the experiments of M1．Pastenr＇s laboratory has，we learn，been instrunental，in conjunction with Baron de Cotegipe，in promoting the establishment of a lasteur Institute at Rio de Juneiro．
Sir Lron Podrpair has been elected chairman of the com－ mittee on the City of London Fire luquest Bill，whieh would enact that inquests shall le held in all cases where fires of sus－ picious origin lave led to futal results．

## MEETINGS OF SOCIETIES DURING THE NEXT WEEK．

## TUESDAY．

Pathological Soctfty of londons．supay．Mr．Colnan ：Intestines in Diph－ theria；Dr．N．Moore：Some duat omlcal Je lat homs of Chronic Juint Disease．Dr．Hadden：Cyst io the Heart．Dr．Semon and Mr． Shattoek：（1）Subglottic Alveolar Sarroma in a Patient Agee 81：（2）Epitheliona of llight Half of Larynx，with Epithelioma tous Insulia oa Left Vineal Cord．（3）Intratmeleat Carcinoma （entimums with Carcinoma of the Thyroid．Dr，Hanefforl New Growth of Lung lerforating Gesophagus，and lovaline perimalimm．Dr．If．G．Nackenzie：Cystic Kidney with Cukeuli in Cysfs．Mr，Silcoek：Cyblie Disense of Test is．Card Sperimens－Mr，Fise：Cyst．of Spermatic Cord．Mr．F．J． Smith：durtic Stpoosis．Dr．LI Landforl：（I）Single Hyper－ rophied Kitney：（2）Mnltiple Tuhercular Strictures of Intes
 Cinoma．Dr．Drewitt（for Dr．H．P．Cholmely）：hurig from Chse of Hamoptysis in an Infant．Mr．Shattock：Recurrent Sarcomat of Thyrohl，assoclaterl with Ifypertrophy of Accebomy I＇hyrohi．

## WEDNESDAY．

Obstetrical Sochety of Losnos，\＆Pam．－Specimens will be shown．Ad－ jourbed diseussion on Dr．Boxall＇s papers on Scarlatina During Pregnamey and the Pnerperal State．Dr．Champmevs：Descrip－ tion of the New Operation for Vesico－Uterine Fistula．Dr Cullingworth ：Cyst eonnected with the Uterus，abd Simulating linalargement of that Organ．Mr．Bland Sutton：The Glamels of the Fallupian Tubes and their fondetion．

## TITEIENEAT．

Hlarperan Socifty of Jomos， 8.30 P．M．－Dr．Johm Phillips：On the Manage－ ment of Pwgnaney Complicated with Fibroids．Dr．Roblnson Alopecia Areata．

## FRID．IY：

Vest Losdon Menico－Chirdegicai．Soctety， 8 p．m．－Second elinical cyen－ ing．Mr．Kothe Lynch：Case of Cancer of the Vertebre：ad－ jonmed dismssion．The President（．Mr．Keetley）：（1）Cawe of Bxophthalmie fioltre；（2）Case of Large Wen in Neek Trenter by a New Methoil．Mf．Swinfoni En wavis ：Case of lnguinal Colotomy．Dr．Perer lot ter：Casc of Rare Congenital Defor－ Colotom：Dr．Perey Potter：Case of Rare Congenital Decor of the Ovary Expelled During Labour．Mr．Perey Durn ：Case of lerforation of no livelutl by the kinot of a Whip．Dr Aklersun：Case of Calculus in a tungll．

## BIRTHS，MARRIAGES，AND DEATHS

The charos for inserting announcements of Dirths，Marritges，and Deaths is is．Gd． which shonid baforwarded in stamps with the announcement．

## BIRTII．

Stewart，－At Ghenhaci，Japperley Romi，Nutthehtam，on March alth，the wifo of Dombld Stewart，M．D．，of a daughter

## MamRIAGEs．

Kkambe－Babnock－On Mamh ：oth，at St．Nicholas＇s，Lincoln，by the lier．F． If．Blenkh，Yicar of the parish，Arthur Clurles liemble，L．12．C．P．， L．R．C．S．EA．，Horthen，Sulop，youngest son of the Jate lRet，W，Kemble Rector of Went IImminghield．Essex．to Mary Elizabeth，second danghter of the late Rev．．．la．Bakock，Vicar of Carlton－le－Moorland，Lincolushire．
Roberts－Marshf．，－Ou Marel Sth，at St．Mary＂s，Searlorough，hy the heve Arthmr Bollati，George A．E．Raverts，M．li．C．S．，L．S．A．，Twifoni，io Ianmt W．，elder tlanghter of fieorge Marsten，Eisg，solicitor，Jeiusworlh，

## LETTERS，NOTES，AND ANSWERS TO CORRESPONDENTS．

Commontcations respecting elitorial matters should be addressed to the F．ditor， 424．Strant，W．C．London；Hose coneerning busineas mstters nun－telivery of the Jourval，ete．，should be addressed to the Manager，at tlue Office，den， Strand，W．C．，London．
Is orter to asoid delay，it is particularly requested that all leftem on the editorial hosiness of the Jot rasar he mbleresed to the Eliturat the wfice of the Jideranda，and not to his prisate liones：
Authons desiring reprints of their artidjes phblithed in the Britisn Mrimical
 Strantl，W．C．
Correspovidents who wish notice to be fakm of their communleatlone，should anthenticate them with thein names－of conro not netresarlly for mblication． Cobrespondints not anmwerel are requested to louk to the Nutices to Corre cogrespondiats not shmwerel ar
 Chrounstances me hett hafer．
Fuhle Health Defartaryr．－We shall be much obliged to Mellical officers of Health if they will，on forwarding their Aumual aud other Reports，favour us with Duplicate Copies．

## 4EEIRIES．

L．I．C．S．，L．R．C．S．Erl．asks for thetails respecting the examination for the＂Pel－ lowship of the Royal Collere of Surgeons of Fdhburgh，mad ulso of that for the M．D．of Brussels，whether they are of a very searching mature，and what books are recommended for study iny it bisy cometry practlifiner elealrous of oltaining hoth qualitientlons．

Practice in america．
Stars amn Sirmprsask：in which of the Amertcan and Camadian Statea it is but necessary to pass a qualifylng examinaton？Can a surgeon and phy－ siclan（british）practise In Amethea without registering his degrees there？In those States where a quallyring examioation in necessary，is the orteal a try： ing one：What is the eost of resistering in America when the indivitund is already fully qualified and registered in England ${ }^{\text {tr }}$ ．

Sl＊RGEONci in Conlif Ships．
W．L．C．asks to whom he should npply for appoint ment as surgeon on rertain coolie emismant ships（govermment）running hetween Caleuttir and the Wext


## ANSUER屏。

SNuT And lisix．
Ology ashs what qumbity of smow is the equisalent of an inch of rain．Opinions
 senlus says ten inches．Whimh is cowret？
＊＊The depth of show corresponding 10 an inch of water banet vary with the density of the smatr．decording to Mr．Symons cone teet authority on the ulliget）as a rotyh aserage 12 inteles of stow in Fagland whll corre－ spont to an incl of water：A tathe of digues kiven in Symons＂s montbly Meteorologinal Magazine for J．ams（p． $1: 4$ ）showed the proportion to vary ln different instances from s．i．fnehes to 11 bneles of snow for 1 ineh water．

Qumine in Pregajayct．
Dr．T．O．Partrinaf（Cathar，Judh）writes： 1 lase plescribed ghinine for malarial nffectlons in more than one case of premaner，and shoud not hesi－ tate to do so agaln，and，with care，I camot see the harm of it．

## The Entomostraca．

D．11．G．writes：Can you hinily tell me the best recent work on the British entonostrata since the one published by the lay Soclety in 1850？
＊＊There is no book since Bard＇s British Entomostract，published by the Raty Sorjety（an octavo）．It is very serviceable，but a good deal out of date． The best way for anyone working at this most interesting subject is to take etther Claus＇s Zoolagie（the Frenth or Geman large edition），or the＂Crns－ tacese＂of Browns Thiercich，and louk up atl the different referentes there given to recent orighal papels，nuny by Claus．others by Weisstan on the Daphmidu．others by Lilljetoy：Miss Berels，we believe，completing e work on the British Freshwater Daplanilie．There are many interesting forms in the Englishn lakes which were not known to Baird．

## Thfatment of Heartalizy

Dr．James McNatght（Newdurch）writes：lit reply to a member．th the Jovinal of March 241 re persistent heartburn，it would scem almost cortain， from the fact that it persists aluring the night，that ho has to deal with a case of contimuts sectetion of a byperacid rastric juice．For temponary re－ liet athulies in large toses must be gisen ：a combination of half a drablum of mannes．carls．pout．ant sotii bicarb，acts very well．The condition on ex－ resaive irritability of the gistric mucous membrane．which fads to the pour－ ing ont of lacgr quantities of acid．may be more permmently elealt with by small diones of morphine，by the prescription of light，easily digestible food． and esperially the avoldance of fats．Wabhing out the stomach with the thbe at bedtime，so as to remove all remains of foot，and the administmtion thon of an alknli tombined with a little outmm will，in the conrse of a short time，remedy both the symptoms and the condition which underlies it．

## NOTES，LETTERS，ETC．

Mretropoitity lrovinevt Disperqamifa．
Tr．Y．G．Buws（lul Nortbeute lload）writes，W゙ill your kinlly allow me say a few worls iu favour of the provident dispensary scheme which Dr．
 tothe question whether provident dispernsarice nef a mecessity depends on the maswer to yet another question，whether there is or fort a class bet weren
 means to recompense the molicsl nttematat，whlass some special armuge－

 pabpertationi na regands the reelplent，und robbery as regmeds the thispernsel． papertationt ha regaris the rectpent a fair thy＇s work demauds a filir day＇s

 pelated nf the seceinty of Arts hus dethed well（hw limits of suth by tixing
 ntinded wan cand dony this ft he knows anylimy at all about the life struggles of his peorer welghtiours．It the prosebt sime there are maty anong the youmger practitioness who charge Is．lar vinit whl werticine，and surely this
格）wrek and a fanily，and the fatient be sufforing fom puenmonia ar wpholl，and lef it be the breatwinter．Sulh a ease will reguire a visit every typhoin，hat
 wifl mean is a week，nemrly a fourth of the whote weeks income：and in must not be forgottent hat it subl an imu there are nang other expenses ha－ volvert，so that if is not only the simple chatrm＇s fre that is dentanded，but extras in the way of foof，very likely in the way of bursing，and when Hie breadw inmer is st ruch down the ineome remses to come in．
It will be at mace answered that the mats onght to belong to a chab，and withtruth；ebelt then his sieh puy will not egual hiv wages，thiness he is a withirmh；esen then his on the formele，then he is still less able to pay the fee above－ntent ontel．The rate is scarcely macla better when the wite is laid

 hursing．

 mest matil their means were exbauntol，mat they combl mot afforl it any
 ，it，what other plan can be dangted in this is imporable．as under the ay hame thent user to the parish，unt the is imporsble．as righty so
 as they rertainly are not destitute，und it womlid bot be fair to tas the weat



 part of the profinsion and those needing hilp．
Thuse who oppose provident dispensaries woull lead one to infer that their erthef wats that mankint was specially created to supply them with the moms of fiving comfortably，no matter what shifts the sabl mankinal was edued to in so doing．Dr．D＇aramore is ungeneroms mongh，in the hury of

 nivat＂surgeries．＂There are two nlusest in enumedion witl provident dis
 coot creing alle it is the most ght to be grapplodet with．The hist is the unlit．people．This is mot，bowever，oprobleme beronil human paswer to dest with．When I held o dispensary appointinent，I always used to report at healquarturs my mase，when ory own observation lead me（o）helitve the heal fant ix．lur limited，jealouslea ure promoted between subll staff anf thein
 brother practitioners．The cure for this is for allow every qualified man in the neighbonrhookl，wion cares to do so，to put himself forward as a candinhte anif to be accepted by the committee．
Dr．Abentoml is quite corret in saying that eluh practice is heart－breaking， mud for two rmsons，the one bing that eluls puat wo wages limit to thelr memberabip，and the other that the medical man is entirety at．Hie mewe of tho cluls，whereas，in provident dispensaries，he has to deal with a committec． lin the main composed of men of arialtogetler different soeinl standing．and Iront whim be oltains a fir buriur tu mase of any dispotes．I firmbe helieve Ironi whin he oltains a fair haring in case of any dispotes．Arts Committee that wn falrer scheme than that propabated hiv the sord dy of d
could be arranged both in the interests of pationts and doctors．

Av Appiat．
Sir：We beg to acknowledge with thunks the followhg subseriptions，received by 13 in meknowledgment of onr appeal int the Jovrais．of Fetruary inth，wh thelubl of the whlow and thee orphan girls of the late Jumes MeDonald，Fisq medleal oflicer of Barvas．X．B．Any kind friends who may have hithert overlooked thls deservlag case will＂rireatly ohllge hy forwhriligg their sub criptlous to

1／．Hoss，Barvas，Stornoway，S．B
Henry Stear，lisq．，M．R．C．S．．Sisfron－Wahlen，Jessex
Fr．13．Mntch，Jisq．，M．D．，Sneinton lioad，Nottlaghan
W．Misfie Camphell．Ksq．，M．D．，Llverpool．．
F．Turle，Esq．．M．D．．Woulfori，lissex
 Anonymors
D．Sinclair，Jirq．，Mi．B．anil C．M．．，Louha，N．il
D．M．Sulkse，f．sq．，M．1．，Stornoway，ふ．is
1．Itoss，Kaq．，L．1．C．P．and S．Ed．，B；irvas，N．Il
A． 13 ．
11．A．Iatlmer，Kisq．，Y．R．C．S．，Swanmea
W．G．Martin，Jisq．，M．I）．This Yimes，Boltom－le－Moms．．．
W．Greig，Req．，New Apothecaries＇Company，Glasgow：．．

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## BOOKS，ETC．RECEIVED．

The Housckeeper．Vol．i．Englisin and Frencla Cookery．Entited by Percy Lindley，London：Marshall aub Son，and all booksellers．
A Practice of Medicine and Surgery Applied to the Diseases and Aecldents in－ cident to Women．By W．H．Bytord，M．D．，
Eatition．London：J．and A．Chnchill．Iss8．
The Demon of Dyspepsia：or Digestion Perfect or Imperfect．By Adolphus I： Bridger，B．A．，M．D．，F．ll．C．P．E．London：Swan Somenschein，Lowry am Co．
The Findamental Principles of Chemistry，Practically Tanght by a New Method，By R．Gnlloway，M．R．I．A．，F，C．S．London：Longmans，Green and Co．18ss．

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# THE LUMLEIAN LECTURES <br> THE TONGUE AS AN INDICATION OF DISEASE. <br> Delivered at the Royal College of Physicians, Mareh, 1 SSS. Br W. Howsill dickinson, m.d., F.R.C.P. <br> Honorary Fellow ol Caius College, Cambridge : Genior Physician to St. Georgo's <br> Mospltal: Consultlag Phyelcian to the Hospital for Slch Cblldren. 

## Lecture 1 II. <br> Dryness.

I Now come to the consideration of dryness of the tongne and its causes. A glance at the annexed table will suffice to show how largely this depends on constitutional and how little on local circumstances.

## Concomitants of Dryness of the Tongue.

Tongue dry, irrespective of other qualities...
Pyrexia (temperature $102^{\circ}$ or orer)

## Cascs.

Temperature not above normal ... ... ... 39
Discharge by simple diarrhœa or dysentery $\quad . .6$
Discharge, diarrheal or other, connected with lardaceous disease
Diarrbee in connection with other forms of organic disease-phthisis, cirrhosis, etc....

| Chyluria | $\ldots$ | $\ldots$ | $\ldots$ |
| :--- | :--- | :--- | :--- |
| Discharge by suppuration | $\ldots$ | $\ldots$ | $\ldots$ |

Serous discharge by frequent tapping of pleura
Diabetes (including 3 of diabetic coma)
Dry diet.
Comn or unconsciousness, with general openness of mouth
Openness of mouth from obstruction of nose, tonsilJitis, or other causes unconuected with coma

## Great prostration or exhaustion

Cases ending fatally
The old physicians recognised dryness of the tongue as of evil omen. Hippocrates, who very seldom takes notice of the tongue, refers more than once to dryness of it as a bad sign. The great Willis speaks of the dry tongue in certain cases of fever, and refers it to constitutional causes as expressed in the fanciful language of his time. "The nervous juice," he says, " is thoroughly roasted by a long concoction, and so becomes almost like glue, thick; wherefore, not being able to be dispersed neither by spittle nor by insensible transpiration, nor to be separated by the urinary passages, at length leisurely runs out by the passages of the spittle, and forthwith by reason of its thickness grows into that glueiness." I think most physicians at the present time regard the dry tongue as a constitutional symptom, and as a bad one, notwithstanding that there are some who have sought to refer it rather to local conditions than to the system at large. My cases, collected without special selection, show with the dry tongue, be its origin what it may, a startling mortality-one of almost exactly 50 per cent.; of 113 patients with dry tongues, 56 died.

I will now come to the causes in detail. The immediate cause are two: increased evaporation from the mouth; diminished secretion into it.

1. Jacreased eraporation may be duc to exposure of the mouth by persistent openness: as when the nose is obstructed, and when coma exists; or to increased heat of body, and as a consequence of expired air. Further, there is a double relation between dryness and bareness; dryness has bcen seen to canse bareness; but must not bareness at least help to cause dryness? Epithelium is couservative of moisture, as may be witnessed in any dissectingroom: wherever the surface of the skin has been rubbed off the deeper part dries and cornities. Thus, if by clance the upper epithelium of the tongue shonld be lost, the deeper iuvestments must be more amenable to evaporation and desiccation.
2. Diminished secretion may be either of the salivary or the
mucous glands; but the moisture of the tongue depends more upon the salivary secretion, which is abundant and watery, than upon the mucus, which is scanty and thick.

From the immediate conditions which determine dryuess of the tongue J now approach the more complicnted morbid circumstances which lie behind them. First, I will take conditions which entail persistent openness of the mouth, and so increased evaporation. Secondly, states of pyrexia, of which the bearing is more complex, but which involve increased evaporation from the tongue by reason of the heat of the expired air, nad also general dehydration and consequent. diminution of saliva from the generally increased evaporation which the hent of the whole body entails. Thirdly, profuse discharges which consist largely of water, by which the body is dehydrated and the salivary glands in particular stinted of their proper material. Fourthly, conditions of prostration or exhaustion, which states are adequate in themselves to suppress the saliva and dry the tongue, though often ther are assisted by otber causes, more especially discharges and pyrexia.

Habitual Openness of the Mouth.-Much importance-I think I can show too much-has been attuched to this either as occerring during sleep, or from obstruction of the nasal passages, or from coma. If the tongue be persistently and generally dry, I believe that other causes are always at work. I have known the tongue to remain perfectly moist while the nostrils were, and had been for some days, plugged for epistaxis. On the other hand, it is common to find a path of dryness down the centre of the tongue, corresponding to the exposure to breath in tonsillitis and other throat affections. With regard to the chronic enlarged tonsils of childhood, when the child sleeps with the mouth open. 1 am assured by my colleague Mr. Dennett, who has remored many of these, and almays does it early in the morning, that on waking the tongue is usually dry, but aftermards soon becomes moist; certainly such tongues are usually moist when they come under my notice. If the tongue is persistently dry from enlarged tonsils, I think the affection is usually inflimmatory, so that causes other than exposure assist. In the earlier part of this inquiry it was my rule to examine into the course of the breath whenerer I found the tongue to be dry; but the conviction was forced upon me that the state was generally due to other than mechanical causes, and 1 ceased to look for this with the attention I had before giren to it. My figures are therefore less reliable than the general impression which I record. In the great proportion of cases where the mouth is babitually open, it is either from coma or some illness which interferes with full and alert consciousness: the relaxed jaw and gaping mouth are but signs of ebbing vitality, of which the failure of secretion is also a part. I have sometimes ascertained by catheterisation, what was obvious without, that the tongue in such cases is dry, not because normally abundant saliva has dried upon it, but because the secretion has been wanting. In cases where the tongue is dry and the mouth open, other circumstances generally concur in causing the condition: as in a case of tonsillitis with a temperature of $103^{\circ}$; one of acute rheumatism with a temperature of $101.5^{\circ}$; one of suppression of urine with profuse diarrhea; and I might ndd others. But I need not dwell further upon a cause of dryness which, though it has a place, has not an important one: nor does it obscure to any considerable extent the grcat constitutional signiticance of the sign in question.

Pyrexia.-To take this next. dryness of the tongue is so frequent with it that the tro must be connected: at the same time, the occurrence of the dryness with little or no prrexia shows that other causes may produce it. As the temperature of the body rises the moisture of the tongue diminishes: on the other hand, it ly no means follows that if the tongue be dry the temperature is, or has recently been, raised. Mant causes intervene Which complicate the relation between heat of body and dryness of tongue. With typhoid or acute rheumatism the tonguas is apt to be dry at a temperature under which, with pneumonia, it would probably not be so. Something is clue to time : the more chronic disease is 'the more drying. A temperature of $10 \mathbf{2}^{20}$ has little effect in drying the tongue. Fven much higher temperatures are reachel without the tongue becoming dry. though its moisture is lessened. 1 have noted many instances of acute disease where the plastered tongue has retained enough moisture to forbid its being called dry under temperatures of from $103^{\circ}$ to $101^{\circ}$. It would appear that over $104^{\circ}$ drybess is general ; over $105^{\circ}$ nearly constant. The extent to which other causes interveno is shown
by tho anmexed statemant, showing the maximum temperatures in 103 casef of dry tongne.


In a third of the number the temperature was not over normal; in half it was not over $100^{\circ}$. There is no variety of dry tongue -which gives so high a mean temperature as the moist plastered tongue of acute cliseasc. It is clear, then, that though pyrexia is a drying agent, yet there are others which are important.

General Dehylration.- Next, as a cause of dryness of the tongue, I come to geueral deliydration of the body, whether by deprivation of drink or excessive aqueous disclarges. Apart from complications, we presunably have to do not with increased eraporation from the mouth, but with diminution of the saliva, often as a simple and direct result.
First, as to deprivation of water. I have never seen this carried to extremity, nor can I adept as my own the experience of "The Ancient Mariner":

> And every' ongue through utter drought Whs withered at the ront;
> We conli not speak no more than if
> We had been ehoked with soot.

But of lesser degrees of deprivation, mostly in the treatment of aneurysm and some forms of dropsy, I have recorded eleven instances, in six of which the tongue became dry; I need say no more of these cases now than that they show the results of dehydration in its simplest form ; diminution of saliva and dryness of the tongue, with sometimes furring, sometimes more or less deuudation.
As a mode of dehydration less simple but more definitely morbid, I may next refer, to diarrhcea. Of the 113 cases of diryness this flux, simple or complicated, was present in seventeen. Lhere exclude typhoid. Six were cases of simple or dysenteric diarrhea; the rest were associated with phthisis, cirrhosis of the liver, lardaceous or other organic diseases, which it would serre no purpese to recapitulate. Insix the temperature was $102^{2}$ or over, in five not above normal. In the larger number the complications trere such that it was impossible to assign the state of tongue to the diarIhcea only; but there were three which served to exemplify the dryness as a direct result of diarrhcea, without either organic disease or marked pyrexia; in one of theae the temperature was subnormal. More often when this appearance presents itself under the flux some other condition is present, often organic disease, the fatal end of which is not far off.
The maintenance of the noisture of the tongue under diarrhcea, profuse even to death, is a matter of common experience in Asintic cholera. The tongue here remains moist, creamy, and noticeably cold during the whole of the purging or algide stage. When the discharges have reased and reaction and fever set in, then as the pulse rises the tongne ' begins to dry and becomes quite dry and brown, as oftenin typhoid, the edges and the tip being red. Probably the persistent moisture of the algide tongue is in some measure due to the watery vomit which so abundantly flows over it, lut something must also be attributed to its loir temperature. It is a matter of experience that a tongue which is in itself dry is not easily kept otherwise by external wetting. The patient may drink often to this end, but only with a superficial and evanescent effect.
Fxcessive discharges of urine may be next considered. Diabetes mellitus is a cause of extreme dryness of the tongue; of the 113 cases where this state of tongue was recorded, 8 were of this disense. When the tongue has been dry under a mixed diet it will often become moist under a restricted one. By restriction both the sugar and the water of the urine are lessoned; the formation of sugar is ehecked, and with this the discharge of water. Whether the presence of sugar in the blond or the discharge of water takes the chinf part in drying the tongue may be nscertained by a comparison with diabetes insipilus, where the loss of
I In thle descrigtion of the longur: ln cholera I lave been minbled to eupplemant my am n reollactions by the more externaive experience of Surgeon-
General Corninh.

Water occurs without the production of sugar. I have notes of
eight cases of this eight cases of this, kina, in mosti of which the discharge of water was greater than with diabetes mellitus." The tongue was recorded as moist, generally slightly coated, in six; in one as "cleaning;" 'in another ás" "dryish,' pale," and flabby." The desiccation was therefore decidedly less with diabetes insipidus than with diabetes mellitus, and in the latter disorder must therefore be attributed to some other, cause than the simple loss of water by the kidneys. I may mention a casc which bears on this point. A woman had profuse diabetes insipidus, passing on an' average a pint of urine an hour for the twenty-fonr hours, and drinking to almost exactly the same amonnt. The tongue remained moist, slightly coated, scarcely unnatural, except that it displayed a syphiiitic sear. Three years afterwards I saw the patient again, having lost sight of her in the interval. A very unusual change had taken place; the diabetes had altered from insipidus to mellitus; the urine was now loaded with sugar, and in exactly half the quantity, the amount of drink having fallen in the same proportion. The tongue ivas notw dryish, reddish, and a little brown. 'The temperature of the body was subnormal. The patient was on the verge of diabetic coma, in which she shortly died. The access of dryness of the tongue with glycosiria, though the diuresis was diminished and the temperature not increased, was instructive. The osmatic action of the sugar in the blood is probably the chief cause of the dryness of the tongue in the circumstances, as it has been shown to be of the delydration of the lens and consequent cataract. The proximate oause of the dryness of the tongue is absence of saliva; as is evident by the state of the mouth and of the parotid.
Prostration:-In speaking of the severai varieties of dry tongue, 1 have shown how much.fatal disease they present-altogether about 50 per cent. A dry tongue, more than any other, foretells the ending of mortality. The kinds of disease which it accompanies are ehronic more than acute; if febrile, usually continued. Putting aside designed restriction in drink, and also diabetes, where the dryness is due to special circumstances, one is at once struck with the gravity of the cases and the large proportion of those which end fatally. The conditions are most various; it is not easy to see what they have in common, except it be something which may be indicated by such terms as "prostration." and "exhanstion." Exhaustion by suppuration of many sources, adranced phthisis and tuberculosis of other kinds are frequent when the tongue is dry and smooth. When it is dry and rough, the tables show concluding brain disease, concluding cirrhosis, adranced cancer, adranced pyemia, and serere pneumonia. Of twelve cases of pneumonia in which the tongue was dry, seven ended fatally ; of twenty-seven in which the tongue was moist, only five ended fatally. A dry tongue in rheumatic ferer is commonly recognised as an unfavourable omen, though not necessarily a fatal one. In typhoid the converse may be stated-a persistently moist tongue is indicative of a mild attack.
I have used the term "prostration" as a somewhat inclnsive one -one which can be better understood than defined-representing great failure of strength and matrition, however brought about. With the 113 cases of dry tongue, this condition was noted in fifty-one; in 222 cases where the tongue was moist, it was noted in but twenty-four. We cannot but conclude that prostration or failure of rital force is the most important factor of the dry tongue; pyrexia takes the second place. Clinical experience warrants the asscrtion that, though dryness of the tongue may occur without great prostration, great prostration is never long continued without dryness of the tongue. Great prostration occurs with little alteration of the tonguc in connection with abdominal collapse, as in acute obstruction and perforation, but the condition has not been of long continuance.
Besides prostration-or, be it rather said, together with itcoma presents itself in connection with lingual dryness; this is not wholly due in the circumstances to the open mouth, as I have already ghown, but to deficient secretion of saliva. It is to this that the dryness of the tongue is usually due, and it is because the dryness is an index of this deficiency that it has the clinical importance which, I think I have shown, must be attributed to it.

On the Influence of Foold upon the Tongue.
In considering the causes of the several states of tongue, more particularly of dryness, I have, said much which I nced not rejeat as to various influences which bear upon it; but there are still one or two which demand eeparate consideration, however brief.

First comes the question of food. The act of eating undoubtedly has an effect in cleaning the tongue, which is mechanical; and coating has been thought to depend, more largely than upon any other circumstance, upon the absence of the attrition which this process entails., It has been shown that the tongue is commonly more coated before food.than after, that it is apt to be coated on the side of a tender tooth where mastication is limited, while it remains clean on the sound side. Where it is not; and much of the effect of acute disease in coating the tongue has heen ascribed to the attendant loss of appetite and limitation of diet. But I have already shown that coating is a matter not only of want of wear, but in part of overgrowth; and that other causes (notably pyrexia), are directly concerned. As regards the influence of food, I have sought instruction in cases where there was absence or limitation of it, apart from pyrexia or other causes which act upon the tongue. I have watched the state of this organ in many cases of stricture of the cesophagus where solid food has been entirely. disused, and have before: me the notes of five such, and I might add as a sixth a case in which the patient refused food in consequence of cancer of the larynx. The back of the tongue here was covered with long shaggy fur, like coarse hair. There was another instance in which the tongue was furred, but it did not become so, notwithstanding long total absence of solids, until it became dry under extreme prostration and absolute pulselessness. Among the other cases there was no instance (though, in some, solids by the month trere impracticable, and feeding conducted chiefly by the bowel) in which the higher degrees of coat existed. In two the tongue was coated but not plastered; in one it was partly stippled or dotted, being coated only in the back aud central parts; in one it was dotted only. In the last case, slight as the covering was, the difficulty of taking food was such as to call for gastrostomy. This case declared in a manner to which accident gave effect how slight is the coating produced by absence of food as compared with that due to acute febrile disease, for it chanced that I had at the same time in near proximity some typical cases of the plastered tongue of pneumonia and pyemia. The difference was graphically displayed; among other points the general spread of tise acute coat over the dorsum was contrasted with the tendency of the other to collect at the back and in the median line, leaving much of the tongue nearly free.

Cases of restriction to liquid diet, not as a mechanical but a physiological necessity, are seen daily. The plysician knows that no other will "agree with" the patient; be is guided chiefly by the presence of pyrexia and the state of the tongue; the more coated the tongue the more liquid the diet; if the tongue be dry, the diet is wholly liquid, and alcohol part of it. Here the tongue determines the diet, not the diet the tongue: but not without instruction is the issue. As the acute disease abates the tongue cleans, notwithstanding the limitation; as it cleans, and because it cleans, solids are added and may help the process, but the cleaning comes first. In my table of normal tongues are seven which were so under a strictly liquid diet; on every ground, therefore, it appears clear that, though some influence must be ascribed to food and mastication in cleaning the tongue, yet these are of secondary importance.

I need not revert to the effects of 'dry diet which have been discussed in relation to dryness of the tongne; these are briefly want of saliva, and in some cases furring. in others denudation.

## On Conditions of the Alinentary Canal in Relation to the Tongue.

It is a common belief that the tongue is directly indicative of many disturbances of the stomach, botrels, and organs directly connected with digestion; some appear even to be possessed with the fancy that the tongue is but an exposed sample of the alimentary canal, and declares by its changes the existence of similar changes in the lidden parts. With those who do not go thus far the white tongue is 'taken as a sign of constipation, or that the stomach or the liver is out of order, and that alteratives, especially of the mercurial kind, are needed. It is not ensy to disentangle the complications which involve this subject; in the endeavonr to do so I must appeal to a wider experience than I have been able to tabulate.

First as to the stomach. I have examined this organ after cleath with the naked eye and with the microscope where the tongue has been thickly coated or furred.. Examination of the stomach is unsatisfactory, partly from the post-mortem influence of its contents: but it may be safely said that this organ presents no changes which are obviously analogous to those of the tongue, aud the
same statement may be extended to the rest of the alimentary canal.

I hare not been able, to discern any state of tongue especially connected with dyspepsia or ulcer of the stomach. When dyspepsia is associnted with stomatitis the tongue is bometimes thickly coated, probably as a local result. In simple dyspepsia and ulcer the lower degrees of coating are usually 1 resent, possibly in connection with the loss of appetite and the limitation of food. In one case of ulcer I noted the tongue as clean but fabby.

Next as to tle bowels. Some forms of constipation or diseases associated with it are undoubtedly connected with changes in the tongue; but that the arrest is not nccessarily connected with any such change is evident. I have seen the tongue perfectly clean and normal. after three weeks of nearly total constipation in a hysterical woman, and equally so, after twenty-eight days of nearly total constipation in a woman who was next duy made the subject of colotomy for stricture of the sigmoid flexure; and it would not be difficult to cite other cases where the tougue has rmained natural under long constipation, either functioual or connected with chronic ohstruction. On the other land, where the obstruction is acute, the tongue early becomes stippled, or coatcd and dry. I think the difference between the tongue of acate and of chronic obstruction, and betrieen one case of chronic obstruction and another, is in the presence or absence of constitutional disturbance. The early dryness of acute obstruction is not, as a rule, associated with pyrexia; but depends on salivary deficiency associated with the constitutional state. The dryness determines the state of tongue. Unless there be constitutional disturbance, which with simple coustipation or chronic obstruction there often is not, the tongue may remain natural. I have more than once noticed an old block in the rectum to be attended with thick coating, which has disappeared or lessened on the remoral of the accumulation. It may be inferred that in such cases there is general disturbance and probably pyrexia connected with morbid absorption, as the fœtor of the accumulation cannot fail to suggest.

Passing from constipation to the opposite condition, diarrhua is early and powerfnlly productive of lingual changes, The tabulated cases speak for themselres, and I might largely add to tlie evidence they present. Looking throngln my notes not included in the tables, I find the tongue of diarrhoea described as "thickly coated and dry," "thickly coated, mouth dry, salira scanty" "foul and coated," "brown, dry, and furred," "coated with brownish fur," "very dry, brown in centre, coated," "dry, brown, and cracked." There is scarcely any condition in which the tongue becomes more rapidly dry, coated, furred, and encrusted than severe diarrboa. The absence of saliva is self-evident: direct debydration helps to canse this; and pyrexia, which is offen present, helps the desiccation.

I have already referred to the red and bare tongue which is sometimes associated with dysentery, together with abscess of the liver. IIere we have fever of the hectic type together with the purging.

Opium.
It is no part of my design to describe the action of drugs upon the tongue, but I will nevertheless insert a word as to opium. It is well known that opium makes the moutly dry. I lave frequently given it experimentally to persons whose tongues have been clean, or nearly so, and moist. The effect has always been to coat the tongue, impair the appetite, and diminish the saliva. In one case the temperature rose from normal to $100^{\circ}$. Some of the eating may be due to the loss of appetite and of friction, but the diminution of saliva must also have importance attached to it, and falls in with what has been ulrealy said with regard to the relation of this secretion to the coat.

On the Influence of the Nervous System upon the Tongue
This is not to ve ignored, thongh 1 think more has been attributed to it thau can be demonstrated. The late Mr. Hilton showed that coating of the tongue was often confined to the side of painful teeth, and referred this to retlex nervous irritation. I have already adrerted to such cases in the view that the cffect was due to want of wear on the tender side. It is a matter of commou observation that in hemiplegia the tongue is not unilaterally affected as if from the local change, but bilaterally as if from the constitutional results of it. On the other hand, I have already cited an instance in which there wrs reason to belice that unilateral dryness and coating of the tongue depended on an injury
to the chorda tympani on the affected side. INere wo have the intervention of saliva, and may with probability ascribe the coating to the want of this secretion rather than to the direct effect of the nervons lesion. It has already been shown how largely deficiency of saliva affeets the tonguc, and it is a matter of ancient as reell as modern experience that this socretion is much under the intluence of the nervous system. I do not now refer to physiologieal experiments, but to conditions of wider range. The miml affeets the saliva, and may, or even must. by its means, or by means of its absence, nffect the tongue. The dryness of agitation is well known; the tongue "cleaves to the roof of the nouth." The Eastern ordeal by rice, which can be swallowed by the innocent, not by the guilty, will occur to everyone. I have often noticed the tongue to be white and sodden-lonking after an exacerbation of nervousness, associated in particular with phosphatic urine, and thought the first change to be a want of saliva, the coating secondary. I was told by Mr. Charles Ilawkins that a certain practitioner, who saw many men of business after their lusiness hours, could always tell how things were in the City by the tongues of his patients.

I need not here discuss in relation to the tongue the general conditions of delydration, pyrexia, and prostration, since to do so wonld be but to repeat what I have said in connection with coating and dryness. Neither need 1 delay, or only for a moment, to point out that if one were to seek to connect the states of the tongue, as a general rule, with individual diseases, so various and apparently so contradictory would be the results that nothing but confusion cauld result. What can be said towards this end may he briefly put. There is a tongue of heart disease of which the


Denuded tongue covered with straight membrane like the roadway of a bidge.
cpanotic character is eviclent to the naked eye, and a somewhat similar condition which is apt to accompany chronic albuminuria, which needs the microscope for its detection. The tongue of diabetes mellitus has a special tendency to dryness, as has been sufficiontly explained ; but this does not prevent its being sometimes norimally moist or even normal in all respects. Among the febrile liseases it would commonly be said that the tongue of scarlatina and that of typhoild are characteristic. The well-known strawherry tongue of scurlatina approaches nearly to the pathognomonic, for the eruption helps to make it so; but even here bther felrile disorders, like pneumonia, in which the face and mouth are ajt to be injectel, proluce an excellent counterfeit, besides which the strawherry character in scarlatina is soon retplaced by other plases of coating and by denulation. The tongue of typhuid presents many varieties, according to the stage of the digease and other circumstances. In eightern cases it was stippled and coatel, coated, plastered, strawherry, furred, encrusted, and demuded. Only two presented the dry, furred or cacruated state, which is commonly regrarded as typical. The iry, bare condition was not absent. The tongue of pyamia more often shows the ideal typhoid state than does that of typhoid itself. I say mothing of the tonatue of typhus, of which of late years 1 have scen but lititi. In the only case I have recently
seen it was dry and black, as it is known often to be. Lolar pneumonia presents a range of tongue which runs through the whole gamut, the plastered type preponderating, as it does with typhoid and most other acute febrile states. In bronchitis the lower degrees of eoating are generally presented, but if tho disease be considerably febrile the tongue is apt to be plastered, which may he accepted as a sign of severity. With regard to acule rheumatism the variety is considerable, the lower degrecs of coating being more often seen than with diseases which present a higher temperature and more depression. Nevertheless, the dry, furred, and enerusted tangues, with their significations, are not absent from the series. It would serve no purpose, and would involve repetition, were 1 to dwell further upon the relations of the tongue to individual disease; the tables speak in this sense, though the experience therein recorded is but a fragment small indeed compared to what mist be in the minds of many who honour me with their presence to-day

I have not dealt with local affections of the tonguc, nor have I had much experience of them. That local irritation increases the coat may readily be believed. The coated or thickly stippled tongue of the smoker is well known; this may even assume (though, I trust, but rarely) the startling form of leucoplakia, an exaggeration, I presume, of the epithelial growth, thongh here I speak without post-mortem observation. I present a drawing from a patient with regard to whom 1 had the advantage of the opinion of Mr. Jonathan IIutehinson. I will dwell no further on this part of the subject, save to repeat what I hope has been made evident, that general influences tell more widely unon the tongue than local ones.
It only remains that I should sum up briefly the conclusions which have been arrived at.
The tongue is an index of constitutional states, seldom of individual diseases. An ancient theologian described the face of a wicked man as a map of the empire of sin. It has been fancied that the tongue presents a map of the empire of disease; and a writer, though one of no great note, has gone so far as to divide the lingual surface into a number of rectangular regions as numerons as the United States of America, which he places under the rule of separate organs; the larynx, the bronchi, the lungs, the pleure, the large intestine, the small intestine, the kidneys, and the brain each possessing a distinct territory. The heart, says this this writer very wisely, has a common control over all. But in truth the tongue has no such local signification; it seldom points to solitary organs or isolated disorders, but is rather a gauge of the effeets of disease upon the system than an indieation as to the locality of it. It is often a guide in treatment, so far as treatment is general, not local; and it is an important help in prognosis. It may, indeed, he doubted whether any means of obscrvation open to the physician, including the pulse and the thermometer. give him more insight into constitutional states than he can derive from the tongue. Clinically it always speaks the truth, and in a language which is not foreign to the experienced physician. And how much truth, or rather how many trnthe, are to be read on how small a page! Conditions of fuver and of feeding; states of the nerrons system; the maintenance or abeyance of vital speretions; failure of vitality, though we may not be able to find out why; in one case that the disease is getting the hetter of the patient, in another that the patient is getting the better of the disease-all these are discernible to the educated eyc. The elinical value of the tongue largely depends on the number of interests it represents; these are more or less mingled in its indications, and the impression they convey is a combined one, but it is none the less valuable because comprehensive; it gives to a glance what otherwise could only be learned by detailed inquiry.

It has hern shown that the white cont of the tongue essentially consists of horny elithelimm, and that the various grades of conting are mainly dhe to its increase. I have not dwelt upon the parasites which are apt to gather upon the coat; these are only of secondary interest; they do not determine the character of the coat or of the tongue, and they have been subjected to an exhanative examination hy Mr. Buthin, with results in negation of their practical importance. It has heen shown that the siveral degrees of coat are manly due to overgrowth of epithelinm thongh in a smaller measure to its want of removal, and that there is a remarkable correspondence between the heat of the boty und the conting of the tongue. If the tougue be coated, the indication is usually of febrile disturbance without especial reference to the stomach or liver, and points more to the general system than the alimentary;. Though sometaing is to be ascribod
to disuse, yet I think I have shomn that too much has been; and that more than one modern observer, like an uncharitable pedagogue, has attributed to idleness what is directly due to illness.

Superadded to the forcing process, if I may so speak, of ferer, we hare step by step ather changes, drynces, furring, and incrustation, which are essentially connected with want of saliva. I have endeavoured to show that this diminution or arrest is declared by the state of the tongue almost as certainly by obscriations on the ducts, and is the chief cause of the furring and incrustation which accompanies it. It is true that in the crust are parasites, but these are secondary; the primary fact is the want of salira, a clinical indication always of importance, though the process by which it is brought about is not always the same. I hare shown the effect of dehydration in diabetes and by diarrhœa; but it has, I think, been made clear that the most frequent and important concomitant of the dryness is a certain failure of bodily force and function which I have not assumed to describe with physiological exactness, hut have expressed by such terms as weakness, prostration, and exhaustion. I do not ignore the effects of deprivation of water, of alcohol, and of opium; but, nevertheless, the relation to which I have drawn attention, so far as it concerns such dryness as to cause incrustation, has a generad hold. It is difficult not to infer that with the salivary are other glandular failures, more especially such as concern the digestive system. Good digestion waits on appetite. Putting aside diabetes, where there are special circumstances, it may be said with general truth that with the dry encrusted tongue appetite is nil, and solid food impossible, not merely from the local difficulty caused by the dryness of the mouth, but from inability more profoundly seated. It may be inferred without rashness that the lossof power to take food is connected with a loss of power to assimilate it ; and if the digestive function is in abeyance it is not likely that the digestive fluids are abundant. Hence it presents itself as what may be called a working probability that a want of the more rital jnices concerned in nutrition may be indicated by the want of saliva which is sometimes 80 conspicuously displayed. Ihysicians acknowledge in their practice some such guidance; the dry and encrusted tongue is seldom disregarded as a call for animal liquids, which require little digestion, and alcolol, which requires none. To translate theory into practice is not only dangerous because the theory may be wrong, but the means may be ill-adapted, though the theory be sonnd. I have often taken the dry tongue as an indication for peptonised food, and thought it beneficial, but hare not as yet had enough experience to speak confidently.

Proceeding from the varieties of clothing which dryness produces, we come to the opposite, but sometimes succeeding, condi-tion-that of nakedness. This is often connected, like the previous, as has been shomen, with want of salira, of which it is usually a latter concomitant, It may be simply due to this cause, but other circumstances are so often present that it is difficult not to assign to them some share in the loss of integument, and attribute this, in part at least, to the failure of nutrition which belongs to hectic fever and suppurative waste. When the tongue becomes dry and bare it is ill with the patient. He is not sure to die, but likely to. If, as has been said, the tongues of dying men enforce attention, it must be often directed to this. The indication of the red, smooth tongue, is for what failing nutrition calls for-tonics, stimulants, and food, probably liquid, but nourishing. The failing pulse does not more surely tell of asthenic tendencies than, as a rule, does the red, dry, and polished tongue.
The tongue, inderd, has a whole book of prognostics written upon its surface. When the tongue is approaching the condition of health, so, as a rule, is the patient, as is scen whenever the red, dry, and bare tongue acquires moisture and clothing. There is no hetter sign in diabetes than the resumption of the natural moisture by the tongue which has been dry. Something may bo judged by the way an encrusted tongue cleans; if gradually and from the edges, well; less so when in scales, especially when the surface exposed is red and dry. One glance at the coated or plastered tongue may give an assurance, which perhaps could not be otherwise obtained, that the disense is on the wane. If the thick cont in the centre steeply shelves towards the sides and front, revealing a normal, moist, not over-injected surface, the tongue is in process of cleaning; the natural friction is overcoming tho coating process, and tongue and patient are on the mend. A tongue acquires coat more evenly and geuerally than it parts with it; we can thus thll whether the coatiug is on the advance or declinc, and apply

There remains to me only the pleasant duty of mentioning those to whom I have not yet referred to whom I have been indebted. No one who has worked at the tongue can fail to have profited by the labours of Mr. Jonathan Iutchinson, to whom, indeed, I have been under special obligation, though as surgeon and physician our points of view have not been the same. I must next record my debt to Mr. Sweeting and Mr. Armstrong, of the Western lever llospital, and Dr. Collie, of the Eastern Fever Hospital, for kindly providing me with scarlatinal tongues. Clinically, I have to acknowledge the services of a series of excellent clerks-Mr. Brushfield, Mr. Le Cronier, Mr. Sortain, Mr. Ogle, Mr. Drabble, and Mr. Barlow. And I have, finally, to thank the Eellows of the College and all who have formed my audience for the attention they have bestowed upon what I fear must too often have betn tedious.

## ABSTRACT OF LECTURES

## DEVELOPMENT OF THE ORGANS OF CIRCULATION AND RESPIRATION,

 IxCLUDING THE
## PERICARDIUM, DIAPHRAGM, AND GREAT VEINS.

Delivered at the Royal College of Surgeons, March, 18ss.<br>By CHARLES B. LOCKWOOD, F.R.C.S.,

Hunterian Professor of Anatomy in the Rojal College of Surgeons of Fingland Surgeon to the Great Northern Central Hospital; and. Demonstrator of Anatomy and Operative Surgery in St. Bartholomew's Hospital.

## Lecture J.

THE lecturer began by saying that he did not think he could show his appreciation of the honour conferred upon him by his reelection to the post of Hunterian Professor better than by Iecturing upon a subject which was especially in need of elucidation. Others might be mentioned of more immediate professional interest, but none of greater scientific importance. The development of the pericardiom and diaphragm was involved in much obscurity and surrounded by many difficulties, more especially as English authors had not, so far, treated it erstematically. In endeavouring to repair this the synthetic method had been adopted, and the rarious phases of development followed step by step, beginning with the simplest and gradually proceeding to the complicated. It had, however, been found impracticable to obtain luman embryos to slow the earliest stages, and these, thercfore, had been studied in rabbits' embryos ranging from the eighth to the serenteenth day of intra-uterine life. The results of these inrestigations had already been communicated to the Royal Society, and in these lectures they would be described chiefly with a view of explaining and illustrating their applicability to homan embryology. Ultimately it would be seen that, whilst bearing more directly upon the development of the rascular and respiratory systems, they threw light upon the origin of the fretal membranes, the placenta, and other problems.

Beginning, therefore, at the eighth day of intra-uterine life, it will be found that the uterus of a rabbit which has reached that stage has along cach of its tubes three or four resicular dilatations which almost double its calibre. If one of these resicles be opened in warm saline solution at the side furthest from the mesometrium and uterine vessels, after a little clear alhuminous fluid has escaped, a delicate film (the hlastodermic membrane) is to be seen spread out upon the surface of the interior of the utems which frees the opening. The shadowy ontline of the embryo occupies the central partof the film, and is of an oblong form, and slightly constricted at its middle. At the head end of the oblong the fore-brain projects very slightly, and behiud it, on either side, and a little way apart, are two small fusiform swellings, which indicate the commencement of the heart in two separate halves. Section through the embryo. and through the part of the nterus with which it is in contact, shows that it lies with its dorsal surface, covered with epiblaş, next to the uterus, and with its ventral aspect, lined with hypoblast, towards the interior of the blastodermic vesicle. In some trpes this arrangement is reversed in an extraordinary manner, and the lecturer argued that that
circumstance suggested that applieations of developmental data from types which were known to those which were not, onght to be receiven with great eantion. Procecding, it was said that between the epiblast and hypoblast lay the mesehlast, Which at the eighth day had divided into somatoplewre and splanchnopleure. The cleft between these two layers is usually called the colom, and it extends from behind the fore-brain far towards, and beyond, the tail cul of the embryo. The somatopleure, covered with epiBlast, lies upon the wall of the uterus, and has no feature of particular import, but the splanchuopleure on either side has about its midst a slight thickening, which is bent with, its concarity ventralwards, that is to say towards the hypoblast, and its con-, vexity towards the coelom. These bilateral symmetrical thickenings are the beginning of the leart, and it is to be neted that (A); they are of purely splanchnic origin, and (B), that they project inte. the fore part of the coelom. As the embryo grows, these cardiac splanchuic loops become more complete, and horseshoe-shaped (Fig. 1), and, simultancously, owing to the bending inwards of


Fig. 1.- Rabbit's emtryo of eight days and four hours, showing the splanchnic cardiac loops. C.C., cardiac portion of the coelom; He., heart: A0, zorts.
the splanchnopleure to form the pharynx, they gradually approximate and finally coalesce. Whilst these events are in progress, there is no change in the relation of the heart to the colom, and it continues to project into the foremost part of that cavity. By the beginning of the ninth day, the rabbit's heart is a slightly bent tabe attached to the pharynx by the supracardiac splanchnopleure, which has become the mesocardium posterius, and to the ventral wall of the coelom by the infracardiac splanchnopleure, which has become the mesocardium anterius. Morecver, the hinder end of the heart now receives two large veins which; originating in the blastoderm, run inwards at right angles to the axis of the embryo along the splanchnopleure and, consequently, along the ventral wall of the coelom.
These vessels, therefore, may be said to divide the colom into two portions, namely, a cardiac and a pleuro-peritoneal, and are the first factors concerned in separating the one part from the other. This is effected as follows: the renous end of the heart and the cardiac ends of the omphalo-mesenteric ycins are fixed to the ventral wall of the pharynx by the mesocardium posterius, and in addition, after the early part of the ninth day, the veins become fastenert by an adhesion, the meacardium laterale, to the somatoplenre, at a point which is almost at the same level as their entry into the heart, but some distance nearer the lateral limits of the embryo. Thus a portion of the coelom is converted into a passage which has the following boundaries: in front, the cardiac end of the omphalo-mesenteric rein; behind, the body wall; externally, the mesocardium laterale ; and internally, the mesocardium posterius and pharynx. As this passage owns its formation to one vein and its subsequent closure to another, it may be called the "iter venosum;" and it is unnecessary to repeat that it leads from the cardiac into the pleurn-peritoneal portion of the colom (Fig. 2). The mesocardium laterale is a union of splanchnic with somatic structures, and is the route by which the somatic veina (that is, those developed in the bedy wall) find ingress into tho splanchnic (that is, thase developed in the aplanchnopleure). So far the portions of the varcular system which have been mentioned, namely, the heart and omphalo-mesenteric veins, are purely splanchnic in their origin, but coincident with the estabishment of tho mesocardium laterale, a large vein makes its appearance on either side in the substance of the borly wall, and after coursing in the body wall the whole length of the pleuro-peritoneal portion of the coelom, passes through the mesocardinm laterale into the omplajo-mesenteric vins. These newly-formed vesscls are the umbilical veins, and
the manner of their commencement is particularly interesting, because it has to do with the formation of the placenta. The hinder part of the somatopleure, in the region where the umbilical reins begin, maintains its original proximity to the uterine wall. Is development proceeds this relation to the utcrine wall persists, and the somatopleure, in the region of the commencement of the umbilical veins, becomes' much thicker than elsewhere, and breken by venous spaces, and to all appearances forms the main part of the placenta.
The lecturer then discussed, the development of the allantois, and was of opinion that observers had been misled in assuming that in the rabbit, and probably in the human' embryo, there was a balloon-shaped allantois, similar in development to that of the chick. On the contrary, he believed that in the rabbit and in man somatic structures took a much greater share in the development of the placenta than had yet been assigned to them; and, moreover, he endeavoured to show that the allantoic vesicle of the rabbit eriginated in a different manner to that of the chick.

Legture Il.
Returning to the great organ of circulation, it will be found that, after the beginning of the nintl day, the heart grows rapidly, and bulges the wall of the cardiac portion of the coelom


Fig. 2.-Rabbit's embryo of nine days and four hours, to show the cardian portion of the calom continuous helind the omphalo-mesenteric vein with the hinder or pleuro-peritoncal portion. Iter V., iter vedosum; Omph V. omphalomesenteric rein; Am., amnion; V. Ht.. venouy end of the heart : V.S.T., ventral portion of the septum trausversum.
rentralwards (lig. 2). But, near the hinder end of the heart, this displacement is prerented hy the ompliqlo-mesenteric veine which, as was said before, are themselves fixed dorsalwards by the mesocardium posterius and the mesocardium laterale. In consequence of this fixation, when the heart expands and the cranial flexure is formed, the ventral wall of the coelom is retroflected opposite to the omphalo-mesenteric reins, and hecomes transverse fold, the septum transversum, which stretches behind the heart from one mesocardium laterale to the other. The origin of the liver was then discussed, and that organ was
considered to originate in the hyboblast which clothed the hinder surface of the septum transversum, so that that structure formed a partition between the heart and the liver, and was, in fact, the commencement of the diaphragm.

Towards the end of the ninth day the rabbit's embryo has assumed many of its later and more familinr characters (Fig. 3).


Fig. 3.-Semidiagrammatic figure of rabbit's embryofof latter part of ninth day: An arrow has been drawn in the iter venosum. Ant. C., anterior cardinal vein; P.C., posterior cardinal vein; C.D., Cuvierian duct; Au.; auricle: Ven., ventricle; Ventral Dia., ventral diaphragm: Liver: Omph. V., omphalo-mesenteric vein; P.P.C., pleuro-peritoneal carity ; F.B., fore brain.

There is still a wide communication between the cardiac and pleuro-peritonenl portiens of the coflom, hut the former has a much greater resemblance to the pericardium. Moreover, an important addition has been made to the venous system. The anterior cardinal, or jugular, veins appear during the earlier part of the ninth day, and, being somatic in their development, run tailwards in the body wall, and empty into the umbilical veins, just before the latter open inte the omphalo-mesenteric.
About the middle of the ninth day, the posterior cardinalsoriginate also in the body wall, and emptyinte the anterior cardinals, a little distance from their termination. The portion of the vein which conveys the blood of the anterior and posterior cardinal veins towards the heart is the Cuvierian duct, and it has considerable influence upon the development of the pericardium. It owes this importance, as we shall presently see, te its relation to the iter renosum, for, as both transverse and longitudinal sections show, it runs towarls the heart in the part of the hody wall Which forms the outer boundary of that passage (Fig. 3).

By this time, the latter part of the ninth day, the iter venosum bas for its inner boundary the wall of the pharynn, which, in common with the rest of the embryo, has grown considerably. Moreover, the lungs have begun to project on each side from the sides of the alimentary canal, in the shape of small buds, situated a little farther back than the Corierian ducts, and close to the dorsum of the septum transversum and liver.

In the next stage of development the heart and renons system undergo a modification which greatly alters their anatomy. So far the heart has been said to receive two remous tributaries,
namely, the right and left omphalomesenteric veins. But towards the end of the tenth or the beginning of the eleventh day the venous heart expands, and engulfs the whole of the cardiac ends of the omphale-mesenteric veins and the terminations of the umbilical veins. In consequence, the ouphalo-mesenteric veins are no longer the ventral boundary of the renosum, for they have been converted into the venous end of the heart, which takes their place. Owing to this expansion the other veins acquire separate and independent openings into the heart, which now receives on either side the Cuvierian duct, the umbilical vein, and the om-phalo-mesenteric vein (see Fig. 4). The liver has also grown, an


Fig. 4.-Scheme of the venous system of the rabbit's embryo at the end of the ninth day (nine days and sixteen hours) R. and L. Ant. C. F. right and left anterior cardinal veirs; R. and L.P.C. F., right and left posterior cardinal veins; K. an.Y. and L.O.V., right aud left nmbualomesenteric veins.
surrounds the part of the omphalo-mesenteric vein which is nearest the heart, and the substance of the organ is penetrated by venous channels, which open into the omphalo-mesenteric reins, and through them find a passage to the heart. The venous system remains but a little while in this condition, and about the beginning of the elerenth day the umbilical veius upon each-side acquire communications with the venous spaces of the lirer, and can, therefore, send their blood to the heart-ly two rontes; the first being, of course, by their original cardiac openings; the second by the omphalo-mesenteric veins, through their communications with the hepatic renous spaces. The eleventh day also witnesses the commencement of a dorsal pericardium, which is a mesoblastic septum uniting the venous end of the heart and the omphalo-mesenteric veins to the body wall, and continuous with the dorsal part of the septum transyersum. This structure seems to be formed partially, perhaps, from the mesocardium laterale, but mainly by elongation of the septum transversum. From its earliest formation it constitutes a partition betwixt the cardiac portion of the coelom and the foremost part of the pleuro-peritoneal cavity, that is, the part in which the lungs lie. Moreover, the characters of the dorsal pericardium are such that a part of each omphalo-mesenteric rein, immadiately before entering the heart, is between its layers and, as will be suen presently, the right omphalo-mesenteric vein becomes the mouth of the inferior vena cava, and permanently retains this relation. It is convenient, therefore, to divide the course of the omphalomesenteric reins into three parts-a septal, a hepatic, and a mesenteric; the latter being the part before their entrance into the liver; further, it is to he noted that the foremost part of the dorsal pericardium is continuous with the Curierian ducts. Whilst the cardiac and pleuro-peritoneal portions of the coelom have been expanding, the iter venosum has remained stationary, and, in comparison mith its surroundings, looks like a narrer passage leading belind the renous end of the heart, from the
peuro-peritoneal into the cardiac colom, and is the same as a passace found in that position in tha skate and dog-fish. But before the iter actually closes, changes are effected in the renous system which determine the permanent characters of these channels. First, the hepatic pertion of the left amphalo-mesenteric vein becomes occluded with liver substance (rig. 4). This early closure of the left omphalo-mesenteric vein is associated with an inequality of the right and left halves of the liver, the left side heing, after the occlusion of the vein, rather smaller than the right.
The lecturer argued that this laft a larger area of pleuro-peritoneal cavity to he bridged orer upon the left side of the borly when the completion of the diaphragm was effected, and the pleural cavity separated from the peritoneal. This would explain the greater Irequency of congenital deficiences of the posterior part of the left half of the diaphragm. Variations of such important organs were not frequent, because their incidence was governed by two causes, upon which enongh stress had hardly been laid. In the first place, structures essential to existence had little tendency to vary, and for a simple reason. Any rariation of a great organ or important muscle, such as a crico-arytenoidens posticus, might be supposed to jeopardise the life of the individual afllicted with it, and, therefore, the variation had little chance of being transmitted by descent. In the second place, structures developed early are seldom found to vary; indeed, the frequency of variation seems in inverse ratio to the time of development. The reason for this is likewise simple-namely, that a variation in one of the earlier organs produces such an effect upon its after-comers that the life of the embryo is again jeopardised, and it is rendered incapable of reaching maturity. Framples illustrating these laws were given, and it seemed prohable that they were capable of being applied to neoplasms as well as organs. The anatoray of the human pericardium and diaphragm were then discussed with the view of showing that in early life the fibrous pericardinm was easily separable from, and independent of, the diaphragm: and, moreover, that the thoracic portion of the inferior rena caya had a complete investment of fibrous pericardium until the third year, or even later.

## Lectere III.

The next step in the development of the great reins is the obliteration of the cardiac openings of both umbilical veins. This is followed, subseqnently, by the entire disappearance of the right, and by the diversion of the left into right omphalo-mesenteric vein (see Fig. 5). The manner in which the umbilical veins loose their carliac openings is far from clear, but the event seems to be associated with an elongation of the cardio-thoracic portion of the embryo. The left umbilical vein acquires its channel into the right omphalo-mesenteric by taking advantage of its alternative routo through the liver substance, the venons spaces of which seem merely to dilate. The passage caused by this alteration is called the ductus venosus Arantii. Moreover, the septal portion of the left omphalo-mesenteric vein disappears, so that, upon the left side, the doral pericardium, between whose layers it lay, becomes a simple membranous septum between the nuricle and pulmonary portion of the pleuro-peritoneal sac. The septal portion of the right omphalo-mesanteric vain, on the other hand, now carries to the heart its own bloorl, and that of the liver and of the ductus venosus. In addition. tha right omphalo-mesenteric rein, hefora its entrance into the liver, rechives a number of veins from the alimentary canal, and is in process of conversion into the portal vein. Sost if these events taka placa during the twelfth day, and by the time they are completed the iter venosum has almost closed. The Cuvierian ducts are the chief canse of that erent.
At the end of the twelfth day the fore lims hape developed, and empty their blood into the Cuvierian ducts, which become larger and are in process of conversion into the superior rena cave; just as in the earlicr stages of development (Fig. 3) the Cavicrian ducts run round the outer wall of the iter to gain the heart, bat, owing in a measure to their expansion, they are approximated to the wall of the trachea and csophagus, whilst simultaneously the tiscues which surround these canals become more bulky and assist the process. l3y the thirteenth day there is no trace of any communication between the pericardium and the pleuro-peritoneal sac. The thirteenth day also witnesses the formation of the inferior vena cava. This ressel originates either a little sooncr than or simultanennsly with tha permanent kidneys, from which at first it derives most if its blood.

As a preliminary to the appearance of the rein in the urogenital
ridge, the dorsal lobe of the liver forms a junctien-caral junction - with the tissues near the base of the mesentery. The cava enters the liver by this unien, and runs through the tissues of the organ into the right emphalo-mesenteric vein, close to its junction with the ductus venosus (Fig. 5). When, at a later period, the hinder lepatic portion of the right emphalo-mesenteric vein becomes nceluded with liver substance, the familiar features of the foetal circulation are established. Thus, in'the rabbit's embryo of twelre


Fig. 5.-Scheme of the renous system of the rabbit at the end of the twelfir day. The portions of the veins which have hecome obliterated are shaded with diagonal lines. Letters the same as Fig 4. D.V.A., inctus venosus Arantii ; V.C. Inf., vena cava inferior ; M.V., mesenteric veins.
and a half days of intra-uterine life, the heart is contained in a closed sac, and the lungs lie in the pleuro-peritoneal cavity, just bebind the superior vene cavoo (that is, nearer the tail end of the embryo), and in contact with the dorsal pericardinm and dorsal surface of the liver.
The next stage is the formation of a partition or dersal diaphragm between the pulmonary portion of the pleuro-peritoneal sac and the hinder or peritoneal part. This is accomplished by crescentic fold, which, during the latter part of the twelfth day, grows inwards from the side body wall towards the mesentery (Fig 6). At first this growth is incomplete, and consists of indifferentinted meseblastic tissue; but by the fourteenth day at has grown inwards ns far as the mesentery, and, near the body rall, coutains muscular fibres. Moreover, as the dorsal diaphragra grows inwards from the body wall, it becomes joined to the foremost end of the urogenital ridge. There is reason to beliere that the foremost end of the urogenital ridge develops into the auprarensl body, whose connections with the diaphragm are more intimate in carly embryos than at later periods.
The lecturer showed tro human embryos, one of tha seventle week, in which the suprarenal body contained glomeruli, and was continnous with the Wolftian body, and another of the tenth week, in which the connection had almost disappeared. Ile was inclined to think that the suprarenal bodies assumed their diaphragmatic relations very early in intra-uterinc life.
The development of the sides and crura of the diaphragm, and the manner in which the pericardium and diaphragm assume their permanent charactera, was then traced both in rabbits and in human embryes.

Before concluding an nttempt was made to ascertain how far the data derived from the rabbit were applicable to the humaa embryo. Evidence was adduced to show that the human embryo
was developed with its dorsum to the uterine wall, and that it aftermards, like the rabbit, underweut rotation; so that, in the placental region, its renter was turnod towards the uterine wall. it seemed uncertain in which direction this rotation occurred, whether to the right or left.

With regard to the question whether the cavity in which the heart lies ever, in human embryos, communicates with the pleuroperitoneal cavity, the lecturer showed sections of a human embryo in which the passage could still be seen, lying between the Cuvierian duct aud the wall of the trachea and cesophagus. The sane specimen also indicated that the closure of the passage was the same in man as in the rabbit, namely, by the approximation of the Cuvierian duets to the wall of the alimentary and respiratory canals. Traces of the passage (the iter venosum) had been looked for at later periods, but without suceess until lately, when traces of its persistence seemed to be seen in au exeeedingly abnormal fotus dissected by Mr. D'Arcy Power, who very kindly allowed it to be shown. On theoretical grounds it might be expeeted that loffore long the persistence of the iter renosum would be definitely


Fif. 6.-Trausverse section through the thoracie pertion of a luman emhrye to slow the dorsal diaphragm. D.D., dorsal diaphragm i. V., rentral diaphmgm ; C.V., carilinal veins ; An., anricle; R. and L. V.C.S., right and left superior vene cava: Peri. ©., peritoneal cavity; I!. C., pleural carity ; Lng., lung ; Gs., cesophagus.
stablished. IIuman embryos young enough to display the comdencements of the umbilieal veins and their relation to an allanoic outgrowth had not been obtained, but speeimens were at and which showed that those ressels were closely related to the wdy wall and most probably legan iu a modified portion of that tricture. There was no evidence to show that the umbilical cins of the human embryo opened direetly into the heart, lthough the researclies of Ilis made them emptry into the inus renniens-a chamber singularly like the cardiace ents of re omphalo-mesenteric veins of the rabbit; the difference seemed ather one of detail than of prineiple. Specimens of hmman emryos were shown which seemed to indicate that in of hor respects he evolution of the great reins was the same in man as in the abbit. The dorsal diafuragm of the human emhryo was deeloped in exactly the same way as in the rabbit, and consisted of creseentie proeess. which grew inwards from the foremost part f the side boly wall towards the mesentery (see lig. 6). Owing , the expansion of the lungs, the perieardium and dorsal and entral diaphragm underwent ennsiderable modification.
The lecturer concluded by deseribing the development of the ulmmary veins and the foimution of the he pitic ligaments.
The ammal report just issued by Dr. Fussell, Medical Officer of calth for Lastbourne, gives a ceath-rate of 13.8 per 1,000 .

## ABSTRACT OF A CLINICAL LECTURE ON <br> PERICARDIAL EFFUSION WITH <br> PULSUS PARADOXICUS.

By I'. BLAIKIE SMITII, M.D.,

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Gextlemen,-Many of you hate recently seen in my warls a case of pericarditis with large effusion, accompanied by symptoms of such a nature as to bafle for a time the efforts that were made to interpret their significonce and arrive at a satisfactory dingnosis. The patient was a man aged 45, a stone-cutter hy trade, and his history briefly is as follows. He laad enjoyed uninterrupted good bealth up to eighteen months ago, when, after exposure, he began to suffer from congh and expectoration. His 1lluess persisted for nearly a year; it then subsided, and he alescribed his recovery as complete. About five mouths ago, however, his cough roturned. Hiemoptysis occurred on one occasiorr, and a gradually increasing breathlessness, with debility, induced him to seek advice at the Aberdeen Royal Intirmary, where he was admitted on August 10th. As regards his family history, there was no mention of rheumatism or phthisis, but he told us that his father died from bronchitis. When he came under obscrvation this appearance was indicative of dyspncea; he spoke in short sentenecs, frequently stopping from want of breath, and using enargetically the foreed museles of respiration to emable him to get airinto his lungs. There was slight cougb, with seanty muco-purulent expeetoration. The temperature was $102^{\circ}$. Examination of the lungs anteriorly revealed signs of consolidation at both apices, most marked on the left side. where they were accompanied by small moist rales. The apex beat of the heart could neither be seen nor felt; the sounds were feeble and rapid, and aceompanied by a peculiar murmur, systolie in rhythm, best heard during inspiration, fainter during expiration, and almost inaudible during the respiratory pause. The brait was loudest about the lower end of the sternum, but was quite distinct in the left infraaxillary region. The eardiae dulness was manifestly increased in area and in intensity; it extended from the seconit space to the sinth rib in the mammillary line, and from the left edge of the sternum to a little beroni the nipple. Over the whole of this area the respiratory murmur was feeble or absent, and voeal resonance and fremitus were reduced to a minimum. The lungs posterionly gave a dull percussion note in the supraspinous regions, while over the lower half of the left side there were present. bronchial breathing and signs of some consolidation Nowhere was there any evidence of venons engorgement, arterial pulsation, or glandular enlargement: and there was neither aphonia nor dysplagia. The liver and spleen were of normal size; the urine: acid and free from albumen and sugar.

Three days after admission it was neter that the paticnt prosented a well-marked pulsus paradoxicus-that is, a pulse whose beat became enfeebled or absent on every inspiration, $x$ turning at the commencement of expiration; and that the right radial artery pulsated with greater force than the left. About the same time, also, it was oloserved that the left pupil was distinctly larger than the right. From this date mutil the termination of the case the difference betwteen the two Iulses and the inequality of the pupils were frequently observed, but on some days careful examination failed to discover any abnormality in these respects. The pulsus paradoxieus, however, persistel up to about ten days before denth, when it became gradually less markad, anl finally subsided into a feeble and rapill but otherwise normal pulse.

Without following minutely the gradual changes that took place in the physical signs. may mention that the peculiar eardiac sound heard on almission slowly disappeared, apparently resolving itself into a pericardial frietion murmur heard upon one or two oceasions at the site of the nomal apex beat: and that the enrdiae dulness slowly extended downwards and laterally until, beeming triangular in shape, it erossed the lomer end of the sternum and cansed a dull percussion note between the cartilages of the fifth and sixth right rilos. Symptoms of pleurisy with effusiou soon appeared on the left side, nnd a few day; before leath the right side becante similarly anfected. The superlicial thoracic reins, especinlly in the left infri-axillary region. showerl signs of engorgement ; dyspuea inereased. cumpelling left decubitns; inspiration becane more labourel, and was accom-
panied liy distinct, epigastric recession; and wedema of the fect was unt long in making its significant appearance. Gastric troubles addeil th the patient's miserable condition; the intellect b come impaired : aut finally an attack of dyspmea occurred on Suptenber $24 t h$, which was of such severity as to cause death n"xt day

Throughont the progress of the case the pulse beat on an average 1:0, and the respirntions numbered 36 , per minute; and the temperature, which wus at first decidedly febrile, became normal after a short time, remaining so thring the last fortnight of the patient's existence. The state of the urine is worthy of notice. Acill at first, it soon becaue ulkaline, and so alkaline that the addition of nitric acis cansed efferrescence to such a degree as instantly to overflow the test tube. It was highly pigmented, giving a well-marked reaction from the presence of indican, and deposited a yery large amonnt, sometimes as much as a fifth of its lulk, of sediment, consisting of crystals of ammonium urate, of triple phosphate, and amorphous phesphate of lime.
The treatment of the case consisted in the employment of cardinc tonics, and remedies to relieve the distressing breathlessness and gnstric troubles. The operation of paracentesis pericardii was nt one time contemplated, but its performance was rejected mainly owing to the pulmonary complications.
At the past-morteme examination, the right pleural cavity was fonnd to contain 70 ounces and the left 10 ounces of greenishcoloured serum. Both lungs were marked by several depressed cicntrices, which at the npices had resulted in considerable deformity, and in those situations the lungs and costal pleure were firmly adherent by fibrous bands, a state of matters which was especinlly noticeable at the extreme left apex. Scattered over the pulmonary surface nad thronghout its substance were numbers of hard nodules, all about the size of a mustard seed. At first sight they resembled tubercles; but, taking into account the other features of the case, they wero probably due to the inhalation of stone dust. The bronchial glands were all considerably enlarged, and of a unirersal deep slate colour. The pericardinal sac contained 43 ounces of deeply-stained seram. The surfaces were free from adhesions, and were covered with a thick, firmlyadherent coating of 1 ymph , which throughout had a characteristic honeycorab appearance. The mucous membrane of the stomach seemed in a state of catarrhal inflammation, and its condition afforded a ready explanation of the gastric troubles complained of ly the patient. Nothing unusual was observed about the other organs.
The case which 1 have above brielly narrated affords a good example of the difficulty which sometimes attends the early diagnosis of pericardial effusion, and illustrates the importance of carefully observing the symptoms as they arise, and of weighing the eridence that they supply.

When 1 first examined the patient, I thought his case might be one of thoracic aneurysm, a suspicion which was strengthened by the unequal pupils and the disparity in the radial pulses; but the unsteadiness of these conditions, the absence of other signs of aneurysm, and the occurrence, inter alia, of the pulsus paradoxicus, sion cansed the rejection of that theory. Led away br the presence of this peculiar form of pulse, I next entertained the theory of its commonest cause, namely, indurative mediastinopracicarlitis, a disease in which intlammation of the pericardium and anterior mediastinum results in the formation of fibrous bands connecting the posterior surface of the sternum with the prolongations of the pericardium along the great vessels. Such a state of matters would readily explain the paradoxical condition of the pulse; for you can casily understand that the act of inspiration, by elevating the chest, would tighten the bands of induration, coripress the aorta and other great vessels, and bring about not only weakening or obliteration of the pulse on inspiration, with its reviral on expiration (when the hands would become reliaxed), but also inspiratory venous engorgement in the veins tributary to the superior vena cava. Such a condition of the npper renous system, however, did not exist, nor would an increasing area of cardiac dulness result from the form of pericardial and mediastinal inflammation to which I have just alluded. This theory, then, also fell to the ground.
Was a tumour occulying the antrrior mediastinum the cause of the symptoms? Such a tumour might undoubtedly produce dulness on percussion; but there were none of those signs of pressure which an unyielding horly growing within the thorax is bound to exereise on contiguous structures. He had no tracheal stridor nor dysphagia, and no localised dropsy, and in addition the normal
state of the supra-elavicular and axillary glands gave no suppor to this diagnosis.

So far haring failed to tind a satisfactory explauation of th chief symptoms in this case, there remained but two othe disenses which might reasonably be susjucted of being the mai cause of the dyspnca and the physical signs referable to th heart. I allude to extensive cardiac dilatation and to pericarditi with large effusion. And first as to the diatation: In this cou plaint we get the physical signs of enlargement of the heart ; bu the dulness does not extend beyond the apex beat, and its outlit is pretty much that of the heart itself. Generally some impuls is to be felt, and the cardiac sounds, though weak, are never is audible. Pericardial friction is, of course, absent. Dropsy is yer frequently present; and if the dilatation affect mainly the rigl side of the heart, we have in addition urgent dyspncea, renol engorgement, and epigastric pulsation.

Well, then, cardiae dilatation, though it explains the breathles ness, yet leaves untouched the main symptoms of the ease. does not account for the triangular-shaped area of cardiac du ness nor the absent heart sounds; it is quite unfit to produ friction, and it has not been observed to nccompany the pulsı paradoxicus.
Coming lastly to pericarditis with large effusion, the disea which 1 nltimately selected as the chief source of the patieul troubles, let us see what symptoms it presents: distressil breathlessness, with a gradually increasing area of cardiac de ness, finally assuming a triangular shape having the base belo absence or enfeeblement of the heart sounds, pericardial friction some period of the disease, and pressure symptoms-for exampl fulness of the superficial reins of the thorax or neck. In the ca before us all of these symptoms were present sooner or later, b it was not until the area of cardiac dulness became triangular a involved the fifth right intercartilaginous space that the diagnos was rendered certain. Do not, therefore, omit to note the impe of this physical sign-when the area of cardiac dulness becom triangular, and extends to the right of the sternum below, pe cardial effusion of large amount is almost sure to exist. As co firmatory of the diagnosis, it was observed that the epigastriu sank a little Inwarl on inspiration, and that the pulse was pa doxical. You are all awne that the diaphragm is a muscle of spiration, and that when it contracts the epigastrium protrud but when a large pericardial effusion exists, the long-continu pressure which it exercises on that muscle induces partinl par Iysis, and thus recession of the epigastrium on inspiration brought about.
I have already mentioned to you the most frequent cause of $t$ pulsus paradoxicus, indurative mediastino-pericarditis, and ha explained its production in that complaint, but this form pulse is also well known to oecur in large pericardina effusi and in a few other diseases interfering with respiration, such
stenosis of the trachea. When it results from. posed to be due to pressure on results from effusion, it is 8 expiration (when the intra-thoracic pressure is augmentel), that the heart contains less blood at the beginning of ins ration than at the commencement of expiration.
dition is well illustrated by the accompanying splygmogra

taken soon nfter the patient's admission into hospitnl, but the pulse ceased to be paradosical, while its reputed cnuse, pericarclial effusion, was about its maximum, I am unable to. plain. It may have been that the physical changes in the rity pleural cavity (you will remember that it contained much th towards the end of the patient's illness) so altered the conditi essentinl for the production of this form of pulse as to cause ${ }^{3}$ peculiarity to disappear. At all events, the two occurrences cocided in roint of time. The extremely nlkaline condition of urine latterly, with its large deposit and peculiar reaction, ch for comment, but 1 regret to say that I amm unable to acco satisfacturily for either the one or the other, nor am 1 asar similar state having been observed in any analogous case.

Lastly, although the presence of pericardial and pleural cffusions proved to be the correct diagnosis, how is it iossible, you may ask, that they should have brought about the diated left puppil, these symptoms lay in the extreme fibrosis of the apex of the Ieft lung, which excited pressure on the sympathetic nerve and on the subclavian artery, and that the intermitteuce of these symptoms is to be explained by the alterations in the intra-thoracic pressure, due to a varying amount of pericardial and pleural effusion.
I have said little with regard to the pulmonary signs noted during life, and their explanation as witnessed in the post-mortem room. I expected to find signs of consolidation at both apices, with evidence of double pleurisy, and I was not disappointed; the large effusion on the right side was clearly of recent occurrence, and its rapid accummulation proved fatal to the patient. Although the pulmouary signs there were comparatively easy to understand, yet I believe that read in the light of the post-mortem examination, they had an importaut bearing on the patient's illness. Apparently the inhalation of granite dust induced fibrosis of the lungs, which, slumbering for awhile, broke out anew, and resulted in the pericardial and pleuritic effusions which gave rise to the peculiar symptoms that I have endearoured to interpret to-day

## METHOD OF PREPARATION OF LARGE SECTIONS OF 'THE LUNG.

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the Royal Infirmary, Edinburgh, ete.
Once Professor Hamilton had introduced his most valuable process of making large sections of the whole brain, the application of lis method to other organs became merely a matter of time, necessity, and opportunity. Whilst working at the subject of phthisis I saw how invaluable such a method would be for demonstrating the localisation of tubercular and other lesions in such an organ as the lung, and during the period that I was working with Professor Greenfield a number of the lung sections to be demonstrated were so prepared. Since that time I hare, in connection with my work as Research Scholar of the Grocers' Company, prepared a very large number of sections of varions forms of diseased lungs.
The modus operandi is as follows: After the first incision through the lung-which should be made in the direction in which you wish to have your sections, usually from apex to base and from the antero-exteralal angle of the lung down to the root, so as to obtain as large a section as possible-a second ineision is made parallel to the first, so that a thin slice, not more than half an iuch in thickness, is obtained. This slice is carefully hardened in Müller's fluid for fire or six weeks. The hardening must be as perfect as possible, if even moderate success is to be attained. I find that the best way to accomplish this is to lay the section out flat in a dish on a layer of lint, then to corer with sereral layers of lint, and immerse the whole in Muller's fluid. a plate of glass or weighted wood being used to keep it down. Spirit also hardens the sections well, and in some cases this reagent may he used, but it must be remembered that it is somewhat difficult to get rid of the whole of the spirit without softening the textures too much; especially is this the case in warm weather; but it may he done by running a contimuous stream of water over the section for about thirty-six hours before further preparation. The specimens hardened in Müller's fluid need not be washed with rater for more than twenty-four hours. The slice of tissue is then placed in a mixture of tire parts of mucilage (B.P.) and four parts of a syrup made by boiling 20 ounces of sugar in a pint of water. The proportion may be varied a little in winter by using only three parts of the syrup. Two to the ounce drops of carbolic acid may be added to prevent the formation of fungi; the tissue should be soaked in this for forty-eight hours at least, but it may be left for a fortuight or even a month without injury:

The microtome used is one modified by Dr. Alexander Bruce, in which are combined the best features of both the Hamilton and Williams microtomes. It consists of a large square tub in which are fixed nime brass pillars; to the top of these is serewed a large
1A description of a demonstration in the Section of Pathology at the
Annal Meeting of the British Medical Association in Dublin.
zinc plate. To the tub are fixed a couple of rails similar to those on the bed of a metal planing machine, and on these rails runs a heary plane, to which is attaclied a knife blade fixed at an angle of $45^{-0}$. This knife is moved upwards and domnwards by means of a fine screw, which is so adjusted that sections of very great delicacy may be cut (if the knife is sufliciently well sharpened), The best and cheapest knives are those made for paper cutters' guillotine machines. To this microtome 1 have added for the sake of convenience and rapidity of working, first, a second metal plate Which may be screwed to the fixed plate, so that after a few sections hare been obtained, the plate with the piece of tissue may be remored and put aside until again required: and, second, a tin box about 4 inches deep with a bottom an inch from the lower part of the sides, which fits over the second plate. It is provided with a lid, has the bottom sloping to one end, and has an outlet pipe to which a piece of india-rubber tubing may be attached. ${ }^{2}$ Tub and tin box are both filled with ice and salt. The section is takeu from the gum and syrup, carefully dried with a soft clean cloth, and then placed in I.'P. mucilage watil the surface is thoroughly saturated (ten minutes is quite sufficient for this), after which it is transferred to the freezing plate, on which a rery thin layer of gum has been laid. The section becomes fixed immediately. It must then from time to time be carefully banked up with gum, the tin freezing box being placed over it during the iutervals. When nearly frozen, take a long thin knife and pare the tissue, down to the level of the rails. Now prepare a large clean white flat dish, fill with slightly warm distilled water, to which a little syrup may be added (especially if the tissme is at all brittle), and place it in front of the tub, about an inch below the level of the sections, so as just to clear the plane. In this lay the slieet of glass which is to serve as the cover glass. This should be considerably larger than the section. The glass I find best suited for the purpose is thin rolled plate, which is to be obtained only from Messrs. Chance, of Birmingham. Bring the knife down to the level of the tissue by means of the screw, and cut away all fragments till a complete section is obtained. The first complete section, if thin enough, is spread out with the aid of a camel hair pencil on the glass, on זhich it is carefully removed from the water and transferred to a second vessel containing distilled water, Where it is allowed to stand for a few hours in order that all the mucilage and sugar may be thoroughly mashed out.
The sections may be mounted either as they are, unstained, or they may be stained with alum-carmine, picro-carmine, or ordinary ammonia-carmine; but I find that tho two former are the most satisfactory reagents. In staining with picro-carmine, a rapid staining on the slide, with no after-rrashing except around the section, is best. For the alum-carmine staining the best method is to transfer the corer glass with its section to the staining fluid, Where it may be left for a night. It is then put back into distilled water, and is there thoroughly washed in order that all alum crystals may be remored. In order to clear up some of the unstained sections, IIamilton's liquor potassee method mny be used. After the sections have been thoroughly washed, he jours orer the surface with a pipette a strong solution of liquor potasse and water. Strength of 1 to 4 gives the best results. When thoroughly cleared up the section may be monnted.
To imbed and mount these sections, take a quantity of gelatine (Nelson's, or Cox's and Coignet's), wash well and corer with a saturated and filtered solution of salicylic acid; allow to soak all night, so that a considerable quantity of water mar be alsorhed. Pour off superfluous water and heat over a water bath until the whole is thoroughly melted; add one part by measure of this to two parts of glveerine, heat over a mater liath, stirring regularly until the whole is thoroughly mixed; strain through a piece of close clean flamel into a flask, in which it may be reheated over the water bath as required. When not in use the flask should be kept corked.

Ifaving allowed most of the water to drain away from the sectiou by tilting it against some object, with the glass proteeting the section from dust (it must not be allored to dry, or airbubbles will be enclosed in the section and it will be spoiled) it is placed, section upwards, on a level stand (a screw tripod serves the purposo admirably), and a thin layer of the marm glycerine jelly is run geatly over the surface of the section by means of a pipette. Great care must be taken not to allon the jelly to run too rupidly, or the margins or even the vhole section may be displaced. It is then set aside to conl, after which, if kept away from dust
${ }^{9}$ This microtome is mado by Mr. Alexander Fraser, Lothian Street, Edinburgh.
and heat, it may be left for a week or two until time and opportunity be fouml to finish it off.

This finishing-off process requires a little practice, but is not dificult. The slide on which the section is to be mounted is placed on three or four pieces of cork over a water bath until it is warmed througl. This is to prevent the too rapid setting of the jelly. It is then transferred to the tripod, and a quantity of jelly is poured on to the centre and gradually on to the end nearer the manipulator; the corer glass is then taken and gently lowered, the near end first and so gradunlly down on to the slide. The jelly on the cover keeps the section in position sufficiently loner to allors of the cover glass coming into its place. The slide usually retains sufficient heat to melt away all superfluous jelly. Should this not bo the case, the whole slide may be again heated over the water bath, and by the application of gentle pressure the extramounting medium is squeezed out. If this extra medium be left at the margin of the cover, the slide may be left for some time without further treatment. To preserve the section remove the extra jelly with a spatula, wipe carefully with a moist cloth and then with a dry one. After this the margin of the cover glass and the slide should be carefully painted over with benzole balsam, layer after layer being applied at intervals of two or three days, until there is a good firm coating. Unless this be done at once after clearing off the extra jelly, the jelly at the margin under the cover dries rapidly, air bubbles make their way in, and onee there, will eventually spoil the section. At one time I afterwards pasted first a layer of calico and then a strip of black glazed paper over tho edges of the slide. I have found, howerer, that it is better to mount them in common rooden frames like slate frames, so that the cement may be examined from time to time, and if nocessary repaired. The sections are now ready for examination.

List of specimens exhibited by means of limelight lantern with -inch condensor, kindly lent by Dr. Alexander Bruce, of Edinburgh: Specimens of normal lung (1) uninjocted, and (2) injected with carmine gelatine; (3) sections of emphysematous lung uninjected; and (t) injected with Irussian blue to show the normal structure and arrangemeut of the blood vessels, alveoli, and air passages, and the altered conditions in emphysema.
5. Lung of child in which lower part of upper lobe had been invaded by tuberele. The gland at the root apparently corresponding to this area is much enlarged, and evidently cascous; radiating from this to the surface are masses of tubercle, some small and not caseous, others larger, apparently formed of several smaller nodules fused and now become easeous. Itere septa are slightly thickened, and the tubercle nodules are apparently commencing in the small lymplatic nodes.
6. Tubercular catarrhal pneumonia in the lung of a child. The lobular distribution is very distinctly marked, small areas of healthy tissue appearing lere and there. Away from the large consoldated patches are small tubercle nodules, evidently growing in the inter-alveolar or small interlolular septa. Ilere also the glands are enlarged, caseous, and tubercular.

7 and 8. Other sections in which the patches of catarrlal pneumonie consolidation are not quite so typical, and iu which there is more marked interstitial tubercle.
9. Miliary tuberculosis in child. Section injected with Prussian blue and stained with picro-carmine. In this the tuberculosis appears to have spread by the lymphatice, hut catarrhal changes have quickly supervened. An examination points, however, to the fact that the tubercle is primarily strictly confined to the interlobular septa. The glands at the root are enlarged and caseous. The non-vascular condition of the tubercle nodules is well seen in this specimen.
10. Section of acute miliary tuberculosis. Inere the nodules are very small, and are guite distinct in appearance from anything we have get seen. They are found eommencing in the interlobular septa, and have ericlently arisen in connection with infection by the lymph channels or blood vessels. Around some of these points eaturrhal changes may be observed, but they are comparatively lithle marked. The pateles are very different from those that are due to infection by the air passages.
11. Lung with well marked catarrhal pneumonia in lower lobe. In the upper lobe is a large gangrenous cavity, opening directly into the large bronchus. In the walls of this cavity we have a slimht derelopment of gramulation tissue in which is a considerable quantity of altered blood pigment.
12. Section of luns from a case of ehronic fibroid phthisis with emphysema. At the aper are small cavities filled with partly cascous, partly calcareous, material. The walls are composed of
dceply pigmented flbrous tissue, which, hy its contraction, has caused a puckering of the thickened pleura at the surface. The pleura is thickened over the whole lung, and the two lobes are firmly bound together. A few firm fibroid nodules are to be seen scattered throughout both lobes.

I3. Typical ease of phthisis. Chronic fibroid phthisis at the apex; thickened pleura and septa. Small cavities with fibroid, deeply pigmented walls, little normal tissue left; base consolidated, catarrhal and caseating pneumonia well marked; a few masses of racemose tuberele thronghout the lobe. There is cwidently considerable congestion in the lower portion of the lung

14, 15, and 16. Siailar specimens from other cases.
17. Stonemasons' plithisis. Lung much consolidatel; pleura enormously thickened; lobes adherent; several caritics with thickened fibrous and pigmented walls ; nodules of ehronic filboid thickening, firm at the margin, frequently deeply pigmented, and in some cases casenting in the centre; septa thickened. The glands at the root are enlarged, dense, and fibrous ; medullary portion deeply pigmented; cortex free from pigment.
18. Section of coal miner's lung with thickened pleura. Small, deeply pigmented, fibrous nodules, paler in the centre, darker at the periphery ; no carities. The distribution of the pigment in the deep layer of the pleura, the intcrlobular septa, and the $1 y$ mphatics around the ressels and bronehi is here well seen.
Other specimens of pulmonary infarction, tubercle of the liver (acute miliary in the tissue of the portal spaces, and casenting tubercle affecting the bile duets), waxy sago spleen, slowing localisation of the disease in the Malpighian bodies, old infarction of the spleen, in which a fibrous and contraeting capsule around the caseating or softening central mass is well seen; waxy kidney (large and small forms), granular contracted kidney, waxy liver, cancer of the lung, etc., were exhibited.

## A METHOD OF EXAMINING AND REMOVING THE SPINAL CORD FROM THE FRON'T.

## By THOMAS HARRIS, M.D.Lond., M.R.C.P.,

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THE method of examining and remoring the spinal cord which is adopted in the majority of the pathologieal departments of the hospitals of the United Kingdom is by means of a median iucision along the posterior aspect of the body; the lamine of the vertebre from the cervical to the lumbar region being subsequently removed with the aid of a saw, or of a saw assisted afterwards by a strong pair of bone forceps. In the majority also of the German universities a similar method is employed. However, as far back as I863. Professor Brunetti, of Padua, published an account of a method which he had introduced for removing the cord from the anterior aspect of the body by means of specially constructed elrisels, with the aid of whiel he removed the bodics of the rertelre, and so exposed the interior of the vertebral caual. This method has been employed in the Pathological Institute at Vienna for the past fiftecn or twenty years, and having heard very farourable accounts as to the advantages of the method,
took an opportunity last autumn of visiting Vienna, chiefly with the object of becoming practically acquainted with the details of the process. Since that time, I have adopted it in the post-mortem department of the Manclicster Infirmary, and finding it most crpeditions and in many ways convenient, a short account of the method may not be unacceptable to those who hare many postmorten examinations to make, and who have not yet tried it. brief notiee, by Dr. Cayley, of the
Quain's Dectionary of Medicine.
The organs in the neek, tborax, and abdomen are first examined, by means of the usual median, incision from the chin to the ssmphisis pubis, nuld are all removed from the body, so that the anterior and lnteral aspects of the bodies of the vertebre are explosed alnng the whole length of the spine. After the exposed parts of the wretebre have been mined, a wedge-shaperl wooten block ${ }^{3}$ is placed under the linds

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t conrenient block for this purpos? is one 12 inches ? ong, 6 inches high, and 6 inches broad at the unse.
in the lumbar region, so as to make that portion of the spine areh well forwards. By means of a strong knife the intervertebral antilage between the fourth and fifth lumbar vertebrio and that between the fifth lumbar vertebra and the sacrum, are divided. lior the subsequent procedure we require a moderately heavy wooden mallet, a strong pair of foreeps (Fig. 3), and two chisels. The chisels are of peculiar shape, as will lee understood from studying the accompanying illustrations (Figs. 1 and 2), it will, howerer, he unneeessary to enter into a detailed description of them. Each chisel is 14 inches long, and has a cutting edge 13 inch broad; adjoining the cutting edge is a small blunt projection $\frac{1}{2}$ inch long, which being introduced into the vertebral canal, acts as a guide. One chisel is used for dividing the pedieles of the rertebre on one side of the body, the ather for the pedicles on the opposite side. The only difference in the elisels is that

ig. 1 - Chisel for dividing the pedtcles on the left side of the splue. (Surface and side view.)

Fig. 2.-Chisel for dividing the pedicles on the right side of the spine. (Surface and side riew.)
lich is necessary for their cmployment on one or other side of 3 spine.
After the intervertebral cartilage abore and that below the fifth nbar vertebra hare been divided, the intervening vertebral iody removed by chiselling through, with the aid of the elhisels and Het, the pedieles of that vertebra, one chisel (Fig. 2) being used the right pedicle, the other (Fig. 1) for the left pedicle. After pedicles have been divided, the body of the fifth lumbar tebra is very easily removed by seiziug it with the forceps g. 3), and usiug a knife to free it from any surrounding soft uctures.
Che dura mater covering the corda equina is thus exposed for a Hrt distauce, and the whole of the vertebral eanal may now be ned by ehiselling through the pedieles of the vertebre, or, ere that is not readily accomplished, as in the dorsal region,
through the pasterior part of the bodies of the vertebres. It is, however, impossible to divide thear joarts from the lumbar to the upper cervical region, firstly all alony one side and then all along the other: it is necessary to divide the pedicles of only four or five vertebre on the right side with one chisel, and then the pedicles of the left side of the same vertebrex with the other chisel, after which the intervertebral eartilage alove the body of the rertebre (the pedicles of which were last cut through) is divided, and the bodies of the separated rertebre being seized with the forceps are removed. The Tedge-shaped block of wood is now moved a few incbes higher, untilit is placed bencath the vertebre of the lower part of the dorsal region, so as to make those project well forwards. The pedicles of four or five more vertelire are then dirided by means of the chisels and mallet, and after the intervertebral cartilage above them has been divided, the bodies of those rertebre are removed. Then the block is again moved upwards a few inches, and four or five more vertebral bodies removed in a similar manver, and so on until the base of the skull is reached. By this means the dura mater is exposed from the oceipital foramien to the lowermost part of the lumbar region, and if the operation has beeu done carefully, both it and the enclosed cord are uninjured. In using the ehisels it will be found necessary to keep the cutting edge nearly horizontal when working with them in the lumbar and dorsal regions, but in the cervical part it should be held obliquely or nearly vertically. Although not absolutely necessary, an assistant will bs found very useful in seizing the rertebre with the forceps and pulling them forwards away from the vertebral canal, when the operator is using either of the chisels.


Fig. 3.-Forcep; for remoring the bodies of the rertubee after the pedi. Ie; hive been divided.

After the vertebral eanal has been exposed, the external aspect of the dura mater and its surrounding structures are examined, That membrane and the nerves of the corda equina are next divided at the lowermost part exposed, and, together with the spinal cord, removed by dissecting from below upwards from the vertebral canal. The dura mater is then laid open by means of scissors, and the spinal cord examined in the usual way.

There are several advantages in this methol of removing the spinal cord. We aroid all necessity for an incision along the back; the only incision into the skin of the trunk is the usual median one along the anterior aspeet of the body. The corpse is consequently not so much disfigured, and we avoid the lal our of extra stitching. The method is more expeditious, and involves less labour when the operator has had a little experience of its details. This, however, is not the ease at first. The majority of beginners will prolably find it hard mork, and I must confess that my first two or three attempts caused me some little disappointment, as I found the chiselling really hard labour. When, however, one has done the operation a few times. it is easily and quickly accomplished. That it is much more rapidly earried out than the method of opening the canal from the dorsal aspeet is sufticiently testified to by the fact that it is the only method employed iu the lathological Institute of Vienna, where they hare so many post-mortem examinations to make that an expeditious method is indispensable. In Tiema it is earried out be the grastmortem room porters, who accentplish the task in a wonderfully short time. By this method also we ohtain a much better riewof the spinal cord and spinal nerves, and can more readily Incalise any lesion in the cord, so as to state exactly the relation of the lesion to any particular part of the vertebral column.

As will he surmised, the removal of the bodies of the vertebree renders the corpse rery limp, muclı mere so than when the spinal cord has been removed from the dersal aspect. This, however, is but a very slight drawback to the method, since it requires but the exertion of a small amount of ingenuity to render the body
rigil by means of a broom-handle or piecc of iron tuhing. Even that, however, is unnecessary, as with care the body can bo placed at noce withont difliculty into the comfu.
The method is one which 1 believe will be much more frequently employed in the United Kinglom when it becomes more fully known than is the case at present.
The chisels and forceps are now made by Messas. Weiss and Sons, Oxford Street, London, to whom 1 am indebted for the accompanying illustrations.

# A CASE OF HYSTERO-EPILEPSY OF TWENTY YEARS' DURATION, TREATED BY REMOVAL OF THE UTERINE APPENDAGES. ${ }^{1}$ 

By FRLICIS IMLACII, M.D.

OF the treatment of various neurotic pathological conditions by remoral of the uterine appendages I have little knowledge and less belief. $\mathrm{By}^{\prime}$ a curions concidence, two entirely different motives appear to have suggested this much discussed surgical procedure almost simultaneously to men of different bent of mind. One motive may be termed transcendental, hypothetical, doubtful; it is determined by the belief that certain untoward neurotic manifestations depend upon morbid ovarian activity, and may be cured, and can only be cured, by removal of the ovaries. The other motive is commonplace, obvious, sure; namely, that disturbing, disabling and often more dangerous and even fatal conditions, due to acute or ehronic inflammatory diseases of the uterine appendages can only be relieved, and ought to be relieved, by removal of the disensed parts.
It is by the latter motive I lave been influenced, and the sreater my experience becomes, the more convinced I grow of its soundness.
While in Tenby, howerer, at the new year, Mr. Beamish Hamilton asked me to see a hystero-epileptic patient, who might, he thought, be benefited by surgical treatment, and whose record may be useful at the present time. She was aged 40 , and had been bedridden for the past nine jears. At 20 or 21 years of age she hecame subject, she said, to epileptic fits, which had continued to the time I saw her. Indeed she appeared to have become bedridden almost as muel from the increasing severity and frequency of the fits as from pain; her fits generally recurred three or four times in the day, and it was rare to pass a week with so few as four or five fits. She was always unconseions for ton or twenty minutes during afit, but did not sleep heavily after it. Having been in five different hospitals, special and general, for periods varying from six weeks to four months, without relief, she had given up expectation of eure, and Mr. Hamilton informed me that bromides and other nervines appeared entirely useless.

It was plain, upon examination, that the F'allopian tubes were greatly distended, and 1 therefore alvised their removal. Menstruation was very profuse, and there was great pain; my opinion was formed regardless of the neurotic condition which now, however, induces me to record the case in detail. At 28 years of age she married, and had a ebild, which died two years later. I have no record of the condition of the uterine appendages previous to this.
As I was unable to remain at Tenby, she was brought to Liverpnol, entered my private hospital on January 10th, and four days later I removed her uterino appendages. it was a case of double hydmsalpinx, with extremely cirrhotic and shrunken ovaries. The right tube contained half a pint of serous, shreldy fluid, and the left about half au ounce. The left ovary was no larger than a dried split pea, and the right ovary ahout double that size (specimens shown). While being ansesthetised she had a prolonged and rather alarming fit: she became suddenly uuconacions, her lips turned blue, respiration was arrested, and her back beeame strongly arehed. An hour after the operation, which lasted ouly a fow minutes, she had a similar attack, and, to our disappointment, a week later she had anotlier, bat no more.

On February loth, leing able to walk alone, sho returned to Tenby, and tho following letter was received on March 18 th from her medical attendant, Mr. ILamiltun:

Tenly, March 17th, Is83. Dear Dr. Imlach,-In reply to your letter of queries about Mrs. li., she has been practically bed-
ridden for the past trelve years, since her 29 th year, and has passed through the hands and treatment of many medical men, without getting the smallest benefit. Eight years ago she was kept upon her back for three months in the - Infirmary, and treated with pessaries, etc.; twelve months ago she was treated in the - llospital with stem pessaries, ete., but without relief. For the past twenty-one years she has suffered from epileptoid seizures, accompanied with marked arching of the syine at the commencement of the attack, insensible for periods varying from ten to twenty-fire minutes, for which she eame under my treatment abeut eight months back; bnt nothing I coutd do seemed to mitigate them, and they were increasing in frequency and duration, when she had the good fortume to fall into your hands. Since her return home there have been only two fits of any sererity, and they seem now to be amenable to bromides. Seven weeks from the day of operation she had a spurious menstrual flow, which lasted for five days. This made her nervous, and I think was the cause of the fits mentioned. She is eating well, her back-pain is gone, and I am only waiting for the fine weather to send her out of doors.- In great haste, yours very faithfully, Beamish llamlon."

As a primary result of the operation this is very encouraging. Had this treatment been carried out years ago, the patient would probably have been a useful housewife, free from pain, and a fit companion to her husband, in place of a hopeless and expensire invalid.

## PRACTICAL ANTHROPOMETRY. <br> BY CHARLES ROBERTS, F.R.C.S.

I hope that the suggestion thrown out by Dr. Stone in his Harveian Oration that "medical physies" shall form part of the science to be taught in the proposed laboratory for "scientific purposes" to be attached to the new Examination Hall of the Royal Colleges, will be acted on, and that practical anthropometry will form part of that important branch of the medical man's education. Anthropometry, or " man-measurement," strictly speaking, is a branch of human anatomy, and deals with the body as a iving organism, while the anatomy taught in our medical parts ; and it is obly wious the structural arrangement of its several their first sheir first lesson should be to aequire a knowledge of the phyelementary constituents. It is necessary, moreover, that, in order to practise his profession with satisfaction to himself, his patients, and, in publie medicine, to the public, that the medical man sbould be aequainted with the normal condition of the body, and the variations in its conformation which result from race, sex, age, and sanitary surroundings. Besides being a branch of only for dethining diseased conditions, but the of dingnosis, not ternal agents on the growth and development of the wh of exor some of its organs. Indeed, in its widest sense diagno anthropometry, for all our attempts at differentiation of are measurcments of either time or space and all our instreases whether for pathological or plysiological investigatio thropometric instruments when applied to the investigation of the anatomy and functions of the human body. "The indispensable part of the experimental observation of physical facts is Physiques. "Ml physiel itiects are extended, and cons in his measurable, though they may not always be mensurable by the methorls and instruments we possess; and all physieal phenomena take place in periods of time susceptible of measurement, although some of the mensurcmenis are imprceptible by our senses. The
right method as regards all these phenomena," he rocs
"in "is that taught by Galileo, to measure all that is measurable, and to endearour to render measurable all that is not directly so." But while claiming for anthropometry this rolation to medical physics, and thereby seeuring its recognition as an es sential element of that much neglected braneb of medieal study
it is desirable in these days of the division of labour to confine it is cesirable in these days of the division of labour to charac ters or qualities of the boly, and to leare the subjects whict have hitherto been included in the provinces of physiology anc pathology, such as the functions of the senses and other obscur physico-nsyehological phenomena, which, though measurable b: suitable instruments, can only be properly studied by person
${ }^{1}$ Communicated to the North Wales Branch, March 2uth, 1885.


COATED. Excess of horny epithelium on papillie with epithelial and uther matters in intervals.

?n dians
ENCRUSTED.-Heterogeneous crust on and between papiltw.


PLASTERED.-Elungated papille surmoumed by epithelial and accidental natters.

$i^{2} 1 . d 8^{2}$
BECOMING DENUDED.- Malpighian
hayer, and in places conium exposed.

Tho are acquainted with the minute anatomy of the body and of be various imperfectly,! as yet, understood functions of the ervous system.
I mention this here because I fear that practical anthropometry, s generally understood on the Continent and Ameriea, as well as 1 this country, is likely to suffer from a series of ingenious invenons manufactured and sold by the Cambriuge Scientific listruent Company, and advertised in tlie columns of the Jour.vai as athropometric apparatus. Now the instruments required for reording the purely physical qualities of the body, that is to say, 1e stature, the length, breadtl, circumference, and thickness of fferent parts of the trunk ant limbs; the weight, strength, and eathing capacity; and of the complexion, as distinguished by te colonr of the hair, eyes, and skin, are few in number and in:pensive, and consist of a pair of ordinary callipers, two or three ight modifications of the shoemaker's rule, a measuring rod and pe, a weighing machine, one or two drnamometers, and a spirocter. Not only does the catalogue of the Cambridge Company intain instruments of this description, but many others for testg the keenness of evesight and appreciation of colour (not the mo as have been perfected by oplithalmic practitioners); keeniss of hearing, and ajpreciation of musical pitch; and the imerous qualitics of the seuses and the mind which are largely, not entirely, the result of education and individual experience, ch as "judgment of the eye [mind?] as regards squareness and gular division; judgment of the eye [mind?] in estimating the vision of a line; reaction time to sound and sight; appreciation slight differences of weight." These are donbtless interesting hjects of inquiry, but they are not antliropometric inquiries in e sense in which the word is generally understood, and to which hink it is desirable to restrict it.
I am inclined to think, moreover, that Mr. F. Galton, who has signed these instruments, does not see what complicated proms he is asking us to investigate under such an apparently aple question, as, for instance, "the judgment of the eye as fards squareness." An instrument for this purpose might serve a rough way to distinguish between an artist and a barrister, artisan and an agricultural labonrer: but between two persons equal training and experience the test would be one of the ferent amount of astigmatism in the two persons under exination. Similar objections occur to me with regard to some the other instruments in the catalogue; but my object is not eriticise them, but rather to point out to the members of my n profession the proper sphere and the practical utility of thropometry as generally understood and as was understood by Etelet, who invented the word to cover the series of inquiries ich he carried ont on the hmman body, and which are recorded his work entitled Anthropométrie ou Mesure rles Différentes cultés de TTIomme (1870).
When 1 published my. Manual of Anthropometry, in 1879, I s soundly rated by the Lancet for making such free use of ételet's observations, but it would be just as reasonable to rate ain and Gray for appropriating the labours of previous ditomists. Jthough anthropometry has existed in a slipshod nner for many centurios among artists and seulptors, it was Ételet who first recluced it to a scientific form and applied it to sontific uses; and it is desirable, if any progress is to be made in ts as in othersciences-and especially in those which. ]ike anthrolnetry, so larcely depend on collective investigatiou-that (ages in its methorls of procedure should not be mude witlout y grave reasous.
infortunately for the stability of the science of anthropometry. (stelet was a mathematician and an artist, and not an anatomist. t he gives us in his book only the results of his antliropometric cervations, and not the method by which he obtained them. Ife $c_{1}$ lt with the suhject as if he had exhausted it, as indeed, for eistic purposes, he very nearly has done so. It is when we come ry to apply his method to the distinctions of the races of man, to medical, sanitary, und other scientific uses, that it fails us, ply because he has not definel the conditions under which his errations (mostly made ly his medical friends) were made, and 1 :as for the purpose of defining these conditions that my essay : published, and this only after a translation of Quételet's work. f I the necessary notes, was refused by tho Sydenlum Society. I ation all this beause 1 wish to impress on everyone who takes uthe subject of antliropometry that it is better to get some res by methouls which have been found to work fairly well, than tore constantly tinkering the methods and obtaining no results a. dishearteming others of a less critical turn of miud. Ars longa,
rita brevis is a motto especially applicable to this subject. While We are inventing instruments and illustrating mathematical problems by our miserably small collection of anthropometric olbservations, the lirench are applying the science in its simplicity to the identification of criminals, the Germans to the differentiation of races, and the Americans to the results of gymnastic and athletic exerciecs, and to all of them anthropometry has become serious everyday duty and study-as serions, to compare large things with small ones, as the study of micro-organisms is with ourselves. Sufficient work has, lowever, been done in this country to form a basis for more and better work in future, and sufficient has been done, especially in differentiating sanitury conditions such as the influence of occupations, food, social status, etc., and of the racial elements of the population, to promise great results if the methods of anthropometry we already posiess Fere recognised, and their practice properly encouraged by the Colleges of Plysicians and Surgeons aud the medical schools.

Simple and easy as anthropometry is in practice, its ajplication to the solution of rucial, physiological, and sanitary questions is so wide and comprehensive, that it is hardly within the fower of individuals to carry it out. Quetelet first deseribed the method but be shrank from tle labour it inrolved, and instead of measuring men, women, and children by thousands he measured them by tens, and so missed steing some important facts in relation to sexual and racial differences which have since been discotered, Dr. Beddoe has speut a lifetime in collecting anthropometric data for differentiating the racial elements of our British population. Professor Bowditel has with much labour discovered by anthropometric observation the difference in the rate of growth of the two sexes.

3[r. F. Galton las illustrated in a similar $\pi a y$ some important facts relating to the hereditary transmission of physical characters, and I lave endeavoured to establish standards for comparison, and to define some of the results of the "conditions of life" on the derelopment of the body, while in another field IIutchinson's investigations have become classical.

But not only does all this work waut revising and extending, we want also a profession which can understand and appreciate its value, which we have not got at present, and which, I fear, we never shall have till the heads of the profession, as represented by the colleges and schools, recognises its importance as equal at least to those of comparative anatomy, chemistry, and botany, and, indeed, as superior to them in its educational value, the mathematical and statistical accuracy which anthropometry demands being of supreme importance as a check on the imasimation of the student, and a suitable training for other investigations necessary to the progress of medicine and surgery in our day.

## HOW TO REFORM THE DENTAL DEPARTMENTS OF OUR HOSPITALS.

Br F. NEWLAND PEDLEJ, F.R.C.S. AND L.D.S., Dental Surgeon and Leeturer on Dental Surgery to Guy"s Hospital.

THis is a problem 1 took in hand at Guy's Ilospital, and now that the experiment has resulted well and nearly two years have been allowed to lapse as a time-test, 1 bring the matter formard in the hope of inducing other hospitals and other dentists to adojet necessary changes.

I do not adrocate that each medical school should he a schonl for dental students; at present this is impossible. Let dental students seek special training at specinal hospitals, but those who hold the dental surgeoncies to hospitals should show their operatious and the scope of their subject as the other sperialists do. The status of dental surgery, though improved, is far from what we would see it, and from what we think it deserves. What can be more clamaging to our profession, which, ahove all, rightly claius to be a branch of surgery, than the lamentable fact that medicul men so frequently feel obliged to admit utter ignorance of the subject? Hence it becomes a frequent souree of complaint amongst dentists that the importance and ralue of their work is inadequately aprecintel, and the medical fraternity is bament for possessing little or no knowledge about teeth. The work done at the dental hospitals is admirable, but husy medical students cannot give the time to attend there. and they go into practice with the ilea that the extraction of teeth and thrir replacement artificially form the limit of our practice and science.
The fanlt lies with those dentists connected with hospitals who

Io not take pract cal means to dissipato this illnsion. The position of ophtambine surgery would not lue what it is if the eyesurgenns treatmi avery hospital cons ly excision of the eyel a'l. 'Ih'schonls would conlman su th teaching aml practice as in bar(1) 1rous pxhilition of but sche in "t.

If exch hospibn! lentist lavotem one sitting a weeli to rxtractions, and ome sitting to the ather operations of dental surgery, tho diniculty would be oweremme. Xonno is called upon to treat ull the disensed teeth of his dintrict, hut it loes not follow that mothing whatever shoulal lo elome or tunght. I fo not consider two sitlings a week ton large a cemand upon the time of those whoncculy the reponsihle josition of connecting link between dentistry and surcrery.

1 will now brietly run over the arrangements made at Guy's Ilosuital. Then are two lental surgeons' iressers; they liold onlee for two months. A fresh aresser is nppointed each month, who lreomes "spnior" during lis sfeond nontly of oftice. The alreasers attemd inily at 12.30 to see ont-patients. In very urgent cases they are at liberty to give "gas," hut of eourse the administrator must he a qualilied man. (ieneral practitioncrs are very frequently asked togive" gas "fordentists, anul it is to be regretted that they so often find themsclves laching in practical knowledge apon this sulyeect.

At first I had to do nearly all the extra work of the new department myself, owing to the alosence of my then seninr colleague, Mr. Moon, but of late 1 lave hat the assistance of a present student, Mr. Wynne Rouw, an ex-honsemurgeon at the Dental llospital of Lanilon. Ilp attends on Tuesdays at 1.30 , and 1 on Phursduys at the same lour for out-patients, and these are our afternoons for gas extractions and surgical cases. Nitrous oxide gas should he criven as a matter of rontine in our severer operations, and in the numerous cases where the luealth of patients conders thew plysieally incapable of enduring pain without severe suffering. An anesthetic so safe shonld always be at hand, am 1 is more suitable for many patients in the wards of the hospital than ther or chloioform when a tooth haz to be remored. On Friday afternoons nt 1.30 we $10^{\prime}$ lh work, doing anything except extractions. It is on this afternoon that we see patients ander tratment for fracturo of $j n w$ and chilalren wearing regnlating plates, and we freguently lave cases where plates are remuired to restore parts removed by operntion for surgical liseases. All such patients are supplied with mechanical appliances and plates, for which the hospital pays the senior dental surgion fe4 a year. I am informed that this sum represents an oquivalent fixed hy Mr. Salter. Tlse rest of our time on Friday is devoterl to "striping," including gold.

It is a mistakp to suppose that metical sturients are not interestal in even telious operations. I have had abondant proof of how kpon min interest they take in our work, and have been astonished at what good men apply for dental surgeon's dresserships. At one time I had an px-housc-surgena as scnior and a N゙.I.C.S. as junior dresser. Advanced students do not require much teaching, ami I am not eure to what oxtent their services unight not be available in filling simple cavities with "plastic" stopluings. That nspect of the suljeet I will pass over as "not proven." Suflice it to show what work can lie rlone by two flental surgeons, and how. The time may come when we inny be able to cope with all the clecayed tecth that require attention, and I will admit that the question is one of national importanee, which may some day affect the supremney of the Anglo-Saxon race, and I quite sympathise with those who would demand sitate aid for dental hospitals, and that in the army and navy, and wherever medical supreision is provided, salaried dental nppontmenta shouli be invariably added. lout at the present time these considerutions must be deferresl, and what dentists have first to so is to educate tho medieal profession, and throngh them the laity, in the mutat and hearing of their seience.

Those wlin are opposed to those suggested changes in our hospital practice plend that thoy conld not devoto the time to the increased work. In the first place, I only suggest two attendances on Week fur each tental surgeon, and one canmot say that is an fxcesaive claim on their time, or that it reaches the nverage period spent in the hospital by the dentist's calleagues. (iranted, metropolitan schonls are undermanned as regurds rlentists. Such important lospituls as Ionmlon, St. (icorge's, University, King's, and - 7aring Cross, lave only ono lental surgeon ench. If theso necal sid they cun ask that nssistant dontal surgeona be appointed. There are sounc inen avalable for future appointments ready to accote part of their time to a hospital, nud to rise thereby in a
way nama amongst members of $n$ stati. If possible, tho "assistant: should holi inclependent appointmonts, as at Guy's. The Mrame Directory slows that there are an hondon bt "hospitals und b7 "dispensarics." Some of the Intter are very "arcre, nut one shows an annual attendance of 24,000 jatients. We know it is the exception for al lonton hospital or large dispensiry to be without an appointed dentist. This gives an idea of what coul? le donas allotted time attended twice a week, and reserved part of ins is a noteworthy faet that some dentists hold two nupointments, and 1 masy be permited to add that I resigned my post on two hospitals in order to de vote ndequate attention to ont.
The matter of nceessary funds should he considered, olthongh, to avoid probable delay and ohstacles in what had something of the nature of an experiment, I made the additional expenses at Guy's a personal nffair. Accepting $f 40$ n jear as the equivalent of the "artificinl work" done, I shonld estimnte the cost of "gas" for the past year at $£ 50$, and the instruments, stoppings, ctc., about 530 . Thus I julge the expenses of the de parmment are at present about $£ 120$ per annum. With the result tion of existing conditions as affects myself but any alteraopinion that, when new dental apyaintments are made by hospitals requiring eflicient dental departments, the cost of the instruments, materials, etc., sloould be defrayed by the institutions benefited. If the dental surgeons were to express willing provide the expenses, the onns of bad dental departments wouth
be entirely thrown npon the authorities. But there is now great competition amongst the hospitals, each rying with the other as to which shall have the most complete administration and the best teaching, and as they undoubtediy wish to improve their dental departments, 1 have yet to learn that they will demur to furnishing the means. At St. Lartholomew's all the working expenses are supplied it the cost of the liospital, and an annual sum of £250 is divided amongst the four dental surgeons ap
 £25 n yenr to encl of the four. On the one weekly occasion wheni each semior attends he is assisted by his eorresponding junior, nad between them they see twenty or thirly patients, and ther the what they ean to prescrve some of the teeth at this sitting lyy stopping. llaving so many patitle can be done in the way of
quire gas, it is olvious that litle stopping. I reeently made a formal risit to St. Dartholomerr's on the day when my friends Mr. I'aterson and his junior, Mr. Ackery were sitting. They did not profess that their stoppings done under such conditions were up to the standard of their work private practice, and no golld fillings were attempted. assistant also nttends three times a week for extraction
There is, of course, an adrantage in numerical strents.
There is, of conrse, an adrantage in numerical strength, though percentage of their cases. And there is this drawhack: such a corps could not expeet to be placed on the staff of the hospita and. in fact, no dentist nt st. 1artholomew's has a seat on the staff committec. The mmbur seems to me more than sufticira sturlents, yet insufticient for adental hospital and school for deata students. Such a staff of lentists could well afforl to kecp their extraction cases sepurate from their other operations and couli
then do their best work. They are, however, utterl anable give dental students the practice and teaching offred by thy lental hospitals, as $n$ cursory visit to one of those institution will show. lipt, Loudon, St. Lhartholomew's, and sonve athe lonjitnls have the right tosign-un dental stwlents for the donts practice requiral by the Colloge of Surgeons. This privilega, ment of sued, injoses andere responsibility on the dental dep. ment of sueli $n$ dnspital. Lomdon llospital, in its Calendar,
"The nttention of dental students is jurticularly directed to th fact that the Conncil of the College of Surgeons reconnises th dental depurtment of the London IIospital as a school at whice may be obtained the dental practice necessary to qualify a studen for the examination for the dental dijploma."

In the foregoing sketrh $]$ linve tried to show how a creditabl rental department can be carried on by two dental surgeons, an at rery modume eost. lloubtless other hospitals will take the amongst tic special branches of surgery.

## SURGICAL MEMORANDA.

## COCAINE IN TRACILEOTOMY.

Since the introduction of cocaine, neither 1 nor my calleagues at the Central London Throat and Ear llospital have employed chlnroform when performing tracheotoms, but have in substitution injected five minims of a ten per cent. solution of cocaine on each side of the immediate region at which the trachea is to be opened. Ten to twelve minutes have been allowed to elapse before commencing an operation, and in the majority of instances pain has not been felt even from the first incision through the skin. Local anxsthesia has been maintained sufficiently long to allow of a careful and leisurely performance of the operation, without, however, encouraging that undue tediousness against which Mr. Christopher IIeath has recently spoken so opportunely, as a besetting fault of modern surgeons who operate under chloroform.
My cxperience with cocaine in tracheotomy would be represented by nbout forty cases; we have had twenty in the hospital and in my private practice during the last year. I have witnessed its good effect especially in the last fortnight, during which time I have had occasion to perform the operation four times, all the cases being on account of cancer, and occurring in patients aged $75.58,77$, and 51 respectively.
Beyond the adrantages of cocaine as a local anresthetic, this remedy so applied has the effect of depriving the part of blood, and thereby diminishing hæmorrhage during the operation, wherens with chloroform and ether the contrary effect is often produced. It also quicts the breathing and steadies the larynx in cases in which respiration is seriously hurried. In only one case have 1 seen any toric action, and that was at once remedied, when the traches was opened and a full fow of air admitted into the lungs.
Weymouth Strect, Portland Place.

## TREATMENT OF CARBUNCLE

THR treatment of carbuncle by erasion, as now advocated, is no deubt speedy and effective, but seems severe for ordinary cases. 1 have been for some years in the habit of treating carbuncle by injecting three or four times a day a solution of a drachm and a half of carbolic acid in cight ounces of water, by means of a small glass syringe. This can be done as soon as an opening, however small, appears. If there is more than one opening, the fluid injected will pass out through all the other apertures. After syringing I apply a small fold of rag soaked in the carbolic lotion, and orer this a warm linseed poultice.
I advise a good diet, stimulants in strict moderation, and sometimes a course of the sulphide of calcium. Under this treatment the slough at once ceases to extend, and is soon wasted away in shreds by the injections, and the swelling and hardness rapidly disappear.
Ihave hitherto had no case that has not yielded rapidly to this simple and rational mode of treatment, which I have no doubt has often, with whatever modifications, been adopted by many others.
Liverpool.
Menay Lowndes, M.K.Q.C.P.I.,
Consulting Surgeon Northern Iospital.

## THERAPEUTIC MEMORANDA.

## ACETIC ACID AND ERGOT.

Sincr Dr. Grigg called attention to the value of vinegar as an ecbolic, I have frequently used it I for that purpose. And I have also found that four drops of the strong acetic acid (representing nearly half a drachm of vinegar) combined with strychnine has been successful in bringing about contractions of the uterus after arget had failed. In one noteworthy case where in a very weak and anxmic woman the pains, after continuing feebly for a day or two, secmed to be leaving her, and ergot had been exhibited (the waters having broken), I found acetic acid and strychnine produce
sharp and effectual pains.
The same thought, thercfore, occurred to me as to Dr. Francis, of the possibly good results of combining it with ergot, and, in addition, observing that acetic acid could extract the active principle from colehicum and ipecacuanha, I asked Messrs. Corbyn to make a preparation of ergot, using acetic acid as a menstruum, with a standard surplus of frec acid. In a short time I received
from them two samples, one of crigot extracted by acetic acid, of Which a fluid drachm represented sixty grains of ergot with ten minims of free acid; the other an alcoholicextract of ergot, which also represented sisty grains of ergot and ten minins of free acid in each drachm.
Both preparations had the colour of the: ordinary extracts. Jut the acetic acid frothed when shakell, which, of course, the alcoholic extract did not do. The acetic acid prucesa should be more economical than the spirit method.

In a case where there was retained discharge after labour I gave some of this extract, and when the medicine was exhausted wrote a prescription for a similar dose of B.P. extract, to which I also added some bromide of potash, which is stated to aid the involution of the womb. The case was still unrelieved on my next visit, the uterus being obviously distended, so, after syringing out the cavity, I told them to have the medicine made up again, when the patient said, "Oh, sir, the medicine you gare me at first brought array something every time, but this medicine bas done no good." This seems like a comparative test in faveze of the acetic extract.

In a case of flooding, due to a large fibroid, I found that twenty minims injected deeply into the buttock gave rise to no local irritation, and there was no bleeding the night following, but there needs further experience before attributing this result to the drug. Ergotine discs did not always control it.

Bournemouth.
G. S. Mahoned, M.R.C.S.

## C.ARBOLIC ACLD IN PERTLSSIS.

THE results of the following four cases of whooping-cough treated by glycerine of carbolic acid of the $B . P$. may be of interest. 1 give them in the order in which I find them in my casebook, without comment.

1. G. W., male, aged 7 years, suffering from whooping-cough, with roughened breathing over right apex, but otherwise healthr, bad a week before I saw him; given 2-minim doses of glycerine of carbolic acid in simple syrup every, tbird hour: distinct improvement on third day; cured in two weeks from beginning of treatment. Carbolic acid given only every fourth or fifth hour on second week; no other treatment; no complications.
2. F. W., female, aged 2 years, similarly affected, bad six days before treatment was adopted; given I minim of glycerine of carbolic acid in tr. gent. co. No improvement till fourth day. when patient retained nourishment on the stomach, which she had not been able to do for some days previously owing to the severity of paroxysms. The cough gradually disappeared, and the little sufferer was all right in seventeen days.
3. C. W., female, aged 4 years, got $I \frac{1}{2}$ minim of glycerine of carbolic acid every third hour; progressed farourably till twelfth day, when she had a rigor. On examination of chest next day. there were well-marked evidences of croupous pneumonia over right lung. Continued glycerine of carbolic acid every second hour. Worse next day. Vin. ipecac. and spt. am. arom. added. Complained of pain in stomach and soreness of throat on following day; carbolic acid stopped. On seventeenth day seemed better, but left lung affected similarly to right. Died on sixth week from onset of double pneumonia.
4. J. B., female, aged 14 montbs, also suffering from capillary bronchitis: fifteen days bad before seen; $\frac{1}{2}$ minim of glycerine of carbolic acid administered every third hour, in combination with tr. senegæ. All right in three weeks: no other treatment adopted.
G. E. J. Greene, L.K.Q.C.I'. and S.I.,

Medical Othcer, Furns District.

## SALIX NIGRA.

Dn. J. Iletcirison, Glasgow, in the Journal of February 13 ths. draws attention to the adulteration of salix nigra by elin bark. but a more probable and less easily recognised form of aulnlteration is that by salix phylicifolia $\mathrm{l}_{\text {. }}$. (the tea-leaved willow). To discriminate between the two in the dried state is simply impmesible ; only a very experienced botanist can say which is S. nigra, and that only by examining the fruit or drying the leaves, thosi of nigra always turning dark. For this reason. I doubt if ever there has been a pound of gemuine $S$. nigra bark in the market. the common S. phylicifolia being usually so namad.

The trees under consideration differ so slightly from mon aunther that most botanists consider "nigra" hut a form of the other. There: is, on that account, probably but little difference in their medicinal virtu's if they poisess any special virtues at all. In the
fresh atate "nigra" possesses more tannin, and the leares and shoots possess some form of albuminous matter, only present in the very young leaves.
I trust some of your readers will be able to throw more light on the doubt here raised.
A.sstruthen Datidson, M.D.

Sanquhar, N.B.
Carbolic acid in masal catarrif.
Last summer I prescribed, for a gentleman, the mouth lotion as follows: IS Acidi carbolic. $\bar{J}$ iv ; spt. chloroform. $\tilde{z}^{\mathrm{j} i j}$; tr. myyrrl. 5 ij : eau de Cologne ad. $\mathrm{Z}^{3} \mathrm{rj}$. , This of course to be used with
Trater. water.
Suffering severely from nasal catarrh, he consulted an cminent throat specialist, who ardered some pdwder to be sniffed through the nostrils. This treatment he continued for the prescribed time rithout benefit; so he tried my mouth lotion, and putting a few drops of that inte about an ounce of rater, sniffed it up instead of the powder; this immediately and completely relieved erery symptom of the troublesome complaint. The watery discharge and the constant sneezing ceased. so also did the distressing pain in the frontal sinnses and nasal passages.
1 suppose that in this case the disease is due to the development of germs, which are completely destroyed by the carbolic acid. It would be interesting to find out whether some severe cases of hay fever would be cured by similar treatment; but, instead of using the somewhat clumsy contrirance of a tube, J would suggest a spray apparatus.
Wimpole Street. Nathantel Stevenson, M.R.C.s., L.D.S.

## phenacetine.

Wrus you permit me to call the attention of the profession to a new antipyretic and antincuralgic agent, called "phenacetine," though, correctly speaking, it bears the chemical name of paraacetphenetidin, the formula of which is $\mathrm{C}_{6} \mathrm{H}_{4}\left\{\begin{array}{l}0 . \mathrm{C}_{2} \mathrm{H}_{6} . \\ \mathrm{NH}\left(\mathrm{CO}_{6}-\mathrm{CH}_{3}\right)\end{array}\right.$

It can be given with perfect safety in doses of from eight to twelve grains every four hours. Plenacetine is a febrifuge which compares favourably with any of the modern antipyretics in the certainty of its effects and freedom from evil consequences. In fevers its administration is followed by relief of the symptoms; and in sciatica, in which I have employed it very frequently, its utility eamnot be overrated.
Phenacetine is a mhite, crystalline powder, soluble with difliculty in water, but easily so in hot alcohol. Glasgor.

Robert Bell, M.D.

## Pathologicat memoranda.

## congenital umbilical hervia.

Mrs. S., aged 32, primipara, was delivered at term, after normal labour, of a male child, which presented the following condition of parts:-On a level with and a little to the right of the umhilicus was an opening about tro inches in diameter, through which protruded the crecum, ascending and greater part of trans-
rerse colon, much distended with flatus and meconium, and which hiad evidently severely suffered from uterine pressure, as it was bruised and extravasation had taken place from a few small ruptures. The whole of this hernia lay loose on the child's body, reaching down to the upper part of the thigh. It could not be replaced, nor more bowel withdrawn. The child lived for twentyfour hours. No history of "maternal impression" was forthcoming.

> Darlington.
L. F.astwood, L.R.C.1'. and S.Eu.

## A cask of cerebral abscess.

Mr. Honsley coneludes the narrative of a suecessful case of trephining for cerelbral alscess with a brief refcrence to foeter of the qus as indieating its connection with otitis media. In this rugard it may be interesting to record the fact that only a fer days ago 1 had occasion to make a post-mortem examination of a case of cerebral abseess, in which there was most narked foetor uf the pus therein contained, although a minute examination of inth petreus bones and the cranial wall generally failed to reveal any evidence pointing to the secondary erigin of the cerebral

1 A shor note on this drug will tee fownd in the Retrospect for 1897, Art 1 A shor note on this drug will be
1'lumbacology and Therryeuticn. p .1439 .
lesion. The abscess was situated in the white substance of the right hemisphere, lmmediately beneath the "motor area," and extending down to, but not through, the roof of the lateral ventricle.
I may mention that the only other lesions found in the bods at all explanatory of the condition werc caseation and suppuration of the left bronchial glands, and an acute miliary tuberculosia of the kidneys. By these eridences 1 was led, though with much hesitation, to conclude that the cerebral abscess had originated in some acute suppurative change in a solitary caseous mass in the right hemisphere.

ALFRED G. BAMRS, M.D.,
Assistant Physician to the General Infirmary at Leeds.

## REPORTS <br> or

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASTLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES

## ST. BARTHOLOMETTS HOSPITAL.

excision of the ener-jont for old disease: ends of the bONES FIXED TOGBTHEAR BY STERL fiNS.
[Under the eare of Mr. Morrant Baken.]
(For the notes of the case we are indebted to Mr. Ricuard J. Reece, late Senior House Surgeon.)
THE following case is a good sample of the benefit derived from fixing the bones after the operation ef excision of the knee-joint. The method adopted was that to which Mr. Morrant Baker drew attention in a paper published in the Jotrisal of February 12th, 1887.
J. II., aged 32, housewife, was admitted into "Sitwell" ward on March 12 th, 1887, suffering from old disease of the right kneejoint. She states that eighteen years ago she knelt on a rusty pin, which penetrated the joint just below, and to the inner side of, the right patella. She pulled out the pin and continued her usual work, although in severe pain. At the end of a week the
leg and thigh became' leg and thigh became 'smollen and inflamed there was pain on
pressure and insomnia, and on applying to the lospital' she was pressure and insomnia, and on applying to the hispital she was
admitted to "Stanley" Kard. Shortly after admission jeint was opened on the inner side by an incision an incl and half long, and some incisions made in the neighbourheod to re lieve pain. About a month later the joint was again opened, under chleroform, on the outer side, and still later reopened from the anner aide. Patient remained in the hospital six months, and wher discharged had no pain, and the limb was nearly straight and she could walk on it.
Until three montha ago she had no troube
fom that time until the present it has been gradually getting from that time until the present accomplished mith great difficulty. The patient wasquite willing to undergo amputation if no other means of relief could afforded.
Framily History.-Father and mother died of plithisis. $7 \pi$ brothers healthy:
Present Condition.-The knee-joint is enlarged, misshapen ; th leg flexed to an angle of $65^{\circ}$ with the leng axis of the femur, ant rotated out wards. The tibia is displaced brekwards on the con dyles of the femur. There are three scars, one on the inner sid of the leg, 3 inelues long by 1 inch wide: another opposite centre and lower part of the joint, $2 \frac{21}{2}$ inches by $\frac{13}{}$ inch, and third on the outer side of the lower part of the thigh, 3 inchea $b$ I inch. There are also other small sears scattered about th neighbourhood of the joint. On examining the knee-joint, ver slight movement can be detected. The patella situated the outer side of the external condyle of the femur, an Arraly ankylosed-the place where it ouglit to be feels soft an grooved. Down the inner margin of the tibia for about an inc or two, a nodular condition of the bone is felt, and on exs mining the site of the large scar on the inner aide of the knee,
small nodule small nodule can be detected which is rery painful on pressur
The knec-joint measures 14 inches in its largest circuufference Operation. - Harch 23 rd . Fither was aldministered to the patien and Mr. Morrant Baker performed excision of the knee-joint. incision was made across the front of the joint commencing the inner side, and the skin retlected upwards over the patell

The position of the joint could not be distinguished; what was taken to be the imner tuberosity of the tibia was then sawn off and an attempt made to bring the limb into a straight position; this failing, a portion of the bone from the proximal side was removed with a saw, the section passing through the centre of the patella. A further piece of bone was sawn off the distal end, and removed with the lower part of the patella. The first piece of bone removed was then found to be the inner condyle of the femur. The remaining half of the patella was then separated from the outer condyle of the femur and removed. The limb was brought straight and put up on a backsplint with a footpiece. There was some bleeding stopped by ligature. The contiguons surfaces of the bones trere kept in apposition by two steel pins, inserted into the bones from below, passing throngh the skin, ane on the outer, and the other on the inner side. The skin, flaps were sutured by horsehair, and a piece of gutta-percha tissue inserted on each side for drainage. The waund was dressed with "Sanitas" oiled lint, corered by" a thick layer of absorbent

## March 24th. During the night some pain in knee and heel.

March 25 th. Pain reliered by altering position of foot.
March 30th. Urinc, drawn off by catheter, contained a trace of albumen.
April 3rd. Can move leg in splint mithout pain.
April 5th. Wound dressed. The wound has healed by first intention, except for an inch and a half at inner side, and for about half an inch at outer extremity, where tissue has been introduced. All the sutures except three at the inner extremity of the wound, and both pieces of tissue, remored. No swelling, pain, or tenderness around the wound. Wound dressed as before. General condition good; takes food well ; sleeps rell.
April Gth. Has had difficulty in retaining her urine during sleep, and pain before the act of micturition. Thick sediment of pus in urine.
April 13th. Patient has recorered power orer her bladder since the 10th.

April l5th. Wound dressed again to-day. No pain or tenderness in limb, which is in good position.
April 2lst. Wound dressed again; looks healthy. Patient can now raise the limb several inches off the bed unaided, and can Also rotate the limb without any pain.
April 27 th. Mr. Baker remored the back splint and the steel pins. Limb put up on a straight backsplint. Patient feels comfortable. Urine, acid, 1020 ; no albumen or sugar.
April 29th. Experiences no pain when the sole of the foot is struck with the palm of the hand.

May 3rd. Can raise the limb considerably on the backsplint
ithout any pain. without any pain.

March IOth. Patient gets about the mard on crutches, not venturing to bear weight on the limb.

Jurch 16th. Leather splint for thigh and leg.
June 1st. Patient went to the Hospital Conralescent IIome at

## Swanley.

On the evening of March 30th the temperature rose abore normal for the first time, reaching $99.6^{\circ}$, falling to subnormal next morning, and coutinuing subnormal until patient left the
hospital.
August. Patient las been scen lately, and can, walk well with
thick sole to her boot. Sho is to wear a leather splint round the a thick sole to her boot. She is to wear a leather spliat round the
thigh and leg for some time.

## BRISTOL ROYAL INFIRMARY.

a case of intubation of tue labynx in the aidet.

## (Under the care of Dr. Waldo.)

[Fon the report of the case we are indebted to Mr. P. Witson
IH. S., a marrithliams, M.B.Lond., llouse Physician.]
185\%, for syphilitic man, aged 42, was admitted on October 5th, had been ill, losing flesh and the larynx and hronchitis. She twelve months, and had the characteristic raucous voice of tertiary syphilis; the expectoration was mucous; the pulse was 96 , and the respirations 22 per minute; the temperature was was $101.6^{\circ} \mathrm{F}$, Fances and soft the throat showed scars of old ulcers on the fances and soft palate, and an old perforation of the relnm, all these parts being red and injected. The epiglottis had almost antirely ulcerated away. The ary-epiglottidean folds were red
the glottis being seen. Both vocal cords had ulcers on their free margins about a line from the posterior commissure.
The patient did well till October 7th, when she complainel of difficulty in breathing and a feeling of obstruction in the chest, not in the throat. Respiration was a little croupy. In the evening Mr. Watson Williams was called in great haste, and found the patient propped up in bed, livid, struggling for breath, covered With clammy perspiration, with a rapid, feeble pulse, and only half conscions. A few whiffs of chloroform were administered, but so little air entered the chest that no more time was wasted in giving an anæsthetic, and the largest-sized O'Dwyer's tube was placed in the Iarynx forthwith, the silk thread being left attached to the tube. The intense dyspncea was immediately relieved, and the patient recorered consciousness completely after a short interval of delirium. She ras put into a steam bed. The tube was coughed out four hours later, bnt she asked that it might be replaced; and, as respiration soon became embarrassed, it was reinserted with ease, but was again coughed out in the night. No operative interference was called for after this till October 11th, When dyspncea once more became marked, and, at the patient's request, she was intubated, but after the tube came out in the course of the day it was not required again. The patient left the infirmary on November 11th, having been perfectly free from respiratory embarrassment for three weeks.
Remanks by Mr. Watson Wrictams.-One cannot of course argue at lengtk on the merits of intubation in the aduit on the strength of a single case, but it is certainly of great moment to adopt such simple measures for the relief of dyspnces due to temporary obstruction of the glottis, instead of resorting to tracheotamy with its additional dangers and obrious disadvantages, being in itself a painful operation reqniring an anæsthetic, and often involving difficulties in leaving off the tube after the obstruction in the glottis has disappeared. So simple is the process of intnbation that this patient could bear it apparently without discomfort after the cocaine spray, and declared that she "did not mind it much." The largest-sized O'Dwrer's tube being intended for a child 12 years of age was, of course, too small for the patient, and was too readily cougbed out, for which reason the silk thread attached to the tube on insertion was not remored, as it is almays well to do when intubating children. Had it been of a suitable size for an adult larynx, it wonld hare remained in situ and been readily borne, if necessary, for sereral days consecutively. The patient in this case had some slight difficulty in swaliowing fluids, which always set up coughing, but, considering how little epiglottis she had left to cover the tube, she managed very much better than one. mould have expected. 1 would therefore strongly recommend intubation in cedema of the glottis as being more effectual and easier of accomplishment than scarification of the larynx, and just as effectual but less dangerous and objectionable than tracheotomy. At any rate, I renture to think that it should always, if possible, be giren a trial before proceeding to tracheotomy, which, I am well aware, has been rery successful in these
cases.

## REPORTS OF SOCIETIES.

## PATHOLOGICAL SOCIETY OF LONDON. TuEsday, Aprif 3rd, 1888.

Sir James Piget, Bart., F.R.C.S., F.R.S., President, in the Chair. Intestines in Diphtheria. - Specimens of intestines from three cases of diphtheria were exhibited by Mr. Colusa:. Diphtheritic lesions were present in the pharynx and larynx. The spleen was not enlarged in any of the cases, and the cesophagus and stomach Were heafthy. Peycr's patches and the solitary glands in all three cases Wre enlarged, and all the lymphoid structures were injected, and the mesenteric glands were enlarged. A similar acnte swelling of Peyer's patches had been observed by Dr. John llarley in scarlet fever.-Dr. Wilks thought that the cases illnstrated how much these was in common in the various specific fevers. In cholera the great enlargement of the solitary and a mminated glands was remarkable. Dr. Vandyke Carter had deacribed changes of the same nature in malarious fevers. The condition of the intestinal glands in diphtheria closely resembled that seen in typhoid ferer. If these glands Trere so commonly affected in other specific diseases. it would tend to negative the theory that in typlinid fever the virus first established itself in them, and from thence infected the whole organism.-Dr. Coupland, though be
had seen the enlargement of the glonds, had never observed the ulcera*ion which was so characteristie of typhoid. Dr. Vandyke Carter had ohserverl sueh uleeration, and that obsurvation tended to break down the sharp distinetion which hat been drawn botween the morbid process geen in the intestincs in typhoid and in other specific fevers.-Dr. Nonman Moone referred to the existence of so-called typho-malarial fever. If it could be shown that ulecration of the intestines was an oecasional incident in such cuses, but eharacteristic of typhoid, it why, explain the was no ulecration in the cases he had observed, but quoted Dr. Barlow, who had stated that he had in one case of uncomplicatcd diphtheria seen ulceration of the intestine.
Articular Lesions in Gout and Cirrhosis.-Dr. Norman Moone: 1. Knec-joint from a case of gout, a man aged 40 , showing a deposit of urate of soda in part of the synovial fringe. Deposit in this situation was rare, the commonest regions for $\Omega$ deposit being the articular surface of the patella, and the intereondyloid groove of the femur next the condyles, then the semilunar eartiIages, and last the surface of the tibia. The patient had granular kidneys and a hypertrophied left ventricle and well-marked emphysems of the lungs. In the synovial fuid of both knees and both aukles there was a floating deposit of urate of soda, and the fluid itself was thieker than natural. Besides the knees and ankles, several joints of the foot showed deposits of urate of soda, but thero were none in the hands or shoulders, and none in the hip. -generation of cartilage, erosion, eburnation and lippiug, from a male patient aged 67, and a female aged 61. This condition in a greater or less degree was the common one in the joints of patients with cirrhosis of the liver. Out of twenty-four eases of eirrhosis showed these degenerative changes.-Dr. W. B. Hadden said that it was rare to find uric acid deposits in the joints in eases of cirrhosis of the liver. As eirrhosis was undoubtedly due to alcohol, the fact threw some doubt on the supposed relation between alcohol and gout.-Dr. Wiless said that the kidneys and liver were not commonly affected together by aleohol; in the majority of the cases of cirrhosis of the liver the kidneys were not aflected, wherens they were commonly diseased in gout.--Dr. of cartilage with tho wisceral lesion, and referred to Mr. Arbuthnot Lane's vierrs as to the influence of long continued pressure due to special oceupations.-Dr. Norman Moore said that in large pale kidneys, commonly attributel to beer drinking, it mas very rare to find urate of soda deposited. He thought it desirable that alcoholic obervations ahould be made on the influence of varions alcoholic bevcrages on the anatomy. - The Prasident referred to Sciences, which aleohols recently presented to the Académie des Sciences, which showed that alcoholic bererages contained many and varions secondary products due to the mode of manufacture Cardiac Cyst.-Dr. IIADDEN brought forward a specimen of cyst in the heart. The patient was a woman, aged 66, who died from cirrhosis of the liver. There were no symptoms pointing definitely to the condition of the heart, and nothing in the history to explain the origin of the cyst. It was ${ }^{1} 1 \frac{1}{2}$ inch in diameter, globular, thin walled, and situated in the inter-auricular septum. The, contents were pink and microscopically were found to consist of tinely granular fatty material. Tho walls, of the cyst were hydatid, dermoid, or serous. Its nature snd origin were obscure. -Dr. G. N. Pitr showed a small elosed cyst projecting on the ventricular surface of the mitral valve; it had contained a puriform fluid which, however, was found to consist entirely of cholesterine and debris without any pus. As the arteries were atheromatous, he thought that the cyst was also of that nature.

Malignant Discase of the Air-Passayes. - Three cases of malignant disease of the air-passages were bronge corward by of alveolar sarcoma of the larynx in a patient, aged 81. Hloarseness, griulual loss of voice without pain, and dysphagia, were the chicf symptoms, together with abundant expectoration of frothy, sometimes sanguinolent, sputum. Dr. Scmon was eonsulted on account of ennsiderahle aggravacion of the 1 yspucea. A fortnight previously the diagnosis of bilateral paralysis of the glottiaopeners had been made. The pationt woild not permit a laryngoscopic examination. The laryux was slightly tender on presure, and on the right haif of the cricoid there was a hard swelling,
apparently intimately connected with the cartilage, and of the was stridulous, but not was complete aphonia, and respiration as inspiration, being affected. Dr. Semon arrived, by exclusion of other possibilities, at the probable diagnosis of malignant disease of the larynx, the nature of the dyspncea and the aphonia rendering bilateral abductor paralysis highly improbable. The patient mould not submit to tracheotomy, which whs advised. Two days parts showed an extensire, though nowhere very prominent, swelling, extending over the greater part of the laryngeal carity, below the cords, which were involved in the disease, and lay slmost in apposition. The growth extended through the crico-
thyroid space, and appeared externally in front of the larynz The mucous membranc over a large area of the growt wess villous. This condition tas quite independent of any ulceration, and was one that might in certain cases be of much clinicsi importance. Microscopicexamination showed tho growth to be an alreolar sarcoma. The total number of cases of sarcoma of the larynx hitherto recorded did not exceed 50, and in none had the age of the patient been so adranced as in the present case. In the seeond case there was epithelioma of the right half of the larynx, patient, a gentleman, aged insula on the loft voeal cord. The 12th, 1887, on account of hoarseness without pain or dysphagia. Laryngoscopic examination showed a widespread, red infiltrating mass, involving the whole of the right half of the larynx, except the epiglottis. There was no history of syphilis, and the other organs were, healthy. On October 2lst Mr. Butlin saw the pathe disease. Extirpation of the right half of the performed by Sir William Mac Cormac on November list, 1887 The patient died from paenmonia on the third day after the operation. The presence of a small isolated growth tained at the time of operation loy means of an electric lamp introduced into the larynx. It was exeised by a circular incision in the healthy parts around it. Nicroseopic examination showed the growths on both sides of the larynx to he similar and epitheliomatous in kind. The ease illustrated the necessity of arriving at a diagnosis of malignant disease of the larynx in certain cascs by clinical symptoms only, without the aid of the mieroscope; since the infiltrating nature of the growth would have rendered the impossible. The presence of the isolated growth on the left cord
imal was one of the class of facts that might be interpreted as evidenca of a direct cancerous inoculation, although, in the absence of direct experiment, it might always be held in argument that the inflammatory process, only prepared to become cancerous for the same general reason which lay at the bottom of the original disease. At any rate, facts of this character were exceedingly rare, and no case of laryngcal carcinoma similar to the one now recordcd had, so far as Dr. Semon and Mr. Shattock knew, been reported. Professor von Dergmann had recently shown to the Berlin Nedical Society a case of earcinoma of exactly opposite spots of the upper and lotver lips. The third case was an exampla
of, intratracheal earcinoma continuous with careinoma of the thyroid. The patient was a man, aged 39, under the care of Dr. Ord and afterwards of Dr. Sharkey in St. Thomas's Ilospital. Thes ehief symptoms were hæmoptysis of some standing, emac ination, cough, and night sweats. There was paralysis of the right roeal signs, there was some thickening external to the trachea low down, and laryngoseopic cxamination revealed what appeared to All sympal ileeration just at the lower border of the field of vision. All symptoms present in the case appeared compatible with the bacilli were found in the sputum, and towards the eni of tha patient's life Dr. Sharkey, who watched the last staces, ont rtainerl a atrong auspicion of malignant disease of the frachea. Death ensued from increasing lhemoptysis. At the post-morten exami-
nation double pneamonia affecting the lower lobes was fonnd and nation double pneumonia aftecting the loreer lobes was folind, and
a smooth ovodal growth projeeted into the traches fro anterior aspect about 1.5 centinètro below the lower border ericoid. Sections showed an extensive submucous infiltration. the tumour substanee sprowhing between the tracheal eartilages to the hyroid gland and to the usterior of the trachen below thr latter. The right recurrent, laryageal nerre was founl io anter
the mass of malignant disease which lay around the trachea. The histology of the growth was that of cylinder-celled carcinoma ; the inresting epithelium of the trachea was not involved. As the tumour was trated outwards its thyroidal nature became plain. The cell columns had everywhere a lumen, and were formed by a single cell layer. This form of thyroidal carcinoma was very rare. Wölfer had recited seren cases collected from different authors, and figured a specimen yery like the present. It was also remarkable that the extension into the trachea took place in the form of a well-defined, comparatively large tumour, and not, as usual, by mere infiltration of the tracheal walls.-Mr. GodLee referred to two cases of thyroid tumour, in which the secondary tumours were sitiuated in bone.-Dr. PITT, in connection with the theory of the transmission of malignant diseases by contact, referred to the frequency with which growths secondary to malignant disease of abdominal viseera occurred in Douglas's pouch.

Mediastinal. Tumour involving the Heart.-Dr. Handeond showed a specimen of mediastinal tumour taken from a man aged 45, who had complained of cough for six months and a half. His chicf trouble ras dysplagia, which crentuated in complete in1 ability to take food by the mouth. ITe died from slow hæemopt ysis. 1 mediastinal carcinoma was found after death, which involved the lower lobe of the left lung. The left auricie was also implicated, and communicated by a small opening, Which was probably the source of the hemorrhage, with the pericardial sae, which
contained blood-clot, and also an irregular sloughy carity becontained
tween the roots-clot, of the lungs. With this eavity the trachea and bronchi. the walls of which were extensively destroyed, freely communicated. The cesophagus was not inrolved in the growth, and was not strictured, but communicated with the same cavity
by three openings, one of which was more than an inch long. by three openings, one of which was more than an inch long. There were numerous secondary growths in the liver, which, on
microscopic examination, presented typical alreolar stroma of microscopic examination, presented typical alreolar sitroma of
seirrhus. In a very similar case mentioned by Dr. Impacciati (Lo Sperimentale, January, 1888) the left auricle was involred, but not perforated. The oasophagus presented two small perforations, and death occurred from inanition from difficulty of swallowing. A third case was described, where death had been due to pulmonary hæmorrhage. There was a carcinoma of the root of the lung, spreading along the bronchi and blood-vessels into the lung, and secondary growths in the humerus', museles, and kidneys.
Cystic Lídney.-Dr. II. W. G. Mackenzie showed a kidney with cysts containing calculi. The patient, a woman aged 69 , died of cerebral hemorrhage; and the arteries were atheromatous and the left ventricle hypertrophied. Both widneys were cystie, but in the right only calculi existed. The largest of the calculi, was about the size of a small bean, the others, about thirty in number, were about the size of coriauder seeds. They were highly polished, very hard, consisted of oxalate of lime, and weighed together
$13 \frac{3}{2}$ grains. The kidney was not $13 \frac{1}{2}$ grains. The kidney was not enlarged, and contained, hesides numerous small cysts, two large ones au inch in diameter in the cortex. The largest calculus was contained in the largest cyst, a number of others were contained in the second cyst, and the remainder were in the small cysts. There was no calculus in the bladder, ureter, or pelvis. No communication existed between the cyssts and the pelvis. No such case had previously been brought
before the Society, hut Dr. Dickiuson referred in lis worts before the Society, but Dr. Dickiuson referred in his work on
Diseases of the Diseases of the Kidneys to a somewhat similar specimen in the Guy's IIospital Museum. Assuming that the cysts were the result of obstruction of tubules, either the ohstruction must have been incomplete or the cysts must have communicated with nonobstructed tubules so as to permit some flow of urine through the cysts. The cysts were not due to the calculi, as the presence of cysts in the other kidney without calculi showed. 1Ie thought
that it was not improbable that the that it was not improbable that the cysts were due to obstruction by small coneretions.
Card Specimens.-Mr. Eve: Cyst of Spermatic Cord, originating in the Organ of Giraldès.-Dr. F. J. Smirir: Aortic Stenosis.-Dr. HaNDFORD: I. Simple IIypertrophy of Kidney. 2. Multiple Tubercular Strictures of Intestine.- IIr. Fenwick: I. Yesical Carcinoma. ${ }^{\text {a }}$. Prostatic Carcinoma. - Dr. DREWITT (for Dr. Cholamelex): Lung from Case of Iremoptysis in an Infant.-Mr. SEatrock: Recurrent Sarcoma of Thyroid associated with Mypertrophy of Aceessory Thyroid.-Dr. IIADDEN: Intestinal Con-pretions.-Dr. Monsos: Yalvular Disease of Ifeart in an Infant. -Dr. Pirt : I. Caseous Gland Cleerating into Gzophagus and Stomach by Numerous Openings. It Itypertrophy of Esoplagus associated with IIJpertrophice IIeart.

## MEDICO-CLIRURGICAL SOCIETY OF EDINBURGII. Wednesday, March 21st, 1888.

Joun Suith, M.D., LL.D., President, in the Chair.
Nephrotomy.-Mr. A. G.' Miller presented a report of thrce cases of nephrotomy. The general conclusiou suggested by the results obtained was that nephrotomy for pyo-nephrosis and similar conditions was not a farourable method of treatment. The immediate result was often good, but, more especially in the yonng subject, the ultimate issue was bad. The tendency to sinus formation was tery great. Such sinus was exceedingly intractable, particularly in the young, and in a large proportion of cases led to the supervention of amyloid disease. When surgical interference was necessary, Mr. Miller believed that nephrectomy was a better operation.
Respiratory Neuroses.-Dr. Axdrew Smart described some forms of respiratory neuroses which had come under his attention in the out-patient department and in the special ward for alcoholic patients. Clarts were exhibited illustrative of various rhythmic alterations in the respiratory tracing, to which Dr. Smart believed attention had not yet been drawn. Ingenious theories were elaborated in explanation of the phenomena.

## royal academy of medicine in irelaid. Surgical Section.

Fridar, March 9th, 1888.
A. II. Corlex, M.D., Pres. R.C.S.I., in the Chair.

Subcranial Hremorrhoge treated by Secondary Trephining.Mr. Thornley Stoker said this case was that of a man. aged 50 , who was received into the Richmond Ilospital four days after he had fallen from a cart and sustained such injury that he became insensible. At the time he came under obserration he was in a state of stupor, with left brachial motor-monoplegia and a very partial paralysis of the facial nerre on the same side. The left leg showed a barely detectible motor insufficiency. There was no sensory paralysis, and the pupils were responsive and symmetrical. A bruise simulating depressed fracture existed in the scalp over the upper part of the right fissure of Rolando. No accurate history could be obtainell, and it was not possible to say whether his symptoms were of apoplectic origin or due to pressure on the surface of the brain, the result of laceration of a meningeal artery; This uncestainty as to the nature of the case caused delay in operating. On the ninth day of the ease the man had beeome worse, and was evidently dying. He was completely hemiplegic on the left side, profoundly comatose, could swallow in the most imperfect manner, and breathed with stertor only trelve or fourteen times in the minute. The conclusion come to was that the symptoms were probably due to hrmorrhage between the bone and dura mater, dependent on a laceration, with or without fracture, of the middle meningeal artery. Although there had been, so far as could he ascertained, no complete recovery hetween the injury and the advent of the later ssmptoms of pressure, and therefore an absence of that interval so characteristic of subcranial pressure, yet, on the other liand, there had not been that even level of ills, or that uniformly downward path of symptoms, indicative of laceration or apoplectic pressure. The reading of the case, as expressed at the time, and fully borne out by its subsequent history, was this: I. Hemorrhage over the right motor area, between the bone and dura mater, probably due to laceration of the midale meningeal artery or one of its branches, most likely associated with fracture, and producing the partial left paralysis which at first existed. 2 . Subsequent increase of the hemiplegia, either due to renewed hemorrlage or to that sudden vielding of brain function which was repeatedly seen both in hæmorrhages or serous effusions which had existed for some time, even though no additional mechanical pressurewas called into play: The existence,of the scalp injury over the upper and back part of the motor area was of less value in indicating the seat of pressure than the opposite paralyses, which pointed clearly to the engagement of the greater portion of the right motor area, including the extensive surface occupied by the cortical centres for the various parts of the npper extremity. the face and tongue, and lower extremity, the interference with them being in the sequence in which they are written. As to the assumption that the pressure was cortical, and not apopleetic, it was founded on his belief in the absence of any sensory paralysis, and the teaching on that point, so well expressed by Ferrier,
who says that "strictly cortical lesions of the motor area do not cause auresthesia in any form, and it may be laid down as a rule, to which there are no exceptions, that if anesthesia is found along with motor paralysis, the lesion is not limited to the motor zone, but implicates also, organically or functionally, the sensory tracts of the internal capsule or the centres to whith they are distributed." The cortical nature of the pressure was furt her supported by the existence in the early stage of the case of a pronounced brachial monoplegia, as it is well established that monoplegia is a condition due to interference with the cortex, aud not usually found in more deeply situated lesions. Considering the whole story of the case, and in riew of the inevitable denth of the patieut if not relievel by treatment, it was determined to trephine him. This was done on June 21 lst, the day on which he exhibited the pronounced conditions just described, and the ninth after his accident. The patient was, completely comatose, and no anxesthetic was used. The injury ower the fissure of Rolando was taken as the point indicated for operation, because, although not in the centre of the engaged portion of the motor area, a possible fracture existed there. A trephine with a diameter of 26 millimetres was applied, and, on the disc of bone being removed, the antero-inferior edge of the opening disclosed the edge of a well-formed blood clot. $A$ second trephine opening was made immediately below and infront of the first, and an oval opening, measuring 52 millimètres, rendered arailable for removing the clot. At its centre the clot was so thick that the dura mater was distant from the cranium about 40 millimètres. Before the patient was takeuoff theoperating table he moved his left armand leg with tolerable freedom, asked fora drink of water, which he readily'swallowed. In uninterruptedly good recovery was made. The evening of the day of operation the paralysis and hrain symptoms had all but disappeared, and he could pass water voluntarily. A day later he was in a perfectly, normal condition as regards any brain symptoms. He was kept under observation until September 29 th, when he left hospital. If another case resembling this offers itself for treatment, he would consider the propriety of making drainage as eficient as possible by forming a small trephine opening at the nearest accessible point to the lower edge of the line of separation between the cranium and dura mater. Ie was able to arrive at a conclusion justifying a useful operation by two circumstances -first, that he could, independent of any knowledge of a fracture enabling him to localise the hemorrhage, put his finger over the motor area and say with sufficient accuracy, "There is pressure here over the cortical centres for the upper extremity; it extended downwards and forwards to those for the face; it afterrards reached upwards to those for the lower extremity." The sequence is anatomically perfect. First, a brachial monoplegia; then, as the blood or pressure effect extends, a facio-lingual; and, finally, a crural paralysis. Independently of these points, the case-as one in which no defined bone lesion served to localise the hæmorrhage -belonged to a class sufficiently rare to deserve notice. If he required any other apology for presenting it at such length, he would have it in the words of so eminent a surgeon as Mr. Hutchinson, Who snys, speaking of instances of effusion of blood hetween the bone and dura mater, "These are especially important, because generally supposed to be capable of relicf by treatment. Yet it is a remarkatle fact that the modern annals of surgery do not, so far as I am aware, contain any cases in which life has been sared by trephining for this state of things." On a careful study of the light which modern investigntion had thrown on the localisation of intracranial pressure, and the security which modern surgical methorls had given to the operation of opening the cranium, and bearing lisis clinical ohservation of deaths from doultful intracranial accidents in mind, he had come to this conclusion for future guidance, that if he were iu doubt he would operate.

Traumatic Subdural Abscess of the Brain and its Treatment by Trephining and Aspirntion. - Sir Wriliasis Stokes referred to the statistical records of Abercrombie, Gull, and Sutton, which show that of cerebral aluscesses the traumatic subdural forms are those which occur with least frequency. He also pointed out how, until comparatively recently, ccrebral abscesses were considered as a rule a necessarily fatal condition, and that the reason they are no lenger considfered as such is due to the knowledge we have acquired of the localisation of cerebral function, injury, and disease, and also to nur improved knowledge of the principles and practice of antisepticism. The author was of opinion that the advantages to be derired from trephining ius such cases are more likely to be observed in these cases than in other conditions causing pressure, and alluded to eleven recordcd cases operated on,
in five of which the recorery was complete. Ile then gave the details of two cases in which he had performed trephining in the Richmond 1Iospital, both of which were illustrative of the pathological fact noted by Dease, as to the late appearance of cerebral trouble after cranial traumatisms. In the first of these cases he did not succeed in reaching the abscess, and the patient died; in the second, howerer, he did, and the recovery was complete. In this the matter was not reached until the needle of a hypodermic syringe was introduced to its full length. The relief was immediate. About an ounce and a half of pus was remored, and the alscess carity then washed out with a 1 per cent. solution of carbolic acid. The author then mentioned the principal details of the cases that were operated on by Dupuytren, Roux, Fenger, and Lee, Rentz, Macewen, Hulke, Sir J. Paget, and Marshall, and from these as well as his own cases he considered the following propositions might be stated: 1. That after the primary symptoms of cerebraltraumatism had subsided, there was frequently a latent period of varying length, during which there were no distinct brain symptoms connected with abscess formation whatever. 2. That their appearance was, as a rule, sudden, and, if uninterfered with, ran a rapidly fatal course. 3. That the occurrence of pus production resulting from cerebral traumatisms was not incompatible with a perfectly afebrile condition. 4. That this latter fact trould probably aid in differentiating traumatic cerebral abscess from meningeal or encephalic inflammation. 5. That both as regard colour and consistence there was great variety in the contents of cerelral abscess cavities, and that, as shown in Wilm's case, published by Rose, of Berlin, they might be transparent. 6. That antiaepticism had largely diminished the risks of the operation of trephining. 7. That taving regard to the great mortality of cases of cerebral abscess when uniaterfered with, namely, from 90 to 100 per cent., the operation was indicated even when the patient wras in extremis. 8. That in the case where the trephine opening did not correspond to the situation of the abscess, exploratory puncture and aspirations might be employed. 9. That by the adoption of this measure the necessity for multiple trephine openings could be largely obriated. 10. That the employment of a blunt-pointed aspirating needle, as suggested by Rentz, was probably the safest mode of exploration and excaration. 11. That drainage was desirable in the after-treatment of such cases. 12. That both during and subsequent to operation interference in these cases a rigid antisepticism was imperatively required.
Case of Traumatic Aphasia Successfully Treated by Trephining, and Removal of a Blood Clot from the Interior of the Cerebrum. -Mr . C.'B. Ball read notes of the following case. F. B, aged 26 , admitted September 1st, 1887. He stated that he had been struck on the head with a penknife ten days before coming under observation. He presented himself at another hospital immediately after the accident, but his case was not considered sufficiently
urge urgent for him to be detained as an in-patient. Since the accident he had found difficulty in using the right word, as, for inatance, he said he had a "man" in the side of his bead when he meant "pain." He stated that the difficulty of speaking and pain in his head had increased considerably during the last few days. Upon examination a small scab was found adherent to the scalp, over the squnmous pertion of the left temporal boue ; this,
when detached, showed through the temporal muscle, but the wound was quite healed. Classifying the symptoms presented by this patient during his atay in hospital, it was fouud that his motoraphasia was to the extent of being uuable to name articles which were shown to him correctly, while in speaking he constantly used wrong words or parts of words. Although he was able to write his name correetly, and with rapidity, and copy writing, ho was unable to write from dictation, or to write sentences which he originated himself; his attempts to do so dill not show a single properly formed character. (Word hlindness). - When given a book to read he said the words ran into one another, and then he could not make them out.
(Word deafness). times so irrelevant as to suggest that he had not appreciated the meaning of the query correctly; and when told to put out his tongue he opened his moutl only, but when he was set an example he at once protruded the tongue. This was frequently tried with the same result. There was no paralysis whatsoever to be detected of any of the voluntary muscles when he came under his observation; and, judging from the fact that immediately after the accident his crase was not considered suthiciently grave for admission into another hospital, there could not have been at that time any overt paralysis. Five days after
his admission his symptoms had so much increased that it was determined to operate. A flap was turned down, including portion of the temporal muscle, and containing in its centre the cientrix; this disclosed a wound of the squamous portion of the temporal bone, of a size and shape likely to he produced by the small blade of an ordinary penknife, held horizontally. with the baek of the knife towards the patient's hack, and the edge looking direetly forwards. A medium-sized trepline was now, applied, and a circle cut out, containing in its centre the cut in the bone; this was attended with some difficulty, as the lower part cf the circumference was exceedingly thin, while the upper portion was tolerably thick; the piece was remored without injury to the dura mater by the trephine. It was found that the knife had perforated the dura mater and brain. The wound in the dura mater was enlarged, in doing which the large posterior branch of the middle meningeal artery was divided, and gave some little difficulty to control ; this ressel had very narrowly escaped injury by the penetrating knife. A sinus forceps was gently passed along the brain wound, and the hlades separated, when a dark-coloured blood presented, and was gradually extended by the internal brain pressure. Some more fragments of clot were removed by the sinus forceps, and by a stream of weak perehloride of mercury solution from a syringe. A drainage-tube laving been introduced, the flap was replaced and, held in position by deep sutures, ineluding the temporal muscle. On the evening of the same day the patient was much more rational, and carried on a long conversation, with very few mistakes in his selection of words. Next morning he was again more aphasic, and it tras found that the drain had become blocked. Upon freeing it a considerable quantity of fluid, containing brokendown blood clot, was removed, and his power of speech improved. He made an uninterrupted recovery, and regained completely his power of writing, reading, and speaking: In this ense he believed the knife penetrated the superior temporo-sphenoidal convolution, traversed the fissure of Sylvius, and prohably injured Broca's conrolution. and that his symptoms were due to a blood clot in the fissure of Sylvius, which Was breaking down, and which was evacuated by timely surgieal operation.-The discussion was postponed to the next meeting.

## SHEFFIELD MEDICO-CHIRURGICAL SOCIETY.

## Thursday, March I5TH, 1888.

M. M. de Bartolomé, M.D., President, in the Chair.

Specimens.-Dr. Howt exbihited (1) Large Indurated Glands removed from a Child's Neck; (2) Appliances for receiving the discharges during operations, and securing cleanliness and comfort; they Trere in use in the Boston (U.S.A.) General Hospital.
Plumbism.-Mr. Priestley introduced a case of plumbism, a patient of Dr. Dyson's, the only assigaable cause being the impregnation of the drinking water by lead.
Exophthalmic Goitre.- Mix. Baldwin related particulars of the Lermination of a case of exophthalmic goitre shown to the Society
some time since. 30me time since.
Hremophilia.- Mr. PYe-Smith related brief notes of a case Which ended fatally in a man aged 47. IIe was admitted into the Public IIospital for a wound in the left liand. The hemorrhage was with difliculty stopped by stypties and pressure, hut a fortaight later blood began to be passed by the rectum, and, after, losing a good deal for two days, the patient suddenly became iaint and died with Esmptoms of internal hamorrhage. At the onst-morten examination the stomach was found to be full of softlotted blood. The small intestines and the rectum were empty, 3ut covered with blood-stained mucus and small eechymoses. 3ut covered with blood-stained mucus and small eechymoses.
The male children of the patieut's mother's sister were also
oleeders.

Etiology of Chorea.-Dr. Porter gave a series of cases which had come under his personal notice. In 49 thore were 37 females and I2 males, the usual proportion of 3 to 1 , which was a singuarly constant one. He found that in 44 cases some member of he family had suffered from acute or subacute rhewmatism alone n 13 , and in 2 more there was a history of both rbeumntism and horea; of chorea alone there were 3 cases, and of other nervous ffections (epilepsy, insanity, ete.) there were 3 more. There was rheumatic history, either family or personal or both, in 22 out if 46 cases, and nervous predisposition or antecedent chorea alone n 18. He held that chorea alone could produce endocarditis and rganic ralyular diseases. In 8 out of 39 there was in his cases n organic murmur, and in 3 only was there a rheumatic history. $t_{\theta}$ alluded, among exciting causes of chorea, to educational pres-
sure. The pathology of rheumatism was doubtful; some had claimed for it a nervous hasis, and it was possible that there might yet he found some anteeedent condition common to it and chorea; whether the two affections occurred vicariously was the question.-liemarks were marle by Dr. Dison, the Presidest, Mr.r Priestley, and Dr. S. Roberts.

## SUNDERLAID AND NORTII DUTHAM MEDICAL SOCIETE. Therspay, March $15 \mathrm{TH}, 1888$. <br> G. B. Morgan, L.R.C.S.I., President, in the Chair.

Tracheotomy.-Mr. Mackar sent a woman on whom this operation had been performed eleven years before. Since the operation she had borne five children, but she had never been able to do without a tube.

Excision of Shoulder-jount.-Mr. IIopgood slowed a boy in whom acute periostitis of the upper end of the right humcrus had. followed a blow on the shoulder.

Specimens.-Mr. F. A. Maling: Large Vesical Caleulus.-Mr. Hopgood: (1) Orarian Cyst. (q) Caries of Femur.-Dr. Gnay: Exeessive IIypertrophy of Toe-nail.-Mr. WHITEHOUSE: Reduction en Bloc.

Post-aural Branchial Fistula.-Mr. WHitenotse read notes of a case which had been under his care. The patient, a strong man, aged 30, complained of repeated formation of abscesses in front of his right ear. For the last two years one had formed about erery two months. A small depression was found leading to a passage large enough to admit a bristle. Before the abscesses had fully formed he always noticed a slight discharge of creamy fuid from the sinus. The seat of the abscesses was about three-quarters of an inch in front of the depression, which was on the upper part of the helix. His hearing was perfect, and no branchial fistulm existed in the neck. The tract was laid open and seraped, and the temporal artery tied, and so far there had been no return of the abscesses.-Mr. Serilte made some remarks.

The Treatment of Stricture of the Urethra.-Mr. WHineमocse read a paper on this subject adrocating the operation of internal urethrotomy whenever the circumstances of the case demanded it.-The President, Mr. IIopgood, and Dr. Grat made remarks.

## REVIEWS AND NOTICES.

The Children of Silface: on tife Story of the Dbat. By Joseph A. Seiss, D.D., LL.D. Philadelphia. Porter and Contes. 1887.
The author of this commendable little rork tells us modestly in bis preface that it "has grown out of some special studies, intended for his own information, the more intelligently to discharge his duties ns a director of an institution for the deaf and dumb. It would be well if other directors of such institutions considered and acted upon their obligations in the same spirit and with the same ability.

The volume before us is for the most part accurate, as far as it goes, and impartial; the compiler has evidently had access to the valuable library on matters connected with deaf-mute education, which was in the possession of the late Charles Baker, head of the Vorkshire Institution for Deaf-Mutes, and, unfortuately for us, curiously transferred to the United States of America some years ago. The American Annals of the Deaf and Dumb during its "thirty or more years" of existence is an evidence of this. The author concludes his preface by hoping that the present volume will be influential in demonstrating the sources of the sad misfortune of deafness. We are very sorry that he did not add "and. more especially dumbness."
To diminish the sources of deafness is a lavour truly Herculean. As regards dumbness arising from the source of deafness, thero seems to be little, if auy, difficulty in dealing with this condition in most countries, the exception being the United States of, America, Canada, and Great Britain.

Dr. Skiss treats of the classification of deaf-mutes, that is, those who are, and who are not, to be considered as such. This is most important when the question of their edueation comes under reriew. Many a child with only a moderate degree of deafness has, heen sent to these special sehools and has become dumb in con-, sequence of the peculiar form of teaehing employed. It is needless to say that in such institutions the total denf always remain dumb; further, which seems saddest of ali, children becoming deaf,
ufter having nequired spoken langunge in the usual way, have lost it umber the sign eystem of instruction.
Thle question of the number of clenf and "dumb" is, of course, also interesting, but most dillicult to urrive at for many obvious reasone. The author of tho Children of Silence has revived an amusing incident which oceurred in the lrish census years ago, when a 'quite unusual number of chid!ren were returned as " dumb, but not deaf or otherwise defective." "pon inquiry these were found to be infants under 12 months: that collector was eridently not a father.

Dr. Seiss (pp. 17 and 18) curiously observes in a like manuer: "All children are horn mute," althongh in another paragraph he is quite careful to show how rare muteness is. So long as any misunderstanding continues as regards the term "articulate language and roice," so long will the deaf child be considered to be dumb or mute in the popular mind. When the two words "deaf and dumb" are divored, a listinct adrance will have been made towards a proper appreciation of the true condition of these aflicted children.

The writer says that the "deaf are not always nor necessarily dumb," and that 20 per cent. are capable of being taught to speak, whilst other authorities assert that 80 per eent. or more can be successfully taught. It is a pity that he does not mention those largely direrging authorities. The smaller percentage will be found in the American and Eiglish estimates, and the larger in those of the Continental.
The causes of deafness are naturally most interesting just as they are perplexing in so many cases. Dividing the causes as usual into ante- and post-natal, Dr. Seiss writes soundly on Intermarriage of Blood Relations, IIereditary Transmission, and Constitutional Taint, quoting well-known authorities on these points, and proceeds to consider under the heading of " $\mathrm{Im}-$ pressions on Mothers," the rexed question of maternal emotions affecting intra-uterine life to subsequent permanent injury to the offspring. A considerable number of cases are quoted to support the opinion that this is so. It is impossible to prove a negative, and it would, therefore, be useless to quote the innumerable cases where frights and impressions during the period of gestation did not have a bancful effect upon the offspring. We are assured by one who has had considerable experience amongst the deaf, and has made narticular inquiries upon this point, that he has never heard of any case of a hearing female connected with an institution for deaf-mutes having borne a deaf child owing to her association with the deaf and dumb.
Physiologically considered, suppose a nerrous woman in a state of pregnancy to receive a shock, which affects her offspring in a characteristic way-namely, deafness, some part of the organ of hearing is presumed to be undeveloped, owing to the supposed shock and subsequent maternal impressions. But what caused the shock? Not the condition of deafness in another individual. One may pass a hundred deaf persons in the course of a sliort period without being at all aware of their condition, how then can a shock be received even to the most delicate organisution? The usual account is not that the mother was frightened by a "silence," but by an unnatural and unpleasant noise; if then luer offspring were found reproducing this noise, we might admit the theory of "maternal impressions," but why a child should be born deaf because the mother was disturbed by a disagreeable sound is, to say the least, somewhat perplexing.

A typical instance of the sound, not the silence, being supposed to cause deafness will be found on page 74 of Dr . Seiss's book. It is possible to entertain the theory of a morbid hypersensitive imagination incessantly dwelling upon the condition of deafness and its terrible consequences influencing injuriously in some way the offspring of a mother of weak constitution, hut authenticated evidence on this point is very difficult to obtain. In fact, few parents will eren admit denfness in their own child to be congenital.
In comparing the terrible misfortunes of congenital blinduess and denfness, Dr. Seiss is prohably right in his view that the latter is by far the more deplorable.
The historical portion of the book is useful aurd fairly full and accurate; the usual drawback to this part being that the writer confines himsilf far too much to the consideration of one county and one system. But we eannot dismiss this mutter without defending one of the carly Einglish teachers, who has lieen assailed more than once by Americin writers, respecting the lev. J. Gullaudet's visit to london in 1815 th gather information and experiences in deaf-mute edncation. Dr. Sciss says: "That the
extravagant demands of time and money made on him in England to secure the object of his mission hecame the occasion of his going to Paris, when lee brought back with him the sign system and an educated deaf-mute to assist him in teaching it." As a matter of fact, he accepted from the Paris lnstitution almost identical terms which he refused from the London Asylum. A Birmingham daily paper recently, in describing a visit of Mr. Chamberlain to the National Deaf-Mute College at Washington, U.S.A., writes as follows: "The President of the College, Dr. E. Gallaudet, came over to England in $188 \%$ to give evidence before the Royal Commission, ctc., in spite of the fact that England refused information to his father seventy years ago." This same Dr. E. M. Gallandet was sent to Europe some twenty years ago to study the system of education for the deaf pursued in Europe, and after an inspection of schools reported most unfavourably on the speech system ; and at the Milan Congress, referred to by Dr. Seiss in 1880, again opposed most vigorously, as the writer says, the same method, he forming one of the minority of 4 in a majority of 160 . We cannot for a moment accept Dr. E. M. Gallaudet cither as friendly to or an authority on the pure oral system. He has certainly advocated what he calls the "aural system;" this seems to be a method of teaching children who can hear in schools for the deaf-a somewhat unusual proceeding one would think.
The least satisfactory part of Dr. Seiss's compilation is, in our opinion, that devoted to statistics, which will be found at the end of the rolume. These figures are by no means brought down to date, in fact, we may roughly say are quite antiquated, because they do not deal with the extraordinary revolution in teaching which has been effected since the year 1880 in ${ }^{2}$ Europe and elsewhere.

In looking through these statistics, we find, for instance, the London Asylum in the Old Kent Road (we believe the oldest and most richly endowed institution for the deaf and dumb in the United Kingdom) is credited with teaching 158 pupils on the oral srstem ; this in the year 1879! The year following the responsible head teacher of that institution, in company with Dr. E. M. Gallaudet already referred to, "most vigorously" opposed the speech system. Then, again, mention is made of a school at Castle Bar 1lill, Ealing, W., founded in 1878, returned as having six pupils and one teacher, the system employed being described as the -oral." Themethods of education employed in these tro schools, we renture to say, hare nothing in common one with the other; in fact, the term "oral," as applied to deaf-mute education, is most may be, has a peculiar School, whatever its merits or demerits a society formed in 1877 due to the personal exertions of a gentleman, the father of a deaf daughter, who wished to save her from dumbness. The reasons given for the formation of the society were:-1. That a great number of children were allowed to mrow up without any education whatever. 2. That nearly all the schools in the kingdom used the French, or silent, method, namely, teaching by signs and the manual alphabet.

No teachers of the pure oral system were at this time obtainable in England outside their engagements, and the few who were emplored (at most 5) were imported foreigners, notwithstanding that at that time a society for the training of teachers, started under most influential patronage, had been at work some years. The chief object of the Ealing Socicty was'announced to he to train teachers of the deaf on the German system, and so to diffuse this mode of instruction. The figures, so far as England is concerned, connected with deaf-mute education may be approximately quoted as follows:


The marked increase both in teachers und pupils after the establishment of the school at Ealing (which figures so insignifleantly in Dr. Seiss's statistics) will be noted; further, that directly and indirectly due to its training and teaching we: flnd Ealing (eight years established) has trained, down to the end of the year 1886, 62 students, and been the means of teaching 437 pupils. The most marked change of all, however, has occurred in Franee, the birthplace of the sign system, and where, up to the year 1880, when the international Congress of Teachers of DeafMutes wis liehl at Milan, the method generally employed; was the sign or silent one. Now, out of over 60 institutions, we-under-
stand that not more than 2 refuse the use of speech to their pupils.
There are many other points in Dr. Seiss's volume we should wish to dilate upon had we space. One thing may be said in conclusion with respect to the merits of the speech and the silent systems (the combined, being illusory, we may disregard), namely, that if a deaf child can be taught to use spoken language and saved from dumbness, it ought, without any question, to be taught, and that it can we have the fullest evidence throughout the length and breadth of Europe. Let America and England follow this good work as speedily as possible.

The Transactions of the Edinburgh Obstetrical Society. Vol. xii. Session 188G-87. Edinburgh : Oliver and Doyd.
The work contains a record of the proceedings of the Edinburgh Obstetrical Society for the year 1886-87. Though it may seem invidious to mention one article rather than another where all are so gond, we cannot omit to praise especially the papers brought before the Society by Dr Berry IIart, Dr. Freeland Barbour, and Dr. Halliday Croom.
Dr. Berry Hart contributes extremely important papers on " The Anatomy of the Post-partum Uterus, with Special Reference to Placenta Previa;" and a "Note on the Mechanism of the Separation of the Placenta during the Third Stage of Labour." Taken in con|unction with Dr. Champneys's series of papers on "The Mechanism of the Third Stage of Labour," they form an important contribution ot this subject. Another article by the same author, entitled "A Jontribution to the Sectional Anatomy of Adranced Extra-aterine jestation," is also of the utmost importance, and the subject could 1ot have been undertaken by a more competent or painstaking ,bserver. It is here conclusively shown, what has long been lisputed by many, though contended for by Tait, that an ectopic estation may be entirely extra-peritoneal. For this condition he author suggests the term "subperitoneo-abdominal."
Dr. Freeland Barbour contributes an artiele on "The Sectional Latomy of Labour," a contribution showing much study and riginal work. The diagrams illustrating the subject are reaarkably good and clear.
The President, Dr. Halliday Croom, in a paper of great practical alue, treats exhaustively of "The Indications for, and the Methods f, Washing Out the Puerperal Uterus." The ralue of corrosive ublimate as an intra-uterine injection in puerperal cases and he dangers attending its indiscriminate use are laid before the ociety, while the indications and contra-indications for the intraterine douche are clearly pointed out.
Another paper of interest on "A Case of Myxomatous Degeneraion of the Chorion; Profuse Hæmorrhage; Transfusion; Reorery," by the President, is also worthy of note.
The volume, which is elegantly bound and clearly printed, ontains numerous beautiful lithographs. A complete index nd a list of the Fellows, with the office-bearers for the year S86-87 are included. The Transactions are valuable and imortant, and we wish the Society as great an amount of success 1 the future as it has obtained in the past.

## REPORTS AND ANALYSES ESCRIPTIONS OF NEW INVENTIONS,

 IN MEDICINE, SURGERY, DIETETICS, AND THE ALLIED SCIENCES.THE TELEPHONIC BULLET-PIROBE,
r a recent meeting of the New York Academy of Medicine, Dr. ihn Harvey Girdner exhibited a telephonic bullet-probe, which is ustrated by the accompanying engravings. Fig. I represents a lephone receiver $(R)$, to which two terminal wires ( 1 and $B$ ) are tached; the framework of the receiver is of hard rubber; $G$ is central bar of soft iron, round which is coiled an insulated wire 1); the two cuds of the wire are connected with the terminals; a etal diapliragm (1) is suspended close in front of the central bar -) If a current of electricity passes through the coiled wire, e central bar (G) is rendered a magnet, and will attract the aphragm (1), causing it to vibrate, so that each time the current made and broken n clicking or rasping sound is heard when the seiver is held to the car. In practice it is found convenient to e tro reccivers, one for each ear; a steel band (depicted in

Fig. 2) connects the two receivers and keeps them closely applied to the ear; in this way extraneous sounds are excluded, and both hands of the operator are left free; when the double instrument is used the two receivers are connected by the short wire to be seen in Fig. 2.


Fig. 1;
The instrument is thus used: the operator having adjusted the telephones, the patient takes the steel bulb (Fig. I C, and"Fig.2)

in his mouth, and the surgeon introduces the thin probe (Fig. I, E, and Fig. 2), which is fixed in the holder (D) hy the serew (F) into the
sinus which is to besearched for a bullet; bone and other tissues can be felt by the hand using the probe, but no somd is heard in the telephone until metal is touched, when immediately a rasping sound is perecived in tho telephones. The patient's body, under the circumstanees stated, furnishes a suffieient current of eleetricity to work the telephones. The bull may be placed in any other cavity of the body, or may be grasped by the moistened hand. The indientions obtained with this instrument were stated to be far more reliable than those given by the poreelain-tipped probe, which, if the bullet was greasy or coated with salts, failed to be marked.

Another advantage claimed for the apparatus was that when no sinus existed the probe might be replaced by a sharp, slender, steel needle, whieh, haring been rendered aseptic, might be thrust into the tissues to search for the bullet or other piece of metal without mueh pain to tho patient. When the metal has been struek the necdle could be detached from the handle (D) and would serve as a guide in cutting down on the bullet.
Dr. Girdner's paper, from which the above description and drawings are extracted, was published in the New 耳ork Medical Record on February 4th, 1888.

## A NEW FORM OF TRUSS.

In December of last year, at a meeting of the Medical Society, I showed some eases of large inguinal hernia in which the rupture was retained by a new form of truss. With one exception, in whieh no truss had been worn, ordinary spring trusses had proved inefficient of inconvenient to the patients, all of whom were at that time satisfied with the new pattern in question.

I hare since that time followed up these and other cases, and I have satisfied myself that the truss is an efficient and useful one, especially in cases where the abdomen is pendulous, and the buttocks are rolls of fat.

It is, I belicye, the invention of a Mr. Fry, of 18 , Irydale Road, Nunhead, and its appearance and construetion are shown in the accompanying woodcut. It will be seen that it differs widely from the better known patterns; it resembles, however, rather closely in prineiple a truss described by Mr. Rushton Parker in the Jocrnal of February 25 th of this year.

The truss (Fig. 1) consists of a bar of gun metal. 'fufficiently

flexible to be bent by the hands to the general contour of the front of the pelvis, but stiff enough to retain that shape. It is of such a length and shape that it runs aeross in from just below one anterior iliae spine to below the other, and has a dip in the middle, where it rests against the pubes. From the ilia the curre of the bar is continued round the buttoeks on either side by two strips of stiff leather (which were in the carlier patterns made of soft malleable metal), and these are fastened behand by a pieee of stout elastic webbing with a buckle.

The pad (Fig. 2') by means of which pressure is made upon the

*Fig. 2.
hernis aperture, is of wood or vulcanite, and is so arranged that it ean be slid along the gun metal bar and clamped in its right position; it can also be adjusted to the right angle by means of a binding serew. It is obvious that in this truss, as in Mr. Parker's, there can be no constaut pressure inwards against the
presumably eonstant outward pressure of the rupture, save only the very slight action which the elastie spring behind may excrcise. The door is elosed by sometling henry placed against it rather than by a continuous push, and I can see no reasou to suppose that it can be in any way curative, or applicable to ruptures in whiel a cure may be looked for. But it is strong, light, and inexpensive; it can hardly ever wear out, and does iu practice afford rery effieient relief in cases in which that relief can ouly be given by a spring truss at the expense of a great deal of especially troublesome fitting.

Walter Pxe, F.R.C.S., Surgeon to St. Mary's IIospital.

## A NEW FORM OF SEQUESTROTOME.

THE accompanying engraving represents a form of sequestrotome shown to the Nottingham Medico-Chirurgical Soeiety in connection with two successful operations for total diaphysial necresis.
The entire length of the instrument is thirtcen inehes. The engraring shows the shape. and proportiou of its various parts. The mechanical points on which it varies from the bone-forceps in use are these:-

(a) It is forged from the finest steel at cherry lieat, and tem pered between a pale straw and bat's wing.
(b) The cutting edges are of a less acute single bevel thani usual.
(c) The edges are not opposed, but more on contiguons paralle planes. This greatly inereases the breaking power, but offers tb mechanical disadvantage that it tends to separate the blade laterally with divergence of planes.
(d) The latter is remedied by the forceps having a very larg accurately fitting pirot, of the same steel as the instrument, wit large steel counters, so that it is impossible for moveunent to tal place unless the material or workmanship is inferior.
hupert C. Chichen, f.R.C.S.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

rbscriptions to the Association for 1888 became due on January 18t. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belongiag to Branches are requested to forward their remittances to the General Secretary, 429, Strand, Londen. Postoffice orders should be made payable at the West Central District Office, High Holborn.

## (1) Enitisl) Aftrical jourmad.

## SATURDAY, APRIL 7TH, 1888.

## LOCAL GOVERNMENT BILL: SANITARY

## ADMINISTRATION.

3. Ritchie's Local Government Bill bears examination satisterily, and although since the publication of the full text it been subjected to searching eriticism and is likely to undergo 20 important modifications, nevertheless, the general feeling the country is, we beliere, in favour of its main provisions. have already pointed out what we.consider to be some of its in defects, which are chiefly faults of omission. We notice t the most competent authorities, such as Mr. Stansfeld, cur in the expression of regret to which we gave utterance, $t$ the Government have not seen their way to go further than Bill provides, and to unify all the local authorities which - exist, so that there might be one local authority, and one r , exercising jurisdiction over a particular area. Mr. Ritchie's posal to leave the poor-law unions and the poor-law guardians olutely untouched is, in Mr. Stansfeld's view, as in our 2 , an ohvious defect, which, if it cannot be supplied now, will e to be remedied at no distant date. The continuance of divorce of the administration of relief of the poor from other s of lecal administration is a great blot, and we are still pinion that by grasping the question in a more comprehenif spirit, it. would have been possible to have avoided a tition of the constant tunkerings at reform which have been bane of the local administration of the country for the last ration, and which must still continue unless the Bill be Ifged in the direction wo suggest. It will, however, at the ent be useful to many of our readers briefly to analyse the " features of the Bill as it is at present drafted.
is mainly one of decentralisation and readjustment, by th powcrs and duties already exercised by a variety of 1 arities, and even by Parliament itself, will be transferred to Har representative local bodies. New powers and duties are do any very great extent proposed to be created.
the outset a broad line is dramn betweon the judicial and nistrative functions of the existing county autlorities, i.e., Wourts of Quarter Sessions. The former are to remain : $d$ in the magistrates, as at present, whilst the latter, inuig the administration of county rates and financial business,
county buildings, county bridges, the provision and management of the county lunatic asylums, the establishment and naaintenance of reformatories, etc., the granting of licences for music, dancing, and the sale of intoxicating liquors, "the execution of the Acts relating to the contagious diseases of animals, the adulteration of food and drugs, weights and measures, and certain duties as to main roads, are to he transferred to the new "County Councils" which it is proposed to constitute. These County Councils are also to undertake all the powers at present exercised by the Board of Trade with respect to the making of provisional orders under the Pier and Harbour Acts, the Tramways Act, the Eleetric Lighting Act, and the Gas and Waterworks Facilities Acts as regards companies, and the powers of the Local Government Board as regards the making of provisional orders as to schemes of local authorities under the Gas and Waterworks Facilities Acts, the sanctioning market tolls, fixing the scale of charges in respect of water supply, the investment of a rural authority with the powers of an urban sanitary authority, the settlement of disputes as to boundaries and other matters under the Public Health Act, the Public Health (Water) Act, the Artizans' Dwellings Acts, the Valuation (Metropolis) Act, the Sale of Food and Drugs Acts, etc. Certain borrowing powers are also to be given to them, and they are to be empowered to aid emigration amongst non-paupers. They are further to have certain powers for securing the efficient administration of the Rivers Pollution Prerention Act, 18i6, and they are to share with the justices the control of the police force.

In deference mainly to the sentimental objection which is widely raised to any material alteration of the ancient landmarks of the country, the jurisdiction of the new County Council is at first to coincide with the geographical area of the county, but it will be competent to the new anthorities, when constituted, to obtain a revision of boundaries. London (as defined by the Metropolis Local Management Act), and ten of the largest boroughs-Liverpool, Birmingham, Manchester, Leeds, Sheffield, Bristol, Bradford, Nottingham, Hull, Newcastle -are to be constituted separate counties in themselves, whilst in the remaining sanitary districts-Urban and Rural, Local Board and Improvement Act-"District Councils" are to be elected to supersede the existing authorities, and to exercise powers as to the Petrolenm Acts, Dogs Acts, Infant Life Protection Act, 'the licensing of slaughterhouses, game dealers, pambrokers, fairs, etc. As regards the mode of election of those Councils, the Municipal Corporations Act is to be extended to the whole country, thus giving a qualification to all ratepayers. Three-fourths of the new County Council are to be directly elected by the ratepayers, and the remaining fourth are to be "selected" by the councillors, either from within or from without their own body. The District Councils are to be elected on the same franchise. Thus the complete organisation of the county will be-for the judicial work, the magistrates ; for the administrative work, the County Council ; all internal areas to conduct themunicipal government of their areas; and all elected upon the same franchise. The poor-law guardians will continne to esercise their functions with
reference to the administration of the poor-law within the areas which exist at present. No alteration whatever in regard to the dection of guardians or their.poor-law powers is proposed.
As regards financo, the rolations between Imperial and local taxation will bo materially affected. Certain Parliamentary grants in aid, amounting to $£ 2,600,000$, are to bo withdrawn, and instead a sum of $£ 5,600,000$ is to bo allocated to tho new authorities, in relief of local burdens.
The existing chaos of aroas and overlapping juisdictions has been so detrimental to sanitary progress that, from a public health point of view, any reasonablo scheme for the simplification of local administration is wolcome. It is also well that at last the poor-law and the sanitary administrations should bo separated. One of the greatest obstacles to the proper execution of the Public Health Act in rural districts has resulted from the assignment of sanitary functions to boards of guardians. Apart from the fact that the poor-law unions were not dosigned to meet the requirements of sanitary operations, and aro not, except by accident in some cases, suitable units for sanitary administration, such administration has often, if not as a rule, been distasteful to boards of guardians, and has invariably been subordinated to the poor-law business. Nor is the supersession of the small local boards a matter for regret. In the large compact boroughs health matters have in most cases been honestly and energetically dealt with during recent years, and reducerl sickness and increased prosperity have resulted amongst the inhabitants. But there are, scattered over the country, scores of small urban districts whero sanitary affairs have been grossly neglected. It is to be hoped that in the new subdivision of the counties due regard will be had to the configuration of the localities for sanitary administration, and to the oxigencies of water supply, drainage, and such like.
The assignment to the new county authorities of certain powers under the Salo of Food and Drugs Acts and the Rivers Pollution Prevention Act, 1876 , inspires a hope that these important enactments may be more thoroughly enforced in future than they have been in the past. The Adulteration Acts are practically a dead letter in many counties and boroughs, whilst many rivers continue to bo polluted because the sanitary authoritics who are responsible for enforcing the Act are themselves the chief offenders. The Aire and Calder, which are as filthy rivers to-day as they were when the Commission of 1868 roported on their condition, are glaring examples of this unsatisfactory state of things.

Vaccination was only incidentally referrod to by Mr. Ritchie when he announeed that tho Parliamentary grant in aid of public vaccination would bo withdrawn, but that part of tho larger grant to bo mado to the county authorities would bo devoted to the same object. Whether this means that vaccination, which is a distinctly sanitary operation, is to be detached from tho control of the poor-law authorities remains to he seen.

As regaris the pasition of medical officers of health under tho ncw scheme, Mr. Ritchic's statement contains no information.

Tho question must not, howover, be regarded as one of mere detail ; it is of vital importance if tho full bonefits derivable from the reform of sanitary government are to be obtained. At present the system of appointment of health officers is, as has boen so often pointed out in those columns, very unsatisfactery, not ouly from the point of view of the interests of the medical profession, but from that of individual efficiency and local usofulness. There should be sufficient inducements for able men with special scientific qualifications to enter the ranks of the sanitary servico of the country, and the constitation of county authorities affords an admirable opportunity for securing this result. The larger area would enable a salary to be paid which would secure the whole of the officer's time. But the appointment should be cluring "good behaviour," and not from year to year, as is the general rule at present. There would, also be public advantage in assigning to the medical officer of health the duties-such as those of county analyst, the making of postmortent examinations for coroners' inquests, etc.-which at present are not performed on any recognised plan.

It was wisely said by John Stuart Mill that "power may be localised, but knowledge to be most useful must be centralised." We hopo that the new system will result in a eloser loeal enforcement of proper hygienic principles, and the extension of the local study of preventive medicine in the manner that it is already practised with good results in many of the larger municipalities. Concurrently with this local impetus to sanitary, science we should be glad to seo an extension of the valuable scientific work of the Medical Department of the Local Govenment Board, whereby the observations of local observers weuld, be checked by the light of wider experiences, and problems locally propounded might be satisfactorily pursued to a useful conclusion.

## THE UNIVERSITIES (SCOTLAND) BILL.

Trae introduction into the House of Lords of a fresh Univer-1 sities (Scotland) Bill has excited great interest in the university centres of Scotland. The publication of the toxt at the end of last week has called forth an endless variety of criticism. The Bill proposes to hand over the administration and management of all the revenues and properties of the miversity to the University Court, to which it would give the powers of euacting regulations for graduation and conditions for the tonure of Fellowships, etc., and of affiliating to the university, with the consent of tho Chancellor and the approval of Her Majesty in Council, new colloges, duly incorporated and endowod, under conditions to be laid down by tho Commissioners to be appointed under the Act.' For theso purposes the Court will be enlarged and mado more represontative. It will includo tho Principal, Rector, and head of any affiliated college, an assessor mominated by the Chancellor, and one nominated by tho Rector. The Senato and General Council will each bo represented by four asscssors. The university town is to be represented ly its Lord Provost for the time being, in the caso of Glasgow, Edinburgh, and Aberdeen, while the Elinburgh Town Council re-
ceives the privilege of nominating an assessor. In the case of each univorsity the Bill providas that the assessors are nominated by the Crown, whilo in the erent of colleges being affiliatel provision is mado for ä representation of their governing body in the Court. The Rector may take the assistance of the students, as represented by their Representative Council, in the choice of his assessor. The powers of the Senate arc, under the Bill, reduced to educational matters and the discipline of the university. Provision is made for a Committee of the Privy Council, to be called the Scottish Universitics Committee. The Commissioners, under the Bill, are given powers to transfer the patronage of professorships vested in individuals to the Court, to regulate foundations, etc., to regulate the powers and privileges of chancellors, professors, and other, university officers, to alter the constitution of faculties and create new ones, to regulate fees, courses of study, degrees, and examinations, to enable the universities to be opened to women, to regulate salaries of professors, to found new chairs or lectureships, and to affiliate colleges. The application of the College of Dundeo to the University of St. Andrews is specially mentioned in the 13ill. The noticeable point in the financial proposals of the Bill are that the finality clause is omitted, and Glasgow University recoives, in addition to its proper average, an aunual sum of E500 for maintenance of buildings.
The essential features of the proposed measure are, it will be seen, the transference of the financial administration of the miversities to the University Courts, the increase of function delegated to the Courts, and the reconstitution of the Courts in such manner as will allow of a fuller representation of university graduates and of the public generally. The Bill ought to give satisfaction to the roform party. The enlargod and representative character of the new Court, the transference of the management of the university to it from the Senate, and the powers of afiliation aro among the chief demands of that party, and are rexy fairly met in the Bill.
Since the suggested alterations are of so swecping a character, tho Bill, as might be expected, cannot be said to mcet the wishes of those members of the professoriate who find it possible to combine the immediate dutics of their chairs with close attention to the largo and varying problems which the administration of so important an institution implies. On the other hand, a frowing section looks with favour on a measure which appenrs to promise them relicf from burdens, which are, in no sonse, essential appanages of their office. To the wide circle of university graduates the Bill has evidently- commended itself. At a mceting of the Committec of the Association of the General Conncil of the University of Edinhurgh, resolutions wore passed expressing full satisfaction with the proposed moasure, and praying that it might speedily became haw.
sir James Paort will preside at the dinner of the Royal Literary Fund on May 2nd. Many of the leading members of the medical profession havi signifind their intention of being pes nont.

Sir Join Simon, K.C.B., F.R.S., and Dr. C. J. B. Williams, F.R.S., have been proposed by the Council if the Pathological Society for election as Ilonorary Members of that body. Dr. Williams was the first President, and Sir Johu Simon is a past President.

Br the resignation of Mr. Watson Cheyne, a Researcla Scholarship of the British Medical Association becomes vacant. The scholarship is of the annual value of $£ 150$. Applications should be formarded at once to the Secretary at the offices of the British Medical Association, 429, Strand.

Sir Prescott Itentett, Bart., Consulting Surgeon to St. George's Mospital, and Sir Thomas Longmore, Professor of Military Surgery at the Army Medical School, were elected Associes Etrangers at the mecting of "the Academy of Medicine, Paris, on March $2 \overline{7}$ th. Doth gentlemen have been corresponding members of the Academy for several years past.

Mr, R. Bannister, F.I.C., F.C.S., is announced to give the Cantor Lectures at the Society of Arts; he will take as his subject Milk Supply and Butter, and Cheese Making. The first lecture will take place on Monday, April 9th, and will be continued on the two subsequent Mondays.

Mr. Benjamin Wainewriget was elected, on Wednesday last, April 4th, Assistant-Surgeon to Charing Cross IIospital. Mr. Wainewright received bis professional education at the University of Edinburgh, and is Assistant-Surgeon to the West London Hospital.'

THE new laboratory at the College of Surgeons is now in working order. It can be reached by a lift, a great advantage, as it is built very high above the level of the roof of the Museum. The rooms set apart for the preparation of specimens appear to be well adapted to the purpose for which they were constructed. The windows admit plenty of light, and there is no want of the necessary appliances for dissection.

## THE INDEX MEDICUS.

We regret to learn from the publisher, Mr. George S. Davis. Detroit, Michigan, U.S.A., that the Index Medicus, a publication which we have more than once noticed with approval, is still languishing for want of support. As a key to the books and articles on medical subjects published in the year, this publication seems to us to fill a useful purpose, and as such we should be sorry to hear that it had come to an untimely end.

## SMALL-POX IN ABYSSINIA.

THE following information as to the prevalence of small-pox in Abyssinia has heen received by the Exchange Telegraph Company. At Shea the anuual cpidemic of small-pox is said to be raging with great severity. The heir to the throne, Ras Muliecha, aged 25 ycars, is dead, also three other members of the Royal family. At Massowah the heat is said to he intense- $7^{\circ} \mathrm{C}$. in the shade. Tho sanitary condition is deplorable. Typhus is prevalent among the meu and the cattle. Water is scarce, and it will be necessary for the greater pertion of the ltalian expedition to re-embark for Europe.
\& MEDICAL HERO.
At the rnnual mecting of the Bristol Royal Incrmar, the l'resident stated that a memorial mindow had just been completed for the charnl in cowmemor: ton of tiee lecroic deed, fa jot:ny surgeon, Mr. W. Coumer f.rsagit, who lost his life in endeavouring to save a poor patient who liad unforgon the rperation of trache-
otomy while suffering from diphtheris. The window is in three, panels, representing incidents from the parable of the Good Samaritan, and it will be inscribed "To the glory of God, and in affectionate remembrance of William Conner Lysaght, who was horn May 7th, 1851, and died July 24th, 1887." Acts of medical heroisnı are not rare, and unhappily, a fatal issue in such cases as those has been repeatedly recorded.

## LESSONS FROM CARLSBAD FOR ENGLISH HEALTH RESORTS.

Dr. Yates Bainnmgge in the Droiteich Guardian reprints the third of the series of letters called "Spray from the Carlsbad Sprudel," by Mr. Ernest Hart, which was published in the Jocmant of Jamuary 17th. He takes as his heading "How Carlsbad ensures Suecess: n Lesson for Droitwich;" and, in reprinting the whole letter, he adds a series of observations in support of it, and asks the Droitwich eitizens whether they should, from sheer apathy and neglect, encourage sufferers from gout, rheumatism and kindred complaints to seek relief abroad while they have at their own door, at less expense, trouble, and worry, waters superior in every respect to foreign waters, and which (as was the case with Droitwich) performed cures whieh foreign waters had failed to do, at great expense and loss of time to the patients themselves. In calling the attention of the people of Droitwich to the suggestions in Mr. Ernest Hart's letter "for dispelling the cloud of duluess which darkens the future of this as of 80 many other of our health resorts," he expresses the conviction that the suggestions of Mr. Hart, if acted upon even in a modified sease, would greatly increase the number of risitors and ameliorate the lot of those who now from necessity visit Droitwich, besides bringing in a rich harrest to the town directly or indirectly, in place of the porerty now existing there.

## TANNIN IN THE TREATMENT OF TUBERCULAR 'DISEASE.

At the fifth meeting of the Società It tiliana di Chirurgia, recently held at Japles, l'rofessor Andrea Ceccherelli, of Parma, drew attention to the value of tannin in the treatment of local affections of tubercular origin. From experiments which he had made on animals, and from clinical experience, he believed it to be a powerful antiseptic, with a specific power of destroying the tubereular virus. IIe found that the addition of tannin prevented the putrefaction of animal tissues and fluids, and that decomposition was very cousiderably delayed in the bodies of animals which, while alive, had undergone a course of treatment with tannin. He had also found that whilst he could produce tubereulosis in eertain animals by the injection of phthisical sputa, or of tubercle bacilli, the injections produeed no bad effect when tannin was injected simultaneously, or was given internally every day for oome time. He had treated twenty patients suffering from tubercular diseases with tannin, both externally and internally, with rery satisfactory results. He therefore looks upon taanin as an excelleat remedy in tuberenlar affections of the bones nad joints; under its influence ulcers heal kindly, any tubercnlar formations that may already exist are destroyed, and generalisation of the disease is prevented. Dr. Ceeeherelli considers that tannin is much superior to iodoform in the treatment of tubercular disease, besides having the further advantage of being perfectly harmless.

THE HEALTH OF THE GERMAN EMPEROR.
IT is with the greatest pleasure that we learn by special telegram from Charlottenburg that the Emperor of Germany is going on most satisfactorily. Tho disease appears for the moment almost guiescent; there is no sign of its spreading, and the glands are not in the least involred. His Majesty's general health is excellent, aod his appearance shows no trace of illness or suffering, exeept
that his hair has become very grey. The position whieh Sir More Mackenzie took up from the first, and which he has steadfast maintained ever since, that no radieal surgical measures were a visable in the case, appears now to find more favour among $t \mid$ medieal profession in Germany than has been the case till quite late? The dibastrons results of several cases in which similar operatio have recently been performed seem to have opened men's eyes the magnitude of the risk to which the Imperial patient wou have been exposed but for the intervention of the Eaglish phys. cian, in whom he not unnaturally plaees such confideace. Th. our Berlin correspondent, who is in a position to know the fact informs us that Herr Kayser, a prominent member of the Soci Demoeratic party in the German Reichstag, died a few days al immediately after half of his larynx had been cut ont by Pr fessor ron Bergmana for cancer. We are also informed that 1 the eleven other patients on whom that distinguished surger has performed this severe operation hare since died. I Eugen Hahn, who has hitherto been the most successful ope ator in that line, has been equally unfortunate in his last to cases. Only the other day an operation of the same kind, pe formed by a leading London surgeon, resulted in the death the patient on the third day. In prirate one hears mention of ain lar eases which hare not yet come publiely before the professic These faets, in our opinion, quite independently of any oth reasons peculiar to the case, go far to juistify the course which h been adopted with regard to His Imperial Majesty. Sir Mor Mackenzie was to have returned to London on Tuesday ne: April l0th, but we understand that in eompliance with the urge: request of the Emperor he has agreed to postpone his departu from Berlin for a short time. Dr. Norris Wolfenden, who attend the Emperor professionally for some weeks during his stay England last summer, has gone to Berlin at the invitation of Il Imperial Majesty.

## ABDOMINO-VAGINAL COMPLETE HYSTERECTOMY FOR UTERINE FIBROIDS.

Prion to operation on a case of fibroide of the uterus recently the Lospital for Women, Mr. Reeves, in his remarks, stated to $t$ students and risitors present that he intended to adopt a ne plan which had occurred to him, provided that the relations the growth permitted it. If, ou opening the abdomen, the tumo proved to be an ordinary form of fibroid involving the fundus at body, and did not extend too far laterally into the broad lig ments, he intended to tie these on either side in two interlock ligatures, including the upper two-thirds of these struetures, an after applying pressure-forceps to their uterine side, to divi between. Then the peritoneal folds attaching the growth to ti bladder and rectum would be dirided well up on the tumour, as to form flaps in the pelvic floor when the growth was remove The ureters, bladder, and reetum would then be cleared from $t$ eervix until the vaginal mucous membrane was nearly reache when the raginal part of the operation would begin. This co: sists in separating the mucous membrane, as in raginal hyst reetomy. The uterine arteries would be compressed with forcer to be left on or tied aecording to eircumstances, and the uter removed entire. The pelvis would be cleansed, the serous fla placed in apposition, or stitched together if thought desirab). 'and a drainage-tube inserted per raginam. The subsequent trea ment would be as for vaginal hysterectomy. Mr. Reeres explain that his object in combining these plans was to do away wi the uterine stump and its disadrantages, such as seconda hæmorrhage, septicomia, dragging on the bladder and rectul and occasionally the risk of its slipping into the abdomen ar eausing peritonitis. The combined operation should occupy le time than supravaginal hyaterectomy with external treatme of the stump, as much time is taken up with trimming this al
suturing the peritoneum orer it. Seeing tbat the best results in the supra-vaginal operation have been obtained by extra-peritoneal treatment of the stump, and that the mortality is still a high one, any practical plan which will reduce the canses of death should be acceptable. The chief of these are now-a-days hæmorrhage, septicæmia, and peritonitis, and it is believed that the proposed plan will banish all but a possible traumatic peritonitis; and as in raginal hysterectomy for cancer this has been practically abolished, there is no reason-except, perhaps, the greater size of the growth removed-why the same favourable result should not follow the proposed operation. Complete remoral of the fibroid uterus by Freund's method has been done, but the results of his mode of operating have been far from encouraging. The combined plan suggested allows of free drainage and syringing of the pelvic cavity, and offers every element of operative success, while doing away with many drawbacks. The case mentioned proved to be one of pedunculated fibroids, the larger of which was impacted in the pelvis, and the specimens will be shown at an ensuing meeting of the British Gynecological Society.

## THE ROYAL SOCIETY.

The list of candidates for election into the Royal Society this year has just been issued to the Fellows. It contains sixty-one names. The candidates belonging to the medical profession are: Dr. Thomas Buzzard: Sir Charles Cameron, of Dublin; Professor W. H. Corfeld; Dr. D. J. Cunningham, Professor of Anatomy, Dublin; Dr. Douglas Cunningham, Professor of Physiology, Calcutta; Dr. Fr. H. Dickinson ; Dr. W. D. Halliburton, Assistant Professor of Physiology in University College; Dr. C. McMunn, of Wolverhampton; Dr. W. M. Ord; Dr. W. O. Priestley ; Mr. Alfred Sanders, F.L.S.; Dr. David Sharp, President of the Entomological Society; Dr. Thomas Stevenson; Sir William Stokes; Mr. T. Pridgin Teale; Dr. R. Thorne Thorne ; Professor C. M. Tidy; and Dr. Henry Trimen, Director of the Royal Botanic Gardens, Ceylon.

## STROPHANTHUS AS AN ANTIPYRETIC.

Dr. A. Rovtgri, of Bologna, in experimenting on the effect of tincture of strophanthus (prepared according to Professor Fraser's directions) in cases of cardiac disease, came to the conclusion that it was much inferior to digitalia and caffeine in its power of regulating disordered action of the heart, reliering dyspncea, and increasing the excretion of urine. He was, however, struck by the way in which it seemed to lower the temperature, and he therefore tried it in various febrile affections with very satisfactory results. Thus in four cases of pulmonary phthisis in which for months there had been considerable pyrexia, and in which other antipyretic remedies were uselcss or were hadly borne by the patient, tincture of stroplanthus in doses of from four to six minims every six hours reduced the temperature by two or three degrees. In $\Omega$ lad suffering from tubercular dizease of the intestine with peritonitis, with a temperature of from $40^{\circ}$ to $40.5^{\circ} \mathrm{C}$., three minims of the strophanthus tincture every six hours brought the temperature down to $37.5^{\circ}$ in the course of $t$ welve hours, and as long as the remedy was continued, the temperature never rose beyond $37.8^{\circ} \mathrm{C}$. In a paticnt with tubercular disease of the left hip, a pyrexial temperature of $39.7^{\circ} \mathrm{C}$. fell to $37.2^{\circ}$ after the administration of fifteen minims (five cvery six hours) of tincture of strophanthus. In a case of typhoid fever in the second week four to six drops every six hours lowered the temperature hy two degrees. In all these cases the drug eased headache. lessened the quickness of the pulse, and produced a feeling of comfort in the patient, and did not in any instance give rise to symptems of collapee, nor to disturbance of the gastro-intestinal canal, ner profuse sweating. Dr. Rorighi states that these clinical observations were confirmed by experiments on rabbits, in which
tincture of strophanthus in doses of ten or twelve minims lowered both the gencral and the local temperature to a very markal degree. On the other hand, Dr. V. Martini, of the U'niversity of Siena, has (Sul Valore Antipiretico dello Strofanto, Siena, 1888), tested the alleged antipyretic properties of strophanthus with absolutely regative results. He used a tincture propared ly Meerch, of Darmstadt, of the same degree of concentration as Fraser's, and also one made by Messrs. Burroughs, Wellcome, and Co. according to Professor Fraser's latest formula. Ife tried it in cases of phtbisis, tubercular peritonitis, broncho-pneumonia, acute rhcumatism, erysipelas of the face, acute purulent cystitis, and hysterical pyrexia. From ten to fifty drops were giren daily in three, foor, or more doses at regular interrals. The thernometric readings were carefully noted every three hours for three or foir dags before and after each experiment, as well as during the coarse of it; in some cases the temperature was taken every hour whilst the drug was being administered. In the majority of cases no effect whatever on the temperature was obserred; in a rery few instances there was a slight fall, extending only to some fractions of a degree, which was followed almost immediately by a return to the former level. Dr. Martini concludes that strophanthns has not the slightest value as an antipyretic.

FEVER AND SANITARY, DEFECTS AT BUCKINGHAM. THE sanitary authority of the little town of Buckingham has just been awakened by an outbreak of typhoid ferer to the conclusion that the general sanitary condition of, the locality is not so satisfactory as it should be. For some years past Mr. De'dth, the medical officer of health, has drawn the attention of the authority time after time to the need for improvement in the sanitary arrangements, but, as a member remarked at a recent meeting, his reports have been ignored. He has pointed out that the drainage is in many respects defective; that, although the water supply is good at its source, he could not feel certain that in the course of its distribution it might not become fouled by the leakage of some faulty drains; that in many cases the closet accommodation is not what it ought to be, that the scavenging needs to be better done so that the accumulations of filth at present to be found round about dwellings might disappear. - In fact, the town needs a general cleaning up and putting in order, and afterwards a careful supervision, in order to secure a wholesame state of things. The Local Gorernment Board hare been appealed to for an immediate inspection, but surely in these âays of local selfgovernment that is a sign of weakness and unnecessary panic. The facts are admitted by the Mayor and other members of the Town Council, who have verified them by personal inspection. They have been reported many times by the responsible health officer. What adrice can the central authority gire in such a case except to clean up the district, put the drainage in proper order, protect the water supply, and establish a system of frequent and periodical remoral of filth and refuse? It is strange that the outbreak of disense, with its attendant misery and expense, should so frequently be required to sccure improvement of defective local hygicnic arrangements.

## COCAINE POISONING.

Is the Fratch, No. 4, 1888, p. G4, Dr. Nikolai M. Unkorsky, of Moscow, relates the case of a strong man, aged 56 , suffering from hydrocele, in whom the hypodermic injection of two Pravaz syringefuls of a 4 per cent. solution of hydrochlorate of cocaine was followed in a few minutes by intense excitement, agonising pain along the spiue (especially in the lumber region), giddinese, blanching of the skin and mucous membranes, dryness of the month and throat, weakness of the pulee and voice, paroxysmal dyspnoca, failure of sight, prostration, and complete inability to move the limbs. The patient's state rapidly growing worse, Dr. Unkovsky resorted to free inhalations of amyl nitrite (recom-
mended as the best antidote to cocaine by l'rofessor W. F. Grube, of Kharkor, and Dr. Schilling-see Journal, rol. i, I887, (pp. 695 and 1401) and subcutancous injections of ether. The syruptoms gradually disappeared in ahout an bour and a half. The total quantity of amyl nitrite inlialed (from a piece of cotton wool) in the course of an hour nmounted to nearly one gramme while three syringefuls of ether were injected. The operation for hydrocele (injections of a 4 per cent. carbolic solution, etc.) was absolutely painless. Dr. Unkovsky also saw a case in which mental disturbance occurred an hour after the injection of half a syringeful of a 20 per cent. solution of the alkaloid into the gum. In another patient, an injection of a syringeful of a 4 per cent. cocaine solution under the skin of the leg gave rise in about six hours to giddiness, suffocation, slowness of the pulse, pallor, and faintness.

## INHALATIONS OF HYDROFLUORIC ACID IN PHTHISIS.

Sbraral French physicians have been trying the effects of inhalations of hydrofluoric acid gas in the treatment of pulmonary tuberculosis. Several methods of administering the gas have been suggested: probably the simplest form is that brought before the Therapeutical Socicty of Paris by M. Constantin Paul. M. Paul uses an ordinary wine bottle, containing a solution of fluoride of ammonium of the strength of two parts to a thousand. The bottle is closed by an india-rubber stopper with two holes, through which pass two glass tubes, one of them passing nearly to the bottom. The patient is directed to take from fifteen to twenty deep inspirations, and the acid smell of the acid is distinctly perceptible in the expired air. In this way the patient not only derives bencfit from the powerful antiseptic"qualities of the vapours, but he exercises the lungs. M. Paul is unable to explain how the gas comes into contact with surfaces which are protected by mucus, but he claims to have met with considerable succossin several severecases of pulmonary excavationand bronchiectasis. Under this trentment patients regain flesh and strength, and the malady appears to be arrested for a time in its course.

## MULTIPLE ABSCESSES IN SUCKLINGS.

Srveral authorities have noted the frequency of abscess in inlant lifc. Hensch bas shown that suppuration of the connective tisaue is eapecially marked during the first years of infancy. He refers to the multiple abscesses which appear simultaneously and successively in many parts of the body without appreciable cause. The younger the child the more frequent are the abscesses. He believes that there must be a distinct suppurative diathesis. Dr. Bouchut attributes this frequent suppuration of tho subcutanons tissue to three diatheses: first, the puerperal diathesis; accondly, struma; and thirdly, syphilis. The latter two conditions are well known; the former is seen when a mother has continued to suckle her child after the appenrance of aymptoms of puerperal fever. In a case of this kind the child was aeized with erysipclas a weck after weaning, it having been weaned when eight days old. After the aubsidence of the erysipelas, abscesses developed in the arm, abdomen, elbow, knec, breast, foot, etc.; they were opened, but more appeared, and tho child was not well till the chird month. Dr. Roulland, of Niort, has ;recently written on this subject in the Annales de Gynécologie. IIe observes that Hensch and Bouchut alone have considered the question in a siontific manner. He concludes that subcutaneous multiple abscesses are seen in sucklings, and appear to be traceable to aoveral causes. Hereditary taints, syphilis, and acrofula especially, aro decided sources of the nffection. There remains a more important and ossential form, Bouchut's puerperal diatheais. Dr. Roulland believes tlat be has proved auto-infection in a case of green diarthœas at least. The child, aged six weeks, was closely
watched and kept scrupulously clean; the mother was in robust health, and continued to suckle her child, but, the milk diminishing, the child was allowed too frequent use of the bottle; this had set up diarrhoa. Dr. Roulland succeeded in curing that dangerous complication, and persisted in secing that the child was kept clean. Ilowever, abscesses frecly formed. Three months after recovery the child was again seized, with diarrhon, though it had been carefully brought up. During convalescence, frosh abscesses formed. ' The infant ultimately recovered. De. Roulland believes that this patient must have been infected by the absorption of noxious alkaloids formed in the intestines. True infection from without may follow the ingestion of milk from a mother stricken with puerperal fever, or may result from erysipelas, or suppuration of the atump of the cord. Dr. Roulland also quotes the important researches of Dr. Escheric (Centralblatt fïr Kinderheilkunde, No. 2, 1887), who declares that in all children at the breast, whether they be well or ill, the staphylococcus albus and the staphylococcus aureus are constantly to bo found in the liver and in the more superficial layers of the epidermis. These pyogenic germs can enter the sebaceous and sudoriparous glands, and set up inflammation. Of course they more usually enter through a breach of surface, which is so common in the tender integuments of an infant. Throughout his memoir Dr. Roulland uses the term "nourisson" indiscriminately for all infants at the breast, whether suckled by their own mothers or by wet nurses. Some of the worst cases which he describes were nursed by their mothers, who were in many cases quite healthy. From the case above quoted every practitioner will draw the natural conclusion that in many other instances the bottle, and not the breast nor the binder, is to blame.

## SCOTLAND.

## PRESENTATION TO PROFESSOR CLELAND OF GLASGOW.

Immediately after the close of the winter session of the medical classes at the University, the students assembled in the Anatomical Theatre and presented Professor Cleland with aeveral very handsome pieces of silver plate on the occasion of his approaching marriage.

## PRELIMINARY EXAMINATIONS.

THe half-ycarly preliminary examinations in general education for degrees in medicine and acience in the Unirersity of Glasgom were beld last week, simultaneously in the examination hall of the University and in the Unircrsity College of North Wales Bangor. There were in all 482 candidates, being the largest number ever entered for these cxaminations. At the medical preliminary examination beld by the raculty of Ihysicians and Surgeons there were seventy-five candidates.

ANDERSON'S COLLEGE DISPENSARY, GLASGOW AT the annual meeting the directors reported that during the past year 3,149 visits, comprising 1,291 new cases, liad been madn to the aick poor, and that 12,106 new cases had attended the dispensary.' In addition, the dispensary has undertaken the visitation of the pensioners on the outdoor fund of the Association for the Relief of Incurables. These, during the past year, numbered about 150 , and were attended by the students of the College under proper supervision.

DR. THOMAS KEITH'S REMOVAL TO LONDON.
It is announced that Dr. Thomas Keith has made arrangements for removing to London shortly. Though it lias often been rumoured that the distinguished surgeon meditated such a change, little attention has bitherto been paid to the atatement But now the announcement comes with startling uncepectedness.

It seems but yesterday since the fact was formally published that Dr. Keith had obtained funds which enabled him to institute an Bdinburgh IIospital for Women, to be practically under his own management. Apparently this project has been abandoned. BJ the removal of Dr. Thomas Keith, the Edinburgh schnol loses one of its most striking figures, and the Royal Infirmary one of the most distinguished members of its staff. The position Dr. Keith has for many years occupied in the public mind, as well as among his professional brethren, is so completely unique that the blank will not easily be filled. No one is more generally respected, and no one is more derotedly revered by the few who lave been permitted to know him 'rell. It is with much reluctance that Elinburgh releases another of her farourite sons for further trinmphs in the wider field of the metropo!is.

## MEDICO-CHIRURGICAL SOCIETY, GLASGOW.

 AT a meeting of the surgical section, Dr. Knox showed a patient on whom he had successfully performed the old operation for ruptured femoral aneurysm. Drs. Knox and Deatson showed a patient who had suffered from donble jopliteal aneurysm, the larger having been cured by compression of the common femoral by Dr. Knox, the other at a later date by ligature of the superficial femoral by Dr. Beatson. Dr. Beatson also showed a patient suffering from femoral arterio-venous aneurysm and two card specimens, a large parowarian cyst, and an old intracapsular fracture of the neck of the femur.TUBERCULOSIS IN RELATION TO FOOD SUPPLIES. The Medico-Chirurgical Society of Edinburgh, at its last meeting, agreed to memorialise the l'rivy Council on the subject of tuberculosis in relation to the supply of meat and milk, with the prayer that the matter may receive early and full consideration, and such measures be adopted as the frave issues demand. The Sucicty has also under consideration the advisability of addressing the local authorities on the subject of the better inspection and ventilation of cow-houses and dairies. An evident difficulty in connection with this latter move is the necessity that such a system, to be effective, must be more general than can be ensured by the city authorities.

## CLINICAL EXAMINATIONS AT EDINBURGH UNIVERSITY.

The Board of Examiners of Edinburgh University has arlopted certain suggestions for the conduct of the final examination for the M.B. degree which will be received with much satisfaction by candidates. The new arrangements are of the most commonsense description. In place of the clinical examination in medicine dragging its weary length through six weeks it will be cempleted in a fortuight. The system of examination will be no less thorough than formerly, but students will not bave their mental powers kept in the state of very uncertain equilibrium through six long weary weeks. The regular summer clinical instruction also will be less disturbed. It is to be lioped that similar arrangements will be made for the surgical side of the examination, which, it is announced, will he made more stringent.

## ST. MUNGO'S COLLEGE BILL.

Trme managers of the Glaegow Royal Infirmary have issued a statement in favour of this Dill. They dwell on the size and importance of the infirnary, and briefly but pointedly state its history. Contrasting the large numbers of students that used to be trained within its walls and the small numbers that now attend, they attribute the decline to the removal of the university westwards, tho opening of the Western Infirmary close to the new university, tho impossibility of a student now obtaining a degree at St. Andrews as could be done before 1862, and the facilities
for obtaining degrees in England by the afiliation of the Newcastle School to Durham University, amI by the colleges of the Victoria Lniversity. The statement emphasises the value to a hospital of the attemdance of students in numbers, and points to the overcrowding at the Western Infirmary: It expresses the willingness of the managers to grant to the proposed college the nse of the buildings at present accupied by their medical school, and of the furniture contained in them, so that, without forther endowment, the new college might start fully equipped.

ABERCROMBY STREET INDUSTRIAL SCHOOL, GLASGOW. A futimer report has been made by Dr. J. B. Ruszell on the extraordinary epidemic among the boys in this school, from which Te learn that $\mathrm{n}_{\mathrm{p}}$ to this date there have been 4 deaths in the institution, 27 boys and 2 grirls have been remored to Belvedere, and 31 boys are more or less ill, being a total of 64 attacked. The occurrence of the two cases among the girls gave rise to great arxiety, because both were employed in the kitchen, and one had a brother who was one of the first attacked among the boys, and the mother had more than once gone from visiting her son to see her danghter. These circumstances were strongly suggestive of infection, but the girls were promptly removed, and there has been no more illness among them. As regards the nature of the disease, the opinions of those who have observed it are still at variance. Of hitherto defined diseases "influenza" of a malignant type, and "infectious pneumonia" are the only choice. Something may be said both for and against each, but whether this ontbreak falls under either denomination, or arises from some new septic poison, or from some other known septic poison acting under circumstances of special local aggravation, cannot be discussed till all the lines of inquiry are completed. Whatever may be the ultimate diagnosis, we are driven back upon the local insanitary condition. There is a blood-poison of some sort which is either created or intensified by these conditions. Much public attention has been directed to the grareyard besile the institution, especially on account of the cholera pits of 1849 therein. But the graveyard is only one item-a serious item, no doubt-in the aggregate of insanitary circumstances. It has been found that tobacco chewing was much practised by the boys, and, while such a practice could not canse a febrile disease, it may be added to the other causes of depressed vitality which render these boys ready victims to disease. Dr. Anssell further refers to similar outbreaks that have occurred from time to time in similar institutions. Ten years ago there was an outbreak in Werthorn Roman Catholic Reformatory for Boys, in which two boys died rapidly. In January, IS87, there was an outbreak at Birlidale Roman Catholic Reformatory for Boys, in which twenty-three were affected and three died. Dr. Seaton, of the Locnl Government Board, has also described a febrile epidemic disease that broke out in a Roman Catholic school for boys near London, and caused lui illnesses and 7 deaths, some as rapidly as in the present instance. and with almost identical symptoms. In all these cases doubts as to the nature of the disease did not prevent the inference that obvions local insanitary circumstances were the cause.

PIT BURIAL AT DALBETH, NEAR GLASGOW.
The Barony Tarochial Board, as local anthority, have been investigating the mode of interment, called "pit burial," at Dalbeth Cemetery, of which Dr. James A. Adans has complained as a nuisance and dangerous to the health of the immates of the neighbouring Roman Catholic convent. Dr. Christie, the medical officer of the board, has visited the cemetery; and condemns the system most strongly. Ile says that the burial pits at present in use are 12 feet deep, $7 \frac{1}{2}$ fect long, and 6 feet wide. The pit is dug into from 4 to 6 feet of the original stiff clay soil, the upper portion boing madeup soil. A layer of coftins is placed on the bottom, and sprinkled
over with a little earth, then nother layer of cofling, and so on, until the pit is filled to abont 3 feet from the surface, when it is covered over with stiff clay. Bach pit, when full, will contain about 3 adult bodies, nul about tho same number of children, making about 70 in all. The pit inspected had been but recently opened, and in the space of half an hour Dr. Christie witnessed 5 interments therein. The pit system has been in vogue since 1863 , when the cemetery was opened, but at first and for several yoars the pits were much smaller than those now in use. No offensive odour could be detected on going round the pits and over the ground, but the treather was cold and unfavourable to decomposition, and it is hardly possible to conceive that these pits during the hot dry weather of summer could be inodorous. Dr. Christio further insestignted the causes of deaths that hare taken place in the neighbourhood of the cemetery since 1881, but he has failed to connect any of them with the insanitary state of the cemetery. The question of deaths in the neighbourhood, however, is comparatively immaterial ; for those who attend the funcrals are most exposed to tho danger, and there may be cases of severe illness without death. According to the Publie ITealth (Scotland) Act, 1867, "any churchyard, cemetury, or place of sepulture, so situated or so crowded with bodies or otherwise so conducted as to be offensive or injurions to health, may be treated as a nuisance, and shat up or regulated on sufficient proof being laid before the sheriff by the local authority of the place in which the graveyard is situated." Aecording to the Burials Act, it is in the power of the local authority to shut up or regulate all graveyards which are " conducted in such a manner as to be clangerous to health, or offensire, or contrary to decency." Serenty coflins disposed of within the space mentioned, and covered with three feet of clay, is a muisance within the meaninglof these Acts, and such a nuisance exists at Dalbeth.

## IRELAND.

THE LABOURERS ACT: CELBRIDGE UNION.
Last week Dr. Hayes made an application to the board of guardians for a remuneration of ten shillings a house for each honse inspected by him under the Labourers Act. The guardians, however, considered this too much, and unanimously passed a resolution awarding him half-a-crown a house, which Dr. Hayes indignantly refused, and the matter has been referred to the arbitration of the Local Government Board.

## TRINITY COLLEGE: LECTURESHIP ON MEDICAL JURISPRUDENCE.

Os Saturday (to-rlay) the Board of Trinity College will proceed to the election of a successor to the late Dr. Travers, Leecturer on Hedical Jurisprudence. Among the candidates mentioned are Dr. Quinlan, Dr. F. MacDowel Cosgrave, Dr. Pratt, Dr. Bewley, and Dr. Auchinleck.
THE LOCAL GOVERNMENT BOARD INSPECTORSHIP. As yet there is no oflicial ennfirmation of the statement that Dr. Fdrord Thompson, of Omagh, has been appointed inspector under the Local fiovernment Board. It is, however, generally believed that he has been selected, snd alrendy numerous candilates are in the ficld for the rarious offices held by him.

## BELFAST WATER SUPPLY.

Tite: controversy which has been waged thring the past winter regarding the quality of the wator supplicel to the inhabitants of Belfast may he regariled as finally set at rest by the reports recently presented to the Belfost Water l3oard by Dr. Tidy and Dr. Davis, of Netley. When public attention was first drawn to the alleged impuritice of the Belfast water, the Water Commissioners
obtained the scrvices of Dr. Tidy, who came over and personally inspected the water sources, the reservoirs, the puhlic fountains, and the supply to prirate houses. He brought away samples of wator for examination, and the results of his analysis are now presented to the pullic. He states that, while the quantity of organic matters in the Belfast waters is rather bigh, "he has no hesitation in advising the Commissioners that this organic matter is of regetable and not of animal origin, and that it is of a perfectly harmless and innocuons nature. The dissolved organic matter is less than is often to be found in the much-lauded Loch Katrine water, and, all told, nmountss to less than one grain per gallon." Ho also reports favourably regarding the state of the water sources, and believes that the Commissioners have not been guilty of any negligence in the past in their choice of feeders for the rescrvoirs. He advises that the water should be filtered, rather to improve its colour and appearance than to arert any positive danger. The report of Dr. Daris is similar in tone. " These reports from such competent authorities will finally reassure the public mind, which had naturally been disturbed by the very alarmist statements made both in the press and in the Belfast Town Council. These statements were believed more readily than would otherwise have happened, owing to the fact that the death-rate of Belfast has been abnormally high during the past winter, and the blame was not unaturally cast upon the alleged defects in the water supply.

Metifods of Executing Criminals.- The committee of the
Medico-Legal.Society of New York, to whom the subject of the best method of executing the death penalty was referred for consideration and report, has had under its consideration some important papers dealing with this subject, by medical men and others who have given :special study to it. The suggestions made by the committee in their report, which have been approved and adopted by the Medico-Legnl Society; include the following:-That hanging should be abolished as crucl, and contrary to the public sense of our civilisation. That as a substitute for the present death penalty they recommend-Death by the electric cnrrent ; or, death by hypodermatic, or other injection of poison; or, death by carbonic oxide gas injected into a small room in each gaol, as recommended by Prof. John II. Packard (Med.-Leg. Papers, rol $3, p .521$ ), giviug rireference to the first, or death by electric curreut. In their judgment executions should be private, and not pmblic, for if it was possible to prevent the publication of details of cxecutions in the public-press, it would be $\Omega$ public good. A further suggestion is that the bodies of criminals shonld be delivered to the medical schools after execution for dissection. No opinion is expressed by the committee as to the propricty of inflicting eapital punishment by the State, as to which there is a strong opinion of the popular mind. This report bears the signatures of the following members of the committee: R. Ogden Doremus, Clark Bell, J. Mount Bleyer, M.D., Chas. Fi. Stillman, M.1)., Frank H. Ingram, M.1.

Domestic IIrairne. - An intercsting course of lectures has just been given at the Parkes Juseum by Dr. Schofield on Domestic IIygiene. The leetures were addressed especially to ladies, and the goorl attendance and great attention showed that the lectures met a want that had been mueh felt. After the lecture on March 16th on "Hoys and Girls," some specimens of reasonable or, as it is called, rational dress combined with beauty were shown, and a capitai demonstration of the value of improred physieal culture was given by Miss Chreiman, and, after the fifth lecture on "llome Nursing," an illustration of the mode of lanadling a patient in bed under various circumstances was given by two trained hoepital nurses. The lectures will be foliowed by in examination in the subjects lealt with, and II. R. II. the Duchess of Aibany, Patroness of the museum, has consented to distribute the certificates to the successful candidates on May 5th.

Regismation and Examination of Plumbers.-The Registration Committee of the Worshipful Company of Plumbers received at the Cinilathall on Wednesday the first nominations for the registration of Plumbers in Eliulurgh and the East of Scotland. They were forwarded by the Conncil recently formed in Edinburgh, under the presiclency of Sir Douglas Maelngan, M.D., to extend the registration system in that district of Scotland.

## PETITION TO THE HOUSE OF COMMONS AGAINST THE TANATION OF HORSES OF MEDICAL PRACTITIONERS.

IT is suggested that the following, or some similar, petition be addressed by every medical practitioner who desires to oppose the imposition of thotax, to the member of Parliament for his district, with a request that he will present it and support its side of the paper only if on one sheet of paper, and on one Commons, and the wrapper marked Petition, it does not need to be stamped.

## Ernest lfart,

Chairman of the Parliamentary Bills Committee, British Medical Association.
To the honourable the House of Commons in Parliament Assembled.
The petition of your petitioners humbly sheweth-
That in view of the proposal in the forthcoming Budget to impose a horse tax and incrense in the carriage tax, a grievous burden will be inflicted upon members of the medical profession, who have often, in discharge of their duties both in the public service and in private practice, to trarel long distances-such as, in many iustances of rery unremunerative work, necessitate the nise of a horse and rehicle.
That as such horses and rehicles are nsed for the exclusive purpose of the performance of such duties, or other purposes in connection with the conduct of medical practice, We humbly pray your Honoura ble House to amend or rescind this clause, as introduced hy the Chancellor of the Exchequer. Which will have an oppressive effect on the performance of the duties of the medical practitioner, and tend to injure the interests of the health of the community.
And your petitioners will ever pray.

## RECURRENCE OF MALIGNANT GROWTHS AFTER REMOVAL.

AT the recent meeting of the French Surgical Congress perhaps the most important question discussed was the recurrence of malignant growths after extirpation. M. Cazin, of Berck-surMer, introduced the subject by giving a summary of the results of operations which he liad performed from 1862 to 1886. During these twenty-four jears he had removed no less than 564 tumours, including myxomata, chondromata, and sarcomata, besides true cancerous growths. In 102 cases of scirrhus of the breast there was secondary glandular affection in 60 ; of these I were permanently cured, in 48 recurrence took place, 3 died, and in 2 the result was unknown. Among the remaining 42 cases, in which the glands Fere unaffected, there were 8 cures. 28 recurrences, 2 deaths, and 5 were lost sight of. In 120 cases of encephaloid, the glands were inrolred in 80 ; of these 5 were cured, the disease returned in 67 , 4 died, and 4 could not he traced. Thus in a total of i22 cases there were 22 , or 12.6 per cent., permanent cures. Taking the scirrhus cases separately, we find that the total number of cures was 15 , or 14.7 per cent.; but of those in which the glands were affected, only 7 out of 60 . or 11.66 per cent., were cured, while of the others, in which the disease was limited to the breast, permanent cure was obtained in 8 out of 42 . or a fraction over 19 per cent. Among the 120 cases of encephaloil, 13 , or 10.8 per cent., were cured; but of the 80 in which the glands were incolved, the proportion of cures was only 5 , or 6.25 per cent., whilst of the 40 in which there was no glandular enlargement, no fewer than 8 , or 20 per cent., were cured. la the eases in which recurrence took place, the disease returned from three months to seven years after the operation; this statement, it is to be presumed, applies to the whole mass of cases taken together, and not to the cancer group alone. 1. Cazin is right, we think, in looking upon these results as fairly satisfactory in the present state of surgieal science, and he attributes his success to the freedom with which he remores apparently healthy tissues surrounding the growth, and to the care with which he seeks for and remores, not only dispased glauds, but the lymphatics betreen them and the tumour. He is got content with exploring the axilla, but makes minute search
in the subclaricular region, behind the claricle, and in [tho supraclavicular fossa.
11. Verneuil, whilst laying stress on thorough-going methods of operating, drew attention to a point which he considered of the utmost importance in the prevention of recurrence after extirpation. fle said that when a cancerous tumour was removed, some sceds of the disease were, in the vast majority of cases, left behind, which sooner or later developed into a fresh growth. This, however, did not as a rule take place for some time after the operation, and during that period the morbid process was in abeyance. That was the time, in his opinion, when the morbific elements being in an inactire state, there might be some chance of destroying them or eliminating them from the system by internal medication. Thus a prolonged course of alkaline treatment (Vichy water, magnesia, etc.), together with arsenic, should be tried after operation, with the view of neutralising the gouty diathesis, which M. Terneuil believed to be the predisposing cause of cancer. Again, as it had been shown by Il. Reclus that cancer was all but unknown among persons whose food was exclusively regetable, this fact might afford a useful hint as to diet in the prevention of recurrence. 3. Verneuil, allucling to the increased prevalence of cancer at the present time, said that when he mas Lisfranc's house-surgenn, in 184, that enthusiastic operator had only tro or three cases of cancer of the anus or rectum in the course of the year; to-day, M. Ferneuil, at the same hospital and with the same number of patients, had on an average fifeeen such cases come under his hand sannually. The same might be said with regard to the breast, the lip, and the tongue; in fact, there were three or four times as many cases of cancer now as there were forty years ago. He believed that this was largely due to the carnitorous habits of diet of the present generation. Whilst speaking of the length of time that cancer might remain latent in the system, M. Verneuil mentioned the case of a lady from whom, thirty-four years previously, he had removed a tumour which was examined after the operation and pronounced to be cancerous. Thirty years afterwards the disease recurred in the scar, and was again extirpated; the microscopic examination completely confirmed the former diagnosis.
M. Labbé agreed with M. Yerneuil as to the probable adrantage of post-operative treatment with arsenic and alkalies; he was also disposed from his experience, extending orer many years, to place some reliance on tincture of condurango as a preventive of recurrence.
M. Galezorski confirmed 3f. Verneuils statement as to the increased frequency of the occurrence of cancer from the field of ophthalmic practice. We had, during the six years that he was assistant to Desmares, seen only one or two cases of melanosarcoma of the eye; he now saw on an average six every year.

1. Mollière, of Lyons, said that the great point to attend to in estimating the probability of recurrence was the patient's age. If he were roung, the disease was so certain to return, that he doubted whether it was worth while to operate; after 50 there was a fair chance that recurrence might not take place, after 70 it was almost certain that the patient would remain free from the disease.

## ASSOCIATION INTELLIGENCE.

## COUNCIL. <br> NOTICE OF MEETING.

A Meetring of the Council will be held at the Offices of the Association, No. 420, Strand (corner of Agar Street), London, on Wednesday, the 18th day of April next, at 2 o'clock in the afternoon. Francis Fowie, General Secretary.

## March 15th, 18SS.

## NOTICE OF QL゙ARTERLY MEETINES FOR ISES. ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualificd by any br-law of the Association, who shall be recommended as eligible by any three merabers, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will he held on April 18th, July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the

General Secretary not later than twenty-one days before each meeting, namely, June 27th, September Déth, and December 28th, 1888.

Candidates seeking election by a Braneh Council should apply to the Secretary of the Liranch. No member ean be elected by a Branch Council unless his name has beeninserted in the circular summoning the meeting at which he seeks election.

Frascis Fowie, General Secretary.

## COLLECIIVE INTESTIGATION OF DISEASE.

Tirs Report upon the Connection of Disease witil Ifabits of Istramerasce, which was presented to the Section of Medicine in the Annual Meeting of 1887 will shortly be published in the Journal.

Reports npon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribution of certais Diseases, aro in preparation, and will be published as soon as ready.

The following inquiry only of the first series remains open, namely, that on The Etiology or l'mimsis.
A fresh inquiry into the Origin and Mode of Propagation of Epidemics of Diphtheria has been issued.
Memoranda upon these subjects, and forms for recording observations, nay be had on application to the Secretary of the Collective Investigation Committee, 420, Strand, W.C.

## BRANCII MEETINGS TO BE IIELD.

Mrtropolitay Convige Brascit: Fast Londoy and South Essex Dis-
trict,-The next meeting will be held on Thursday, April 19th, at the Iackney TRICT. -The next meeting will be held on Thursday, April 19th, at the IAackney
Town IIall, at 8.30 p.M. The ehair will be taken yy F. M. Corner, Fsq. A paper on the Surgery of Abseess will be read by llowaril Marsh, Esq. Visitors will be welcome.-J. W. ILuxt, IU\&, Qucen's IRoad, Dalston, IIonorary Secretary.

WFst Snserset Rrasch.-The spring meeting will he held at the Railway Ilotel, Tannton, on Thursday, Aprll 12 h , at 5 P. M. Dinner at 5.30 P.M. The subject sottled by the Councit to be liscussed after linmer is Done Setting. Mr. W. J. Penny. Assintant-Surgeon to the Bristol General Ilospital, and Demonatrator of Anatorny to the Irristol Medical School, has kindly promiser to come and open the discussion. The election of representative of the Branch on the Counefl of the dssmelation for the ensuing year will take place at this meeting. - W. M. Kelly, M.D., Taunton, Monorary Secretary.

Sorta-Eastery Mranci: West Feat District.-The next meeting of this Distriet will take place on Friday, Aprll 27th, at the Hospltal, Gravesend, IR. J. Bryden. lisq., in the chair. Genilemen desirous of reading papers or exhibiting specimens are requested to inform the ILonorary Secretary of the District not
later than April $8 t h$. Further particulars will be duly announced.-A. W. later than April 8th. Further particulars will be duly announced.-A. W.
Nankrvel, F.I.C.S., St. Bartholomew's Ifospital, Chatham, Honorary Secretary.

Nortit of Exgland Brasctr.-The spring meeting will be hell at the lnfirmary. Sunderland, on Welnesday, April 25th, at 3 P.M. Members intending to read papers or how speclmens are requested to communicate at once with the secretary. The dinner alter the meetlog will take place at the Queen's 1Lotel, at soclock. The lollowing papers are already promised:-I)r. Ifume: A Case of Congenital Fistula of the Stomach, Cureal by Operation. Dr. Coley : On the Treatment of Eifusion into the Pleura In Chiliten. Dr. Minrphy : A Man 323 Days after Gastrostomy. Dr. Ollver: Notes on an Unusual Case of Mæmathrib-G. F. Winhiamsox, F.R.C.S., 22, ELdon Square, Neweastle-anTyne, Ilonorary Secretary.

North of Irfiasin Brasch.-A general meetlag of this Branch will he held in the Royal llospital. Delfast, on Thursiay, April Jgth, at II A.m. Dr. John affertions. I)r. O'vipll will show two patlents min whom he operated for Con-
 fessor Sinclair will report upon a Successful Jejumal linterectomy performed on tha day of thin Last Branhl meeting, and exbiblt tha scgment of infestine excisel. Dr. Burien will show a seriey of Mlicroscopic Ireparat ions of Tumours. Dr. Ilyers will show an Gvarlan Tumour whlels de suceresfully removed.-Joar WF. BYERs, M.D., Lower Crescent, Belfast, ILonorary Secretary.

Oxforn ist 1)istrice Praxart. -The nest meeting will be held st the RadMiffe Intirmary, Oxfoni, on Friday, April 27th, al 3 p.M. Fistleo of papers to Le read nuat ite sent to W. Lewis Morgan, 12 , Brond Streot, Oxford, on or hefore April isth. A dinmer will he provinled for those members who signify thelr intention to iling to tha Seerrtary two days before the meeting.-S. D. Darnisniaf, and W. Lewis Morgar. Jionorary Secretarles.

Snetitmy liraym: Sotemavpton District.-The next meeting of this Misfrict will ho himd on Tuesday. Apri! loth, 1Ras, at the realdence of Dr. Jaripan, C.B., 23. Carlton Crescerit, at 8 P.s. Business : Wilentfon of officers. Fassing of arcounts At the same time o joint meeting with the Southampton Meelleal sindiny will take place, when a japer wlll be reail by Brgaice-Surgeon
M. Buckell will bring upder nofice a ease, with specimen, of Monster Birth. Association and liraoch subscriphions for eurrent year, amonnting to il 3 s . 60. .
became due on January Ist, and may be path to tho Honorary Secretary as soon became due on January Ist, and may be paid to the Honomary Secretary as soon
as convenieut.-Thiopi. W. Trevn, M. D., Honorary Secretary, 6, Anglesea Place, Southampton.

Southery Rraycti: South-Tast Ilants District.-Orilinary meetiog at the Groswenor llotel, Queen's Gate, Southsca, ou Thursday, April Ihth, isas. The chair will be taken by the J'resillent, Dr. James Watan, at 4.15 p.N. Gentlemen who are desirous of introducing patients, exhihiting pathological specimens, or making communications are requested to slguify their intemiton
 charge, 5s., exclusive of nine, etc.-J. Wand Couscrs, lloworary Secrotary.

Souta Walfs asd Monamouthsmiae Bravch.-The spring meeting of thts Brameh will be held at Pontypridd, on Friklay, April 13th, at 12.30. B'apers promiset:-J. F. Fry: A Case of Excision of the Thyroid. J. Amallt Jones : A Case of Gidema of Hand, with Specimen. J. Tatham Thompson: On Detachment of the letina.-Alfrfi, Sheey, M.D., Cardiff; D. Arteur Davies, M.B.. Swansea, Honorary Seeretarles.

## ABERDEEN, DANFF, AND KINCARDINE BRANCH.

A mefincg of this Braneh was held at 108, Union Street, Aberdeen, on Wednesday, Mareh 21 st, at 1 P.ar. Dr. Unqumart, Vicepresident, in the ehair.
Minutes and Nomination of New Members,-The minutes ol last meeting being read and approved, Dr. James Cravie, Newburgh, was nominated for ballot at next meeting.
Admiswion of Nezo Members.-The following gentlemen were ballotted for and admitted as members of the Braneh, namely:Dr. John Anderson, Elmhill IIouse, Aberdeen; Professor Cash, Dee Street; Dr. John W. Intcheon, Alford; Dr. George Mair, 2l, Crown Street, Aberdeen ; Dr. Robert Morrison, Rosieburn, Methlie; Dr. Stephen, Belhelvie; Dr. Whitton, Aberchirder, Banffshire.

## METROPOLITAN COUNTIES BRANCII : NORTII LONDON

 DISTRICT.A meeting of this District was held on Wednesday evening, March 28th, 1888, at the North-West London Mospitnl, Kentish Town Road, N.W., A. E. Duryadr, Esq., President of the Branch in the ehair.

Cases.-Several interesting cases from the wards of the hospital and out-patients' department were exhibited.-Dr. Hood : Cise of Marked Linex Albicantes after Uropsy--Ifr. F. Denmas's eases: Fissured Fracture of Skull: Trephining: Recorery: Tumour of Neek, pushing Trachea and Larynx to opposite side. Osteotomy of Femur. Pathological Specimens: Cancer of Breast; Sareoma of Sole of Foot; Nelon Seed Bodies from Compound Palmar Ganglion; Two Breasts with Seirrhus.-Dr. Collins's eases were Paralysis of Fifth Nerre: Opacity in Vitreous.-Dr. Campbeie.s cases: Early l'uberty in Boy of 7 years. Coloboma.-Mr. Black: U'lceration of Tongue: Epithelioma.

Communications.-Dr. IIOod read a paper on Empyema following l'neumonia.

Tote of Thanks.-Votes of thanks to the Presilent, Dr. IIood, and the gentlemen who had shown eases, as well as to the Committee of the hospital, were given.

SHROPSHIRE AND MID-WALES BRANCII.
A TIALf-yeamix meeting of the Braneh was hell at the Salop Infirmary on Tuesday, Btarch 27th, at 3 p.s.; the President, $W$. LDnowes, E×q., occupied the chair.
New Mcmbers.-The following gentlemen were elected memhers of the Iraneh: E. L. Burd, Shrewsbury; R. T. Cæsar, Wellington; C: I. Gibson, Shifnal : F' K. Pimot, Shrewsbury; S. II. Puekle, Bishop's Castle: A. V. Whitwell, Shrewshury ; G. F. Johuston, Wellington.

Communications.-Mr. J. T. Mrer rid notes of a case of Intestinal Obstruction, and on a case of Cirrhosis of the Liver, with nervons symptome--Mr. J. F. Ilamies gare a demonstration of the latest Antiseptie Dressings.-- $1 / \mathrm{r}, \mathrm{J}$. L. Webb read notes on three cases of Careinoma of the Breast, and asked for answers from members of the Branch to the following questions: 1. The average duration of life, after operation for cancer of the breast, in old and young cases? Is eczema of the nipple a eommon precursor of enneer? 3. Whether it is common to find tumours of the scalp in recurrent cases? Mr. Webb also showed microscopic seetions of the growth.

Electric Cystoscopy.-Mr. Ashron Sait, of Pirmingham, attended the meeting, and exlibited and practically demonstrated some new and interesting inventions for examinations by Electric

Light of the Bladder and its entrances, also various appliances for cauterisation.

The Presinent subsequently entertained the members in a most hospitable manner.

## E.IST ANGLIAN BRANGI: ESSEX DISTRICT.

AN ordinary meeting of this District was held at the Saracen's llead Hotel, Eunmow, on March 23rd, 1838, R. B. Marmiott, Esq., President, in the chair. There were also present ten members and visitors.

Election of Honorary Sccretary.-Mr. C. E. Abbott, Braintree, was re-elected 11 onorary Seeretary for the ensuing year.

Next Meeting. - It was decided that the next meeting be held at Clacton-on-Sea in September.

Communication from the Lancashire and Cheshire Branch.-Dr. W. A. Elliston, Ipswich, proposed the following resolution: "That this meeting expresses its approval of the memorial of the Lancashire and Cheshire Branch respecting the inadequate lees paid to medical witnesses at assizes and county sessions, and requests the Council of the Association to petition the IIome Secretary to revise the fees which are at present paid to medical witnesses."-This was seconded by Dr. S. R. Alexander, and carried unanimously.

New Members.-The following members were elected: II. Stear, Esq., Saffron Walden; E. W. IIolland, Esq., Chelmsford.

The late Mr. W. T. Jackman.-Dr. HoLDes, Sudbury, proposed in appropriate terms that a letter of condolence be sent to the relatives of the late Mr. W. T. Jackman, Brixton, S.W., who was mainly instrumental in the formation of the District in 1855, and filled the post of IIonorary Secretary for two years, and whose untimely death, at the age of 34 , occurred on Norember 2nd, 1387.-This was seconded by the President, and carried unanimously.

Communications.-R. B. Harniott, Esq. (President): Short Notes on a few Cases of Stone in the Bladder.-Dr. F. DE HAvilland Hall, London: Remarks on certain Remedies employed for the Relief of Pain and Spasm.-Dr. Downes, Chelmsford: Remarks on Epidemic Diphtheria in Rural Districts.

Cases.-Mr. C. Martley, Dunmow, exhibited several interesting surgical cases.
The members afterwards sat down to a "high tea" at the hotel.
GLOUCESTERSHIRE BRANCII.
An ordinary meeting was held on Tuesday, March 20th, at 7.30 P.M., at the General Ilospital, Cheltenham, under the presidency of Dr. Curite.

Minutes of Last Meeting.-The minutes of the last meeting were read. It was proposed by Dr. Needham and seconded b ${ }_{5}$ Dr. Soutar that the last paragraph be omitted. Carried.

Paper.-Mr. Mason (General Hospital, Cheltenham) read a paper on screnty cases of typhoid fever which had been admitted into the hospital during the last six months. A discussion followed.

## SPECIAL CORRESPONDENCE.

## VIENNA.

[FROM oUR OWN CORRESPONDENT.]
Nephrectomy.-Mclanosarcosis.-Phlegmonous Pharyngitis.
AT a recent mecting of the Imperial Royal Society of Plysicians of Vienna, Professor Weinlechner showed a woman, aged 51, on whom he had performed nephrectomy for pyonephrosis. The patient had suffered for ten years from pains in the right part of the abdomen, and a tumour, the size of which was constantly parying, developed beneath the right costal arch. At different periods the patient was attacked with fever, and suffered from paing in the swelling, the urine being clear, and the tumour increasing in size on each of these occasions; in the apyretic periods the urine was found to contain pus, the swelling diminished, and the patient felt well. These alternating periods were, during the first five years, observed only once every twelve months, but during the last few years they had become much more frequent, so that t'ic patient was never quite free from pain, On admission a tumour, which extended almost to the symphysis. Fas detccted; it was tender on pressure, and presented a distinct fluctuation; the urine was clear. Professor Weiulechner performed nephrectomy liy the extraperitoneal metliod. An iucision
was made at the outer margin of the sacro-lumbalis muscle, the kidney was laid bare, and about half a litre of pus was discharged from it by puncture. After the upper and lower ends of the organ had been detached and the pedicle ligatured, the kidney was removed. IIealing took place without any trouble; the quantity of the urine increased from 600 to 900 grammes, and on the twentieth day after operation it amounted to 1,300 grammes.

Docens Dr. Zemann, assistant to Professor Kundrat in the chair of pathological anatomy, brought before the same Society, specimens of tro cases of melanosarcoma with secondary formations. The first case was that of a patient, aged 35 , who had been treated in the clinic of P'rofessor Billroth, and who was, at the beginning of his disease, affected with a small nocus migmentosus on the back. Melanosarcomata of a colossal size developed later on in the axillary glands, a certain number of which were removed by operation. Innumerable small melanotic tumours also formed in the skin over the whole body. The post-mortem examination, which was made by Dr. Zemanu, showed that there were a great number of secondary formations in most of the internal organs. What was of a special interest in this case, was the uniform dark brown colour of some organs, such as the liver and the spleen. The cancellous tissue of the bones, especially of the Tertebre, was also intensely dark in colour. Some nodules could also be detected in the pleura, the pericardium, the œesophagus, and the pharynx. In the second case, that of a man aged 70, a melanosarcoma of the left eyeball was the primary affection. Enucleation was performed, but the patient died some time alterwards. The number of secondary formations was still greater in this case, some melanosarcomatous patches having been found eren in the large reins, and on the internal surface of the dura mater.

Dr. Zemann also showed a specimen of "pharyngitis submucosa phlegmonosa" from a man aged 60. This case was of special interest from the fact that Senator, who had recently described this affection in the Berliner Klinische Wochenschrift, stated that the disase was previously quite unknomn. According to Dr. Zemann, howerer, pathologists, if not clinicians, had long been well acquainted with the affection, and the disease was not so very rare, as four or five examples of it were generally ohserred each year in the post-mortem rooms of the Vienna Gcueral Hospital. The disease was characterised by phlegmonous inflammation of the submucous cellular tissue of the pharyne and the larynx, running a very acute course; this was why the diagnosis could be made only with great difficulty in the living subject. The patient from whom Dr. Zemann's specimen was taken had been admitted into the General Hospital on March 8th, with symptoms of emphysema, serere bronchitis, and slight dyspnoea. His condition improred during the night, but on the morning of the 9th the dyspncea increased, and death supervened before an exact examination of the case had been made. In the pharynx, extensive infiltration of the submucons layer with cloudy serous fluid was found. There was. moreorer, enormons swelling of the right ary-epiglottic fold from infiltration with pus, and there were superficial ulcerations of the pharyngeal mucous membrane. The swelling and infiltration also affected the right wall of the laryne, and extended as far as the ventricular bands. Besides emphysema and bronchitis, parenchymatous degeneration of the cardiac muscle, the liver, and the kidneys, and acute swelling of the spleen were observed. Dr. Zemann remarked that the disease was to be looked upon as a most dangerous infectious malady, with an exceedingly rapid course; its origin was still unknown. Persons attacked died either from parenchymatous degeneration of the heart or from aspliyxia caused by narrowing of the air-passages. Another case which had been recently observed was that of a young girl with cardiac failure. Owing to sudden dyspnœa, tracheotony was resorter to, but without suceess, and death immediately supervened. The post-mortem examination shorred that death was due to acute phlegmonous pharyngitis. In conclnsion, Dr. Z̈emann urged clinieians to study more closely at the bedside this disease, which was well known in the deadhousc.

## BERLIN.

[FROM OUR OFN CORRESPONDEST.]
The Ilealth of the Emperor.-Fatality of Laryngectomy.
I AM in a position to gire you authentic information as to the present condition of the limperor. The prowth is absolntely lovalised and limited, the neighbouring glands are not in any way affected, and cven where the disease is worst it makes little or
no progrcss. Itis Imperinl Jajest $5^{\circ}$ general benth is excellent; he fats become very grey, but still retaius his elastio step and sohliorlike bearing. He takes daily walks in the sunny gardens of Charlottenburg Schloss. lesterday, Murch 30th, he visited his capital for the first time since his accession, and was received with the utmost enthusiasm by the Bertin people.
Some days ago Herr hayser, member of the Social Democratic section of the Reichstag, died, innuediately after a partial extirpation of the larynx for cancer, which was performed by l'rofessor von Berganan, our leading surgeon. A like result followed tho last two operutions of the sume kind done by Dr. E. Hahn, who is well known in England for having operated on Mr. Montaç Fillinms. It is also said, but I cannot vouch for the trith of the statement, that all the cleven other patients on whom Professor von Bergmann has performed laryngectomy, have died. The fatal results of these operations go far to justify those who refused to expose the precious life of the heir to the throne to so formidable a risk. I'ublic - opinion is beginning to reer rouud to that view of the case. A brighter view of the situation is now generally taken, and it any rate it appears certain that no immediate danger is to be apprehended.

## PARIS.

[FROM OLT OTN CORRESPONDENT.]
A Curious Case.-Iodism.-Titality of Rabic Tirus.
31. l'peter has recently had under his care at the IIopital Necker a curious case of hysteria, presenting the phenomena of sensibility of the integuments to goli, and susceptibility to the influence of medicinal substances at a distance. The patient was a man, who applicd on account of contracture of the entire right side, principally in the leg. He is a well known hysterical subject, and it was on him that the theory of telepathic medicine, broached not long ago by two surgeons of Rochefort, was chiefly based. It was noticed that his skin was extremely sensitive to the contact of certain metals; but Dr. Peter, who is rery cautious in accepting such facts, seeing that the patient was an inveterate liar, took every precaution to ensure absolnte accuracy iu the experiments he undertook. Dr. Peter, as if by accident, touched the back of the man's hand with a gold ring which he was wearing. The patient complained of a sensation of pain, and the next morning there was $a$ small blister, as of a burn of the second degree, on the spot touclied by the ring. The same day the hendnurse, while helping the patient, accidentally touched one of his fingers with her gold clain, and the same result was produced. To prove that there was no trickery, and that the man had not purposely burnt himself with a match, Dr. Peter's assistant, Dr. Caron, percussed the man's back, particularly where his band could not reach, even with a lighted match, and wherever Dr. Caron's gold ring had touched the skin there was a blister ns in the first case. Other metals similarly applied did not give the game result. Following up these experiments with regard to the influence of medicaments at a distance, the following curious effect was observed. Without the patient being aware of it, a small tube wrapped up in paper, the contents of which were unknown to Dr. Peter himself and to his assistants, was held within about four inches of the back of the patient's neck. In less,than ten minutes his face became covered with profuse perspiration, he was seized with nausea, ani soon vomited some liquid. On tearing off the paper cover from the tube, it was seen to contain ipecacuanha. Similar experiments with alcohol and opium gare no results whatever.
According to M. Duret, poisoning by indine shows itself in three distinct forms-the eruptive, the cerelral or delirious, and the syncopal or hypothermic. The eruptive form is the most frequent. It is characterised by a rubeolar eruption appearing on the different parts of the body, and far removed from the point of application. The poisonous mud iodised prineiples are absorbed by the body, and this eruption is probably caused by the climinative process carried on through the glands of the skin. The second form is characterised by epileptic symptoms, or by fits of sleeplessness accompanied with delirium. The third form is more serious. The alsorption of the iodine is followed by a great increase or decrease in the temperature, which sometimes falls as low as $34.6^{\circ} \mathrm{C}$. These symptoms cease as soon as the iodine is no longer giren. Thus, if iodine is valunlle on account of its antiseptic propertics, yet it must be employed with caution, as in some cases it gires rise to lymphangitis with diffuse suppurative
cellulitis. 11. Duret has twice seen inflammation produced by its use in wounds on the hands and fingers. The inllammation censed when the iodine was discontinued.

The rirus of rabies is so actire in buried corpses, that when subsequent doubts arise as to the nature of the disease which proved mortal, inoculation with the exhumed medulla oblongata will settle the question. 31. Gialtier has obserred that the medulla of a dog dead from rabies, remorel seventeen days after death, then buried in the earth for fifteen days longer, preserved all its virulence. Inoculations from it caused rabies in twelve days.

## GLASGOW

## [FROM OCR OWN CORRESPONDENT,]

Glasgow Faculty of Physicians and Surgeons.-Glasgora U'ni-versity.-Glasgow Philosophical Society.-Small-pox on Board an Atlantic Liner.-Prosecution under the Margarine Act.Measles Fipidemic in Port Clasgozo.
AT the meeting on April Ind, the election of a representatire to the General Medical Council took place. Dr. D. C. Mclail has represented the Faculty recently, having been elected to complete the term for which the late Dr. Scott Orr was appointed. It was decided that the nem election should be for five years; and, thereafter, Dr. Alexander Robertson, seconded. by Dr. James Dunlop, nominated Dr. McYail for re-election. Dr. James Finlayson nominated Dr. Hector Cameron, and was seconded by Dr. Donald Fraser, of Paisley. The rote was by ballot, and 54 voted for Dr. Cameron, 50 for Dr. McFail, 2 declining to rote. Dr. Cameron was, tecordingly, declared electer. Cnusual interest has been manifested in the election, the mecting being the largest, ever held, and many Fellows coming considerable distances to take part in the business.
The number of candidates for the medical preliminary examination at this University has been steadily increasing at each halfyearly examination. At this term the very large number of 482 has been reached. The winter session of the medical classes closed last week. The examinationsfor degrees in medicine and science begin to-day (Friday). For the degrees in medicine, first, second, and third examinations, there are 86,50 , and 68 candidates respectirely, a total of 204 ; While 60 candidates apply for the examinations for
B.Sc. The Board, recently appointed in connection with Glascow University, for the extension of university teaching by local lectures and classes, has issued an account of the scheme and the mode of working it, in which, after the results of the scheme, ns carried on by the Universities of Oxford and Cambridge, have heen described, the various tentatire efforts made in the same direction in Scotland are alluded to. The pamphlet follows with a carcfu explanation of the purpose and method of the scheme, and the proper manner of working it, ending with detailed information for the benefit of local committees, of the means they should adopt for making the schemc effective, and of the cost of so doing. With the issue of this pamphlet there ends the preliminary stage of this movement. The fruits of the scheme cannot begin to appear till next autumn and winter, but the account has beeu published in good time to give those directly interested in the morement the opportunity of considering whether they will take advantage of it. The pamphitet can be obtuined from the L゙niversity publishers Messrs. Maclehose and Sons, Glasgow.
At the last two meetings of the Giasgow lhilosophical Society very interesting communications have been make
 a most ingenious method of counting the number of dust particles in the atmosphere. The essence of the methoul consists in producing a fog, by supersaturating the nir whose dus particles onc wishes to count with water in a glass receiver Hach fog particle has a dust particle as n nucleus, and by simple method of magnifying and illumination, the particles ar seen falling on a swall silver mirror with a ruled surface. outside atmosphere, whea rain was falling, to be jol, 000 per in the inch, and 2,119,000 when it was fair. In the atmosphere of room the number was $30,318,000$, and in the air near the ceilin $88,346,000$, all per cubic inch. In a Bunsen flame he calculate the number to be $489,000,000$. Mr. Aitken adels: "It does seen strange that there may be as many dust particles in one cubi
inch of the air of a room at night when the gas is burning as there are inhabitants in Great Britain, and that in three cubic inches of the gases from a Dunsen flame there are as many particles as there are inlabitants in the world." At the meeting of March 21st, Mr. Erncst Maylard, M.B., gave a most interesting demonstration of bacteriological methods adopted for the detection and cultivation of micro-organisms in air, watcr, and soil. Ile also demonstrated some of the pathogenic organisms. Referring to the recent report regarding the pollution of Loch Long, Mr. Maylard gave results of some obscrvations he had recently made by bacteriological methods, which showed that, from this point of view, while Loch Goil was nearly as pure as Loch Katrine, Loch Long was little better than the Clyde itself. Mr. Maylard's demonstration brought together a very large meeting.

The Anchor Line steamer Circassia arrived in the Clyde from New York on 1 larch 22 ad, with five cases of small-pox on board. The first case was reported four days after the ressel left New York, and the other cases occurred at intervals of one and two days. Immediately on the arrival of the ship opposite Greenock, the men were remored to the Greenock small-pox hospital. Half of the crew had been revaccinated on the voyage, and Dr. Wallace, of Greenock, reraccinated the remainder, together with all the passengers. All of the men affected belonged to the crew. After thorough disinfection, the ressel was allowed to proceed to Glasgow. No other cases have yet been reported.

The first casc of prosecution in Glasgow under the Margarine Act was brought up on March 23 rd , when the accused was fined a modified penalty of $£ 2$, for failing to mark clearly the margarine he had expesed for sale in his slop.

The Scheel Board of Port Glasgow have found it necessary to close one of their scheols in the east end of the torn, because of the prevalence of measles among the scholars. Towards the close of last week, 150 were reported absent from this cause, and by March 26th the absentees had increased to 227 . Vory few cases have been fatal, but the cpidemic has spread with rery great rapidity.

## CORRESPONDENCE.

## MR. STANIOPE LND THE RANE OF ARMI MEDICAL OFPICERS.

Sin,-I was nuch disappointed with the tone of Mr. Stanhope's reply to my question on March 13 th. His courtesy in all matters connected with the department had been so great last year, and the reception given by him to the Parliamentary Bills Committee deputation was so cordial and friendly, that I was quite uuprepared for the cavalier way in which he has now flung down the gruntlet of defiance to the civil profession.

No doubt, according to the strict letter of hard and fast military law, the collectiou of the opinions of medical officers, by a "civilian association" may be in "contravention of discipline," for we know that combination is specially abhorrent to the official mind. But whether it is judicious, in the interest of a serrice which depends for its very existence on the estimation in which it is beld by medical schools and by medieal practitioners outside, to take this line is a question which I must leave erery unprejudiced reader to settle for himsclf.

In my judgment, nothing can be gained but everything may be lost by an ostentatious indifference to the views of army doctors, however expressed, at a time when great changes are impending, and when it will become the duty of the advisers of our medical students seriously to consider whether they can continue to recommend military medical service under the altered couditious of the future.

Mr. Stanhope airily informs us that "the status of medical oflicers is just what it was before." This may be his opiniou; but as he does not himself wear the shoe, he cannot tell where it pinches, and nearly 1,000 experienced surgeons on active service, whose views you have co ably analysed, in addition to many whe have favoured me with private letters, have stated most emphatically that they have lost wuch, both iu prestige und position, by the abolition of relative rank. We are further told by the Secretary of State for War that a "proper channel" is open to anyone for the discharge of his grievances; and by
this is no doubt meant a personal interview with the DirectorGeneral at Whitehall lard. To one can hold Sir T. C'rawford in higher respect than I do. He is courteous and able, and as little formidable as possible under the circumstances; but surely it would be an act of some personal leroism for any individual officer (junior, perhaps, in rank) to enter the dread sanctum for the purpose of arguing out the terms of a Royal Warrant; and, of course, anyone on foreign service can ouly make his wiews known through the medium of his principal medical officer, and the fatal defect of this mode of action is that it is scattered and intermittent, and devoid of that cohesive and collective force which a large body of united opinion must possess. You have given the department the opportunity of expressing this with no uncertain sound, and whaterer the reception of your communication may be to-day, it must have its due weight in the future, and its influence may make itself felt in quarters the most inconvenient to those who have been induced by their military advisers to brush it contemptuously on one side.

Unfortunately, there does not seem to be any immediate prospect of discussing Vote 4 in the House. The preliminary stage of the army estimates on the motion that the Speaker do now leare the chair is usually devoted to the consideration of every variety of grievance, but this time it was entirely taken up by Sir W. Barttelot's motion for a Royal Commission, and when l rose to address the House on medical questions 1 was ruled out of order by the Chair. Mr. Stanhope has since declined to give me a pledge that the rote will be taken at a time and hour when full discussion is possible. Last year it came on in August, towards the small hours, and great uncertainty necessarily attends its appearance now; so we mast only watch and wait, and make the best use of opportunities as they arise.-I am, etc.,

Ilouse of Commons, March 27 th. R. Farquharson.
I.S.-Will Jou allow me to take this opportunity of gratefully acknowledging the communications I have received in answer to my appeal for definite details regarding the abolition of relative rank? Medical officers have written to me from all parts of the world, and have not only expressed their opinions with fulness and ability, but have told me how they have actually lost prestige and position by what outsiders consider a very trifing change. Armed with this brief, I hope to render some service to the cause when the discussion on the rote comes on.

## THE ELECTION OF PRESIDENT OF THE COLLEGE OF PHSSICIANS.

Sir,-As one of your correspondents last week observed, the result of the election of President of the Royal College of Physicians will have giren satisfaction to many; but the mode in which it was attained has given dissatisfaction to a large number of Fellows. It is quite true that a form of canvassing, sub silentio, was had recourse to, but this was not the only unusual phenomenon which marked the election. A report of a meeting of the Committee of the College of Physicians, published in the Jotrasi of February 4th, p. 253 , contains a resolution to the effect that it was undesirable for Fellows, Members, or Licentiates to write on professional subjects in jouruals supplying medical knowledge to the general public. Though etiquette forbad you to reveal the tenour of the animated discussion which took Irlace on this resolution, there was a very strong feeling against it, which found formal expression in au adverse amendment, lost only by a small majority; Many Fellows who were aggrieved at the action of the Censors" Board took adrantage of the presidential election to nake a protest hy voting at the second ballot in favour of that Fellow owing to whose action more especially the resolution of February ?nd had origimated.-I am, etc.,

Anotier Fiellow.

## THE JUDGG:T.

Sin,-From Mr. Goschen's speech he appears inclined to include the medical man's lorse amongst those kept for pleasure, and therefore to be taxed; whereas, as you well know, a horse is just as much a necessary ndjunct to a country or town practice as a butcher's or a baker's cart is to his business-the baker's cart carrying bread, and the doctor's brains. Instead of our gettin: up any memorial on this question, I would ask every medical ms in Fingland to write to his member of Parliament, putting the facts before him. -1 am, etc.,

Juins Woodmay, M.D., President-Elect, South-Western
Branch, British Medical Association.

Sir,- Your leading article in the Journal of March 31st appears to assume that dectors' horses will hecome liable to the new tax. I venture to think the presumption is the other way, and I wrote a letter to tho limes, which appeared in that journal of April and, pointing out that recent judicial rulings to the effect that the misiness of general practitioners is "a trade," would appear to etrengthen this presumption.
1 suppose that in filling up the form for the payment of stamp dity wo should be at liberty to declare how many of our horses (if uny) were kept for pleasure purposes, and to be liable for the tax only so far as they wero concerned. Where a country practitioner carries on an extensive comntry practice, he not infreguently requires to keep from four to six horses, and it would be monstrously unjust if lue were obliged to pay the new impost upon them all.

Perhups the Parliamentary Bills Committee of our Associntion will mako inquiry on the subject.-1 am, ete., J. Momes Joy.

Sanor House, Thaworth, April 2nd.
Sir,-I do not think we will be dealt so hardly with as you imagine. At present the income-tax people allow us to deduct Es30 for each herse from total income, on the ground that the horses are used for professional purposes. 1 hepe, under the new scheme, wo will be allowed to pay the "wheel tax" instead of the carriage tax. 1 for one will make a try to do so. When we are allowed to deduct the keep of the horse as a necessity in the practice, surely we cannot be taxed as if he, she, or it was kept for pleasirc. If the horse, then the carriage. If this contention is correct, we shall save by the new Budset.- 1 am, cte.,

Wilmot Ionse, Erdington, William Donoran, L.R.C.P.Ed.
Birmingham, March 3lst.
Sin, - By the new Budget just before the pullic we shall hare to phy $£ 1$ on each horse we use, which is very hard on us country practitioners. The Chancellor of the Exchequer admits in his speech that it will te a great hardship on "doctors and clergymen." If the medical profession, through your raluable Associntion, were to forcibly urge this injustice upon him, he might be induced to exempt us from this further tax; also the wheel tax as well, if we are to pay this. A petition should be signed and sent in at once, which would matcrially strengthen your arguments. 1 am , ctc.,

General Pifactioner.
Sin, -Can nothing be done to prerent so great an injustice to the medical profession as this new horse tax? Surely the Chancellor of the Exchequer, by however great a stretch of the imagination, cannot think a medical man drives about in all reathers and hoth day and night for pleasure. The medical profossion is taxed up to its neck already, without this additional burden, and with the wheel tax in addition it will indeed be a severe burden on many a poor doctor. Perhaps if every member of the profession interested in the matter wrote to the Slember of larlament for the division in which he lives and put the subject clearly before him, it might have some good effect.-I am, etc.,
F. L. Jichoris.

## April Ist.

** We recommend that course to be adopited withont delay. Deantime, the larliamentary Bills Committee will also no doubt take action: but each medical man should individually and promptly act for himself through his own uncmber, so as to supprort the proceediugs of the Committee.

## TIE POSITION OF MEDICAL OFPICERS OE IEEALTII U゙NDER TUE HROMOSED COUNTY COUSCHS.

Sin, -There is every prospect, os you have justly inticated in your leader on theabove subject, that unless some effort be made to supplement in obvious deficinncy in the County Government lisil, a great opportunity of improving sanitary administration, especially in rural districts, will be lost. Jt is remarkable that while the bill provides the new anthoritics with advice in the legal and constructive aspects of sanitary matters, it leaves them entirely without any in regard to medical ones. This is the more astonishing considering that every bistrict douncil will have such in adviser in the person of its medienl ollicer of health, for it is scirealy to be suppused that if these minor authoritios require sushadvien, the cenfral hody, which is to he invested with their co itr l, ran fo its work ellicinntly without such help.
So rnm who knows auything of the practical requirements of our sanitary organisation can liave any dou'st that the County

Councils have a most important work before them in the direction of organising, consolidating, and unifying sanitary administration, if they are only properly equipped for such functions, and if they understand, on their creation, that such work is expected of them. I have no hesitation in saying, with some experience in the matter, that the efliciency of sanitary work in rural and the smaller urban districts might be enormously increased by the inlluence which a competent central health officer, hacked up by such a strong body as we may hope the County Councils will become, could exercise. In co-ordinating the statistics of infectious disease alone, he would have, under the aniform enforcement of notification, which cannot be far distant now, an opportunity, such as does not now exist, of preparing the nuthorities in his district to resist its attacks. And, indeed, it is so obrious as not to require arguing, that if such an oflicer is necessary in order to stimulate, ndvise, and generally direct the work of sanitary administration in a small area, he must a fortiori be the more so in an organisation which is formed by grouping such small areas together, and the professed ebject of which is to regulate their administration.
There is, perhaps, room fer doubt whether the prorisions of the Bill as at present drawn weuld place any insuperable obstacle in the ray of a County Council arailing itself of the adrice of amy medical officer of health in its district, if it desired to do so ; hut the possibility of such an arrangement is questionable, and it is much better, in view of the importance of the matter, that it sheuld not be simply optional, but as imperative on a County Council to provide itseli with such an official as it is at present for a local sanitary authority to do so. Such a requirement slould be accompanied with the power of so ordering the relations of the poor-law medical officers to the central officer and to the local authorities as to allow of the whole machinery of public medical administration being used in the mest adrantageous and economic manner practicalle for the public sanitary interests.

And here 1 venture to differ mith you in regard to tro of the duties which you suggest might be imposed on such on official, namely, the making of post-mortem examinations for coroners inquests and the work of a county analyst. I feel sure that $\Omega$ central health officer would find quite enough to occupy him in most counties in the way of handling statistics of various kinds, correspendence, attendance at meetings of local anthorities, as well es on those of the County Council, to make it very difficult for him to be arailable at short notice, as is often necessary, in any part of the county, to make a post-mortem examination, still less to give the continuous attention which is requisite for food analyses, which are now very well provided for in the hands of men with whose daily occuphtion sucl work is much more cognate. It should, however, certainly be the duty of the county medical officer to act as medical assessor to the coroner when the latter was not a medical man, and to make inquiries of first instance, for example, in eases of uncertified deaths, with the riew of ascertaining whether there were any prima facie grounds for holding an incuest. And in this capacity there wonld be no dificulty in entrusting lim with the general supervision of postmortem examinations.

There is one most important department of sanitary work which shonld certainly come under the observation of sueh an officer, and that is vaccination. It is simply absurd that whilst the medical oflicer of health is requiret to deal with measures for urresting the spread of small-pox, he has no oflicial cognisanec of vaccimation. In those eounties in which the experiment of combining a namber of sanitary districts under a single medical oflicer of health has been in operation for the last fifteen years, the transition to attaching this official to the Conuty Council would prohably in most cases be made withont difthculty, hat where no sucli combination has been hitherto effected, it night not he ensy at once to create the office withent either sacrificing vested interests or entailing a charge for a new salary which might create much opposition. Whilst imposing upen the County Council the abonlute duty of appointing a sanitary adviser it is, I think, desirable to give them a certain amount of latitude in determining how they can best make such an appointusent with a due regard to economy and to antecedent conditions. Wo may be quite sure that if the lines of duty are clearly laid down for such an efficinl, the Council may he as safely trusted to do their best to meet this reguirement, as the corforutions of the harge towns, which are now to be created eounties of themselves, have slown thenselves to be in making similar njpointments. It is very inexpedient that the ratepayer should be led to look on the new machinery as likely to
be more cxpensive than is absolutely nccessary. What is wanted is reorganisation as opportunity offers, rather than any sudden upsetting of existing organisation, however imperfect it may be.

I trust, therefore, an effort will he at once made to direct the attention looth of the Government and of Parliament to the serious defect which the County Covernment Bill exhibits in this respect, and there is no body by which such effort could be so appropriately initiated as by the Jarliamentary Bills Committce of the British SIedical Association.-I am, etc.,

Cuivis.

## NOTIFICATION OF INFECTIOUS DISEASES.

SIr,-I send youl herewith a report of proccedings taken against Dr. Dalton, of South Norwood, by the Corporation of Croydon. Dr. Dalton is an M.D. of the Unirersity of London, a practitioner of twenty years' standing, and holds a high'place in the estimation of his neighbours.

The object of notification of infectious diseases is not for the purpose discloaed in these proceedings. The information being given to the authority, it is immaterial as regards repression by whom the information is given, provided they get it as soon as its nature is established. The Act says that it shall, in some parts of the kingdom, be given by the householder or person in charge of the patient, and also by the medical attendant. In this case, Dr. Dalton had instructed the householder to give notice to the authority; the authority had actually acted upon the notice, and had disinfected the house. The dignity of the authority is, however, damaged, for the notice is not given by the medical attendant. This result is brought to the knowledge of the town clerk, Who revenges it by putting the doctor into the dock. This, Sir, may be law, but it is neither justice nor satisfactory to the true promoters of disease repression. It opens the road to private malice, and to conflicts between members of the medical profession, in which it is possible for a superior in social and professional life to be treated with indignity by one of a lower standing, for no trua reason whatever, and for no good purpose, as in this case thers is nothing to be gained but revenge.

As I have often said before, and the medical profession by the British Medical Association at its annual meeting has endorsed that view, the object of the Act is to procure the repression of disease, and I am doing as much as any hody to promote repression. That repression can only be obtained by information from the source, and the proper person to give that information is, in the opinion of the medical profession, the householder. The law should and, in some cases, does allow the householder to employ the medical attendant as his agent, and, when so acting, the medical attendant should be entitled to a fee, but it should be the householder who ought to be summoned, if the Act is not complied with. The medical attendant conld then be called as a witness in the case. In Dr. Dalton's case there was no damaga to anyone, except the dignity of somebody, for the spirit of the Act Was complied with. I will not insult Dr. Philpot by suggesting for one moment that he has been the instigator of these proceedings, but I am really sorry that he has been compelled to be a party to them. It may be, and it doubtless is, conrenient to the medical officer of health to get the information direct from the medical attendant; but how about cases where there is none? I am aware of the existence of such in this borough; in which there has been no medical attendant on cascs of infectious discase for reasons best known to the householder, and the action taken by the corporation is more likcly to increase the number of cases than to discover them, to the serious detriment of true annitary work and the continued spread of infectious disease among us. There is a curious idea upon this point which is prevalent among the people, and among lawyers especially, that the doctor should be held liable to a criminal procedure if he does not disclose facts which only come to his notice by reason of his professional employment.
I. It makes the doctor a particeps criminis if the disease is not disclosed, and the evidence fortheoming against the houselolder camot be satisfactory as to diaguosis, without his aid.
2. It tends to prevent the very people who are most likely to spread the disease, such as lodging-house keepers, hatel kcejers, and shopkeepers, employing a medical man at all in such cases, and encourages them to send for an acknowledged quack, or socalled "botanist," two or three of whom are actually practising in Groydon and its neighbourhood.
3. It places two medical men in antagonism to each other, to the detriment of good feeling, and damage to the estimation in Which our profession ought to be held by the public, and especially by lawyers, who like to pit one doctor against another.

I think, sir, that the whole medical profession will object to the extension of the law upon the basis on which it stands in this borough, and will call for a law applicable to the whole kingdom, that the householder shall alone be liable to prosecution unlesz the doctor is acting in an official capacity as the medical officer to a public authority, or a benefit society, etc., the law also enactieg that the medical attendant shall act as the agrent of the householder when requircd to do so by him, and tlat when so acting le shall be entitled to a proper fee to be paid by the local authority.

It could never be intended by the Legislature that a new series of crimes should be put upon the atatute book; namely, that doctors must be common informers, and that the dignity of the local authority is lessened, unless the information comes by the medical instead of by another source. The knowledge was actually obtained, in this case, and the measures for the prevention of the spread of disease were actually taken primarily by the act of Dr. Dalton, yet he is prosecuted, and the justices were foolish enough to put a fine upon his conduct, instead of doing him the justice which was really due to him in the matter; namely, inflicting a nominal penalty only.-I am, etc.,

Croydon, April 2nd.
Alfred Carpestrio.

## THE CLIFTON LUNACY CASE.

Sir,-I am sorry that Dr. Marsball ahould have thought proper to have made what imust pronounce as being an offensive and unwarrantable attack upon me, and made personal because I have dared to differ from him in opinion. I have been atrongly urged to take other measures than I now do, but I give him an opportunity of retracting his remarks after he has perused this. The facts are shortly as follows.
I was consulted about the case of Miss Mason in the month of January of this year. I examined her on two occasions, and heard her account of the incarceration in three lunatic asylums. 1 advised, both in writing and verbally, that Dr. Marshall'a action should be dropped altogether; but that there was a strong case against the convent for locking Miss Mason up in her room and depriving her of liberty previous to obtaining tho lunacy certificates I felt positire of, and I do so now.

I was examined, on entering the witness-box, on the rery certificate of Dr. Darshall on which I had stated that the case onght to have been dropped. I, therefore, declined to answer the question relative to his certificate. One of the witnesses for the defence said to me on learing the witness-box, "Dr. Winslow, by your answer you hare upheld the honour of the profession."
In my last letter, which appears under that of Dr. Marshall, I showed clearly that the course adrised by me and the answers given by me met with the approval of the learned judge whotried the case. I cannot hut think that had Dr. Marshall considered well before writing as he has done, without the facts before him, it would have been a wiser step' to have adopted. I never put up with an insult from anyone, and as I hare been grossly insulted by Dr. Marshall, I demand through your columns an apology from lim with regard to his statemeuts. I challenge him to substantiate the truth of any one of them, and cation him as to his reply.-I am, etc.,
L. Forbes Winslow, M.B., LL.M.Camb., D.C.L.Oxon.

70, Wimpole Strect, April 3rd.

## TIE EDUCATION OF FEEBLE-MINDED CIILDBEN.

SIr,-In the Jocrnal of March 3lst, I notice under the beading, "Beating an Epileptic Girl," You say, "Why" should not suitThere is no reason why classes should not be provided, and some years ago I wrote to Sir E. Currie, who whs then on the School Board, urging that classes for feeble-minded children should be formed. I went into details, and showed that the scheme could be easily carricd out. Sir E. Currie said, at the time I mrote to him, that the School Board was busy, on other matters, but the scheme should be attended to. Nothing however came of it. I am of opinion that feeble-minded children have as much right to be educated by the School Board as the blind and deaf and dumb, who for some time past have reccived iustruction. Schools for the feeble-minded have been in operation in Germany and Norway for some years, and those who are interested in the subject will find an instructive article by Dr. Shuttleworth in the April number of the Journal of Mental Science.

There is also no doultt that schools should be risited accasionally by a medical man, who should have power to report to the
authoritice. The teachers would he glad of the dssistance, and feeble-minded children wauld bentefit, I was sent,' some years aceo, by Sir E. Currio to report on the case of a child, whose father wished that she should attend the Leard School, but the teacher refused to reccire her, as she upset the school and could not be instructed. The child was an mudonhted imbecile, and about a year ago was admitted into the Darenth Asylum,-I am, etc.
April 4th.

Fletcier Beach.

## CONSULTATIONS WITH HOMGEOPATISS."

Sir,-As three letters have appenred in the Jounval, referring to the last paragraphs of the report of the meeting of the Gloucestershire Branch, held on February 21st 'at Gloucester, I think it only right that 1 should draw your attention to the report of the meeting held on March 20 th, at Cheltenham. ${ }^{1}$ When it was resolved that the paragraph in question be erased from the minutes. - I am. etc.

Cheltenham. G. Antuur Cardew; Honorary Secretary Gloucestershire Branch.

## the alleged arrest of sulhtisili its pridiary STAGE.

Sir,-Whilst entirely concurring in the view of Mfr. Jonathan Hutchinson that syphilis is canised by the presence of a microbeas yet unknown to the microscope- 1 have not been able to corroborate his experience that this microbe may be destroyed in its carly phase of existence, or when the initinl lesion of syphilis alone is present, by means of small doses of mercury. For many years I tried, by giving small doses, first, of greeu iodide, and then small doses of mercury with chalk, to prevent the occurrence of roseola in my hospital patients, who were all very young women. at the Rescue Society's Lock Hospital; but in all cases I found that when there was a well-marked syphilitic sore, some symptom, such as roscola or mucons tubercles, followed, although often the symptoms were rery slight indeed.-1 am, etc.,

## Charifes R. Drysdale,

Late Physician to the Rescue Society of London.
Londọn, March 28 th.

## A NEW INCANDESCENT LAYIP CYSTOSCOPE.

Sir,--It may perhaps be of interest to those who contemplate providing themselves with a cystoscape similar to the one so cleverly descrihed by Mr. E. Hurry Fenwick, in the Journal of February 4 th, to know that through the agency of Mr. K. Shall, of Wigmore Street, Leiter (of Vienna) has made for me a cystoscope, which, although identical in priaciple, is of much larger size, and, in ins opinion, of much greater, practical utility than the one originally introduced.
The diamoter of Leiter's first instrument is No." 22, French gauge, that of mine No. 40. The advantages of the increased size are that the larger instrument obviously affords a wider field of rision and the employment. of a larger incandesceut lamp with corresponding increased brilliancy of light. The windotr of observation in the new instrument is at least twice the area of that in the old one, and the lamp is double the size.
As there are few urethras with a capacity of 40 French guage, I propase using, as I have already done, the cystoscope through a median incision in the membranois urethra upon those patients whose urethras will not admit the instrument in the ordinary manner. The objections to the perineal incision have very-little foundation in actual practice and are insignificant in comparison to the adrantages to lre gained by a correct diagnosis-a diagnosis which can frequently only be obtained by a visual and tactile examination of the interior of the bladder, a means, for which the perineal incision provides the most direct, the safest, and the most convenient facilities, Recently 1 explored the bladder of a man with the new crstoscope, nud I was able to demonstrate that the illumination and field of rision left nothing to bedesired. The following day tho patient passed the whole of his urine the natural way.
Leiter has written to say that he was very much impressed with the sugrestion, and that he had tried the cystoscope on a dilated female bladider with the greatest auccess. - i am, etc..
Manchester, April Ind,
Walter Whitehead.

> TSee pnge 2tbs.

Ture Local Gorernment Board have sanctioned the appointment of Dr. T. M'Corbett as medical officer of the Clonaslee Dispensary'

## NAVAL AND MILITARY MEDICAL SERVICES.

## 'army melncil school.

The summer session of the Army Medical School at Netleycommenced on Mondar, the 2nd inst.. the opening lecture being given by Professor Sir Wm. Aitken, M.1., F.K.S. T'wenty-four surgeons of the Army Medical Staff, and fourteen candidates for commissions in H.il.s lndinn Medical Service; have joined to go through the courses of instruction at the school.

## EXTENSION OF FOREIGN SFRVIOL:

In answer to a "Member B.M.A., we gat her froni Mr. Stanboge's reply to Dr. Tunner's question in the House that the extension of loreigu: sermico will apply to officers of all the departments of thu army) thits, he said, would the done in the interests of economy, and with the effect of lengtheuing the period of home service. We have as yet no information as to the " reasouable period?" which: ninst be served befere claiming peusion in any rauk; thi must be made known very soon now.

## MR. STANHOPLS MEMORANDUM.

"Forelar Serfice" writes that the rearganisation of the Medical Staff foreshadowed in Mr. Stanhope's memerandum' will inflict-injustice on officer serving abrouil ly exacting additional foreigu service without ady equivalent money compensition; he also complains that the question of rank and statu secms ignored: in the memorandnn, and says it is quite impossible for a civilian to understand the military position of a medical officer from existiog titles.

## THE ARMY MEDICAL RESEHVE.

A Milimamar writes: As a militia medical offacer entitled to selection ior employment already, the only adrantage offered by the new Warrant, why should I subject myself to the chance of being found untit, and, as you cug gest, removed Irom the department nitogether? Besides, as medical officers of militia not belonging to the department get double pay when attendiog other men than their own, it is mon'more adyantageous not to belogg to a department (sed Ned. Reg., page 167.: paragraph S68. Part 5, Seetion 1); For instance, $I$ was placed in charge of 1,200 meatin addition to my own at the training; as a departmental man I teceived notbing extra; if I had been strictly regimental, I should have got ato iu addition.

Yenibers of the Reserve ate to have precedence aver civllini pactitloners. Does that mean they will not be reckoned as elvilians themsolves?

THE NAVY.
Staff Subgeo William Evans, retired, djed in Londoo on March 20th, at the ace-of 6:3. His commission as Sargeon bore date September 1 st, 11816 , and as Staff-Surgeon Februarr 17th, 1858 .

Surgean H. J: M.C. ToDn bas been nppointed to the Alexandra.
Staf-Surgeon, A. R. R. Prestoy, M.D. retired, died at 'Port Alfred, Sonth Atrica on Febrnary 13th. He entered the serrice September 1st, 2840, and wad made Staft-Surgeón May lst, 1857.

## THE MEDICAL STAFF

Strgean-Mafor R. Turiner, of the 3rd Brigade Cinque Ports Division Royai Artillery (otherwise the Roval Sussex Artilery Militia), has resigned his comArtilery (otherwise the Royarlassex Arion whe is permitted to retain his rav and uniform.

Brigade-Surgeon J. Inksor, M, 1), oo arriral from England, is posted to do general duty io the Bangalore District, Belgaunand Ceded Districts, Mauras command.

- Surgeon R. F. Kelizy, M.D. On arrival from Ragland, is posted to do general duty in the Hurmble Diyision, Madras command.
Brigade-Surgeon R.J. W, OrtuN died at Neweastle. Staffordshire, ba Marcb 20th, aged 56. Me entered, the serviee as Assistant-Surgen, Uay 25th, 1858 ; tecame Surgeon March 1st, 1 si3; and Surgeon-Major April 1st, 10 , placed on'retired pay with the honorary rank of Brigale-Surgeon June 27 th, 1851. Brigade-Surgeon Horton served oo the Sedical Staff ist the Crimea from February 23 r d to September $12 \mathrm{th}, 125 \mathrm{sin}$ (medal with elasp from Schastopol, and Turkish medal), and with the dith Hegiment duriag the campalyn in the North of Chita in 1868 (medal aod clasp for Takn).
Surgeon-Major R. IF. Gardsfr, M.D., died at Cheltenhan on March 10th, at the early age of 36. His Surgeon's commisaion was dated September 30th, 187 .
 elasp.
Surgean-Major L. Corzav, M.D., Is promotel to be Brigade-Surgeon (rankiog as Ifentenant Colonel), vice John Micketaie, M.I), retiren. Dr. Corman phtered the service as Assistant-Surgeon September 30thit 186t; hecame Surgeon March 1st, 1873; and Surgenm Majnr september 30th, 18 iti. © Has tays Hort"s - 1 rmy Joist) aperially thanked by Lurd Napier of Magdala, Cousmander-lo-Chief in Indin, in General Orders for services isuring an cyidemie of chotera in Oude In 1si2. He serveql in the Egyptitn war of 1882 In medical charge of tho 2nd Battaion. Duke of Cornwiall's Light Infantry, and was present io the engagementsat. Fil Magfar and Tet-cl-Mlahuta, in the two nctions at hiagsusin, engagementsat. aud at the battle of Tel-ei-kebir (mentioned in elespatches, promotal and hioMajor, with relativa rank of lieutenaut-Colonel, medal with elasp, and Sanlor dive's Star), IIe serverl also with the Nile' IExpenition ia $1884-58$ as senior Medical, Officer to tiso Camel Corps: Nedital Fiehd Inspector on the Lines of Comrannication, and Seolor Medical Odicerat, Abn Fatmelt (clasp).:
Surgeon-Major IR. F. Biocranas is granted retirea piay. Ilis commissfons ara dated;-Lasistant-Sirgeon, March 31st, 1ath; Surgeon, March 18t, 7873; and Surgeow-Major, Mnrch 31st, 1878. - Me servel during the A [ghan war, io, 1878-79 with the Kuram Field force, and receised the medal for the canmagh.
Surgeon W. . SmITR, M.D., of the 3rd Volumt cer Pattalion West Kent Regoment (late the 4th Kiest), is
new Army Medical Heserve

THE INDIAN MEDICAL SERVICE.
The retirement of Surgeon-Gemeral W. J. Moore, C. I. E., of the Bomlay Establishment, and of Deputy Surgeon-General 1t. F. II uTcAisSaN, M.D. of the Benal Establishment, announced some time bince in the, Jol'RNaL, has received Surgcon-General, his retirement datiog from December $9 t h, 1887$. Surgeon-Major W. F. Kyarr, of the Bombay Establishuent, has been \{ransferred to the retired list frorn the half-pay list, on which he was placed March 18th, 1884.
Tho eervices of Surgron-Major J, Witsor, M.D., Bengal Establishment, are mporarily placed at the disposal of the Government of Beagal.
The services of Surgeon A. O. Livass, Madras Establishment, are temporarily aced at the disposal of the Government of India in the Home Department for employment in Lower Burmsh.
Surgeon H. P. Dimsock, Bombay Distablishment, is appointed to sct as Proressor of Pathology, Grant Medical College, during the alusence of Surgeon R . Manser.
Tha aerviceb of Surgebn J. Macgneaor, M.D., Bombay Establishment, are temporarily placed at the disposal of the Govermment of India.
Surgeon W. H. Quicke, Bonbay Establishment, is posted to general duty in the Mhow Division

Surgeon M. A. T. Collie, Bombay Establishment, is appointed Secretary to the Surgeon-Geaeral with the Government of Bombay, vice Surgeon-Major D A. Patterson, transferred to other duty.

Brigade-Snrgeon H, Cnok, M.D., Bombay Establishment, Civil Surgeon st Poona, is sllowed leave of absence to Europa for twelve months on prirate sfairs, with the necessary sulisidiary leave.
Surgeon-Major Jajres Petermix, Iate of the Madras Establiebment, died at Kew on March 18 th, aged 50.
Surgeon-Major E. Sanders, Bengal Establishment, is appointed Honorary Surgeon to the Ceatral Bengal Light Horse, vice Brigade-Surgeon S. M. Shircore, resigned.
Surgeon F. D. C. $11 \Delta \pi$ EIVs, Bengal Establishment, Civil Surgeon 2nd olass, is transferred from Sultanpore to Minpoorie.
Surgeon-Major D. P. Macdonald, M.D., Bengal Establishment, of the 1st Battalion 2nd Goorkhas, Las leave of absence for one year on private affairs; and Battaion 2nd
Surgeon D. Elcum, of the Madras Establishment, Zillah Surgeon at Berhampore, has leave to Enrope for eighteeu months.

Surgeon-Major T. C. H. Spenoer, of the Madras Establishment, having remied from furlough, is posted to do general duty in the Eastern District. Surgeon W. H. Burke, M.B., Bomhay Establishment, is directed to act as Civil Surgeon, Rutnagherry.
Surgeon-Major A. BARrr, M.D., Bombay Fatablishraent, is promoted to be Brigade-Surgeon. He entered the serfice March 31st, 1805, and became SurgeonMajor twelve years therefrom. He was in the Abyssinian war in 1867-68, snd in the Alghsn' war in 1880, and took part in the march to Candahar with the force under Hajor-General Phayre; he has the Abyssinian and Afghan modals.

## THE VOLUNTEERS.

The vodermentioned gentlemen have been appointed Acting-Surgeons to the corps specified :-A. W. KNox, M.B.. Ist Volunteer (Norfolk) Brigade Eabtern Division Royal Artillery (late the Ist Norfolk Artillery); G. A. Gloag, 2nd Gloucestershire (the Bristol), Fortress and Railway Forces, Royal Engineers (that is, Engineer Volunteers) ; F. J. Krnwles, 2nd Volunteer Battalion South Lancashire Ileqiment (formerly the 21 st Lancashire) ; Simoy Linton, M.B., Ist Fifeshire Artillery: J. F. TaBB, 2nd Kent: G. D. Tonn,
Acting-Surgeon TALFOURD Jowes, M.B., of the Ist (Brecknockshire) Volunteer Battalion South Wales Borderers (late the Ist Brecknockshire), has resigned his Battalion South Wales Borderers (ate the Iith precmission to retain his rank and oniform.

Surgeon J. L. W. WARD, of the 3rd Volunteer Battalion Welsh Regiment (late the 2ad Glamorgan Volunteers), has been granted the honorary rank of SurgeonHisjor.
Acting-Surgeon W. L. Braddox, M.B.. of the 2nd Volnnteer Battalion Worester Repiment (late the $2 u d$ Worcester), has resigned bis appointment dating from September loth last.

Mr. A. C. Taylor, M.D., Is appointed Snrgeou to the South Nottinghamshire Yeomenry
Surgeon H. P.Symasis, from the Ibt (Oxford University) Volunteer Battalion Oxford Liglat Infantry (othorwise the Ist Oxford), is appointed Surgeon to the Queen's Own Oxford Yeomanry Hussars.
Acting-Surgeon G. Bouton is transferred from the 1st Nortlumberland and Sunderland Artillery, on its division inte two corps, to the 5 th Durham Artillery as Aetiog-Surgeon, the date of his cornmission remaining unalrered.
Acting-Surgeon I . E. Sthemers, of the lst North Jtiding of Yorkshire, has resigned his sppointment, which hore date February $191 \mathrm{~h}, 1887$.
Acting-Surgmons A. F. Turame and E. F. Finfot aro transferred from the 1st Volmoteer (fampsinire) Drigade. Southeru Division Jtoval Artillery, on ita
 dates of their commissions remaining unchanged.
Surgeon and Ifonorary Surgeon-Major A. T. Nortos is appointed Surgeon Commandant to the Londonfivision of the Volnntefer Medical Staff Corps, vice J. Cantlie, M.B., resigneil. Surgeon-Major Norton joined the corps on June 11th, 1885 .

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## A LIBERAL FRIENDLY SOCIITY

A Honrafien Corrispondert writes:-1. "I agree if appointed ly the Committee of Managemeut, to accept the oftisc of medical referee for the Liverpool mittee of Managemeut, to accept the othec of medical refere for the For exanulHetoria Friendly, Soclety, it nation of sssurers for amounts ahove f12 and up to and including £35, not vation of sssurers for amounts above £12 and up to and including
more than ls. in each case; for assurers abovo for and uader fi50, not more more than la. in each case ; for assurers abova £25 and uader 250, not more
than 4s. in each case ; for assurcrs ahove fon and under floo, not more than 5s, iu each case, and for assurers for $£ 100$ snd upwards, not more than is. 6 d . in each case.
2. "I agree, if appoiated by the Dinectors, to accept the office of medical referee for the National Medical Aid Company, Limited, at ...., upon the following terms: A remuneration of 2s. Bd. per annum for each member placed on my books by tha Company."
The above are extracts from two forms given to rue by an individual who ropresented himself as agent for, and wanted me to thecome medical referee to, the two above societies.
I took No. 2 first, snd asked. "Who is the elab intended for?" His answer Was: "The middle classes:" I told him I ehould never dream of attending middle-class" patients at 2s. 6d. per head per annum. "Then what pould ron take?" he asked. I mentioned a aum considerably larger. "Oh! I can write to the managers and get you that I think, or at sny rate 80 per cent. on the gross collectious," was his reply.
I said no more, but wondered where the extra mones was to come from, and how sn "agent " conld promise me such exceptional consideration. I might add that the rate of payment of members is Id. per week adults, $\frac{1}{3}$ d. per week under It years of age.
Now for No. I. It thought what examination for life insurance means. Details forsonal history, detaile of family history, examination (by percussion, en personalion etc.) of thoracic viscera; examination of abdominsl viscera nsculation and testing of urine, and various other details required. Thea I examination and testing of urine, and various other details requ.
1 goon made up my mind, and told the agent, "I wonld rather not accept the office for either." In which conclusion I sincerely trust all other profesgional brethren will heartily concur.

Surely the profession has not become so regardless of our "status" as to allow auch societies "to cram down our throats" any patienta they may think fit for ns to attend at fees according to their appointing. Let us stand together as a body, unanimous on every point, and refuse to hare to do with lut afs or make them come to consult us first as to our charges and class of patients whom we consider should be admitted into such societies for sttendance.
Let us think of our "social" position as a body, and each sad erergone of us, by refusing to have to do with such as the sbove, protect not only onr own personal interests, but that of every professional brother; in doing which we should also increase that one end which should always be our aim: "Lnadimity in our brotherbood.'

## IMPERFECT PROTECTIGN.

Ir. Bucharax.-Unless the person complained of, by frandulently adopting a regist rabla title, has exposed bimself to a prosecution under the 40th Section of the Medical Act, we know of no steps that can be taken.
The surgical nature of the case wonld debar the Sociefy of A pothecaries from the inderstand, 8 indictment for false pretences has slready been brought againat him, and thrown out.

## NATIONAL MEDICAL AID COMPANY.

A COUNTRY MEMDER writes to us with reference to tha action of the National Medical Aid Company, in his neighbourhood. We hare sereral times lately expressed our opioion ss to the conditions offered by this Company, and we cordially agree with our correspondent that "It is not creditable to onr profession that men should be found willing to undertake work on such conditions."

## HOSPITAL AND DISPENSARY MANAGEMENT.

## MERCER'S HOSPITAL, DUBLINT.

The annual report for the year ending December 3lst, 185\%, shows that the expenditure was $£ 2,360$ 12s. . th. ; the income, $£ 1,741$ 13s. 3d., showing an excess of expenditure of $£ 61819 \mathrm{~s}$. 1d. A serious deficit would have occurred but for some large legacies. The deerease in income, however, occurs almost entirely under the heads of interest and diridends. The governors complain of the resolution of the Dublin Mospital Sunday Fund Committee striking them off the list of those entitled to a share of the annual collections. They state that they hare began the construction of new buildings.

## CORK DISTRICT LUNATIC ASILUY.

During the past year 278 patients were admitted into the asylum, while the discharges numbered 151 . The deaths amounted to 94. The admissions show an increase of 3$\}$, the recoreries an increase of 40 , and the deaths a decrease of 6 , as compared with 1856. A gratifying feature in last year's report is that the recovery rate was higher than for any of the past ive years. On the last day of the past year there were 958 patients in the asylum. The question of increasiug the accommodation at the female side of the honse, in order to relieve the congestion that bas existed for some time, is one that the resident medical superintendent recommends to the consideration of the board of governors. The average allownnce of cubic space in Irish asylums appears to be 600 cubic feet per patient. At this rate the accommodation in the asylum, including hospitals, is for 902: excluding hospital beds, which may at nny time be necessary, there is only accommodation for 802. The Cork District Lunatic Lsylum at present contains 151 pauper lunatics from the Cork Union, and from the entire county 226 workhouse patients. The Cork guardians formerly paid the governors for these patients, but latterly have dis-
continued it. The govemors, howerer, insist upon payment, and a meeting of a committee from tho governors and guardians has been agreed to in order to consider the question of payment. Dr. Nugent, an Inspector of Lanatic Asylums in 1reland, has expressed his approval of enlarging the aceommodation in the workhouse lunatie wards, which has been done rery successfully in Belfast, but he does not approve of the lunatic asylum being made subsidiary to the workhouse with reference to the admission of dangerous lunatics.

BELFAST OPITTHALMIC HOSPITAL.
Ture annual meeting of the supporters of this institution was held on March wath, under the presideney of Mr. F. D. Ward, J.P., and was largely attended. The medical report showed that 76 cases Had been received into the hospital for treatment or operation. At the dispensary attached to the hospital 956 oye eases, 290 ear cases, and 160 throat affections had heen treated, making a total of 1,482 cases. Dr. Walton Browne reported that among the operation cases were 25 cases of cataract, which had been operated on without the loss of a single cye. By a recent resolution the certificates of the hospital had been recognised by the Royal University.

- THB Bishop of Winchester (Dr. Harold Browne) will open the new wards of the Royal Portsmouth and Gosport llospital on the afternoon of Wednesday, May 30th.


## PUBLIC HEALTH

Asid POOR-LAW MEDICAL SERVICES.

Health of Exglish Towns.-During the week ending Saturday, March 31st, 5,564 births and 3,882 deaths were registered in the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons. The annual rate of mortality per 1,000 living in these towns, which had been 20.3 and 21.1 in the two preceding weeks, further rose to 21.6 during the week under notice. The rates in the several towns ranged from 15.1 in Birkenhead, 17.8 in 11ull, and 18.3 in Cardiff to 26.4 in Manchester, 31.3 in Dolton, 33.3 in Blackburn, and 33.4 in Ireston. The mean deathrate in the twenty-seven provincial towns was 22.6 per 1,000 , and creeeded by 2.3 the rate recorded in London, which was 20.3 per 1,000 . The 3,882 denths registered during the week under notice in the twenty-eight townsineluded 388 rhich were referred to the principal zymotic diseases, against 363 and 319 in the two preceding weeks. Of these, 166 resulted from whoopingcough, 63 from searlet fever, 42 from measles, 35 from "fever" (principally enterie), 31 from diarrhcea, 27 from small-pox, and 24 from diphtheria. These 388 deaths were equal to an annual rate of 2.2 per 1,000 ; in London the zymotic death-rate rias 2.4 , while in the twenty-scren provincial towns it avernged 2.0 per 1,000 , and ranged from 0.0 in Preston and 0.7 in Portsmouth and in Halifax to 3.4 in Nottingham, 4.5 in Sheffield, and 6.1 in Blackburn. Measles eaused the highest proportional fatality in l'lymouth, Bradford, and Nottingham; scarlet fever in Blackburn; whooping-cough in Leeds, Brighton, lolton, Salford, Derby, and Blaekburn: and "fever" in Derby. The 24 deaths from diphtheria in the twenty-eight towns included 15 in London, 3 in Norwich, and 2 in Sunderland. Of the 27 fatal cases of small-pox recorded during the week under notice, 19 nccurred in Sheffield, 3 in Blackburn, 2 in Nottingham, 1 in leristol, 1 in Manchester, and 1 in Hull. The Metropolitan Asylums 110 pitals contained 9 small-pox patients on Saturday, March 31st, of whom 1 had been admitted during the week. These hospitals also contained 1,057 searlet fever patients on the same date, which showed a further decline from the numbers in recent wepks: there were 70 almissions luring the week. The denth-rate from diseases of the reapiratory organs in London was equal to 5.6 per 1,000 , and was below the average.

Healtil of Scotcit Towas.-In tho eight principal Scotch towns, 816 hirths and 509 deaths were registered during the week ending Saturday, March 318t. The annual rate of mortality, which
had been 21.0 and 22.2 per 1,000 in tho two preceding reeks, further rose to 23.7 during the week under notice, and exceeded by 2.1 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns, the lowest rates were recorded in Perth and Aberdeen, and the highest in Paisley and Glasgow. The 599 deaths in these towna during the week under notice included 45 which were referred to the principal zymotic diseases, equal to an anmal rate of 1.8 per 1,000 , which was 0.4 below the mean zymotic death-rate during the same period in the large English towns. The highest zymotic rates were recorded in Edinhurgh, Aberleen, and Clasgow. The largest proportional fatality of whooping-cough occurred in Aberdeen and Glasgow, and of diphtheria in Edinburgh. The mortality from disenses of the respiratory organs in these Scoteh towns was equal to 6.1 per 1,000 , against 5.6 in London.

Mealth of Deblin.-The 211 deaths registered in Dublin during the week ending Saturdny, March 31st, were equal to an annual rate of 31.2 per 1,000 (against 29.0 and 29.7 in tho two preceding weeks), the rate for the same period being only 20.3 in London and 22.8 in Edinburgh. The 211 deaths ineluded 15 from the principal zymotic diseases (equal to an annual rate of 2.2 per 1,000 ), of which 8 were referred to whooping-cough, 3 to measles, 2 to scarlet fever, 1 to diphtheria, and 1 to "fever."

## GUARDIANS AND MEDICAL OFFICERS.

A MEETING of medical men of Croydon and the neighbourhood was held at the Croydon General Ilospital on Wednesday, March 2sth, to neet Mr. M. Marshall, of Mitcham, and hear his statement of the difticulty between the Hobsom Board of Guardians and himself.
Although convened at short notice, the meeting was largely attended, and the subjoined resolntions unanimonsly agreed to.
Dr. Alfred Carpewter, Vice-President of the British Medical Association, was appointel Chairman. Dr. Duncan, the Honorary Secretary to the East Surrey District, Sonth-Fastern Branch of the British Medical Association, Surrey District, Sonth-fastern Branch of the British Medical Association,
thronth whom the arrangements for the meeting were made, aeted as Honothrongh whom
sary Secretary.
After Mr. Nía
After Itr, NARsIAI. had made a statement from which it appeared that he had been medical officer to the Mlitcham schools belouging to the IVoltom Guardians or their pretecessors for thirty-two years, and after lie had satisfactorily answered the numerous questions which were put to him by the asecmbled gentiemen, among whom were Dr. W. F. Coles, Croydon; Dr. Wilton, Sntton; Mr. Kelsey, Redhill: Dr. P. T. Duncan, Croydon; Dr. Alired Car penter, Croydon; Ir. MeNeice, Carshalton; Dr. Iearnden, Sutton; Dr. Moger, Carshalton; Dr. W. Smith, Croydon; Dr. Larsons-Smith, Addiscombe: Dr. Barmes, Croydon; Dr. A. B. Carpenter. Croydon; Mr. T. A. Richardson, Barmes, Croyidon; Dr. A. B. Carpenter. Croydol; Mr. I. A. dichardson,
Croydon: Dr. Nleholls, Crovion ; Mr. Philpot, Croydon: Dr. Adans, Croydon: Croydon: Dr. Nicholls, Crordon; Ir. Philpot,
Mr. George Wray, Mr. A. Mathey, and others:

It was moved by Dr. CoLEs, and secondel hy Dr. Irarder: "Tbat having heard the statement made by Mr. Edward Marshall, and the correspondence whtch has passed between him aid the Holborn Board of Guardians having been read, this meeting is of opinion that the aetlon of the lloborn Brand is unjust to an old and well-tried ofticer; that the circumstances fn no way warrant the action which that Board yroposes to tike; and that the President of the Local Government Board be requested to reluse his consent to the proposed removal of Mr. Marshall from his offiee."
onsed removal of Mr. Marshalifrom his office. Dr. Wintox: "That it is mly a
Moved by Dr. Parsons-Smith, seeonded by Dr. Moved by Dr. Parsons-Smith, seeonded by Dr. Wincox : "That it is only a
matter of justice to the nedical profession that medical and sanitmry officers. matter of justice to the nedical profession that medical and sanitnry ofncers.
who hare fulfiled their duty to the atisfactlon of a lacal anthority, should be entitled to some superannuation, according to their length of service and the character of duties performed."

Moved by Mr. A. KELSEy, seeonded by Dr. Mioorn: "That this meeting is of opinion hat no sanitary or medical officer holding oflice umder any public authority shonld lie reniovnhle exeept lor gmve negleet of duty or for some other ranso whieh has rendered him incompetent to perforin the duties of his other ca
Moved by Dr. P. T. JtNCAN, seconded by Dr. JicNercr: "That the alove resolathons be published in the Hartasit MEincal Jotirsal, and forvardedto
 man of the Parliamentary Bills Committee of the British Medical Associatiun."

## OBITUARY.

## IROFESSOR FFEDELE FEDELI, M.D.

THAs eminent 1 talian phrsician died on Marela Gth, at the age of 76 . IIe was loon at Campighia Marittima in 1812, and spent his life in the teaching and practice of his profession. He oceupied the chair of Clinical Medicine in the University of Pisa witla great credit to himself and benefit to several generations of students. lle was also medienl inspeetor of the hot springs of Montecatini, the virtues of rhich he set forth in a variety of publications, both in French and Italian. IIe wrote also on several other medical subjects, his last Fork being the Clinica Medica della R. Universitd di Pisa. In 1876 he wrus named a Senator of the kinglom of Italy,
but he took little share in the work of the Senate. He was buried at Pisa, the funeral being attended ly the municipal authorities and a vast concourse of stulents and citizens.

## MEDICO-PARLIAMENTARY.

## HOUSE OF COMMONS.

## Notices of Motion.

Notrces have been given of the following questions:
Dr. Taxskr : To ask the Secretary of State for War whether the Rosal Warnat of November, 1879, which gave officers of the Army Hedical Staft the rinht to retire after twenty years service, is nbout to be interfered with or set alde. Whether the condition of rctirement was intended as an inducenuent tome Warrant, if interlered with, will affect the retirement of those needlcal officers who entered the service since the Warrant was issuent.
Dr. TanNer: Toask the Secretary of State for War if it ls a fact that a Geberal Order has recently been issued to officers of the, Army Medical Stafl Corps restricting the height of recruits for the corps to the minimum of s feet 3 inches. Whether an importanat portion of the duty allocated to the men of tho said corps is to act as litter bearers for the purpose of carryiog the wounded men out of action. And what was the previous minimun standard of height lor recruits.

## UNIVERSITY INTELLIGENCE،

VICTOLIA UNIVERSITY.
Examination Lists,
(Candidates' names are in alphabetical order throughout.)
Faculty of Medicine.
Intermediate Examination.
Lah, A. E... First Division,
Uwens College
Beaver. H. Acond Division.
University College
Uaiversity College
Grifitli. A.
Owens College
Owens College
Robinson, $\mathbf{F}$. Wilson, A. C..

University College
Distinguished in Anatomy.
Ash, A. E.. Ow ens College.
Worrocks. H .
Distinguished in Pliysiology.
Edwards, G. F., Owens College.
Horrocks. $11 .$,
Worley, $\dot{P}$.,
Final Examination.-"Part I.
Alcock, R., Owens College.
Buchanan. R.J. M., Unirersity College.
Fearnhead, T. Owens College.
Relynack. T. N.
Stansfielli, F. W
Thresh, J. C.
Watson, A. B
Woor, 1. L.
Final Examination-Part I1,
Pomfret, MI. W. W., Owens College.
Distinguished in Patlology.
Thresh, J. C., Owens College.

## MEDICAL NEWS

Lxaminifo Doatr in Exglayd by the Royal College of aysicians of london añd the Roval College of Surbons or Exgland.-The following gentlemen passed the Second xamination in Anatomy and l'hysiology at a meeting of the oard of Examiners on April ?nd, namely:-

Stalker T. (7. Ouston, d. 13. Sturges, and C. Bemson, of Leeds School of Medicino: J. L. Gormm, A. W. D. Michacl, S. II. ITery, La. P. Garngec, C. A. Green, and A. J. Green, of Bimangham: II. S. Jackson, I. W.

Irvland, S. II, Lucy, and F . F. Surase, of Iristol School of Medicine; I).
L. Daves, J. II. Dow, F. I. Eletcher, I. M. Littler, sind J. S. Whitaker.
of Owens, College, Manchester; IT. IIopkins and IK. II. W. Dunderdale, of
Liverpool Intirmary School of Medicine.
Passed in Anatomy only.
II. Cross, of Shefleld, and W'. Yemrson, of Owens Cullege, Manchester.
l'assed in Physiologs only.
S. Finch, of Liverpool ; A. W. Scnior, of Manchester ; and C. Wintle, of Bristol.
Tassed in Anatomy ouly on April 3rd.
B. B. Sawhiny, of N"weastleon Tyne: In. G. Neale and J. S. Griffith, of Bristol School of Nedicine: I. C. Puttom asd A. M. Therdmore, of Sheifield; J. T. Barrow, of Charing Cross Iospltal ; J. S. Sewell, of Liverpool;
W. A. Stott and J. Fearnley, of Leces School if Medicino J. S. Mickford;
D. Hoadrilge, and G. W. Holton, of Owors Collogg, Mancheater; G.

Kendrick. of Birmingbam; D. N. Morgan and IR. R. M. Wonnacott, of Iondon Hospital: C. W. Emlya, of St. Bartholomow's Hospital ; and 0. E. Keller, of Leipzig.

Passed in Physiology ouly.
C. F. Sutton. A. II. Aldridge, and R. Smllt, of Owens College, Manchester: W. H. Yolitit, O. F. Rowley, H. Tempest, E. B. Collings, nad A. IT. Reinhardt, of Leeds ; E. P. M. Lulham and A. II. Meadows, of Giu's Hospital; O. M. Arkle, F. C. Wimberly, and S. Greenwood, of Birmingham; W. Hutchinson, of Haward University; W. B. de Mille, of Halifax. Passed in Anatomy and Physiology on April 4th.
B. G. M. Baskett, of Bristol School of Medicine : C. II. Preston, of Owenis College, Nanehester: R. II. Shaw, of Leeds; B. L. Mobinson, of St. Marys Hospital: T. L. Paget, M. L. Hepburn, R. G. Hogarth. F. Turner. and C. Addison, of St. Bartholomew's Hospital; F. R. Riley, E. Chichester, A. II. Smith, C. S. Walfridsson, and W. H. Sturge. of Londun Hospital: R. M. II. Wallord, of St. George Hospital; C. de Silva, of Ceylon Medical College: C. Ellerman, of Heidelbergand Mr. Cooke's School of Anatomy; H. C. Harper, of Westminster Hospital: $T_{W}$, G. Stevena and W. Winslow, of Guys Hospital: D. F. Shearer and W. P. Umpey. of St. Thomss's Hospital; T. If. Ionides, of University College ; X. J. Vaishnav, of Grant Medical Collego.
Passed in Anatomy only.
A. W. German, of Liverpool ; G. Martyn, of King's College ; A. A. Fennings, of St. Mary's Hospital; and J. W. Graham, of St. Hartholumev's Hospltal. Passed in Physiology only.
S. F. Wrigh, of St. Thomas's Hospltal.

Society of Apothecaries of London.-The following gentlemen having passed the Qualifying Examination in Medicine, Surgery, and Midwifery have received certificates entitling them to practise in the same, and have been admitted as Licentiates of the Society.

Abbott, Erederic William, Redruth, Cornwall.
Barratt, Jobn Oglethorpe Wakelin, 15 , Holloway Head, Birmingham.
Clarke, Thomas Henry, Montague Place, Poplar, E.
Cleveland, Henry Francls, 26, Kidbrooke Grove, Blachheath, S.B.
Coryn, Herbert Alfred Wiliam, 153, Aere Lane, Brixtua, S.W':
Evans, Eran, hing Street. Trinity Square, E.C.
Griftiths, John. The Grove, Ruyton XI Towus, Salop.
Metcalfe, William, Field House, Ingleton.
Read, Arnold Edward, St., Paul's Vicarage, Devonport.
Samman, Charles Thomas, Deddington, Oxfordshize.
Sbirtliff, Euward Dickinson, Elmside, Kingston-od-Thames.
Watkins, William James, 19, Rivers Street, Bath.
Willims, Frederic Newton, 181; High Street, Brentford.
The following gentleman passed the Medical portion of the examination.
H. T. S. Aveline, of the Bristol School of Mericine ; E. Balr, of the Londoh Hospital: A. E. Horsse, of King's College Hospital: H. H. B. Macleod, of King's College Hospital.
The following gentlemen passed the Surgical portion of the examination.
B.II. Andrew, of King's College IHospital: W. J. Best, of the London Hospital: M. P. Cooke, of the Miduleses Hospital, U. H. Cosens. of St. BurStanley, of King's Coltege IIospital; H. D: Trist, of St. Bartholomer's Hospital.

## MEDICAL VACANCIES.

The following Vacancies are annonnced :
DHREENHEAD BOROUGII HOSPITAL: - Junior House-Surgeon. Salary, f50, boird, etc., nnd extris. Applications by April Inttb to the Chairnan of the Weekly Board.
birmingifaik general dispexsarx-Resident Surgeou. Salarg, fi5o, and £30 extra for cab hire; Applications ly Hay 10 hh to A. Furtest, Lisq. Serretary.
CENTLAL LONDCN OPHTIALMIC $11 O S P 1 T A L, ~ G r a y ' s ~ l n ~ R o s i .-H o u s e ~-~$ Surgeon. Applications by April loth to the Secretary.
CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHBST, Fictorla Park.-IResident Clinical Assistant. Applications by April deth to the Sec retary, 3 , Fiinsbury Circus, E.C.
DERBY BOROUGH ASYLUM- - Yedical Snperintendent. Salary. £3so. with furnished house, etc. Applications by April 1sth, to be midressed to the Derby Borough Asylum Committce, under cover to tho Town Clerk, and endorsed "Medical Superintendent."
DURIAM UNION FOEKHOUSE,-Medical Officer. Sahry, fin, and extras. Applications by April zoth to William Lisles Lsq., Clerb 'W the Cuardians. 38, Sader Street, Durhan.
HOSPITAL FOI CONSUMPTION AND DISEASES OE THL CHEST, Brompton. Iesident Climical Assistants. Applications by April ith, to the Secretary.
 Salary, e35, with board and lodging. Applications is duril yth, to C. W: Carver, Esq... Honorary Eccretary.
LIDDELL PIROYIDENT DISPENSARI, Jarmwon-Tyme.-Mental OMiver, Salary, £200. Applications to John Christie, Lisq., 2s, Comien Streef. Jarrow.
 cloz per mnnum anil fees. Appications 10 Mr. James IIfighins, Itonosary Secretary. Election on April Iith.
OUGHTERARD UNIOX, Lettermore Dapeasary.-Medicat Ofler. Salary,
 Secretary; Tully, Inveran. Wlection on ipril lith.

PAIRISH OF TiRBAT EUSTER, lRoss-shire N. B--Medical Officer. Salary, ellb. Applientions to Finlay Munro, leockitid-by Fearn, Hoss-shire, N.B.
hOVAL ALBEIRT IIOSPITAL, Devonport,-lfonomary Ophthalmic Surgeon, Applications by April sth to the Chalrman of the Scloction Committee at the Iospital.
ST. LORKis HOSPlTAL.-Resident Clinienl Assisfant. Board nnil lodging. Applications by Aprit 26th to the Secretary.

## MEDICAL APPOINTMENTS.

Brackert, W.C., M.R.O.S., L.S.A., reappolated Medical OAficer of Mealth to the Durbam Union.
Bost, O. K., M.R.C.S., L. R.O.P., appointed Clinical Assistisnt to the Ceatral London Throat, Har, and Nose IIorpital, Gray's Ina Read, W.C.
Brooks, J, Pratt, M.18.C.S., appointed Cllnical Assistant to the Central London Throat, Ear, Bud Nose 11 ospital, Gray's Inn Rond, W.C.
Brooks. IR. P., M.R.O.S.Fing., L.R.C.P., appolated Second Ilouse-Surgeon to the Tottenham Training Iospital, Tottenham.
Brown, ML Las M.D.Ed., appointed Surgeon Administrator of Anasthetics to the Dental ilospital, Exeter, vice A. C. Iloper, M.R.C.S., resigned.
Clarke, J. St. Leger, M.R.C.S., L.K.Q.C.P., has heen appointed Senior Honse Surqeon to Jervis Street Hospital, Dublin, vice G. Stoker, L.I.C.S.S., L.K.Q.C.P., resigned.

Darex, W. MI. C., appointed IIouse-Surgeon to the Charing Cross Hospital.
Dunlop, T. Cameron, M.D., appointed. Medical Officer to Glasgow Iron Works, St. Rollox, vice Dr, Walker, deceased.
Fusld, A. Theodore, :M.R.C.S.Eng., L.S.A., appointed Medical Officer and Public Vaccinator of the 4th District of the IIollingbourne Uniou.
Godfrey, A. F., M.B.Londi, L.R.C.P., M.R.C.S., appointed Hoase-Surgeon to the General Iufirmary, Northampton, vice W. E. Audland, L.R.O.P., M.R.C.S., resigned.

Grathing, Arthur, M.R.C.S., appointed Medical Officer to the Forest Hill Provident Dispeasary, vice G. C. Parnell, M.R.C.S., resigned.
Gurw, Christopher, M.D., M.Ch., appointed Surgeon to the Dublin United Tramways Company, vice E. A. White, deceased.
Jahes, J. T., M.B., appointed Assistant-Surgeon to the Ceatral Loudan Ophthalmic Hospital, Gray's Inn Road.
Mitchell, W. G., M.B., M.A., appointed Medjeal Officer to the Gleamuick Parochlal Board, vice H. Haldane, L.F.P.L.S., deceased.
Peck, Herhert, L.R.C.P.Ed., appointed Resident Assistant Medical Officer to the Workhouse, Walton-on-Mill, vice Henry T. Groom, M.R.O.S.Eng., resigaed.
Prowse, Arthur B., M.D.Lond., F.R.C.S.Eng., appointed Physician to the Bristol Moyal Infirmary, and Dean of the Faculty, Bristol Royal Infirmary. Sncrair, W. J., M.D., M.A., appointed Professor of 'Ohstetrics to the Oweus College, Madehester, vice Professor C. J. Cullingworth, M.D., resigned.
Weateraby, A. J., L.R.C.P., M.R.C.S., appointed Assistant IIonse-Surgeon to the General Iofirmary, Northampton.
Wflis, A. P. L., M.B., C.M., appointed Assistant-Surgeon to the Central London Ophthalmic Hospital, Gray's Inn Road.
Wriss, W. A. M.B.Lond., M.R.C.S., appointed Medical Registrar to the Westminster Hospltal, vice H. W. Syers, M.D., resigned.
Woon, T. Ontterson, M.D., F.R.C.P., F.R.C.S.Edia., M.R.C.S.Eng., appointed Physician to the St. George's and St. James's Dispensary, vice F. H. Hawkins, M.D., resigned.

- The Reform of Lunacy Procedure.-The annual reports of Garlands Asylum, Carlisle, always contain some interesting information either on the treatment of insanity or the management of asylums. The report for last year is no exception to this rule, and, in addition to the usual information, has some valuable remarks bearing on lunacy legisIation which ought to be of service to our legislators at a time when the Lunacy Acts Amendment Bill is before the Ifouse of Commons. It is gratifying to obserre that Dr. Campbell's Committee are fully alive to the importance of the subjeet, and have forwarded a copy of Dr Campbell's remarks to the Lord Chancellor.

A well-known resident of Caleutta has offered 10,000 rupees towards the building or purchase of suitable accommodation for the Lady Dufferin Zenana Hospital for Women and Children, proFided the Bengal Branch of the National Association can find 15,000 rupees for the same object. It is stated that without special help the Bengal Braneh will not be able to find so large a sum, its small capital being barely sufficient to raise an income for the maintenance of the present establishment and scholarships.

Illubtrations of Nervous Dibease.-A new journal devoted to nerrous diseases has apleared in France, with the title Nouvelle Iconographie de la Salpetriere. It is edited by MM, Paul Richer, (iilles de la Tourctte, and A. Londe, under the general supervision of M. Charcot. It will be published trice a month, and will be . If fusely illustrated. The publisher is M. Leerosnier.

THe publication of a new journal for nurses is announced by Messrs. Sampson Low and Co., bearing the title of the Nursing liciord. It will be published weekly, price twopence.

Macroom Union.-The report of Colonel Spaight, Local Government Board Inspector, for the past six months is of a satisfactory nature as regards the general managemont and condition of the workhouse. He, however, states that the drainage of the infirmary and separation wards is not in a proper condition, and he recommends that the guardiaus should consult a competent authority as to the best means of remedying thle defect.
The Peak Hydropathic and Thermal. Establisiment at Buxton.-Tbis establishment, which has been considerably enlarged and remodelled tbroughout, was opened on Monday, when a dinner, concert, and dance were given by Dr. and Mrs. Hyde.

Adulteration of Milik.-A few sucli fines as that inflicted recently on a Govan milksolier should have a considerable effect in reducing milk adulteration. The offender in this case was fipei £ for selling milk adulterated with 10 per cent. of water.

## MEETINGS OF SOCIETIES DURING THE NEXT WEEK.

## MONDAY.

Medical-Society of Losdon. 8.30 P.m.-Dr. Ord: A case of Ulcerative End carditis. Mr. Astley Blonam : On the Treatment of Syphtlis b Intramuscular Injection of Mercury.
Odontolgaical :Society of Great Britain, 8 P,M.-Dr. Streteh Dowse On some Practical Points In Relation to the Physiology ant Pathology of the Fifth Pair of Nerves. Dr. George Cunning ham: A Statistical Inquiry as to the Results of the Immediat Treatment of Pulpless and Abscessed Teeth. Dr. Campbell Casual Communication.
Sochetr of Arts, 8 p.M.-Mr. Richard Bannister, F.I.C., F.C.S. : The Canto Lectures on Jilk Supply and. Batter and Cheese Mahiog Lecture 1.

Rorat Medical and Chrrurgical Saoiety, 8.30 p.m.-Mr. Ilerbert W. Page A case of Double Nephro-Lithotomy in which Lateral an Median Lithotomy had been prevlously performed, with R marks on Sympatiny between the Kidneys. Sir T. Spencf
Wells, Bart.: Remarks on Splenectomy, witl a Report of a Su cessful Case.

## WEDNESDAY.

British GyN.ecological Societs, 8.30 P.M.-Dr. Robert Bell: On latr uterine Medication. Dr. Richard T. Smith: Cystic Disease the Cervix and Indometrium. Specinens will be exhibiter. cietr 8 p.a.-Dr. Dundas Grant: On Tinnitus Aurinm. If De Berdt Hovell: Therapeutic Reminiscences. Dr. A. Davies: A Case of Paralysis.
Royal Microscopicat Societr, 8 p.M.-Dr. R. H. Ward: Fasoldt's Test Plate Epidemiolooical Sociemi of London, 8 p.M.-Mr. Jolin Spear: The Dangi of Specific Contamination of Water during its Distribution, Iustrated by in recent Kpidemic of Enterle Fever, with certal other points in the Etiology of that Disease.

## FIRIBAI.

Climical Society of London, \& p.m.-Mr. R. J. Godlee: Case of Acrom galy. Dr. Hadden and Mr. Ballance: Case of Aeromegal Dr. West: Cases of Acute l'eriosteal Swellings in several Your Infants belonging to the same Family, perhaps Rickety nature. Mr. Wainwright: Case Illustrating the Advantago
Early lacision and Drainage as opposed to Excision of Join: Dr. Hale White: Case of Perihepatitis.

## BIRTHS, MLARRIAGES, AND DEATHS.

The charde for inserting announcements of Births, Marriages, and Deaths is 3.6 which should be forwarded in stamps with the announcement. BIRTH.
Fexovinet.-Fehruary 13th, the wife of J. Peter Fenoulhet, Esq., Itorle Surrey, of a daughter.

## martiages.

Jones-Williams.-At Llanheris Church, by the Rev. D. Jones, Rector, on t 28th March ult.. Dr. ILiehard Jones, M.13., C.M., Blacmat Festiniug, to M 28tary Walsh Willlams, Nrw-Finir, Lamberis.
Maceenzie- Llamilon.-On April 4th, nt. St. Mary Ablot 's, liensington. lev. D. Kevill-Disvies, Lewis Mackenzic, to Augustib Catherine flamilton. Thorbury-Mflland.-On Wednesday, Marelr $2 s i h$, at the Comgrepation Church. Withingtoo, hy the Rev. l'rimipal Scott. Lil. I3., William burn, M.D., F.M.C.S., of Manchester, to Augusta, dau
Melland, Esq., of Moorfield, Withington, near Mandiester.
TrEVOR-MORPAEW.-On 2ath Fehruary, at Christ's Clanrch, Rawal Jin Punjauh, Indla, by the lRev. Gemble Nichols, if enry Octavitus, Trevor, Ary Medical Staff, son of Jumes Trevor, of Nether Stowey, Sumerset. to At Medical Staff, son oughter of Augustus Morphew, Army Mellical Staff.

DEATIS.
Looie.- On April fith. 1886, suddenly, Cosmo Gordon Logle, 3i.1)., F.R.S F.S.A., Surgron- Vajor Royal Iforse thards (Bluc). In nemoriam.

Procter.-On the 27th March, at Tunstall, Staffordshire, James Procter, M M.R.C.S., of angina pectoris, aged 57 y'ears.

## OPERATION DAYS AT THE LONDON HOSPITALS.

MONDAY.......... 10.30 A.M.: Reyal Londen Ophthalmic.- 1,30 P.M.; Guy's (Ophthalmic Department); and Royal' Westminster Ophthat Ophthalmic; Hoyal Orthopredic; and Hospital for Women2.30 P.M.: Chelsea Hogpital for Women,

TUBSDAY......,
A.M. : St. Mary's (Ophthalmic Department), -10.30 A.K. : Royal Loodov Ophthalmic.- 1.30 p.M.: Gny's: St. Bartholomew'a (Ophthalmic Department) ist.Mary s; Royal Weatmin-
ster Ophthalmle. -2 p.M. : Weatminater; St, Mark'a ; Central ster Ophthalmle. - 2 P.M. : W eatminater; St, Mark'a ; Central
LondonOphthalmic. $\mathbf{2 . 3 0}$ P.M.; West London; Cavcer Hospltal, Brompton. 4 P.M.: St. Thomas'a (Ophthalmic Department); 10 A.M. : National Orthopredic.- 10.30 A.M.; Royal London Ophthalmic.-1 P.M. : Middleaex.-1.30 P.M.St. Bartholemew's, St. Thomas'a: Royal Westminater Ophthalmic.-2 P.M.; London; Univeraity College ; Westmlaster; Great Northern London; Univeraity College; Westmiaster; Mreat Nartien Free Hospital for Women and Childred; St. Peter's.-3 to 4 Free Hospital for w P.M.; King'a College. -1.30 P.M.a St. Bartholomew's (Ophthalmic Department); Guy's (Ophthalmic Department); Royal Weatminster Ophthal-mic.-2 P.M. : Charing Cross; London; Central London Oph-Women.-2.30 P.M. : North-West London; Chelaes Hospital for Women.
9 A.M.: St. Mary's (Ophthalmic Departmedt).-10.30 A.M.: Royal Loridon Ophthalmic.-1.13 p.M. : St. George's (OphthaImic Department).-1.30 P.M. - Guy's; Royal Westminater Oph-thalmic.-2 P.M.: King'a College; St. Thomas'a (Ophthalmic Department); Central London Ophthalmic; Royal South London Ophthalmic; East London Hospital for Children.2.30 P.M. : West Londou.

SATURDAY...i...9A.M. : Royal Free-- 10.30 A.M. : Royal London Ophthalmi':1P.M.: King'a Cotlege.-l.30 p.M.: St. Bartholomew's; St. Thomas's : Royal Westıningter Ophthalmic.-2 P.M.: Charing Cross: London: Middlesex; Royal Free; Central London Ophthalmic.- 2.30 P. M, : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Craring Cross.-Medical and Surgical, daily, 1; Obetetric, Tu. F., 1.30 ; Sija, M. Th. 1.30 ; Dental, M. W. F., 9.

Gry's.-Medical and Surgical, daily, 1.30 ; Obstetric, M. Tu. F., 1.30 ; EFe, M. Tu. Th, F., 1.30 ; Ear, Tu. F., 12.30 ; Skin, Tu., 12.30; Dental, Tu. Th. F., 12. Kwa's College.-Medical, daily, $2_{\text {; Surgical, daily, } 1.30 \text {; Obstetric, Tu. Th. S., }}$ 2 ; O.p., M. W. F., 12.30 ; Fye, M. Th., 1 ; Ophthalmic Department, W., 1 ; Ear, Th., 2 ; Skin, Th. ; Throat, Th., 3; Dental, Tn, F., 10 ; ; Obstet ric, M. Th., Lospon.-Medical, daily, exc. S., $2 ;$ Surgical, daily, 1.30 and $2 ;$ Obstet ric, M. Th.
$1.30 ;$ o.p. W.S., 1.30 ; EJe, W.S., 9 ; Ear, S., 9.30 ; Skin, Th., $9 ;$ Dental, Tu. 9.
 1.30; Eye, W. S., 8.30; Ear and Throat, Tu., 9; Skin, Tn., 4; Dental, daily, 9. t. Bartbolomew's. - Medical and Surgical daily, 1.30; Obstetric, Tu. Th. S., 2;
0.p., W.S., 9; Eye, Tu. Th. S., 2.30; Ear, Tu. F., 2; Skin, F., 1.30; Larynx, F., 2.30 ; Orthopædic, M., 2.30 ; Dental, Tu. 'F., 9

St. GEorge'a.-Medical and Surgical. M. T. F. S., $1 ;$ Obstetric, Tu. S., 1; o.p.,
Tu., 2; Eye, W. S. 2 ; Ear, Tu., 2;SkIn, W., 2 ; Throat, Th., 2 ; Orthopsedic, W., 2; Dental, Tu., S., 9, Th. 1 .
Sr. Mary's.-Medical and Surgical, daily, 1.45; Obstetric, Tu. F., I.45; o.p., M. Th., 1.30 ; Eye, Tu. F. S., 9 ; Lar, M. Th., 3 ; Thraat, Tn. F., 1.30 ; Skin, M. Th., -9.30 : Electrician, Tu. F., 8 ; Dental, W, S, 9.30 ;
Operations, Tu., $1.30 ;$ Ophthalnie Operatione, F., 9 .
T. Thomas's.-Medical and Surgical, daily, excent Sat., 2 ; Obatetric, M, Th., 2 ; 0.p., W., 1.30; Eye, M. Th., 2 ; o.p., daily, except Sat., I. 30 ; Ear, M., 12.30 ; Skin, W., 12.30 ; Throat, Tu. F., 1.30 ; Children, S., 12.30 ; Dental, Tu. F., 10. UNTVERsity Colfege. Medical and Surgical, daily, 1 to 2 ; Obstetrics, M. Tu. Th., ${ }^{\circ}$ F., 1.30 ; Eye, M. Tu. Th. F., 2 ; Ear, S., 1.30; Skin, W., 1.45, S. 9.15 ; Throat, Th., 2.30 ; Dental, W., 10.30 .
Wastminstra.-Medical and Surgical, daily, 1.30; Obstetric, Tu. F., 3 ; Eye, M. Th., 2.30 ; Ear, M., 9 ; Skin, Th., 1 ; Dental, W, S., Я.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

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Manuscripts forwarnen to tee office of this Journal camot under any GIRCUMSTANOES BE RETURYED.
Pumio Mealth Department. - We shall be much obliged to Medical Offieers of Health if they will, on forwarding their Annual and other Reports, favour

To Correspomberts,
Our correspondenta are reminded that prolixity is a great bar to publication, and, with the constant pressiure apon every department of the Jooaral. brevity of atyle and concisancsa of atatement greatly facilitate early insertlou We are compelled to return and hold oyer a great number of comraunicationa chiefly by reason of their unnecessary length.

## GUERIES.

Mr. Richard Rice (Harwen, Steventon, Berks) asks where a woman who ia $\%$ slightly deaf could receive a course of training qualifying her for monthly Kinsing.

Post-Partun H.emorriage.
FELIX has to attend a lady who in her three previoua confinements has suffered from severe floodiog following the expulsion of the placenta. The labours have been otherwise in erery respect natural, and most faroursble in character. All goes well until the conclusion of the process, when complete atony of the nterus seems to take place; and it has been with the greatest difficulty that any of the usnal means aroused the appareatly exhausted organ to sufficient action to control the continual oozing or gushes of blood. It proved immaterial whether delivery was hastened or retarded, whether tha placenta was removed by hand, or left to Nature. Flooding followed, no matter what pras done. Hot water injections secmed to do some good ou the matter what pras done. Hot hater injections
last occasion.
With respect to ergotine, will some member give bis experience, and stato the best preparation for hypodermic nse? As to Schieffelin's pills of ergotin, can anyone give experience, and state how long they take, after administration, to produce contraction? Would the administration of lron, etc., for some weeks previons to confinement, be of any probable adrantage in combatr ting the tendency to hemorrhage ?

## ANSWERB.

R.M.B. - We do not recommendindividual practitioners.

## Treatmext of Heartburt.

Dr. E. H. Waryer (Barton Hill House, Bristol) writes: I gather from "A Member's" query In the Jorrval of March 24th that his case is one of chronio gastric catarrh, with dilated stomach, the contents of which, being mever thoronghly emacuated downwards into the intestinea, are retained, and undergo acid fermentation. I wonld, therefore, recommend him first of all to ensure a daily eracuation of the contents of the stomach by meana of a to ensure a dany eracuation of the contents of the stomach by meava of a warm solution of Glauber's or Carlsbad salts, given in the morning before any food is taken. In combination with this treat ment, in order to check fermentation, and give toae to the coats of the stomach, he will probably find the following formnla useful, namely; P, Acidi carbolici (liquid) miv; tinct. iodi
 hours. If "A Member" has the opportunity of reading the German Clidical Lectures pnblished by the New Sydenham Society, he will find some valuable practical hinta as to the treatment of gastric disorders.
F.I.C.S. writes: In reply to "A Member," who aske for " suggestions for the treatment of obstinate heartburn," let his patient try a tumblerful of milk.

## SEA-Sickness

Dr. J. R. Stoceer (Board of Trade Office, Glasgow) writes: The observations recorded by Drs. Leiser, Stockman, and Prentice (Jourval, March 2ith), as to the relief afforded in sea-sickness by forced inspiration, are by no means new. In a paper published in the Lancet, December 17th, 1891, when I was madical officer to the royal mail steamship Servia, I referred to thls in support of my views upon the etiology of the sickness.

## Vital Statistics of Contict Prisons.

Mr. R. Power (Portsea) writes: Medical statistics of conrict prisons are printed in the annual Blue Books, pnblished by Erre and Spottiswoode, and caa be ordered of any bookseller.

## Practioe in America.

DR. JAMES J. O'BRYEN (Lower Sydenham) writes, in answer to "Stars and Stripes:" 1 , American States : Arizona, Arkansas, California, Colorado, Columbia, Connecticut. Dakota, Idaho. Illinois, Indiama, Iorra, Kansas, Massachusetts. Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nerada, New Hampshire, New lork, North Carolina, Ohio, Oregou, Peansylrania, Rhode Island, Teunessee, Texas, Washington, West Virginia, and Wisconsin. Cansdian Statess: British Columbia, Janitoba, New Brunswick, Nora Scotia, Newfoundland, and Quebec. 2. No. 3. Yes. 4. The cost varies from fire to ten dollars, secording to the State registered in.
M.D. (U.S.A.) writes: In answer to the fonr questious asked by "Stars and Stripes" in the Jourial of Mareh 31st: I womld say, in auswer to the first, legally speaking, none. 2 . The laws of many States require all medical practitioncrs (American or British) to renister their diplomas before they can legally practise medicine. In other States no registratlon is required, but the person (American or British) practising niedicine must be duly qualified and hold a diploma, otherwise the anthoritics would soou be on his track, and proride a comfortable (?) home for him for a perioi of from two to seven years, according to the requircments of the case. 3. All persons graduating at any American Medical College must satisfy the professors of same that they have American Medical College musticitisy surgery, and obstetrics to successtully a aufficient knowledge of mentice, surgery, and obsterice ma; therefore, practise the sanue, otherwise the knowledge, the "ordeal would be trying. should the person not have the knowledge, the "ordeal woul British and 4. The cost of repistering in the States is the game to loth British and Anerican physicians, varying in amount according to the laws of the state where the physician desires to reside-sis from four to eight shillings. I would here mention that, as regards the State of New lork, all persous who have griuluated outside that State must, betore they are allowed the privilege of registering their diplomas, get the same eudored by one of the medical colleges of that State; the fee for which is ft. Also, in case any nedical col-
 lege has reason to thiuk that the berson preaentigne him, and, if found endorsed is not qualifed, the hare the porer to exan Lastly, for the edificathon of any of your readers, I would say that ali Brit lal registered medical prac
thloners are allowed the same prifileges of registrationand the righta to practhe medichine in Amerievon an equality with Americau physicinnes and, it is the boalncerely linpeal that IIer Majesty A' I'rivy Council will, in uecordance to boalnecrely linped that lier Majesty Mriey Council whi, in uecordance
with the provisiona mentloned In thie Melical Act. 1888, extond similar wrivileges to any duly gralfied Americantphysleian who may be desirous of practiving medictute in Great Brltain.

## Indectox of Presaturre Lanoler.

PERPLREED aska for advice in tho followiag caze. A laty, whose last ennfino ment was atedndal by very great peril, has applied to him under theso circumstances. She is pregnant some ive or six weeks, and at a consultation of four medical men in the last confinement. it was alvised that the future fotus should not is allowel to come to matirity. Wouh it ho safer to canso ex pulsion of the perls fietus, ar allow the case to go out to the seventh month, or when? It is preferable to have recourse io the former for various reasona.

- On indmuate medical grounds it jis neknowledged that the course of pregmancy may be Interrupted nader skilled nivice. The determination as to whethor, in any particular case, this coursels called for, can only bo settled ou Wromal consultation.


## NOTES, LETTEIES, ETC.

A Case of Distries.

Per Dr. G. C. Jonson: A Thank-Offering, M. S. W WF. Morrant Baker, Lisq. Dr. Direy, Malvern II. Stear. fisq., Saffron Wualen
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Further donations in ald of the spectal objects in view will he gratelully recelved by Dr. G. C. Jonson, 26, South Faton Place, S.W., or hy Dr. Joha M. Dright, Park IIIll, Furest Iill. S.F.

- We aro asked to atate that the gentleman who so generously offers to purchase Immediate presentation to the St. Anne's Schools for one of the children, provilerl that $£ 90$ be subserlbed vefore May. 3lst, is a member of the mallinal profession.

The Treatmajt of Syake-Bite.
Dr. C. IR. Incisawnemy writes with reference to a paragraph published on March loth. p. 549: The symptons of poisoning by the snake-bite were salivathon, bronchorrhewand eyanosis. These symytoms, inmyopinion, contra-indicatc the admiluist ration of nmmonia. I should think that full and frequently repealed doses of the frechlorlde of lron wonld answer well, because of the very enldent dimisution of the fibrin-forming power of the biood in such cusses. In auy cuse it might be iested by experiment upon the lower animala.

## Fitratts os Eisgarisalts.

Dre. J. B. Dickisson (Stalybrlige) writcs: lespecting the ahove subject. mentioned in the Jourval of Mareh esth. Ibeg in state that thirtem years ago, aftor suffering from rhenmatic pever, 1 found all my finger-matis furrowed imanacrsely, at the lumba the furmows gralunily grew to the end of the gails, and disnjppared after nbout six months duritlom. Abont a year and a half after, ithal a horse whichs suffered from rhamatic fever; he had also his hools diftinetly furrowed, the furrows growlag further and further down, huntil ulthately they were eut away by the blacksmith, nad thus disappeared. Sinen that timial have seen veveral casen of furrowed finger-nalts following Sisenmation ferer. (bther diycascs may procluce the same pienomena, but my obsersatlons lave lu'en condined to rheumatic fever case's.

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## BOOKS, ETC. RECEIVED.

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# CLINICAL LECTURE 

 leiters endoscope in the treatMENT OF VESICAL DISEASE. Delivered at University College Hospital, March 95 th, 1885. By Sir heNRY THOMPSON, F.E.C.S.,Surgeon-Extraordinary to M.M. the King of the Belgians; Consulting Surgeon and Emeritis Professor of Clinical Surgery tosthe Hospital.

Gentlemen,-Some important improvements have been recently made in cudoscopic apparatus for examining the various cavities of the body. During the thirty years that I have been connected with the hospital, I have from time to time demonstrated here the various contrivances which have been adopted for this purpose. They hare long been used for the more accessible cavities, notoriously for the throat, ear, and ragina: but they have been also used for carities which are more difficult to enter, such aa the bladder, and more recently the stomach. The first instrument that 1 brought here, some twenty-five years ago, was the well-known endoscope of Desormeaux, of Paris, and it was employed in the wards under my care. It was nsed not only for the bladder and the urethra, but occasionally for the rectum. cannot say that I think it was of much service; but it was, of course, desirable and necessary that in a great medical school men should see such inrentiona tested. Then Dr. Cruise, of Dublin, improved the illuminating power of the instrument, and we found it better than the other. We had also a small endoscope designed by Mr. Warwick, which was much less costly than the otbers, and answered nearly every purpose. After this no great change took place in endoscopic appliances until 1879, when it was reported that Mr. Leiter, of Vienna, the well-known and skilful instrument maker there, had devised a very remarkable apparatus for examining the bladder and stomach. I made it my business that autumn to visit Vienna, and had the advantage of using Leiter's instrument in the Allgemeine Krankenhaus, with my friend Professor Dittel, the distinguisbed surgeon there. I found it diffcult to use successfully, although far more efficient than its predecessors. 1 therefore ordered one, and exhibited it for the first time in the theatre here in April, I880, on living patients. It was a large and cumbrous machine, but by means of it an incandescent wire heated by electricity was introduced into the interior of the bladder. In all preceding instruments the source of light had been outside, and a ray was thrown by a mirror or a prism into the bladder, the observation being made only by transmitted light. But Leiter, with whom was associated Dr. Nitze, succeeded in illuminating the bladder by direct rays. The heat, however, arising from the incandescent wire rendered it necessary to provide a current of cold water constantly flowing in a minute channel round the instrument, from the outside to the cxtreme end of the sound, and returning to make an exit through the handle, otherwise the bladder would have been injured. This involved a very costly and complicated apparatus. Moreover, it was too unvieldy to be carried about in a carriage, a condition which limited its usefulness considerably. But more recently Leiter las succeeded in simplifying the process and the machine, and now without difficulty a tiny Swan lamp, sufficiently small to lie within the apex of a hollow somnd not more than No. 22 or 23 in size (of the Freuch scale), can be introduced into the bladder. Moreover, no constant supply of water is now required to reduce the temperature; but it is still necessary to follow certain rules in order to easure safety and to obtain good results.

In the apparatus now before you the electric current is supplicd by a battery of four or six cells (a bichromate is employed), besides which there are the connecting wires with two sounds, one supplice with an opening to show the anterior wall, sides, and floor of the bladder, and one to sliow the posterior wall.

The first step is to mose the handle of the buttery, which sinks the elements of each cell into the exciting fuid and furnishes the current. The rhcostat must then be adjusted so as to produce the
maximum of resistance, that is, to diminish the current as much as possible before making contact with the little electric lamp. which would be destroyed by too large a charge. The nmount of light displayed will show you whether yoll require more, and if so you will move the slide until sufticient brilliancy is attained. The apparatus is now ready for action.

But certain rules must be followed in order to employ the apparatus safely and efficiently.
First, it is necessary that the bladder should contain fuid; the light cannot be employed in an empty bladder, as a consirlerable. degree of heat is produced; a quantity not less than six ounces is desirable, eight or ten may sometimes be better.

Secondly, the fluid must be transparent; it is desirable, to remore all cloudy urine, and more especially if any source of hæmorrhage exists there, to wash out the bladder so genily as not to excite, if this be possible, any fresh How of blood. Since the examination is, as we ahall presently see, chiefly useful for the discovery of papillomatous growths, or for ascertaining the fact of their absence, the greatest care and gentleness must be employed in every step of the process.
Thirdly, this having been done, the sound No. 1 must lee carefully passed into the bladder before the circuit is completed and the light produced; otherwise injury might be inflicted on the urethra by passing the lighted sound along the canal. For the same reason the light must be extinguished before the somul is withdrawn from the bladder. The best way is to pass the sound before attaching to it the connecting wirea, and to do this latter only when it has been placed in proper position.
Fourthly, when the beak of the sound is felt free within thr partially distended bladder, it should be pressed in nearly as far as it will go, and then the wires attached connecting it with the current; after this the little handle is moved which completes the circuit, and then if all ia right, the light instantly appears. If the fluid is clear, the ohserver will, on looking through the external end of the sound which contains a small telescope, obtain a distinct riew of the anterior part of the resical wall. This view is obtained by means of a small prism situated at the angle lintweenithe shaft and heak, zo that the rays of light are transmitted from the surface to the observer's eye. By gentle movements, which must be learned by practice, and cannot he verbally taught or described, different portions of each lateral wall and of the floor can be observed at pleasure. But the posterior third of the cavity is outside the sphere of vision through sound No. 1 No. 2must be introduced, and be managed in the same manner as the former, if it is required, employing for it the little telescope removed from the first instrument for the purpose. Mind also that you do not forget when the lighted sound is within the bladder, that the beak should not be permitted to rest at any spot for more than a few seconds in close contact with the wall of the cavity, lest it should be slightly injured thereby; it is wise to keep the beak gently moving. And when the sound is removed from the bladder, should it be relighted, the beak must be placed in a ressel of water, otherwise the Swan lamp or the crystal covering it, may suffer from undue heat. The light should never burn above one minute in air. If it is not wanted for a minute or two, turn off the current or put the light under water.
[A male patient, about 60 years of age, was now brought in under ether, whose case was a suitable one for exploration. Eight eunces of warm water were introduced into the bladder after withdrawing the urine. Seated between the patient's lower extremities, which hung over the end of the operating table. the lecturer introduced the sound and, having lighted it. was able after a minute or two to say that the fluid was clear. no trace of blood having appeared, that the mucous memtrane presented a bealthy tint of pale pinkish yellow, but that there was an unusual amount of fasciculation of the miscular fiturs in every direction, probably cansed by some obstrnction of the prostate to the natural outlow. This, indeed, was rery well marked : no other morbid condition was present. This description was rerified by a number of persons present who in turn examined the organ through the endoscope. This done, the lecturer proceeded:]
lou will naturally ask, In what cases is it likely that the instrument will be chiefly useful? Certainly hefore all others in the case of those small bleeding tumours, repecting the presence of which, but more especially the extent as their development, it is often difficult to arrive at an accirate couclusion. I refer especially to the papillomatous fumours, the distinguishing character of which is their history of
repeated attacks of harmaturia during a considerable period of thene. They may develop slowly for two, three, or four years before the loss of hood becomes considerable. They are often for in long time unaccompaniel ly pain or ly frequency of passing water. The way by which yon generally arrive at a positive knowledge', that the hadder contains such a tumour is not by sounding as for stone, because the sound is not capable of appreciating a small soft tumour. The mode of determining the faet is to search for a tiny shred of the growth expelled with the urine, und it is rery strange indeed if you do not find one after the expenditure of a little time and patience, and are able to identify the structure of papilloma, which is quite characteristic. When you lave found this you may be certain that there is more or less of the morbid product there. But you cannot tell whether you have to deal with one growth or two, or more, or whether it is large or small, because neither the sound in the bladder nor the examanation by the rectum will afford you any information whatever on these points. In such cases it has been sometimes necessary to make an incision into the urethra by the periuenm in order to otbain these data, and I think this will still be necessary in some examples; but in others, perhaps in most, we may now be able to Ascertain the facts by menns of this' instrument. Still when, as not infrequently happens, the tumour is so rascular that the introduction of the instrument produces a considerable outflow of blood, it is useless to pretend that the endoscope will enable us to realise the number or size of the growthis in the cavity. If, on the other havid, we succeed by very gentle manipulation in washing out the bladder, clearing it of all opaque matters, and introduce six or eight'oninces of fairly clear water, then I think the nastrument will enable ns to obtain the information required.

One word more in relation to tumours. So far as cancerous vesical growths are concerned-those tunpours which yon can feel the presence of from the rectum and elsewhere-little or no occasion exists to use an endoscope; and it would mostly be the means of inflicting suffering without adequate advantage to the patient to examine the cavity. Thus, I do not say that it might not be of use sometimes, but, as a rule, that is a condition in which the proceeving might well be spared.
[The second patient brought in was one from whom a considerable portion of the prostate had been excised by suprapubic aperation about a fortnight before, hy Mr. Christopher Ifeath, who was present and joined in the examination of both patients. The external wound had nearly healed; nothing, however, could be swen, from the patient's inability to retain more than four ounces, 'and owing to the presence of hood oozing from the prostate, although the sonnd passed without'any difficulty.]
Here, then, you see an example of the effect of blood to interfere with visual examination, just referred to; and it is a condition commonly met with in cases of papillomatous tumours.
There is another class of eases for which the ajparatus may possibly offer on rare oceasions some service. We now and then mect with foreign bodies introduced into the bladder, of which, for 'sume reason or other, a elear history is not always obtained. I liave met with several instances of foreign bodies, in my time, most of them broken catheters, and have rarely had any difficulty in romoving them; in one only was it serious; it occurred in this hompital more than twenty years ago. A hairpin lay right across the bladder, so that I could not move it when seized by the lithotrite. I then did the high operation, and removed the hairpin with some difficulty. I found it lying transwersely right and left, with its pointed ends embediled in the mucous membrane, so that it was impossibie to remove it by the natural passage. Sometimes, as 1 lave said, only a doubtful history is furnished; there is some renson for reticence, both in regard to the body supposed to be in tho hladder and the method by which it arrived there. 1 remember a case in the comutry in which a hoy hadintroduced an ear of oats or rye, the spikes of wlich lying in the right direction ensured its rapid progress to the cavily. In another case in this hospital 1 cuf. out a piece of sealing-wax. The history of this was not clear, stm we dill not quite believe the story given, but sounding revealeal the presence of a hard mass. 1 performed median lithotomy, removing a phosphatic calculus, with an incl of sealing-wax for its nucteus. I may say that I have twice removed sealing-wax thas, and also twice reinoved a hairpin. In cases of this kind, when you are mucertain as to the fact and deaire further information, you may ascertain the nature of the foreign body by this instrument.

Then necasionally there may be n suspicion of impacted calcullus. This is a very rare condition, and should not be too
readily suspected to be prisent. Yet here, too, the endoscope may sometimes throw valuable light-literally-on the situation.
How much it may le necessary to use the instrument for the uretbra is a matter of individual opinion. I should say that it is very easy to use it unnecessarily. lf, however, you propnse to employ it in any given case, it will he generally desirable first to apply a solution of cocaine, of 4 or 5 per cent., for some eight or ten minutes, in order to prevent pain.' The urethra is a very delicate tube, and only now and then wants inspection. I do not think you ought to require the instrument for stricture, unless in cases of exceptional ditticulty; for all orlimary cases are managed with the least amount of irritation to the passage when treated with simple instruments ly a sensitive and intelligent hand. 1 hare never yet, throughout my experience of urethral stricture, met with a case in which I have derived the slightest advantage by inspection. This, of course, refers to the old endoscopic appliances, and I will not say that the present may not be superior in this respect. But I know the urethra well enough to be aware that the introduction of a tube disturbs the relations of the minute orifice, and is by po meaus so advantageous in practice as by theory it appears to be. The kind of handling which I have found invariably successful for the narrowest and most difficult stricture cannot be adopted when the canal is occupied by a metal tube. But there are other conditions besides stricture for which the endoscope may render some service. Tho passage is
sometimes the sulject of little papillomatous growths and consometimes the subject of little papillomatous, growths and congested conditions, which may be removed by an application, say, of 'some caustic, and you may ascertain the particular spot with ease, and touch it at the same time, by means of this instriment.
In conclusion, I think yon will have already arrived at the conviction that, it will not be necessary very frequently to ernploy the apparatns I have shown you in the diagnosis of vesical disease. For the fact is not to be altogether overlooked that its employment taxes the urethra and bladder more severely, for example, than the ordinary operation of sounding for stone, and should, therefore, not be resorted to without adequate necessity. In relation to the presence of papilloma and some other obscure conditions, it may sometimes render essential service; but do not regard it as an instrument that is in any case to be used for diagnosis, except as a special resource when other and ordinary resources have failed. Do not give up in nny respect the simple means of prosecnting diagnostic research hitherto employed; but by alk means keep it in reserve for certain exceptional cases when other usual methods have been tried and have prored unsuccessful. You may then occasionally find it a valuable ally.

Cork (Population, 81,200). Decreasing Prevalence of Typhus.Dr. Donovan states that the mortality returns for 1886 are very satisfactory, and bear favourable comparison with those of other towns. There was a marked improvement in the death-rate of the city compared with other years. The annual death-rate from all causes was 20.8 , the infantile death-rate 2.4 , and the zymotic deatli-rate 0.9. Typhus ferer, which has always been very prevaleat in Cork, only caused 5 deaths during tho year, 83 cases being the total number reported. In 1881, 1,261 cases of this disease hal come under notice. Dr. Donovan attributes the decline of this fever to the reduction which has taken place in the overcrowding of congested districts, the improvell condition of tenement houses, and the system of regular inspection to which thesc houses are suljected. Typhoin fever was unusually prevalent. and caused 17 deaths. The precautions taken proved effectual in preventing the spreail of the disense, which at one time showed signs of beeoming epidemic. Scarlatinn was much less fatal than in 1885 , the deaths being nearly 50 per cent. less than in that year. Many instances were met with during the year wher patients surfering from scarlatina were lying a few fect from pans of milk exposed for sale ; and in onc case the manager of a large dairy in the city was removed to the hospital suffering from the disense. In all these casps the sale of milk was immediately stojperd. Dr. Donoran has devoted a considerahle portion of his report to the question of domestic scavenging. If his efforts are suecessful in securing the removal of the offensive privies and midlens, and the general substitution of water-closets, the healh of the city will undoubtedly be benellited.

# NOTES <br> A CASE OF CEREBRAL SUPPURATION DUE TO OTITIS MEDIA DIAGNOSED AND SUCCESSFULLY TREATED' BY TREPHINING AND DRALNAGE. 

By ARTHUR E. BARKER, F.R.C.S.,
Surgeon to University College Hospital, and Teacher of Practical Surgery at University Coltege.

If any example were required to illustrate the perils of inflammation of the middle ear, and the need of the most careful study of them by physicians and surgeons, the following case would furnish it. It aupplies, on the other hand, fresh evidence of the advance of operative surgery to the rescue of cases hitherto considered altogether hopeless, and suggests the possibility of still further progress. Apart from its intrinsic interest, this case is of importance from the contrast it offers as to pathology and symptoms with a case of abscess in the temporo-sphenoidal lobe published hy myself in conjunction with Dr. Gowers in the JourNaL of December 11th, 1886, in which trephining and drainage 'were also followed by complete recovery. If the present case was, as I believe, primarily one of fairly loealised meningitis, the difference of its, symptoms from those of the first ease are casily explained.
A. G., aged 33 , an engineer, was admitted into University College Hospital on January 2lst, 1888, under the care of Mr. Heath, who, kuowing my interest in such cases, kindly transferred him to iny eare.
The patient's family history was excellent. When 7 years old he had scarlatinal otitis media, which soon healed, but the right ear has discharged more than once sinee, and bef ore the last attaek. Uip to the age of 21 he enjoyed good health. At that time he suffered from some epileptiform seizures, and was treated for them for a ferr days in triversity College llospital. At ${ }^{2} 4$ he states that he was under treatment for gastrie uleer in an infirmStry. At 29 he had a tand fall, and injured his spine, after whieh
his right arm and leg were more or less paralysed for eiglteen his right' arm and leg were more or less paralysed for eighlteen monthe, with partial annesthesia. For this he was treated by Dr. Beeror at the Queen Square Hospital, and recovered completety. In May, 1886, he contracted gonorrheea, and was an in-patient at University College Ilospital for prostatic abseess. At this time he began to complain of wenlkness, and a sensation of coldness in the , right leg, which he dragged in walking. The left leg was strong: ankle-clonus was well marked on the right and absent on the left. Knee-jerk was exaggeratcd on the right and well marked on the left. There was some localised anxesthesia on the dorsum of the right foot ; tâche cefrebrale was well marked.
$O_{n}$ Augnst 25 th, 1886 , the patient came under the care of Dr. Gowers, whose notes reeord exaggerated knee-jcrk on both sides. with ankle-clonus on the right but not on the left; also tremors in the right unper limb on movement, but only slight in the left. Slight nystagmus on morement mas tloubtul. The pupils were dilated, and reacted sluggishly to light, but well to aecommodation. There was tenderiess from the fifth to the eighth thorsal spines, but no prominence. Dr. Gormers's ciaguosis was lateral sclerosisi, and under his treatment for this the rarions nerrous symptoms mentioned disappeared one by one: but, on Deeember th,

After March, 1887, he ceased attendance, and appeared, from his own aceount, to have been quite well until the present illness. The latter began on Deeenber 5 th, 1889 , with ${ }_{2}$ purulent discharge from the riglit ear, for whic he beeame an out-patient under Mr. Bilton Pollard. The right membrana tympani slowed a targe perforition an eighth of an inch across in the anterior segment, and from this the discharge escaped freely. The treatment consisted in thoroughty moppinm out the latter, and dressing the inflamed surfaces lightly with iodoform powder.

[^59]On December 28th great pain set in over the whole of the right aide of the head. At this time I was asked to see the case, and found the ear as just described, and that there was no evidence of caries of any kind, or of pent-up matter in the middle car. With Mr. Pollard's concurrence 1 passed a stream of quinine solution through the middle ear and down the Eustachian tube into the throat, showing that there was a free yassage for discharge in two directions, inwards or outwards. There was no trace of redness or swelling over the mastoid, or other evidence of mischief in this process at ilis date or up to the present moment. The pain was neuralgic in character, and felt most severely over the branches of the trifacial nerve. The optic discs were quite normal, and the pupils equal and normal in reaction to light and accommodution. The temperature was $101^{\circ}$.

Viewing the case as a whole, we both agreed that it was more like one of neuralgia, such as is not infrequent in the course of acute inflammatory ear diseaze than anything else. From this time the pain continued to increase, and was worse at night, reaching its maximum towards the morning, and preventing sleep.
On January 18 th a carious tonth was extracted, but without relief. On the night of the 20 th the patient vomited twice, and on the 21 st he was admitted into hospital. The condition of the right ear was as hefore; the left membrana tympani was also perforated, but the middle ear was not inflamed. In addition to the symptoms already ennmerated, there was great superficial tenderness on tapping orer the right side of the shull; this was most severe just behind the mastoid process and orer the right lobe of the cerebellum. There was no trace of redness or swelling anywhere in these regions, or over any part of the scalp. The patient wore a dazed look at this time, apparently from intense pain, and was difficult to deal with in the matter of obtaining accurate information from him, though, as since proved, a very intelligent. man. lie says now that his sight was at no time in any way affected; but 1 am sorry to say he was not specially examined for hemianopia at the time.
llis temperature on admission was $100^{\circ}$. Until the evening of the 23rd the most marked symptom was intense pain in the head. the temperature rarying between $99^{\circ}$ and $100^{\circ}$. At $6 \mathrm{P} . \mathrm{M}$. on this day the patient had two epileptiform fits within an hour, preceded by vomiting, during which he ground his tecth, and the right side of his body was very much convulsed. The last fit began as described by the sister of the ward, by his fidgetting about with his right hand, and breaking therewith two ward basins, then extending to the whole side. The latter part of this fit was seen by Mr. Herring, the honse-surgeon, who also noticed that the right side was ehiefly affected. At the same time the breathing was stertorous and the plipils widely dilated. The eyes were turned first to the riglt. aul then upwards and backwards to the left. After this he slept fairly well, the temperature rising to $100.2^{\circ}$ at $\overline{3}$ A.M. next morning.
When I saw him at 2 P.M. on the e5th, the symptoms were as before. Ilis pnlse was inereased in frequency, and he was groaning with pain in the head. On rising to walk into the next ward, for ophthalmoscopie examination, he was rather unsteady in his gait, inclining to stagger to the left. The optic dises were normal. The pupil on the right was now smaller than on the left. The patient's general aspeet and demeanour at this time gave the impression a fact he was highly neurotic and inelined to magnify his troubles. a fact suspicions in itself, as I have known this condition present a familar cases of grave intracramial mischief, ultimately rumuing a fatal course. On this day, in order to make sure that there was I pephinded in the midde ear, and to cleanse the later horoughly found, but the tympal in the usual way. Little or nuthing was the opening. The wound was dressed with horacie acid fomeugh tions. The next day, the ebth, the condition was unchanged, except that the temperature had fiblen to $93^{\circ}$ in the morning: it was $100.4^{\circ}$ in the erening, and his breath was noticed as very foul. On the 27 th there was a rise from $100.2^{3}$ in the morning to $101.2^{3}$ in the evening. On the 2 ith he was sick all night. and more drowsy, and much less observant; temperature 100.23 in the morning, to low. $5^{\circ}$ in the evening. For the next few days. 1 did not see the pationt, being myself confined to the house. buring this time his condition was practically unchanged, excent that the temprature was generally a little lower from $100^{\circ}$ to $988^{\circ}$. lint on seting bim again on lebruary lht, I noticed great wasting of the whole bouly, and that the skin was of a dirty yellowish, garthy colour. 31 r .

Ileming also recorded a slight loss of power in the left facial mascles. The patient had also liegun to pass lis motions and arine involuntarily in the bed. Still he conld be roused to speak rationally, but quickly lapsed into a stupid heavy state, und was constantly gronning and complaining of intense pain over the right side of the senlp, which was also acutely tender. On the 2nd he was noted as very dull and sleepy, not taking notice of anything around him, hut he could still answer questions when roused. His ejes were kept constantly closed tightly, the pupils dilating widely when the lids were raised. The right pupil was now larger thin the left. There was greatly increased knee-jerk and ankle-clonus on both sides, and very little plantar reflex on tho left. During the preceding night he was first noticed to have lost power in the left arm, and later it was found that the latter was almost powerless, and rather rigid. There were also occasional twitelinga about the wrist and flngers., The paresis was most marked in the extensora, the "drop wrist" being very plain. The facial palsy was also more marked than before; temperature $38.8^{\circ}$; pulse 64 . In the evening I endearoured to examine the optic discs, but found it impossible to get the patient to fix the eyes for more than an instant. lle would do so when shouted at. but almost immediately the eyes woulcl roll upwards, and remain so till shouted at again, in a way that looked like persersity. When held open with the finger they still turned upwards, but whet her unconsciously, or wilfully to avoid the light I cannot say. When remonstrated with, he replied in a dreamy way that he could not help it, that he would do anything to obtain relief from his torturing jain. 11 is breath had at this time the most intensely sickening odour, and lins body was extremely emaciated. The paresis of the left arm and face was more marked : micturition and defecntion were quite incoluntary.
It now appeared to me that a point lad been reached in the case at which there ware definite symptoms of local cerehral intlammatory effusion for which I had been on the look out, and that its locality was fairly indicated. I also thought that the six other serious conditions which I always teach may likewise arise frnm otitis mertia (vide Iancet, 1887) might now the excluded as complications in this ease, though this could not the done carlier. l'utting the matter shortly: (1) Mastoid cell ahacess had already bern excluded by the operation of January 2inth, and the subsequent persistence gnd aggraration of the symptoms; (2) pli: $\mathrm{s}^{\mathrm{t}}$ ic phlelitis of the literal sinus, with thrombosis, appeared also to be negatived by the course of the temperature, the absence of rigor, and of any swelling in the course of the deep jugular vein and side of the face. The temperature, raised before the opening of the cells, and thorough cleansing of the tympanic ramificationz, hand shown a general inclination to fall slightly hut steadily: ; (i) premia was nugntivecl much in the snme way, also hy the abisence of secondary deposits, as well ns hy the general aspect of the patient: ( 1 ) subdural aliscess, besides bring less likely to form in an aidute, and repecially in one whon ho evidence of defnite caries in the ear, would probably have led ly this tirae to odema of the overlying skin, which was concpicuously absent, and would prolably have beon ushered in hy a rigor, and have kept the temperature steadily hiyher than wns the conse; (5) cerebellar ahsecres, hesides its relative rarity, sermed impromble from the listory of the case, that is, the character of the ena misclifef anll the abeence of caries of the tym-
panum ; and although it was suggeater that the right-sided fita at the commencement of the intracranial complications might be explaived by cerebellar disease, the gradual onset of facial and arm paralysis, with twitchinge of the wrist, appeared to me to give a clear indication of the situation and nature of the lesion as near the motor areas of the cerebrum; (6) abscess in the temporosphenoidal lobe again scemed alone to be insufficient to account for all the symptoms present now. In another case, alluded to above, in which I operated for the latter lesion with the best resulta, the most noticeable feature was an almost complete absence of special nerve symptoms, although they were carefully watched for, and in the present case these were abundantly present. In the former case, too, the temperature lad been usually suhnormal after the first onset of the acute attack in the middle ear, though there had been a second sudden elevation, with rigor just before the operation on the brain. The pulse, too, had been constantly slow (circa 52 ), unlike the present case in its earlier stages, although here, also, it gradually slowed down at the last to 64 , with the onset of pressure symptoms. With the purely temporo-sphenoidal abscess there was for a time a dull aching in the temporal region, which ultimately passed off. In this present case there was from the first violent, deep-seated headache in the temporal region, with extreme hyperexthesia all over the right aide of the head. This was followed by vomiting, then convulsions with transient coma, followed by intensif:cation of the pain. Later on there was partial left hemiplegia, with twitching of the left wrist, and aome rigidity of the arm, together with exaggerated tendon reflexes, and ankle-clonus symptoms entirely absent in the first case, except one attack of romiting just before the operation.
A consideration of all these facts reeemed to me to point to the presence more or less of localised meningitis rather than any of the other six conditions mentioned. Further, it seemed that the locality of the inflammatory effusion was sufficiently elearly indieated for a working hypothesis. The paresis had started in the left side of the face, and had spread to the left arm, and there wero twitchings in the left wrist; the leg wasunaffected, except
indieate a lcsion in and about as regards the reflexes. This ought to indieate a lesion in and about
the junction of the middle and lower third of the right ascending frontal and parietal convolutions, a lesion which apparently commenced with inflammatory irritation, and lad gone on to inhbition, probably from pressure. In one or two cases dying of meningitis due to ear discase 1 have observed post mortem that the inflammation has appeared to concentrate itself about the hifurcation of the Sylvian fissure, and to have spread by preference from this up along the fissure: of Rolando. On these grounds, therefore, I decilled to trephine over the arm and face centres on the right, and hoped thus to evacuate the materials of a localised meningitis pressing upon them. This operation was accordingly done the next morning, lriday, Felruary 3rd, at 10.30 , after ? had brielly, in a few remarks to the class present, given some of my reasons for arriving at the conclusions just indicated. Iamediately before operation defacation lad taken placo involuntarily.
Operation.-After the usual shaving and cleansing of the head, the main tissures were marked out on the scalp with an aniline pencil, Reids method of measurement being adopted. A semilunar flap, including scalp and periostrum. the lase about $3 \frac{1}{2}$ inches long and parallel with the "hase line," was then raised from over
the middle of the motor area, it, upper tangent being 2 inches from the middle line of the vertex or sagittal suture. The pin of an inch trephine was then placed over Rolanto's fissure (kig, I) 1속 inch abave the Sylvian fissure, and a disc of hone was removed. The dura mater was at onee noticed to bulge markenly outwards. A aecond dise was then removed above and just touching the first an the same line. Ilere, too, the dura mater bulged, but not as much. The angles of bene between the two rings were then cut away, and the dura mater was slit up in the middle line of the resulting oval opening of the bonc. The surface of the exposed convolutions was now seen to be apparently healthy, but there wae consilerable bulging and a distiuct sense of deep fluctuation under them. I therefore punctured the brain with a large hollow needle in the middle of the oral opening (ligs. 1, II, and IV, 1), and at right angles to the surface, but though the needle entered an inch deep no fluid escuped. The needle was then again entered at the lower berder of the opening (Figs. 1, I1, and IV, 2), and thrust downwards and inwards into the exposed convolutiou. When it had penetrated to the extent of $1 \frac{1}{4}$ inch, thick, turbid. yellow serum began to flow out, and was received into a test tube to the amount of nearly two drachuns.
A third trephiue opening was now made, the centre of which was $1 \frac{1}{2}$ inch nbove the base line and $1 \frac{1}{1}$ inch behind the centre of the bony meatus of the ear. Through the middte of this third opening (Fiigs. I, II, and III, 3) the needle wat pushed inwards and forwards for $1 \frac{1}{3}$ inch from the surface of the bone towards the point et which fluid was struck in the last puncture. On reaching this spot a quantity of thin, white, odourless pus flowed away and was received in a giass to the extent of nearly half an ounce. The dura mater at either side of the puncture was now split mp, and a sinus foreeps was thrust into the latter as the needle was withdrawn. When the blades of this instrument were slightly separatel more pus came awry ; then a rubber drain-tube was thrust into the open track for an inch and a half from the surface of the bone, through which more pus flowed of freely, especially when the patient struggled, which he did once or twice at this moment, being but lightly anmesthetised. The flow
 with a sponge on the convolut when Mr. Merring pressed ing. Altogether half an ounce cotions under the apper openglass, and quite as much cseaped through the drain-tube, so that not less than one ounce was eracuated. On its escape the consolutions under the upper opening were observed to sink down considerably orer the area which had before bulged.
The bleeding from the scalp was now finally arrested, and a small vein in the dipliee was closed with a Pacquelin's cantery: then the edges of the incision in the dura mater were united with five fine silk sutures nfter the opening had been lightly dusted with iodoform in tine powder. The flap was finally dried, similarly dusted, laid down, and stitcheed all round with eight silk sutures without drainage. Before this was done, however, a small portion of the whole thickness ef the scalp was cut 2 way over the lower and posterior trephine opening to admit of frec drainage through the rubber tube lying in the brain. which was brouglit out of this opening. A sal-nlembroth ganze dressing laid over the whole scalp after dusting with iodoform completed the operation, which had lusted an hour and a quarter. The earbolic spray and all other conceivable precautions were taken to ensure asepsis.

Throughout the whole pracedure the respiration, face, and pupils were specially watched by our liesident.Medical Ollicer, Dr. Arkle. and the pulse and left arm by 31 r. Jecky, to whom I am indebted for the following notes:-
"Chloroform was administered at first on the corner of a towel, later by means of a Junker's inlanler through the nostril. The condition of the patient was most eritical. At the moment of administering the anesthetic the pulse was only 36 per minute, of only moderate strength, and compressible. It was irregular in force and rhythm, with ${ }^{\text {pauses }}$ of three and even four seconds between successive beats. In about ten minutes the pulse rose to 44 and 48 per minute, improving a little in character, and remained like this during the first part of the operation. The respirations were slow and shallow, abeut 18 per minute. The patient took the chloraform well, and only struggled a little, both sides of the body movin, but the right more freely than the left. While struggling he could not raise the left arm higher than the manubrium sterni. On exposure of the dura mater by the remoral of the first disc with the trephine the respiration altered, becoming deeper and more frequent. There was no sudden appreciable alteration at this time in the pulse; but, on the opening up of the dura mater, it was noted as 60 per minute.
"Shortly after the punctures through the mator areas there was some clonic spasm in the left arma and hand, none in the face, leg, or foot. This was repeated several times when the spange tras pressed on the convolutions, bnt not constantly. Immediately after the pus was struck the pulse beeame very weak, rapidly reaching 100 , and, a little later, 120 . It was small, regular, and very compressible. An enema of brandy was given but was not retained long. Before the operation was over the condition of the patient appeared to be most alarming. The breathing again became rery shallow, and the pulse was 160 and running; the face was pale and sweating, and the lips a little blue. Fifteen minims of ether were injected under the skin of the precordium with manifest advantage. The patient was only kept lightly under the ancesthetic during the whole operation, and very little chloroform was used."

When 1 next saw the patient, three hours later, he was already better, and stretched out his right band and shook mine warmly, speaking quite rationally. His pulse was still very rapid, and he had just heen sick, but at 9 p.m. 1 thought him in a very critical condition. His pulse was very weak and variable- 140 to 160 , temperature $100^{\circ}$; he had been constantly sick. The dressings. Which were slightly soaked with blood and serum, were now changed, but the drainage-tube was not disturbed.
The next morning. February 4th, he was decidedly better. The sickness had ceased, the pulse wis 120 , the temperature $97.8^{\circ}$. The facial paresis had improved, but there was still great weakness in the left arm. Freces and urine were still passed involuntarily.

Febrnary 5th.-Better in every way. Pulse 112, temperature $97.8^{\circ}$. Takes food fnirly well. Second dressing as before, at which a silver drainagc-tube, made from a No. 12 English catheter, was substituted for the rubber one. It was pushed in along the track of the latter for one inch and three quarters from the surface of the skin, and in a dircetion inwards and forwards from the opening. It had a slight curve upwards and forwards. The urine and motions were passed voluntarily from this day onwards. The facial palsy was nearly gone, and the armi much improsed. There was no optic neuritis. The pains in the head, though better, were
still sovere, but the patient's general aspect had much improved. l'ulse 8 :", temperature $95.6^{\circ}$

February Gth.-llas slept fairly Well. Pain in the head much better. l'ulso 82 , temperature $13.60^{\circ}$. Three yrains of calomel were ordered. The track of the tube was washed out with a warm saturated solution of boric aeid; this did not produee any nerve symptoms. The silver tube, dusted with iodoform, was replaced, and the wound was dressed as before.

From this time there is little to note except uninterrupted recovery. Tho facial and arm paresis disappeared in a few days completely. The breath became less offensive, and the appetite normal. The bowels required to be openel occasionally with a few grains of ealomel ; there was still an oceasional slight tremor or twitch in the left wrist for some days, but this, too, disappeared soon.
On February 9th, he drew attention to a feeling of "pins and needles" in the fingers of the left haud, and slightly in the left leg, and a sensation as though a string were tied tightly round his tongue. On the 10th, the pain in the head was gone. On the $11 t h$, the "pins and needles" were gone, but he noticed that his tongue was still sore.
On the 12th, a shorter and smaller drainage-tube was used, as there was rery little discharge from the brain. Two days later a still shorter one was inserted. Humming tinnitus was noticed. Pupils equal. Great tenderness all over the left side of the body was complained of on this day, but especially orer the thorax. The dynamometer registers 45 with the right hand, 40 with the left.


Fig. III.-From one of Dalton's photographs of an imbedded brain, reduced to cxactly half size. The section is vortical and longitudinal to expose the space in which the island of Reil lies. 12345 the convolutions of the island of Reil ; the position of the figures 4 and 5 would ladicate as nearly as possible the spots reached by my two punctures in the opera tion; $t$. lobe temporo-sphemoidal lobe ; only the inner part renains,
On February 15th the patient was practically convaleseent. Litis bowels were regular, appetite good, and he was cheerful and intelligent. There was not much pain in the head, and the calour of the skin was much better; the drain-tube was finally dispensed with. The scalp wound healed everywhere by first intention, except at one angle, where slight moisture escaped up to February 20th. On the 2lst all the stilches were removed. The patient was out of bed on and after the sixteenth day after the operation, and was very cheerful and bright in spite of oceasional neuralgic pains over the branches of the trifacial nerve, probably aggravated by the rery severe wenther. The knee-jerk on both sides remained, though less than before, and ankle-clonus was still present, though diminished. G. left the hospital on March 8 th for the Convalescent IIome, where he still is.
It rould be interesting did space permit to discuss the pathology of this affection, and to analyse the symptoms present at greater length, as well as to deal more fully with the purely surgical fuatures of the case, But the mere record of the essential and salient facts of the case has carried me alrcady too far, and these questions must be left for future consideration. This record, however, would not be complete if I did not state my belief as to the exact nature of the inflammatory collection, and the position it nccupied in the brain.
Reasons alluded to above were briefly given before the opera-
tion for my belief that this was a case of more or less localised meningitis in and about the middle of the Sylvian fissure, and extending up over the motor centres of the face and arm on the right side. But on trephining over the latter, the arachnoid was seen to be bealthy, though the cortex fluctuated. The introduction of the hollow needle, however, downwards and inwards (Fig. IV, 2), evacuated thiek, turbid, odourless serum. This experience shook my faith for the moment in the correetness of my diagnosis; but the result of the next puncture (Fig. IV, 3) through the posterior and lower trephine opening, in which the needle should have nearly met its fellow at about lis inch from the surface of the skin, brought me back to my original conviction, that this was a ease of localised meningitis, which I now hold with a very slight modification. It is quite clear that the collection of inflammatory fluid tapped did actually lie in the Sylvian fissure, and was not a temporo-sphenoidal abseess. But instead of extending up over the external surface of the brain, as I at first thought, it accumulated, I believe, among the conrolutions in the deeper part of the fissure between the island of Reil (Fig. 111, 1, 2, 3.4,5) and the orerhanging motor convolutions, and pressed the latter outwards against the sknll (Fig. IV). This explains the fluctuations of the motor gyri under the first trepbine holes, and also theiricollapsing on the evacuation of the fluid through the third trepline opening below. If the abscess had been seated actually in the white skistance under the motor centres, the arm and face would hardly have recorered so rapidly as was the ease here; whereas if a collection of


Fig. IV.-From one of Dalton's photographs of an imhedded brain, reduced exactly to half size. The section is vertical aud transverse, in fthe region of the punctures made in the operation. The right half of ine brain is apparently a little shrunken. S Sylvian fissure: a b ce frst, second, and third temporal conrolutions; $p$ Vpons varolii : icap internal capsule; ot optic tract: in leaticular nucleus; $i$ Ic island of Reil; 1 first puacture, directly vertical to surface of brain, which gave no result; 2 second puncture, downwards and inwards, which reached turbid fuid; 3 third punct ure, inwards and forwards, through the first temporal convolution, into which a drain-tube was inserted; drained the same space as that reached liy No. 2 puructure.
fluid lay in the decper parts of the fissure of Sylvins around the island of Reil, it could att doubly upon the motor centres, on the one hand by foreing the overhanging convolutions outwards against the skull, and on the other by pressing directly through the island upon the motor fibres of the internal capsule (Fig. IV, i. cap.) lying underneath, and after its evacuation the functions of the parts around would quickly be resumed. But the mattcr is put beyond question ly the performance on the dead body of exactly the same operation, taking every possible prccaution as to accuracy of measurement.

In doing this, 1 selected an adult skull of the same dimensions, within a small fraction, as the patient's. In this sku!l the dura mater was exposed with the trephine, exactly at the same point (Fig. I, 2) as in G.'s" case. I then took a slender lucifer match, pointed it and cut it to the length of $I^{\frac{1}{7}}$ inch. This was then thrust throngh a puncture in the dura mater, and into the brain, at exactly the same spot, and in precisely the same direction downwards and inwards, as was the needle which struck the first turbid fluid. A second similar mateh, $1 \frac{3}{6}$ ineh long, was then pushed throngh a puncture in the dura mater under the lower trephine hole (Fig. 1. 3), in a direction inwards and forwards, as in the casc of the needle at the operation. The outer ends of both these rods were now flush with the cortex and concealed by the
dura mater. The skull was then photographed by my friend Mr. Harriott (Fig. 1), after which the right side of the calvarium was removed. On cutting open the dura mater, the outer end of the first rod was scen, exactly in the fissure' of Rolando (Fig. 11, 2), that of the second rod in the superior temporo-sphenoidal convolution (lig. 11, 3), as seen in a second photograph. A rertical section of the hemisphere exposing the whole length of the first match was now made, and then a horizontal, exposing the track of the second. When the posterior half of the hemisphere was now lifted off, the points of the two rods of Trood were seen to be almost in contact in the space orerlying the island of Reil, and touching the latter (Fig. IV, 2 and 3). The first had passed between the ascending frontal and ascending parietal convolutions ( $(2)$, the second through the superior temporal convolution (3). Ilad the collection of fluid been a temporo-sphenoidal abscess, it is quite obrious that it would not have been reached by the first puncture, which evacuated fluid $1 \frac{1}{4}$ inch from the surface of the cortex, at the junction of the middle and lower third of the fissire of Rolando. Nor would it probably, unless very large and high, hare been reached by the second puncture, which met the first and travelled quite above the hody of the lobe. It must be remembered, further, that one ounce of fluid among the convolutions orer the island of Reil would press the former asunder more or less', and would produce a larger space than that represented in the drawing, so that without actually touching each other, the troo needles might easily empty it. 1 am careful to clear up this point, less as a mere operative question (because of course one rould evacuate the pus wherever the needle reached it), but rather as bearing upon the wider question of treatment of septic meningitis by operation, which for some time past 1 have looked forward to as possible. It would of course be unwise to dogmatise as to the exact limits occupied by the pus in this case, and as to whether it was produced primarily by a leptomeningitis ar encephalitis, or, possibly, by the giring way of an abscess. The patient is now alive, and we cannot settle the matter by dissecting his brain; and although I have approacled as nearly as pqsible to proving, by operation on the dead body, what actually was the locality in rolved, still 'I wish to put forward the abore view only as the most reasonable hypothesis deducible from a careful and anxious clinical study of this and several allied cases for which 1 hare had exceptional opportunities now for many years, a a also from numerous pathological data accumulated in the post-mortem room.
All those who have given close attention to this whole subject will feel that, in the matter of operative treatment of nontraumatic intracranial suppurations, we are but on the threshold of a new region common to medicine and surgery, and most will be unable to divest themselves of a feeling of dismay at its complexity. It is comforting to us all, howerer, physicians and surgeons alike, to rcflect that already this region lhas shown itself fruitful, and that one more group of fatal diseases has , been brought withia the reach of surgical operation.
Note. 1 have thought it better to give reduced copies of Dalton's beautiful photocraphs of sections through an imbedded brain in Figs. 111 and IV, rather than drawings of my own disscctions. Without a large material and special apparatus for emhedding and section, it is dificult to make an accurate representation of the relation of parts of the brain. which soon sinks down when the skull is opened and it is cut. I have therefore transferred to Dalton's scetions the lines of puacture observed in my orn dissections: this leaves as little room for crror as possible.
Mareh 30 th. The patient returned from the country on the 28 th. He still complains of pain in the head, lut looks well and eats, I am told, remarkally well. I shall continue to observe him, and report later if anything further of interest should be noted.
Tue 105th annual report of the Hull Royal Infirmary shows the number of in-patients for the year to have been 1873, the number of out-patients 10.772 -the largest number that has ever passed through the hospital in any one year. The a rerage cost of each in-patient for treatment, mursing, and maintenance was C2 19 s . 10d. The rstimated cost of each out-patient was nearly 13. 838. The alterations and improvements in the main huilding hare been satisfactorily completed. and it was hoped the south-east block would shortly be avaitable for patients. With a view of providing better accommodation for the nursing staff, it was deciden to proceed at once with the conversion of the Watts Wards into a home, and by this means provide the nurses the comfort due to their position and the exhausting nature of their duties.

ON SOME HITHERTO UNDESCRIBEO SYMPTOMS IN THE EARLY HISTORY OF OSTEO ARTHPITIS.
(The So-caleted Rhetmatoid Artmmitis.) ${ }^{2}$
By JOHN KENT SPENDER, M.D.LoND.,
Physician to the Royal Mineral Water Hospitah, Bath.
Few things are so apt to cause a feeling of drowsy despair at a medical meeting as the prospect of an academic discussion on the etiology of osteo-arthritis. The fields seem barren; the harrest is small, even after erery scrap has been gleaned; one master says one thing, and another master says another; so that the selfstyled practical man cries out in his confusion. How have all these speculations helped me? Two wants, he exciaims, I ask to have supplied; such sure notes of a disease that 1 may, if possible, know it at once when 1 see it, and trustworthy landmarks to its treatment at a time when treatment is available. The practical man has some ground for his dolorous plaint. It is certain that if scientific questionings about the nature of a disease do not help us to do people good somewhen or somewhere, those questioning will soon lack interest and be forgotten. Three common but wholly distinct maladies affect the same structures; the patient cannot distinguish his malady, and naturally requests his medical adviser to do so: but he is prone to lose himself in rague generalities, and probably falls back on that old-fashioned, ghostly thing called "suppressed gout." Now, is it not an enormons gain if we can at the earliest moment give a verifiable diagnosis-not merely a fancy or an opinion? When so much depends apon the issue, time is everytbing. Such is the plea for my paper to-night. It is my aim to strengthen thase landmarks which tell of early danger, because they proclaim with unerring precision what the disease is. To be able to identify osteo-arthritis in its very craclle, and to sharpen the lines of boundary between it and all other things which resemble it, is surely worth a little time and trouble.

Bath has been called a muscum of living osted-arthritis; but this conveys no adequate idea of the wealth of our clinical material, which I believe to be without a parallel in its kind. In our Mineral Water Hospital, nearly half the cases belong to the osteorarthritic group; and a crowd of so-called rheumatoidal people flock to our spa from all parts of the country. Among our residential population there is no osteo-arthritis worth speaking of: nor are any of the influences present which would farour its development. But this procession of suffering pilgrims-what a: challenge to our therapeutic skill! In the presence of an overwhelming quantity of the same sort of trouble, the tendency of the mind is towards apathy and almost weariness. A ceaseless. iteration of the same phenomena dulls the facultips and dims the
senses. We see, and yet we do not.see curiosity senses. We see, and yet we do not-see: curiosity is dead, for there
is nothing to is nothing to be curious about; what happened yesterday happens
again to-day, and (for aught we know) will happen ana morrow dil ind (for aught we know) will happen again tothis shrond of mental torpor no man ever discorers anything. because there is no enthusiasm and no inward light.
It has been said by a writer of distinction that there is nothing Whicla may not be found if we start on an inquiry with the intention of finding it. 1 t is sound advice to inquire withont expecting, and without eren the desire of finding: and it is plain trath "Wben I say that some "hitherto undescribed symptoms" of early ostco-arthritis were so little expected that even when found, after a careful induction of nearly a thousand cases, the feeling of wholesome scepticism was long in clearing away. "Was it not a mere coincidence?" asked the casuist: and his logical appetite suggested that there were a hundred little pitfalls scattered here and there. So it requirel some hardiliond of mind to think at last that certain signs, when present, connote osteo-arthritis in its earliest plase, and demonstrate beyond donlt that the discase canuot he anything else.

1. Dividing roughly all cases of osteo-arthritis into slow and quick forms-the first sometimes occupying decades of years in its chronic ruin, the other maiming and crippling in forced marches - Wed almost that a great number of the latter class are charactersion of the heart's action. Guoting from cases the bistory which wns traced from an early date, the pulse may go np of Which was traced from an early date, the pulse may go np at
once to between 80 and 90 , and remain so for years. But we
selitom see at bath these twilight legimings of the disease; peopule come or are sent when it is developed, and we are startled by counting a steady pulse of mueh tension, varying from 90 to 110. beyond this point are the rare cases to which I reguest special attention. The pulse quiekens synchrononsly with the narliest oljjective signs of osteo-arthritis: it increases in freItuency mill 110, 115, or 120 are reached; any variations lie within quite a narrow range: There is no hæmic murmur, and no sign of the heart being in any way affected. In one instance, unique in my experience, a young lady was entrusted to my care (last duly) whose pulse was uniformly above 140, and as incompressible as it was rnpid. The body is absolutely non-pyrexial, and the iey purple colduess of the hands is often a striking fact. This is net the place to speculate on the cause of this remarkable symptom, nor have 1 time for doing so. Easy it is to discourse eruditely on the withdrawal of the iuhibitory influence of the pnenmogastric nerve; but I do not see how this lands us nearer may satisfactory theory of what osteo-arthritis is, or how its complex neural relations are thereby unfolded. And it is strange that the cardiac tumult often does not subside even in those many cases in which the ostco-arthritic phenomeua beceme, so to spreak, " tamed down."
$\therefore$ The next point of mark is the disturbance in the chromatogeneous function of the skin. This symptom has been of unfailing interest to me for the last three or four years, nor do I understand why it spems to have escaped the attention of sa many keen observers, Concentrated in the form of patches more or less large, the pigmentation assumes many hues, and affects many parts of the holy. Across the forehead it often runs as a light-bronze smear, always more pronounced over the temporal fosse; thence it extents under the lower eyelids, deepening the pigmentation of an already pigmented area, and generally shading off into the natural colour on the cheeks and the sides of the face. Sometimes the predominating tint on the face is lemon or arange, and sometimes there are fawn-coloured patches on the cheeks. The yellow tinge is nearly always discernible on the backs of the hands, as yellow circles around the finger-joints, and especially around the matrix of the finger-nail. In people of dark complexion the discolourment of the face and neck may be so swarthy as te call up recollections of suprarenal melasma; and the white luminosity of the eycs stands out in brilliant contrast. But I desire to lay special stress on the occasional deep pigmentation of far advanced osteo-arthritis, representing what has been termed multiple xanthoma. In this extreme form large, dirty-brown blotehes appear betweon the knee and the ankle, connected by longitudinal streaks, which are intensified in colour by parexysmal pain. Trophic clanges in the texture of the skin occur on the soles of the feet and the palms of the hands, which become rough and horny, and bright with the hue of marigolds. Finally, the nails of fingers and toes separate from their respective phalanges, and are torn and twisted from the matrix by an accumulation of dry chalky material. In this condition of things a patient dies sooner or later from some intercurrent malady, probably an extension of the already grave neurosis. I have now drawn the outlines of an actual patient, entrusted to me in 1884 by Dr. Morton, of Guildford. and who was iny constant care until her death more than two yeara afterwards. ${ }^{2}$

That form of disseminated pigmentation which goes by the commen name of "freckles" is a very frequent aecompaniment of enrly osteo-arthritis. A multitude of little yellow specks may now and then be discerned on the foreheads of many light-haired women and not a few men, appeariug at the commencement of what they call their "rheumatic gout;" bigger specks come faster aul faster, until the whole face may be cevered with spots of every size, which extend to the neck and ears, and are often of a hlackish-yellow colour. Now look at the hands. Not only on the hacks of the hands de the freckles cluster near the knuckles, but they extend far up the arms, along divers nerve-lines; and even to the ellmws, if these joints chance to be involved. Patients are much puzzled by these freckles appearing on parts not exposer] (as they say) to sun or artificial heat: and why do they conte? is a question which 1 am often asked, but find it difficult to answer.
3. The next noteworthy symptom is the vasomoter disturbance. whirh causes local perspiration. Taking the hand of a hospital patient, m middle-aged womn, extremely rleumatoidal, I found it so wet that I saill," You have just put your hand into water." "No.sir ;

[^60]my hands are nearly always like that." There are many degrees of this morhid sudorrhoea. It may be a mere dampness, scarcely more than that which exists in many chloratic people whose circulation is feeble, and whe always have chilblains during the winter; or the sweating may be only on the palms of the liands, the natural furrows being so many rivulets which drain the parts around. The sweating process is generally intermittent, and there is most moisture when and where there is most pain. A lady sent to me in the autumn of 1836 suffered thus: every morning, at about 2 o'clock, a severe neuralgic attack came on in both lower limbs, and, at the same time, there was such excessire perspiration that the whole bed felt wet. and a thick layer of flannel was put uuder the thighs and legs to absorb the fluid which streamed from them. Other upsetting of vasometor proprieties is shown in erysipelatoid swelling of the hands; in transitery feelings of great heat, as if the hands were "parhoiled," said one patient, or being "stung all over with nettles," said another; and a very commen sensation in both hands and feet is that of being "scalded," as if the textures all through were submitted to a fiery ordeal.
4. There yet remains the large and sulijective phenomenen of pain, whicli follows the course of certain nerves in such a manner as to deserre the title of essential neuralgia. In the early synorial stage of osteo-arthritis there is pain more or less localised in the affected joints; but the warnings and foreshadowings of which I now speak are altogether different, and are due to a perverted innervation of a large nerre-plexus, or of a large area of nervesupply. The earliest prophetic note of the coming storm is pain in the muscles of the ball of the thumb, with sharp pangs on the inner side of the wrist, which I venture to call the "ulnar area" of this specific neuralgia. Later on the pain is massive and diffused, and not always to be identified with the chief nerves of a limb. Thus a middle-aged lady had a painful condition of the whole right arm, acnte and paroxysmal. Pressure along the course of the ulnar nerve and over the brachial plexus was badly borne. Now what was the meaning of all this neural disturbance? It was a beacon warning of coming evil. Already there were the pathognomonic signs of enlargement of the first and second meta-carpo-phalangeal articulations, and a trivial discolorment of the skin; and it was clear that if our whele therapeutic thought had been addressed to the neuralgia as such, we should have missed the very point of the case. What we imagine to be sciatica pure and simple is now and then a note of ostee-arthritic disease having begun in the tarsal articulations, or perhaps in the knee. But the specific neuralgia of the lewer limb which I am new describing is, so to speak, pain in bulk; the sufferer clasps the thigh with a fervid grip, and says that the pain is all round, engaging the anterior crural and obturator nerves, no less than the sciatic. An exhanstive surgical examination of the hip-jeint may discoyer that an esteo-arthritic lesion has already hegun in it, justifying the old name of "hip-ache," often applied when it was doubtful whether the joint or the nerve were the mere affected. We profess to have more perfect instrumenis of diagnosis than our forefathers: but it is certain that while we are meditating how to treat a supposed exclusive pain-storm, another and deeper pathological mischief may be creeping on unperceived. ${ }^{3}$
There are many collateral facts which show how far-reaching are the disturbances which may be roused by that profound nervequake (if I may so term it) which is at the root of the true neural arthritis. I have scen two cases (both middle-aged women) in whem the phenemena of the so-called gastric crises, precisely as in locomotor ataxy, were the earliest signs of rheumatoidal disease.
In another case the battle begon with symptoms of asthma: and a long dreary prelude of migraine-headache is very commou indeed.
Dr. Johnson, of Tunbridge Wells, sent me, three months age, a patient whe exemplified in a striking form the waves of cerelral sympathy which may be stirred ly a progressive osteo-arthritis. A lady, aged 75 , has the usual nodular joints in the fingers and knuckles; she has an orange tint on her forehead and face, with red cheeks; the fifth nerve expresses its partnership in sorrow by intense supra-maxillary pain; the equilibrium of the glossopharyngeal nerve is upset, and queer tastes are frequently perceived; there is intense deafuess, and now and then visual ver-

[^61]rigo. And just now another patient, a lady of middle age, having an intensely pigmented face, suffers from inco-ordination of the pharyngeal muscles to such an extont as to suggest to her medical attendant the possibility of glosso-labial paralysis, so great was the difficulty of swallowing.

There are links which bind together osteo-arthritis, tabetic artbropathy, and the arthropathy of hemiplegic limbs. I venture to put forward the theory that the term "osteo-arthritis" will be found to include aeveral kinds of joint lesion. There is what is commonly called the acute type, and there is the chronic type, and in both the anatomical changes are the beginning and end of the whole thing. But I contend that there is a large and hitherto undescribed group in which the pathology of joints is merely one sign of a profound nerve disorder. We call it conventionally an arthritis ; but really the arthritis is only one neural symptom among many others, and possibly not the most important. Synthetically we do not build osteo-arthritis out of pulse, pigment, perspiration, or pain: the special morbid anatomy must be there; but one or more of these symptoms may eclipse the arthritis so far as tó make it insignificant in any giren case. A new name seems to be wanted for a complex state in which the neural and trophic phenomena of the body are so curiously upset and confused; but I do not venture beyond my allotted province of merely recording what I have seen and heard.
To sum up. A patient (male or female) walks into our consulting room with a slightly forward attitude, spare habit of body, and rery likely a halting walk from something wrong in the lower limbs. We note the ovoid face, the melasmic tinge around the eyes, or the shining yellow pigment on the forehead; we feel the cold wet hands, and glance at the nodular fingers; and our diagnosis is made-miade. 1 affirm, beyond the possibility of doubt or failure; and if there be besides the hard quick pulse, one more tlement is added to the diagnosis already assured. Our ancient friend, the practical man, is now certain to be pleased; be can begin lisis treatment without hesitation and without fear; he l:nows, or ought to know, that time lost in applying his remedies is time which cannot be recalled.
I have refrained from touching many minor points, and from trayelling along some interesting by-paths, because I desire the main outlines of my theme to be rivid and unblurred. Fallacies of observation and induction beset all human inquiries; and with every caution and reserve I offer for the judgment of this veteran Society some material for the elucidation of an obscure and almost malign disease.

## ON SOME POINTS CONNECTED WITH CONCOMITANT CONVERGENT SQUINT.'

## By W. ADAMS FROST, F.R.C.S.,

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Is man, and probably also in other animals whose eyes command a common visual field, the two eyes are intimately associated in the act of rision; not merely in the sense of doubling the intensity of a risual impression, but, the two retinæe transmitting to the sensorium impressions which differ from each other much as the two sides of a stereoscopic slide, the mind is enabled to fuse these into 2 single mental picture, from which impressions of solidity, depth, and distance are obtained with much greater certainty than could be obtained from a aingle retinal image. I'erhaps the simplest way of demonstrating the advantage of stereoscopic, or, as I shall hereafter call it, "binocular" vision, is by means of Hering's test. A horizontal string is held at the level of the eyes at a distance of about two fect, and small bodies such as beans are dropped from a height of a few inches cither on the proximal or ristal side of the string, and close to it. With both eyes open there is not the slightest difficulty in seeing on which side of the etring the object falls, but with one eye alone it will be found impossible, even with the closest attention, to be certain.
binocular vision cannot, however, be abtained of all points in The visual field simultaneously, but only of such as fall upon certain parts of the two retine, which are for that reason said to be "corresponding areas." The ycllow spots correspond, and if the vetine be divided into quarters by lines meetiug at this point, thenight upper, left upper, right lower and left lower sections in
NAnabstract of two lectures delivered Februarg lith aud 2lst at the Royal
Westraiuster Ophthalmic Haspital.
one eye would correspond with those of the same name in the ather. The result of this is that when the visual axes are directed to any point (so that its image falls on the forea in each eye), images of other objecta in the same vertical transverse plane as the olject fall on corresponding areas, while those which are at a greater or less distance have their images on non-corresponding areas. In the latter case double vision, or "diplopia" results if the mind takes cognisance of both images. The impressions, however, produced by retinal images at a distance from the fovea do not force themselves on the consciousness; and although, by a little practice, most people can conrince themselves that this diplopia really exists, we are as a rule as unconscious of it as of the existence of the blind spot. If, on the contrary, the object to which the attention is directed has ita image on the fovea in one eye and on some other part of the retina in the other, then diplopia is produced,
The whole function of the ocular muscles is to direct the visual axea to the object on which our attention is fixed. Partly, no doubt, from the anatomical fact that the centres which govern accommodation and couvergence are in close connection, and partly from the physiological fact that the accommodation and convergence have from the first dawn of vision been associated in action in order to obtain binocular rision, both in the individual and through an innumerable succession of generations, it comes to pass that on accommodating for a given distance, the risual axes are converged to meet at that distance, instinctively and without conscious effort. But the power of adaptation to environment is a characteristic of organised beings, and if from any cause the conditions are so altered that binocular vision can only be maintained by an alteration in the normal relation between convergence and accommodation, that alteration may be made unconsciously if it does not exceed certain limits. This may be illustrated by placing prisms or lenses before the eyes.

Within certain limits, then, the desire for binocular rision will lead to binocular fixation. It remains for us to consider under What conditions continuous binocular fixation either demands a conscious effort or becomes impossible.
Now, in the first place, haring regard to the rariations in the conformation of the face, in the ahape and size of the orbits, and the degree of prominence of the eyeballa, it is not to be expected that the range of the ocular movements should be the same in all cases. The admirable inveatigations of Motais have shown that the limitation of morement of the eres depends on the parts of Tenon's capsule which form the check ligaments, and that these are called into play not merely when the limit of movement is reached, but that they exert a continuous and increasing control during the whole range of morement. It would seem probable, therefore, that the variations in the power of moving the globes depend less upon actual differences in the power of the muscles than upon the anatomical connection of the ligamentous processes, although, of course, when there is feeble muscular tone, an impediment would be noticed which might otherrise be unimportant.

For much of our knowledge of the rariations that exist in the relative amount of convergence and divergence we are indebted to Landolt. Adopting the metrical notation, and taking parallelism as zero, we may say that the normal condition is a power of divergence (negative convergence) which would cause the visual axes to meet at a point one metre behind the base-liue connecting the centres of rotation (that is, one metrical angle -1 Ma ); and of convergence (positire) to a point distant one-ninth of a metre ( +9 M ), the range of conrergence being thus ten metrical angles. Now it is evident that this may vary in many ways. The range may remain unaltered, but it may be displaced towards the positive or negative side, or it may be shortened at the expense of either positive or negative end, or of both. A consideration of these varieties woull be beyond our present purpose, and I must refer those of you who are interested in it to Professor Landolt's paper, of which an excellent trauslalation by our late clinical assistant, Dr. Law, appeared in the Ophthalnological Reriec, July and August, I886.

It is prident that any great departure from the normal condition will render binocular fixation difficult or impossible, according to its degree. In the former, the use of the eyes upon near ohjects for long periods will cause the symptoms classed under the term "asthenopia" with which you are familiar in hypermetropia, a symptom which has been well dufined as "a strike for less work or better tools." In the higher degrees of abnormality binocular fixation may be impossible, and then tre get a squint
developed, I When binocular fixation is only performed under protest, as it. were and in :brder to avoid diplopiaita squiat may be said to lie latent; and it will become manifest if 'anything happens to threventer binocular' vision, or to impair its walue. A laterit/squint midy therefore artificially be rendered manifest by covering 'one eye, or by causing vertical displacement: of one retimal image with a prism, for, since the eyes can only be moved together ini the vertical meridinn; fusion of the turo images then becomes impossille. The best test object for this latter examination is the well-known one of Graefe, a vertical line with a dbt in the centre. When binocular fixation occurs for the distance of the object the lines are fused; - in other conditions troo complete lines are seen, too great convergence being ishown by divergence io the images, too little by their erossing.
A latent squint may also be rendered manifest by impairment of the riston of one eye. l' mis y $1 \cdot 1$ ISorfar twe have considerell the interference with the normal relation betwcen convergence nid accommodation from the side of the former function, but it nray of course depend on'defecta in the: latter.' Myopia acts 'thits by' requiring leas accommodation; and hypermetropia by requiring more; the tendency in both cases is to :equalise the use of the two functions, and Itherefore of myopia to cause either spasm of the accommodation or defective convergence, and of hypermetropia to cause either defective accommodation or excessive convérgence.
$-\pi$ Lack of time prevents me from saying much as to the treatrient of these conclitions of disturbed relation between convergence and accommodation withorit netrial' squint. If the amount of positive convergence is defective, the symptoms can be relieved by the following methods: 1, the use prof prism with their basea inwards: 2 , tenotomy of ohe or hoth externil recti; 3, adrancement of one or both internal recti; 4, a combination of several of theee. "Prisns' alleviate the'symptoms without removing the condition to which they are due; the weight of the stronger prismand the chromaticiaberration that they cause limit their usefulness. The cboice between ' 2 and 3 will:depend upon the relative amount of negrative and positive convergence ; it.diminishes the former, while 3 increases the latter.

We will now pass from latent to actual squint, still confining our attention to cases in which there is no paralysis'; and which are called "concomitant" because the eyes, althiongh always too convergent or divergent, accompany each other. in all their movements in the normal manner.

Concomitant convergent squint is most commonly caused. by hypermetropia:' Themode of crusation is. probably well known to all-of you. The hypermetrope has to ase an excessive amount of accommolation in orler to see ; he has, therefore, thiree coarses open to himitf. He may dissociate his convergence and accommolation, and lise the necessary accommonatiom (with only the normal amount of convergence; he would,' $a$ priori, scem more tikely to do this if his bypermetropia were of low degree. 12 He may not use the necessary accommodation, and be content to hato defective near vision r it was forrinerly assumed that this actually ocenrred in the higher degrees of hypermetropia; althengh this is theoretically possible, but I think that it is much moro probable that a hypermetrope who may be unalle to nentralise his defeet alwnys endeavours to do so. 3. He may facilitate the use of accommodation fy employing his convergence at the samg time! - We are now concernell only with this last.
To Dondms. Tre owe the diseovery of tho connection between lyypermetropia and strhlismus, and his theory his been unirersally accepted till recently. Latterly, however, two objections which have heen urged against it seem to havo shaken the faith of sone: : One is that, according to it all hypermetropes should aquint: the scond is the allegen lomanity if the higher degree of hypormetropia from sculit. The first I believe to be unreasonable and the second untrue.
Why do niot all hypermetropes squint? Is there any opposing intluence? Surely the desire for hinncular'rision in this case, as in those we have already considered, will tend to prevent the development of a squint. If linocular vision prists, the immecriate. "ffect of loss of binocular lixation will be diylopia, and the cloice has to he made bet ween the inconvenience of diphopia and that of dissociating accommolation and convergence. It is true that most children who sfuint have tho diplopia, but then we' seldom sce them until the babit of sequinting is well established, and children leam very early to disregard or "suppress" one of the retinal images, 1 do not think it surprising
that children do not oftener mention the diplopia; they are generally, wery yotrag when they commence to squint, and are not accustomed to mention subjective sensations unless they are painful; lut-I have met with many instances in which it has been complained of, and in some of these I have had an opportunity later of finding that it had entirely disappeared. Given the tendency to squint, it is evident that anything that lowers the value of 'binocular vision will remove an obstacle to that tendency. Squiut, will, therefore, be the more likely to occur if the vision of one eye is defective; the same effect will be produced if one eye has a higher degree of hypermetropia than the other, for since the accommodation can only be used equally in the two eyes, the more ametrapic must have blurred images when the hypermetropia of its fellow, is neutralised. Now, as a matter of fact, we do find in the majority of cases of squint that the squinting eye has either a higher degree of ametropia, an inferior visual acuity, or both. It ased to be supposed that the impairment of the rision was the result of the squint, and was due to the constant suppression of, impressions received from it. I cannot now examine the evidence bearing on this; my own belief is that there is, in such cases, an original inferiority of one eye, but that this is largely increased by the habit of voluntary suppression. Eyes which present this amblyopia in a high degree, often possess a very fair amount of indirect rision, but the vision of, the central portion of the retina does not show that marked superiority over the peripheral, which is the normal condition, and is often obviously inferior to it. There is a class of cases in which the two eyes aree equal, and in which it seems to be a matter of utter indifference to the patient which eye he squints with. In these cabes of "f alternating" squint also diplopia is absent when the squint is fully developed. It is not unlikely that in such cases there is an original preponderance of the internal recti.
4 It remains for us to consider the alleged immunity, comparative or absolute, of the higher grades of hypermetropia from squint. The;explanation usually given that those affected with extreme hypermetropia, being unable to nentralise it, give up the attempt, always seemed to be a priori improbable, and has no foundation in fict.o It is strange that this statement has been generally accepted without question of its accuracy. When some learned philosophers disputed as to the reason why a dead cod-fish weighed more than: a live one, it occurred to someone to test the fact, with the well-known result. Low hypermetropia is exceedingly common, while high degrees (over 6D) are comparatively rare: therefore among cases of squint we cannot expect to find a preponderance of high over low lypermetropin, but I believe that it will be found that the proportion of the former is much greater than among the non-squinters.' Last year I went over my notes, in order tolascertain whether this was so or not. 1 found $a$ record of 123 cases in which the refraction had been tested The following table shows the relative proportion of the different degreés of liypermetropia (when the eyes differed the refraction of the working eye is given).

$$
\begin{aligned}
& \begin{array}{cc}
8.13 & \text { per cent. } \\
16.03 & ", \\
18.5 & ", \\
17.5 & " \\
15.3 & " \\
12.5 & " \\
11.9 & ", \\
\hline 10 & "
\end{array}
\end{aligned}
$$

I suppose'no one will contend that 11.9 per cent. is the proportion in which H: of orer 6D occurs in comparison with other degrees, but this is'rot all; squint is a prominent symptom, and a largo proportion of the cases are bronglit for advice, II. withont squint In the child often produces few symptoms; and therefore only a minority of the cases are brought. These facts are quite consistent with the riew'that the lialility to squint is projortionate to the amount of bypermetropia.
If'defective vision of one eye, or preponderance of the internal recti, is preseint in most cases, you may ask why should not they alone he helly responsible for the squint? For the simple reason that the tery large majority of cases of squint in the early stage can be cured liy correcting the lypermetropin with conver glasars. At first, and sometimes for months, the squint will return the moment the glasses are removed, but eventually a permanent cure will reant in most instances. The hest test of the curability of a siquint rith glasses is the offect of atropiue ; if there is no $\frac{\text { squint when the accommodation is rendered impossible, there whi }}{\text { usially be none whe }}$ always so, for halits that have been acquired may persist after
the original cause has been removed. 1 know that some authoritics are seeptical as to the cure of squint with glasses, but positive eridence must he allowed to outweigh negative, and those of you who have followed the practice of this hospital can lave no doubt on the subject. I would go still further, and say that in many cases the glasses may subsequently be laid aside, if binocular rision exists, without the squiut relapsing.
Of the operative treatment of squint I will not here apeak, but I wish to direct your attention to a method of producing or restoring binoeular vison when binocular fixation las been obtained. This in this country has been mueh neglected; we are too apt to think that, when we have cured the squint, we have done our work, while in reality we have but scamped it. It is true that a deformity has been remedied, but the correction of the squint in the majority of cases does nothing towards restoring binocular rision. Of this you can easily convince yourself by means of Snellen's coloured letters. ${ }^{2}$ You will find that the patient can, if each eye has good rision, sce after a little practice either set of letters at will, but seldom both at once. He is not, therefore, really cured, for he does not see as in the normal condition. We owe much to Landolt in the matter of the treatment of affections of the museles, but in my opinion his greatest achievement is that he las taught us how binocular vision may be restored in a large number of cases of squint. For this purpose a modification of the stereoscope is most useful. In the ordinary instrument the picture before each eye is, by means of a prism with the base outwards, projected to the same point on the middle line and a little further from the observer than the actual picture, so that a slight amount of convergence is used. For our purpose it is necessary that we should be able to regulate the amount. of conrergence required in order that such pictures may lie on the forea centrales. Accordingly the prisms must be capable of rotation, by which means their effect on convergence can be gradually altered. There must also be an arrangement by which either the distance of the objeet or, the strength of the lenses can be altered, in order that the amount of accommodation can be regulated. The objects before the tro eyes should be dissimilar, but capable of being fused into a single pieture. A bird on one side and a cage on the other make a very serviceable slide.
If the tision of one eye is defective, it must be improved as much as possible by practice, and a more conspicuous, object chosen for that eye. lu most cases it is at first neeessary to attract the child's attention to the picture before the eye that squinted by covering the other. Even when hoth images are seen simultaneously, it is seldom that they are fused, usually at first there is homonymous dieplacement, which must be overcome by rotating the prisms, and, if necessary, by adding others.

When once the patient has succeeded in fusing the images, and understands what is required of him, he should be encouraged to practise with other slides, and to amuse himself daily with it. from time to time Hering's test should be .used to see whether any progress has been made towards hahitual binocular vision. This mode of treatment has been little practised hitherto owing to the difficulty of proeuring a stereoscope which would be within the means of liospital patients. Messrs. Pickard and Curry have, however, now manufactured an instrument after Dr. Landolt's model which will, I believe, obviate this dificulty; and it is not unlikely, that by this means many more squints will. be cured without tenotomy than has liitherto been possible.
${ }^{2}$ Transparent letters of complementary colours, arranged alternately, anil rietred through similar tlasses-nre before each ere. Since each glass quenches the light which has passed through the letter of its complementary colour, each eye can only see the ait ermate letters.
Satiskactory information as to the decrease of small-pox at Sheffield continues to be received. The malady is said to be decreasing both in the number of cases and in the malignancy of the disease.

Ir is suggested by Iresident Cleveland that the United States forernment should prohibit the importation of swine or porcine products from Frauce and Fermany, owing to the information received that disease exists among swine in those countries.

Steps have been taken by the friends of the late Dr. Adey to connect his name inseparably with the Hastings, St. Leonard's, and East Sussex IIospital. A meeting with this object was held at the hospital on Thursday, March 29 th, to consider the question of raising some permancit memorial to this physician, whose name is deservedly held in high esteem by the inhabitants of the district.

THE VALUE OF ELECTRIC HLSUMLIATION OF, THE URINARY BLADDEI (THE NTTZE METHOOD) IN THE DLAGNOSLS OF ' OBSCURE: VESICAL DISEASE.?

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THE new incandescent-lamp cystoscope lias been before the profession for more than' a year, ${ }^{2}$ and sufficient knowledge has been acquired of the capabilities of this instrument, and of its fredecessor, the Nitzc-Leitér cystocope of 1879, to warrant the discussion of certain important questions bearing upon the subject of resical endoscopy. There can be no dispute as to the immense adrantage Thich rould be gained by a visual examination of the, interior of the bladder in certain cases of obscure reno-vesical dis-ease-cases in which neither the sound nor the microscope nor a careful estimation of the symptoms afford any clue to the nature and site of the disorder. Nor can there be, as far as the mere examination of the bladder is concerned, any difference of opinion. as to the superiority of a successful cystoseopy over a digital cxploration by the boutonniere operation. The questions which merit our consideration relate to the means at our command of obtaining a successful inspection of the interior of the bladder without a cutting operation. They may be thus formulated: Is the electric cystoscope of practical ralue? What rank will, the instrument acquire as a diagnostic agent?
The former question can be readily answered by a reference to the rork already done. Obscure vesical symptoms, in which an efficient cystoscope would prove of practical utility, may be elicited by foreign bodies (other than stones), Iatent and sacculated calculi, rarious forms of ulceration and vesical growth which cannot be diagnosed bimanually or otherwise. It is in the inferior zone of the bladder that these conditions are mostly to be met with. Given: an incandescent-lamp cystoscope in good working order and well lodged in the bladder, a clear medium, a practised eye and hand, and it can be affirmed beyond dispute that the entire inferior zone can be thoroughly searched without a cutting operation $\mathrm{b}_{\mathrm{y}}$ means of electric light. The following briefly described cases from the literature and my own notebook will serve as illustrations.

Foreign Bodies.-No case could be more conclusive as to the practical value of the cystoscope than the following. which came under the carc of Dr. Nitze, the able introducer of this brilliant innovation. F. S., aged 35, had left-sided ovariotomy performed by Martin; the pedicle being secured by several stout silk ligatures. Tro years after the operation the patient was sudilenly seized with acute cystitis. A calculus was discovered and partially crushed, a silk ligature being subsequently passed along with calculous debris. The patient then came under Dr. Nitze, who performed litholapaxy. In attempting to remore the lithotrite, it was felt to be firmly held by something in the bladder. It was withdrawn with an effort, and a silk ligatare was found entangled in the jaws of the instrument. All the stone was removed. The electric cystoscope was introluced, and the eulls of a thick glistening white ligature were seen projecting from a deeply congested pit in the?mucous membrane of the lelt wall of

the bladder (Fig. I). The lithotrite was introduced and the .liga-

[^62]ture cloverly caught and dragged out. This and the other ligatures had ovidently ulcerated their way through, producing the cystitis and consequent calculous formation. ${ }^{3}$ Nicoladoni ${ }^{5}$ was ablo to demonstrate a needle sticking in the right half of the anterior wall of the bladder to a large class of students.

Calculus.-Dittel, findiug a difficulty in removing a stone by the lateral incision, introduced the cystoscope, and found that the calculus was projecting from the mouth of a diverticulum. Although the eystoscope will never supersede the sound, yet stones are very easily found by means of the light, and that without much manipulation. They form beautiful objects. I tried the instrument in two cases lately before using the sound, and in both the stone was immediately recognised.
Case 1.-11. H., sent by Mr. Molson, of Ilaistow. The patient had had frequency and straining for four years; no hrematuria; no characteristic pain; residual urine eight ounces. The eystoscope revealed a large írregular brownish coloured calculus, with a flocculent surface lying on the right side of the base of the bladder. Sulssequently verified by the lithotrite.

Case 2.-11. C., aged 66, sent by Mr. Hichens with the diagnosis of calculus. Thepatient had suffered claracteristic pain and profuse hiematuria; a large intravesical collarette of prostatic growth was present. Cystoscope showed the calculus as a brilliant white object. lying in a clot of blood behind the prostatic outgrowths. It was removed suprapubically:

Tesical Growthe-C'ase 1.-N. C., male, aged 70, under the care of Mr. Bve. Patient had been a heavy drinker. Sixteen months before death a profuse hematuria appeared, which never subsequently left him, though it was kept under control by hemostatics. Ile suffered no pain, nor was he troubled with frequeucy until the disease was considerably advanced. No growth or stone could be discovered. Microscopical examination of the urine revealed nothing. I was asked to examine him with the cystoscope. The instrment was introduced and turned on to its side, and a subsessile lobulated tumour was immediately discovered on the right side of the trigone. The lobes were large and deeply injected. Fig. 2 represents the sketch taker. It was decided to leave it


Fig. 2.
alone. Yerineal cystotomy was performed a month after for drainage, and the growth was then verified by digital exploration. On post-mortem examination secondary deposits were found in the liver.

Casa 2.-M. B., female, aged 55, under the care of Mr. Heycock. ]atient had suffered from intermittent haematuria for three years. Usially pain on passing clots. On introducing the cystoscope I detected a walnut-sized tumour on the left side of the base. It was a rcmarkable object (Fig. 3). Its surface was slightly nodular,


Fig. 3. (The mucous fim lins been omitted.)
but the cracks and cramies were filled with a glistening white layer of phosphatic deposit. Floating away from, but partially

[^63]attached to the summit was a cloak of clear mucus, which wavered and trembled at every current set up by the movements of the iustrument. The urethra was dilated, and the position and size of the growth verified by digital examination; an écraseur loop was slipped over it, and its thick stout pedicle slowly cut through. It proved to be a fibro-papilloma. The patient made an excellent recovery:

Seventeen other resical tumours are to be found in the literature, from which 1 have selected two (figs. 4 and 5) from Dr. Nitze's


Fig. 4.


Fig. 5.
work. ${ }^{5}$ Fig. 4 represents a pedunculated villous tumour which Dr. Nitze found hanging over the urethral orifice of the bladder of a man aged 50, a patient of Professor Küster's; it was removed suprapubieally. Fig. 5 represents a carcinomatous infiltration very similar to Case 2. It was found on the right side of the urethral orifice by Dr. Nitze in a patient of Dr. Israel's.
What rank will the electrie cystoseope assume as a diagnostic agent? It is as yet difficult to estimate its future position, for the instrument has become very popular, and improvements are already on foot. It will never bear comparison in general utility with its kindred, the ophthalmoscope, laryngoscope, or otoscope: for even the slight difficulty attendant on its management and the necessity for a battery will debar it from tho wide popularity of those easily-managed instruments for the eye, throat, and ear. It will doubtless become an important atom in the molecule of vesical diagnosis, and in some very rare instances that molecule itself. Without, therefore, weakening the analytical judgment of the eymptoms of the case, it will probably be turned to when other forms of investigation have failed. Of its future importance in the differential diaguosis of the site of symptomless hæmaturia and pyuria, J have but little doubt. The ureters can generally be discovered and examined as to the nature of their eflux. J have seen in one case of renal homaturia a jet of bloody urine issue from the right ureteral orifice into the artificially cleared medium in the bladder, just as a miniature cuttlefish would squirt out its coloured fluid into the water around. The source of the hæmorrhage was thus at once indicated. In the estimation of the advisability of suprapubic removal of prostatic intravesical outgrowth (MacGilf's operation) it may prove of use. I have latterly made a point of eramining the prostate by its means. Inereased risual knowledge of the living bladder may cause the cystoscope to assume an important prognostic position (as may be judged from Figs. 2 and 5), indicating those growths which are removable, and those which it is the wisest policy to leare undisturbed. Lastly, it will be the arbitrator between the boutonniere and the suprapubic operation for vesical growths; for those which are single, lightly pedicled, and situated close to the urethral orifice may well be treated by the perineal incision, whilst those which are shown to be multiple, subsessile, or springing from dimples in the mucous membrane certainly require the wider access afforded by a sectio alta.

[^64]Tius Dose of Diomtatin and Aconitin.-The French Phasmaceutical Society have decided not to dispense granules containiug more than one-tenth of $s$ milligramme of digitalin or aconitin. Hitherto it has been usual to prepare them with a quartir of a milligranme of one or other of these alkaloids, but owing to the greater activity of the modern erytallised alkaloids, several serious aecidents have happened from doses of a quarter of a milligramme, fatal effects in one case haring followed the ingestion of this quantity of aconitin.

## ON THE ORIGIN AND STRUCTURE OF CERTAIN LOOSE BODIES IN THE KNEE-JOINT.

By HOWARD MARSI, F.R.C.S.,
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In a letter from Professor Humphry in the Jounnal, of March 17 th (at page 613), on "Loose Bodies in the Knee-Joint," the following sentences occur: "I am correctly stated to have expressed my scepticism in regard to the possibility of the formation of these loose bodies by the detachment of portions of the articular cartilages." "It must be a very extraordinary and violent accident that would break off into the joint a piece of the articular cartilage, with or without bone, of the femur or the tibia. One can scarcely imagine the occurrence of such an accident, or conceive how it could take place." "We hare a ready and sufficient explanation of the formation of loose bodies in the growth...... of tufts or processes of synovial membrane, which......naturally containing cartilage cells, may become the seat of cartilage-growth and ossification, and by rupture of the pedicle become loose in the joint...... We need not therefore search for other and highly improhable modes of origin." "I can scarcely suppose that anyone really believes that a portion of bone detached by the process of necrosis can be converted into one of these bodies, thongh such a suggestion is actually made in a receut and important work on surgery."
But for the adjective "important," I should conclude that the work alluded to is one for which I am responsible (Diseases of the Joints, Cassell and Co. 1886), for 1 hare stated, at page 181, (1) that "pieces of cartilage, with or without portions of the underlying bone may, after injury, as pointed out by Teale, Sir James Paget, and others, exfoliate and drop loose into the joint, without the symptoms of inflammation nsually observed in cases that end in necrosis; or (2) a piece of cartilage, or of cartilage and some of the adjacent bone may be chipped off and fall into the joint." Thus-though perhaps Professor Humphry refers to some other work-I have certainly written in a manal intended for students, as well as surgeons in practice, that which Professor llumphry "can scarcely suppose that anyone really believes." I shall therefore be glad, if space can be afforded me, to say what grounds there are for stating that which l'rofessor Humphry regards as so extremely improbable.

1. As to the formation of a loose body by the breaking off into the knee-joint of a piece of the articular cartilage, with or without bone, of the femur or tibia.

In the museum of St. Thomas's Hospital, Specimen D. $110^{1}$ is thus described in the Catalogue (rol. 1. page 140): "Loose body from the knee-joint, removed by Mr. Simon, in 1864. It is a fragment of articular cartilage and bone, apparently chipped off from one of the condyles of the femur." The specimen was shown hy Mr. Simon, at the Pathologrical Society on May 17th, 1864, and is described by him in the following terms (Pathological Societys Transactions, rol. xv, page 206).
"Broken-off bit of Condyle loose in the Knee-joint.-A young man who, in falling, had wrenched his knee, came into St. Thomas's Hospital to be treated for some inconsiderable synoritis which followed the accident, and, while under treatment, was found to bave a loose body in the joint. As soon as all acnte symptoms had subsided (about three weeks after the injury), Mr. Simon operated for the remoral of this loose body, and, having removed it, found that it was a broken-off bit of the articular end of the femur, covered on one side with its natural cartilage, and being about the size of a bean. The patient recovered without interruption."
I am indebted to Mr. Shattock, whose opinion on such \& question few, 1 think, will dispute, for the following report:

The cartilage in Mr. Simon's specimen has every eharacter of healtly articular cartilage, in arrangement of cell-groups and homogeneity of the ratris. There can be no doubt whatever that the loose body is a portion detached from an articnlar surface."

Fig. 1 represents this body enlarged, for the sake of clearness, to about five times its real size. The bone and the cartilage can be phanly seen. Considering the very definite history which we lave direct from Mr. Simon himscif, and considering Mr. Shattock's report, I think there can be no rensonable doubt that, in
this instance, a piece of the articular cartilage, with some adjacent bone, was broken off into the joint.

A noteworthy point in this case, in reference to Professor 1 ! 1 um phry's opinion, that it must be a yery extraordinary and riolent accident that could break $\}$ off a piece of articular cartilage, with or without bone (see above), is that, according to so cautious an observer as Mr. Simon, this injury was produced by a mere wrench of the knee occurring during a fall, and that it was followed only by "some inconsiderable synovitis."


Fig. 1.
2. As to the question whether "a portion of bone, detached by the process of necrosis, can be converted into one of these bodies" In the museum of St. Bartholomew's Hospital (Cat., vol. i, No. 721) are "two portions of cartilage remored from the knee-joint of a lad, aged 18. They are almost exactly alike in form and size, each resembling such a piece of cartilage as might be obtained by removing that which corers the posterior surface of one of the condyles of a femur, and each, as such a piece would be, is smooth and polished on its convex and rough on its concave sur-


Fig 2
face (Figs. 2 and 3). There was an interval of about a year between the operations by which these bodies were removed." In \& report on this speeimen in the St. Bartholomew's Hospital Reports, rol. ir, I 668, p. $25 \pi$, I said, "On close examination both these cartilages are found to hare a thin layer of bone on their concave surface; this presents, under the microscope, the characters of true bone, and is covered with a scanty layer of irregularly disposed fibrous tissue. The arrangement of the cells in the cartilage of both specimens is precisely similar to that of articular cartilage."
The next specimen ( 722 ) in the same museum 1 have described in the Reports (vol. iv, p. 256 ) as follows:-" It consists of a layer of cartilage and a layer of bone intimately connected with each other. The cartilage is smooth and glistening on its free surface, like ordinary articular cartilage (Fig. 4). In profle it is seen to have the thickness of the layer that encrusts the condyle of the femur in a healthy adult. Its margins are irregnlar, as if defined by fracture, and recede towards the bony layer. This latter is of less superficial extent than the cartilage, which exceeds it in erery direction. At its central, which is also its thickest, part, it measures about tro lines. Its surface is irregular and cancellous (Fig. 5). Examined with a microscope the carti-


Fig. 4.


Fig. 5.
lsge is found precisely like articular cartilage. In its decper layer the cells lie with their long axis at right angles to the subjacent bone, while, towards the free surface, they are small, numerous, elongatect, and with their long axes parallel with the surface. The bone presents the characters of true osseous tissue."

Dr. Vincent Harris; Demonstrat or of Physiology at Sc. Bartholomew's llospital, in the course of last week kindly examined these specimens (Jos. -2I, 722). He writes: "I have no hesitation in
sajoing that thes: consist of spongy bone covered with artioular cartilage, and have also suhmitted them to another competent mullority who coutirms my: opinion."

In the St. Sartholomew's Hosjuital lieports. (val. vi, 1870, p. 1) Sir James baget, aftur referring to a paper on "Quiot Necrosis" whide he lad contributed to the Clinical Society's TransacTions (vul iii, p. 1sis), writes:-"Not loug afterothis case, I had occusion t") renuro a loose cartilnge from a..knce-joint., The pationt was IG, active, athletic, aud, except at his knee, thoroughly lealthy. It llarrow he liad had many blows and strains of the knee, the ho conld not refer to any one of them as a cause of specinl injury. Ne had had for ncarly a year all the uanal signs of a loose body in the right knee."

Aftor removal "this body looked exactly like a piece of the articular cartilage of one of the condyles of the femur. It was irregularly aval in outline, about an inch long, half-an-inch wide, and a line in thickness. On one surface it was convex and smooth, on the other concave and rough: and on this surface was a small prominent piece of bone, as if, with the cartilage, a piece of the articular surface of the femme had sepiarated. The borders of the loose borly were simoothly rounded off. In agreement with this general likeness to a piece of articular cartilage from a condyle was the microscopic structure of this loose body. In sections through its thickness was fonnd a nearly homogeneous basisisubatance, with cartilage-corpuscles, which, in arrangement and all their other characters, were exactly like those of articular cartilage......Thus no character was wanting to make it certain that this loose body was a piece of the cartilage, together with a very small bortion of the bone, of one of the condyles of the femur."
") believe that the explanation of the formation (of such bodies) is to be found in the case of quiet necrosis referred to at the beginning of this paper. These loose bodies are sequestra, exfoliated after necrosis of injured portions of cartilage, exfoliated withont acute inflammation, just as the piece of bone was, or as a tooth after a blow may be slowly detached from its alveolus and cast out...
"The view that certain loose bodies in joints are pieces of articular cartilage, exfoliated after necrosis due to violence, is supported by the fact that they are frequently consequent on injury in perfoctly healthy young persons, and that, when a particular injury can be assigned, it is always at some weeks previous to the first fiading of the loose body."

- When these descriptions were given, neither Sir James Paget nor myself kuew of Mr. Teale's paper (Medico-Chiruigical Transactims, vol. xxxix, $1885, \mathrm{p}, 31$ ) in which' he describes a "case of letached piece of articular cartilage existing as a loose substance in the knee-joint." In this case a brewer, aged 37, had, a year before, accidentally let a cask fall against his right knee. "Severe pain followed, and lie was unable to work for three weeks, after which lie followed his employment as usual for nearly twelve nonths until a few days ago, when he became suddenly lame, and was unable to bear his weight upon the leg. He then for the first time felt a llat substance moving aboat in his knee-joint." Mr. Teale removed the body, and, unfortunately, the patient, who had been a free drinker, died. "The substance, on being examined, was found to be flattened, circular in form, and irregnlar or ragged at its border. One of its surfaces had the appearance of chrtilage, and was smooth, and slightly convex; the other was concave and rough, from a layer of bone." On opening the joint, "at the under aurface of the inner condyle the articular cartilage showerl a circular depression, about the cighth of an inch in hepth, having a rough surface of hone at ita base. On comparing this breach in the articular cartilage with the aubstance which Jad been removed, they were found to correspond accurately with each other, and, on placing the letached substance in the cavity in the condyle, the continuity of the articular surface was perfectly restored. It is, therefore, evident that the loose body was a portion of the articular cartilage along with a thin lajer of bony substance." Mr. Teale believed that the injured piece of cartilage was cast off into the joint "by a slow process of exfoliation extending thronsh a protiod of about twelvo months "ifigs. 6 and 7 ).
"Mera, then, are aix loose bodies from knee-joints. One, we are tote hy Mr. Simon, is "a broken-off hit of condyle," and Mr. Shattock lias un loubt that it consists of a piece detached from nn articular surface. A secomil was found by Mr. Teale to exactly fit into and make good a breach in the inner condyle of a femur. A ${ }^{5}$ third is minutely duscribed ly Sir James Paget, who states:
"Ihus na character was wanting ta make it certain that this loose body was a piece of cartilage, with a very small portion of bone of one of the condyles of a femur." Tho remaining three are in the St. Bartholonew's Hospital Museum, and are pronounced by Dr. Vincent llarris to have the structure of true bone and articular cartilage. All but the firat are, I believe, sequestra dutached by the process which Sir James Paget. has termed "yuiot necrosis."


In this commnnication I have kept exclusively to the two chief points raised by Professor Humphry, though there are many others connected with the interesting subject referred to in his letter that would well bear discussion. I will only add that I entirely agree with his view, which no one, so far as 'I know, wonld question, that the great niajority of "loose bodies" in joints are derived from the synovial membrane in the manner which he has described.

Since the above fras written Sir James Paget has directed my attention to No. 647 in the College museum, which is thus described (Catalogue, p. 35): "A large piece of cartilage and bone, of the shape and about half the average size of a patella, removed from a knee-joint. It may be regarded as a portion of one of the condyles of the femur, which, probably after injury, was separated by a process similar to necrosis, but withont acute infiammation. The articular cartilage is thinly extended over the. edge of the bone. Presented by Sir Ererard Home." Mr. F. S. Ere, l'athological Curator of the College, who has kindly examined the specimen microscopically, Istates: "I believe that in No. 617 the loose body was derived from the articular cartilage."

## ON THE RELATION OF SCROFULOUS GLAND

 DISEASE TO OTHER FORMS OF TUBERCULOSIS: 'AN EXPERIMENTAL INQUIRY.' By FREDERIC S. EVE, F.R.C.S.,Assistant-Surgeon to the London Hospltal; Curator of the Pathologlaal Museum, Ioyal College of Surgeons.

SOME two yenrs ago, while writing a brief article on scrofula and tuberoulosis for a student's Manual of Surgery, ${ }^{\text {m }}$ my attention was drawn to the differencea of opinion existing on the precise relation of scrofulous gland disense and affections described as tuberculous. If found that some clinical tenchers with large experience in disenses of childhood still maintained that the two affections wert praetically distinct, while among pathologists some taught that acrofuia and tuberculosis were synnnyms fer the same disease; others that in serofula the tubercilons virus was so profonadly modifiell as to constitute a special variety. The latter view was strongly smpported by some experiments of M.S. Arloing, Which ${ }^{3}$ appeared to prove that inoculation with material from scrofulous

[^65]glands was innocuous to rablits, while it produced general tuberculosis in guinea-pigs.
The significance of this assertion, if well established, is clear, when it is stated that material frem true tuberculous diecases produces visceral tuberculosis in both animals. The results of these experiments seemed of so much importance that I was desirous of testing the matter for myself, more especially as Arloing, in his first two groups of experiments, had only used glands taken from one patient. Further, I had observed sucls remarkable differences in the naked-eye appearances of strumous glands that it would have been no matter for surprise to have found that two or more diseases had been grouped under a single heading. This could only be tested by making experiments with a series of cases. Structures microscopically characteristic of tubercle and bacilli bad been found in some glands; hat in many others the histological appearances were indistinguishable from those of simple clironic inflammation, and might eren simulate those produced. by syphilis in other organs. For example, J. Arnold, who examined ninety cases, found giant cells very rare.
M. Arloing's experiments were, shortly, as follows: A juice was prepared from a single scrofulous, gland, caseous in the centre, which was taken from a boy aged 14. This was injected beneath the skin of ten rabbits and ten guinea-pigs. Tisceral tuberculosis developed in all the guinea-pigs, but the rabbits, remained healthy, except that two showed yellow and caseous granuldtions at the seat of inoculation.
A second series of experiments were made with a gland subsequently remored from the same boy. The juice was injected into the peritoneal cayity of six rabbits and six guinea-pigs. As be-
fore, the gui fore, the guinea-pigs all presented tubercular lesions; the rabbits, on heing killed, were found to be perfectly healthy. In
stances, pus from strumeus abscesses gare similar results.,
Some glands excised from the neck of a young woman produced tuberculosis both in rabbits and in guinea-pigs, hut the patient died three weeks after the operation from miliary tuberculosis. Arloing appears to consider this case as outside the general category of strumous glands.
From these experiments he inferred that either scrofula and tuberculosis were nearly allied affections, but caused by different agents, or they were derived from a single virus, of which the activity was modified in the scrofulous form.
In my experiments 1 used small fragments of the glands prepared with sterilised instruments, and the possibility of infection of the animals with true tuberculosis was negatived by the precautions taken. My experiments on rabhits are briefly as follows:-
Experiment I.-Rabbit inoculated beneath the skin of both cars. Cold abscesses formed at the seat of each inoculation, and remained stationary; bit the animal continued well until the expiration of nine mouths, when, juidging it to have escaped, it was re-inoculated in the peritoueal cavity.
Experiment ir.-Rablit inoculated in anterior chamber of eye with portious of a non-suppurating gland. A large mass of caseeus material formed and ultimately projected from the eye (drawing shown). Animal killed three months after inoculation. Tuherculosis of lungs and liver. Brain healthy.
Expermient III.-Rabbit inoculated in anterior chamber with portions of caseous material and adjoining gland tissue from a strumous gland. No growth formed in the ere. Animal killed in two months and a lialf. No disease anywhere. Sections were made of these glands, and, after careful staining, no bacilli could be demonstrated. The gland substance had hecome in great measure transformed into fibrous tissue.

Expermant ir.-Rabbit, previously inoculated beneath the skin (sce Experiment 1), again inoculated in abdomen. Killed after lapse of eleven weeks. Three large caseous glands were found beneath aud below liver, and in the latter were yellow threads and stripes, found, on microscopic exnmiuatiou, to be tuberculous. Lungs and other organs healthy. Pus containing many bacilli still existed in the abscesses of the ears, but the visceral tuberculosis may probably be ascribed to the last ineculation.
ExPERMENT r.-Rabbit inoculated in abdomen. Killed after lapse of four months. Tuberculosis of lungs; ot her riscera healthy: An enlarged lumbar gland.
Glands from four other fatients were also used for inoculation of guinea-pigs, and each time with positive results, Altogether, glands from ten different cases, taken at hazard, were used; but in one (not cited abore), in which a rabbit was inoculated in the eye, the animal dicd in twelre days, and only minute yellow
nodules were found in the liver. The nature of these nodules could not be absolutely determinetl. Eight of the remaining nine cases were all proved to be tubercular.

As regards the results of the experiments on rabbits with glands from five different subjects, the material from three cases produced risceral tuberculosis ; from one case, cold abscesses; and in one instance (Experiment III), in which a ralbit was inoculated in the anterior chamber, it escaped infection altogether: no bacilli could be discorered in this gland. The animal in which cold abscesses occurred was inoculated beneath the skin.
I need hardly call attention to the marked manner in whicls these results differ from those of Arloing above described. Thile my experiments were in progress Arloing was pushing his somewhat further in the direction indicated by his first experiments. ${ }^{3}$ Believing that scrofulous glands never produced visceral lesions in rabbits, and that in struma the activity of the virus was attenuated, he sought to find if this could be increased by passing it twice through quinea-pigs. His experiments showed that the passage of glandular scrofula through the guinea-pig in two successive generations did not augment its rirulence as regards rabbits. He also found that local tuberculosis of joints and hones only produced cold abscesses in rahhits, but, en passing the rirus through a guinea-pig; tuberculosis of the lungs developed in rabbits. "This fact merits," he says, "to be taken into serious consideration at a time when there is a tendency to confound tubercle and scrofula as a single affection. It justifies once more the difference that we have established between the twe morbid states. If it is not yet proved that they are the work of a distinct virus, it will be granted that true gland scrofula is yet more removed from the primitive rirulence than local tuberculosis. P'erhaps it is sufficiently removed to constitute a fured variety analogous to those mioro-organisms which, after having lived for many generations in a certain species of animal, hare become iucapable in consequence (in spite of all known means) of killing the species which had furnislied, them and among which they made numerous rictims."
These later olservations I have also repeated, with equally dissimilar results.
Experiment r.-Two rabbits were inoculated respectively in the abdomen and anterior chamber of the eye with organs from a guinea-pig rendered tuberculous by strumous glands. The rabbitinoculated in the abdomen was killed two months after, and showed tulercles in the peritoneum covering the crecum (opposite the abdominal wound), caseous lumbar glands, and tuberculosis of the lungs. The other rabbit died after the lapse of fire weeks. The portion of tissueplaced in the anterior chamber had increased, but there was no risceral tuberculosis.
Experiment II $-\AA$ rabbit was inoculated with portions of the lung of a guinea-pig reudered tuberculous with strumous glands. It died without appareut canse in elerer days; but a caseous alscess and some tubercular material had already formed in the groin, and there were numerous yellowish-white points in the liver.
Experiment inf.-Two rabhits were inoculated in the abdomen with tuberculosis of a guinea-pig excited by strumous glands. One died in seren weeks and the other was killed. Both showed. general tubercular peritonitis and general visceral tuberculosis.
$1 u$ the first and third of these experiments, the virus was certainly intensified by passing it through the guinea-pig, for these are the most acute cases of tuherculosis I have been able to induce by strumous gland disease in rabbits, the tubercles being disseminated orer the peritoneum (specimen shown).
Here are the intestines of a rabbit inoculated in the peritoneal cavity with miliary tuberculosis which had been passed through a guinea-pig, and it may be seen that there is very littlo difference in the result in each case (specinen shown).
It is difficult to reconcile the discrepancies between M. Arloing's results and my own. As in his first series he used glands from only one case, the rirus may have been of an exceptionally mild
type ; or the failure of rabhits to materin the failure of rabbits to take tuberculosis when tho haterinl was injected in solution into the peritoneum may, per-
haps, be explained by the virus being obsorbed immediately aud destroyed by leuoncytes., When iutroduced by small fragments of glands, as in my experiments, a certain amount of inflammation may be excited, and a more favourable nidus obtaiued for the growth of orgauisms. This was evident in cases of tubercular peritonitis, for in these a mass of gelatinous granulations on the
inner surface of the wound in the aldominal wall formed the focus of infection, as shown by the distribution of the tubercles on the peritoneum.
The similarity in point of histological appearances between scrofulons and tuberculons lesions has formed the subject of several excellent memoirs. I have exumined sections from most of the animals experimented on, and find no essential differences between them and the sume lesions produced by the inoculation of miliary tulbcrulosis, only slight alterations in accordance with the acuteness or duration of the disease.

Like other observers, I have found tubercle bacilli, althongh in rery small numbers, in strumous glands; but in abundance in those organs which 1 hare examined from the rabbits and guineapigs inoculated experimentally. The bacilli in the risceral tuberculosis were generally uniformily stained with even outlines; but in the strumous abscess in a rabbit which had existed for eight months they were nearly all "beaded" or uniformly stained, and often collected in groups not unlike clumps of micrococci. These changes in the form of the bacilli in acute and chronic cases of tuberculosis have been noted by MM. Raymond and Arthand. ${ }^{5}$

In investigating the relation of strumous disease to other forms of tuberculosis, it was necessary to consider the possibility of its belonging to the form of tubereulosis described as tuberculose zoogleique by Malassez and Vignal, and which has also been observed by Eherth. This disease inits conrse anatomical characters cannot be distinguished from tuberculosis; but. on investigating the lesions microscopically with appropriate reagents, the bacilli of Koch are not to be found, while at the periphery of the caseous centres of the nodules are dense masses of micrococci, usually distributed in zongloen, but in part in chaplets. The precise relation of this disease to bacillary tuberculosis has not yet been determined. Malassez and Fignal discovered it in guinea-pigs which had been inoculated with a tuberculosis of the skin; and recently Chantemesse ${ }^{7}$ ohtained the same disease by inoculating guineapigs with portions of sterilised cotton-wool, through which the air of waiting rooms used by phthisical patients had been passed. Malassez and Vignal incline to the opinion that zoogleic tuberculosis may cocxist with the ordinary bacillary form. In their experiments bacilli appeared in animals inoculated with a third series of cultures of micrococci, of which each generation had been passed throngh a guinea-pig. It is even possible that the micrococci may be simply contaminations of bacillary tuberculosis. The subject, therefore, requires further investigation, especially in tuberculous products from man. With the reagents employed by the authors abore mentioned I have carefully searched two specimens of strumous gland, and many discased organs both from rabbits and guinea-pigs inoculated with strumous glands, but have found nothing like zoogloa, except in one gland. Ilere were some darkly stained granular masses, but the granules were not well defined, and disappeared when the field was fully illuminated by removing the diaphragm. They rere probably nothing more than masses of granular caseous material.

In passing I may here state that I hare much pleasure in confirming, as regards strumous glands, the observation of Mr. Treves, ${ }^{\text {s }}$ "hich has been combated by high authority, that many of the "giant cells" are clearly formed by lymph coagula lying in lymph sinuses. I may also call attention to a curious condition of the lungs of some guinea-pigs which had been inocnlated with tubercle. They are studded with rounded carities, some larger than a pea, and many of these projected beneath the pleura, lookmg like bulle. On microscopic examination they appeared to be formed by the softening of the caseous centres of tuberculons nodules, and by dilatation of the minute bronchi. The occurrenee of cavities in the tuberculous lungs of animals has been denied by Chantemesse.

To conclude, while I have shown that the virus of strumous gland disease produced risceral tuberculosis in rabbits as well as in guinea-pigs, ret I admit that the discase in rabbits is not so acute and rapidly fatal as that following inocnlation with, for example, acute miliary tubercle. The difference is one only of degree, not of a kind permitting us to infer, with Arloing, that atruma is a specialised form of the tuberculous virus. We must, therefore, fall back on another explanation of the clinically innocent course of strumous gland disense; and we find it probably in the locality or coil in which the virus is implanted. Taking cervical gland

[^66]disease, if the virus is not inherited from a consumptive or strumous parent, it may be surmised that the common bacillus of phthisis is implanted in the lymph follicles of the pharynx or tonsll, in one of the adjoining mucous membranes on the akin, and is carried lirect to the glands. These, acting as filters, arrest its progress. permanently, except in some cases in which auppuration and ulceration take place, when the surrounding textures may become implicated, and general dissemination ensue. The malignancy of the virus may be somewhat attenuated under the lacal influenco of the lympli cells and leucocytes in the gland, but to admit that the viris producing the disease is ab initio specialised, would be to infer that the strumous disease could only be produced by the virus of struma, and no other. ${ }^{9}$

In conchision, I would emphasise the objections to the use of the terms "scrofula" and "struma" for lesions resembling tuberculosis.

Teachers must often be asked by students as I hare been, What is the difference between a strumons and a tuberculous testicle?

Further, any evidence tending to connect more closely strumous gland disease with general tuberculous affections encourages us to persevere in the practice of early operation (where possible), with the riew of completely eradicating the disease.

## PERICHONDRITIS OF THE LARYNX.

By R. NORRIS WOLFENDEN, M.D.Cantab.,
Scnior Physician to. the Throat Hospital, 'Golden Square.
A veny instructive case has recently occurred in my clinic, of which I append the notes. The patient, C. T., agcd 43, a big, strong-looking man, by occupation a policeman, applied at the Throat Hospital on September 20th, 1857. He gave the following listory. He had been a policeman for sirteen years, had never had any illness that he remembered, except an injury to the knee, which kept him in hospital for fifteen weeks. The father is alive and well, the mother dead fifteen years before from "cancer of the breast:" all other relatives were healthy. The patient himself, though frequently pressed, could gire no history of syphilis. At Christmas, 1885, he had caught a serere cold, suffered sore throat, and loss of voice and dyspncea on lying downin bed. Under treatment he got somewhat better, partly regaining his voice, which, however, never became so clear as formerly. From time to time he caught cold, and suffered extinction of the roice, but was not ill enough to relinquish his work. Ile attended the Victoria Park Chest Hospital at Christmas, 1886. In July, 1887, he went to Yarmouth, and on returning home continued his work until coming to this hospital in September, 1887.

I saw him first on October 25th, 1887, and then found uporr Iaryngoscopic examination that, situated ander the right rocal cord, projecting beyond its edge, and occupying the anterior third of its subglottic portion, was a swelling, smooth and red, having all the appearance of a neoplasm (Fig. 1). The vocal cord of that


Fig. 1.
side was nearly motionless upon deep inspiration, and its surface was congested. The left cord was well abducted, and presented no abnormal appearance. The ventricular hands of hoth sides were a little thickened, just as in chronic laryngitis. The roice was hoarse but not extinct. No history of pain in any part cculd be obtained. Breathing was easy, and the patient's gencral condition satisfactory.

Bearing in mind the age of the patient, the history of the case, and the resemblance of the subglottic swelling to a new growth, I thought the case might possibly be one of malignant disense of the larynx. I therefore proposed to the patient that on my next

[^67]wisit, three days afterwards, I should remove a portion of the supposed neoplasm, and submit it to microscopic diagnosis. The patient did not come to the hospital until eight days afterwards, when his symptoms had suddenly become urgent. For some days before he had suffered fresh dyspnoca, and was now at the point of suffocation. There was great inspiratory stridor, and extinction of voice; the whole skin was bathed in sweat; the pulse was rapid and feeble; breathing was most difficult, and the patient's expression was most anxious. The imminence of asphyxia rendered tracheotomy necessary on November 1st, 188\%. The man was therefore put under anesthetics, and the operation was performed with skill and dexterity by Mr. Procter S. Hutchinson, the resident medical officer.
Just before the operation 1 was enabled to make a laryngoscopic examination. Though this was difficult, I was able to make out that all the soft parts of the laryngeal tissues were greatly swol-len-the ary-epiglottic folds, the ventricular bands, and the cushion of the epiglottis. The rocal cords were completely hidden, except a small part of their posterior estremities, of which the edges could be seen, quite white, but motionless and fixed. Externally the thyroid cartilage was swollen and enlarged, slightly tender to pressure, and giving some sense of fluctuation. There was very little bleeding during the operation of tracheotomy, and immediate relief was experienced; it was followed, however, by an attack of bronchitis.

The derelopment of the case became now extremely interesting. Two days after the performance of tracheotomy, 1 obtained a laryngoscopic examination, but could see but little beyond that the whole larynx was occupied by red swellings; no rocal cords could be seen, nor any orifice to serve for respiration. The swelling was covered with frothy mucus, and brushing it off with alkaline lotion exposed a surface, npon which no ulceration could be detected. The odour of the breath was offensive, the secretion smelt also. A good deal of muco-purulent matter escaped through the tracheotomy wound, outside the outer tube. Expectoration was copious, depending of course upon the bronchitis. The secretion through the laryngeal wound continually soaked the dressings and the wound, which was dréssed at first with iodoform gauze, looked irritated and inflammatory. Iodol dressings were substituted for iodoform, with great benefit. The temperature chart suggested the presence of pus, and for some days was up and down (Fig. 2).


Fig. 2.
On November 10th, a little piece of cartilage was expectorated. and the discharge was lessening in offensiveness and in quantity. On the Itth the thyroid cartilage was enlarged in its whole extent, and especially the left wing, which was fluctuating to tonch. An aching pain was complained of, and referred to a spot over the left wing of the thyroil eartilage. The interior of the laryux still appeared almost completely oecluded iy red redematous swellings, and only just the posterior ends of the rocal cords could be seen. These swellints were well scarified with the laryngeal lancet with some relief to the patient, who hall also been prescribed the vapor pini sylvestris, since the tracheotomy. A slight degree of dysphagia existed at this time. A week afterwards (Norember 2ist) thie patient reported that for some days all discharge from the larymx had ceased, and he felt comfortable. The swelling of the thyroid cartilage (externally) had gone down, but he still expericnced a constant aching pain at a spot on the lower part of the left wing of this cartilage. An attempt to
obtain a subglottic riew, by introduction of a mirror through the tracheal wound, was not successful. At this date (November 21 1st) the patient was up apparently well, and eating heartily. Cough and expectoration still continucd, but the former was relieved by cocaine lozenges, and linctus papavcris. On Yovember 22nd the swelling in the larynx was found to be diminished; but the rentricular bands formed two red tumours, meeting in the mid-line, and the swelling first observed under the right rocal corl could still be seen (Fig. 3). The posterior extremities of both yocal cords

could be seen, immobile, but of normal colour.
Nothing noticeable occurred for some time. The patient was greatly improved in erery respect, but there was slight discharge by the side of the tracheotomy tube, of muco-purulent character. Insufflations of iodol were daily applied to the subglottic region, through the tracheotomy tube, and had the effect of diminishing the secretion. On December 10th, 1857, the patient was discharged much relieved, and he became an out-patient. On December 14th he visited me again, and stated that there had leen some discharge from the tube ever since he went out. With the laryngoscope 1 saw that there was increased swelling in the larynx, and, though there was a fair respiratory opening, the vocal cords were again hidden by swellings abore them. He came again on December 20th, and stated that the day before he had coughed up a piece of bone. The piece was handed to me, and was of the exsct size of this drawing. (Fig. 4.)


Fig. 1.
There was bluish-red swelling of lotla ventricular bands and over both arytenoids, but the laryngeal opening was larger than before. On December 27th I scarified the larynu freely. There had been a yood deal of discharge throngh the tube, and a little dysphagia.
On January 3rd, 1888, he reported himself not so twell. Sleep was entirely prevented by a tickling congh, and he then feit "something scratching or pricking"o orer the thyroid cartilage. The curtilage was muoh thickened externally, the whole laryugeal cavity was again blocked with red ademntous swellings, anil there was a good deal of disclarge of offensive pus through the tracheal wound. 1 was anxious for him to re-enter the hospital. As there was then no racancy, 1 directed him to lie down continuously at his own home, and keep an ice-bag continuously applied over the laryn. Ten days after he was much better, and the necessity seemed to have passed away. On January noth the larymx was not quite so occluded, and the roice was better and the patient stronger. On the 2 ith the adematous swellings had still further diminished, and the voice was much strouger.

On February 3rd he was going on well, but some external redness over the thyroil cartilage made me continue the external arplication of ice. On February 10th all external inflammation hat gone down, the voice was fairly strong, but rough, and he could breathe for two minutes at a time with the tube corked up.
On February lith be was still better, and could breatho for ten minutes now with the cork in the cube. On Fetruary 24 th he came again, stating that he had had a good deal of inflammation over the thyroid cartilage, with pain. and sharp pains over the clavicle. There was pain on pressure over both ala of the thyroid cartilage, with reducss, and a boggy feel. But inside the larynx there was much less swelling, and I conld now see into the trachea. There was no dis-
charge now from the tube, and he could breathe for twenty minutes at a time casily with the tube eorked up). (I expect he could hare breathed for longer, but was nerrous.) Ice was again ordered for external application, and four days after (February $2 s t 1$ ) the extermal inflammation had subsided. Internally there was still swelling of the rentricular bunds and the cushion of tho epiglottis and ary-epiglottic folds, but no ulceration anywhere ; the extremity of the vocal cords was quite normal in appearance.
On March 9 th, the laryngeal opening was larger, and breathing tolerably easy. He walked about now for several hours with the tube corked up. At this visit I commenced to dilate the laryngeal opening, and passed a No. 7 asophageal bougie (bent to shape) through it.
On March I3th, I6th, 20th, and 23rd 1 again dilated it with Mackenzie's three-pronged dilator, and on each occasion passed cesophageal bougies of increased size through the constriction with ease. After each operation he was able to breathe better and for longer with the tube corked up, and now (March DSth) he is able to dispense with the tracheotomy tube altogether. The general condition is excellent, and be has gained in weight. lle may now be considered as cured. The tube is entirely removed, and the tracheal opening closed up within trenty-four hours. At the last visit he pointed out to me the cicatrix of an old scrofnlons ulcer in the neck, which had been hidden by the beard, and which I had not scen before.
As to treatment, iodide of potassium was, of course, given, at first in doses of 5 grains, afterwards reaching 15 grains; three times a day. This was given without any reference to syphilis. The tracheotomy wound was always dressed with iodol ganze (except just at first, when iodoform was used), and washed with perchloride of mercury ( $\mathbf{l}^{\prime}$ in 1,000 ). Iodol was insuffated into the suhglottic region through the tracheotomy tube, and headache was relieved with antipyrin.
A drawing of the condition of the larynx at the present time is here appended (Fig. 5) ; it was executed by Mr. P. S. Mutchinson


Fig. 5.
who also made the drawings of the larynx reproduced in ligs, 1 and 3. It is seen that the laryngeal aperture is now large enough to permit of easy respiration. All active inflammation has subsided. I quite expect that occasional dilatation will still have to be performed; but the patient may be said to have made a very successful recovery:

Perichondritis of the larynx may arise, as is well known, in the course of typhoid fever, tuberculosis, syphilis, and cancer; it has also heen known to occur as a result of chronic laryngitis; to these must be added traumatism, both external and iuternal. Charles II. Knight, of New York, reeently recorded a very interesting case of this kiud, the cause of which was injury to the laryux by strangling during a quarrel. He also, in the same paper, recorded a case in which perichondritis followed from swallowing a plate of false teeth during an epileptic fit in a woman. The lodging of the teeth in the pharynx was sueceeded by ahscess of the posterior wall of the larynx. Perichondritis from deeubitus, the pressure of anossified crieoid cartilage against the vertchral column, has also been described by Gerhardt and Dittrich, and Mackenzie has seen it after cut throat.

The injulicions use of asophageal bougies in the aged is referred to by Knight as an etiologieal factor, and there is no doubt that careless or prolonged use of the galvano-eautery to the larynx may give rise to it.
It seems desirable to correct the general opinion that perichondritis must necessarily be caused by syphilis or cancer. The case I have here recorded shows how it may arise out of chronic laryngitis, and the same catarrhal condition which leads to production of innocent neoplasms may also lead to perichondritis of the laryngeal cartilages.

A second ease of extensive perichondritis of the laryna has occurred in my practice recently, arising out of chronie laryngitis, and in which there was no question of syphilis. In this case the cricoid cartilage was extensively affected, and formed a large abseess externally, on opening which a large quautity of serosanguineous fluid mas poured out. The stenosis of the larynx was extreme, and tracheotomy had been performed many montha before I saw the case by a surgcon at the Cape of Good llope. As to prognosis, every casc of perichondritis of the larynx, even Then extensive, is not necessarily followed hy fatal termination. Those due to syphilis, or of traumatic origin, frequently recover, and the case I have here tirst recorded in detail shows how perichondritis, arising out of chronic laryngitis, may also recorer. What influences prognosis most is probally the extent of cartilage inrolved as well as the patient's general condition; and it is probably true, as all writers on the subject are agreed, that perichondritis of the cricoid cartilage progresses slowly but surely towards a fatal termination. Sufficiently accurate descriptions of the symptoms and laryngoscopical appearances of this disease are contained in many texthooks. I will merely remark that, in cases where there is a possibility of the presence of maligniant disease, very little importance can be attached to the examination of the secretions.

## A MODE OF OBTAINING VACCINE LYMPH WITHOUT PUNCTURING THE VESICLES.

By W. C. GRIGG, M.D.,
Physician "to:Queen Charlotte's Hospital.
The present method of taking lymph for raccination purposes is coupled with so many inconveniences, not to say dangers, that I feel sure medical men will gladly welcome any suggestion which will dispense with the necessity for puncturing the vesicles at the risk of obtaining a lymph contaminated with blood, or of favouring the occurrence of subsequent inflammation.
The method which I have adopted for some time past for the extraction of lymph from the pock has, so far as my present experience goes, a double advartage, namely, that the supply of lymph obtainable from each resicle is greater and its efficiency is inereased. Out of upwards of 200 infants vaccinated by me during the past few months. I hare not as yet had one ill-developed pock nor a single failure of a punctured spot, although many of the cases were from vaccine obtained from very young infants. Is a general rule, I only vaccinate in four places, principally ou account of the young age of the infants I am called upon to vaccinate. Down to December 31 st , 1886, I had raccinated altogether $\underset{2}{2}, 685$ infauts, of whom, with one exception, all werc suceeasful either at the first attempt or at the second. The unsuccessful case resisted four successive attempts to raccinate, for which no explanation can be given. The mother had never had small-por.

A complete failure in all four spots on a first vaccination was comparatively rare, and could, as a rule, be traced to a deficiency in the lymph, for it seldom or never occurred when the lymph was obtained from children of three months old and upwards. It generally happened when the lymph was drawn from an infant less than a fortnight old, at which age the quantity of lymgh is very scanty and its eflicacy below the normal. It is selidom possible to raccinate successfully more than a dozen children from one such infant; and failure in one, two, or three spots is not uncommon.

I may remark incidentally that where one or more punctures had failed to take, revaccination of the infant with lymph obtained from its own suecessful pock generally ensured a satisfactory result, the primary pock or pocks remaining quiescent until the poeks which followed the second raccination arrived at maturity, that is, at about the eighth day, when they all faded array together. In these cases it was impossible to say from appearances, by the eighth day, which were the primary and which the secondary poeks. In only one case did this method of re-auto-vaceination fail, and no better results were obtained when lymph from other sources was substituted for its own. I hal therefore to be satisfied with the two suecessful primary pocks.

31 y system of obtaining lymph is as follows: I drop a small bead of pure glycerine upon the centre of cach pock, and then gently rub the top of the vesiele with in smooth, blunt instrument (the round glass head of a shawl pin does excellently). After the lapse of two or three minutes the bead of glycerime will have
increased to nearly double its size, especially if the resicle contain a good supply of lymph. If neeessary, a seeond drop of glycerine may be applied after the first has been used, and even a third.
This plan a voids the risk of drawing blood, which at times it is not easy to escape doing when puncturing the vesicles. Moreover, not having to hold the infant's arm, there is no fear of capsizing the child, the possibility of which adds to the difficulty of arm-to-arm vaccination where many children have to be vaccinated from one.

I should be glad to hear whether, in the hands of other practitiovers, the same good results are obtainable. I have only given the method a four months' trial so far, which is perhaps hardly sufficient to authorise any definite conclusion.

## CLINICAL MEMORANDA.

## H.EMOPHILJA.

The particulars of the following case are of interest from the rery carly age of the patient and the symmetrical arrangement of the phenomena.
M. S., aged 38, a primipara (married eighteen years), was on February Itth delirered of a male child after a natural and quick labour. The child was apparently healthy and strong, crying lustily. On the third day a small dark spot was observed on either side of the oqciput; the day following the child had two black eyes, evidently due to extrarasations of blood, the discolorations extending symmetrically above the eyebrows and on the malar bones. The eyeballs presented an unusually peariy appearance. Next morning the nurse observed a purple swelling on the external aspect of the left humerus, and in the evening the same was to be observed on the right aide. The following night the umbilical cord hegan to bleed, which the nurse arrested temporarily by the local application of brandy and by retying. Hæmorrhage broke out, howerer, again on the proximal side of the ligature, and the child died from loss of blood before medical assistance could be obtained. Duncan R. Mcarthur, M.D.
Sturminster Newton.
Under the above heading Mr. Eagle recorded a case in the Journal of March I0th; and as a rery similar case has just come under my notice, I think'it worthy of record.
On March Sth I delivered Mrs. P., a countrywoman aged 25, of an apparently healthy male infant. The child was at the full term. It was somewhat jaundiced on March 10th, but better on March 11th. On March l2th the jaundice became more intense, and on March 13th two swellings appeared, one behind each axilla, eridently composed of extravasated blood. During the next troo days other swellings appeared on the back, shoulders, front of chest, ellows, and linees. The cord separated on the morning of $M$ arch 15th, and there was a continual oozing from the umbilicus $t i j 1$ the child died at mid-day on March 16 th. No treatment was of any arail.
Mrs. P. Was delivered of a male infant six years ago at the eighth month. He survired his birth one month, and died much swollen and corcred with lumps. Tro years ago she aborted at the end of the third month, and lost much blood. I did not attend her on these occasions. Two of her brothers, auffer much from epistaxis. $\quad$ George Vincent, M.D., M.R.C.S.
Shouldham, Downham, Norfolk.
multiple sarcomata of the skin.
Sarcoma cutis is such a rare disease as to justify the recital of the following case. Koebner reports only two such cases (secondary), whilst Kaposi had only seen five cases of the idiopathic disease (Hebra on Diseases of the Skin, vol. iv); in the Iatter the affection always began in the soles of the fcet, and was doubtless a general morhid affection from the rery outset.
On October 8th, 1887, I was called to see E. D. ©. E. T., a schoolmistress, single, aged 32 years, fair complexion, red hair, extremely anmemic, temperature $101^{\circ} \mathrm{F}$., pulse orer 100 and weak. Slee was in bed, and conld not clange her position in the least owing to intense pain in the right hip; she stated that she had come two or three weeks before from near Leeds, where she had been ill and treated for sciatica for six weeks. On examination, I found a distinctly localised oral swelling, four or five inches in length and three inches in width, situated immediately over the upper and back part of the right ilium to which it was attached; the inner
border of the swelling, which was elastic and semi-fluctuating corresponded with the sacro-idiac synchondrosis; the superjacent ekin was of ita natural hue and consistence, and could he moved freely over the growth, the borders of which were distinctly definable. The growth itself was neither tender nor painful, and of six weeks' duration. There was a history and marks of scrofula in the patient. Was the growth a sarcoma or a chronic painless abscess? Neither a hypodermic needle nor a small trocar could obtain pus. This settled the diagnosis. There was no history of injury, except a fall on "the small of the back" two years before from a gig. On further examination, I found several nodules in the skin of the head, face, and neck, and a few on the body, some of which projected half an inch above the skin level. The nodules varied in size from a split-pea to a pigeon's egg. Some were evidently situated in the deeper layers of the skin itself, whilst the skin could be moved over lothers; they were mostly isolated, some were firm, others elastic and compressible; over some the skin was of its normal hue; over others white and glistening, whilst on other nodules it was bluish-black, giving the appearance of an enlarged rein. She stated that thise nodules dereloped shortly after she became ill, and that some disappeared entirely, but I could find no cicatrix nor anything else to mark the site of a former nodule. There was no ascertainable evidence of disease in the lungs or liver; there was dysphagia, which was probably due to nodules in the submucosa of the gullet (as in one of Kaposi's cases, in which they also appeared in the lining of the stomach, intestines, and bronchi); the fauces were quite bloodless. Cough and dyspncea Trere conspicuous by their absence. The nodules continued to increase in number up to her death, which took place from exhaustion on November 17th, three months and a-half from the commencement of the illness, when no less than sixty, or serenty were present on the head, neck; and trunk, the limbs, unlike all Kaposi's cases, being exempt. There was some remission in the sciatic pain before death, but the iliac growth was unaltered. There was no ulceration or gangrene of any of the nodules. The lymphatics were unaffected.
The rapidity with which the nodules developed after the first noticed growth seems to favour the view that the whole of the tumours were due to a primary disease of the blood, and were not the result of secondary infection. I regret not to have heen able to obtain a nodule for microscopic examination after death, owing to the great distance (ten miles orer moorland) from the patients house and my other engagements at the time.
Stanhope.
William Robisson, M.S. and M.D...

## THERAPEUTIC IIEMORANDA.

## PERPERMINT WATER IN PRURITUS PUDENDI,

Every practitioner will have had under his care cases of this troublesome affection, which hare been proof against all treatment, espeeially in the neurosal forms, where the cause of the pruritus, which is, of course, only a symptom, is more difficult to remore. No excuse, therefore, is needed to mention a local remedy which will, if the skin be unbroken, either cure the patient, orafford relief whilst the source of the irritation is being treated.
The agent here ailuded to is peppermint water, used ns a lotion. The B. P. preparation of aq. menth. pip. answers well, but is bulky for carrying about, and is incapable of concentration unless rendered alkaline. This is best done by borax, as being in itself soothing and antiseptic. Patients can eusily make their own lotion, as required for use, hy putting a teaspoontul of borax into a pint bottle of hot water, and adding to it five drops of ol. mentll. pip., and shaking well, the parts affected to be freely bathed with a soft sponge.

If no cracks or sores are present, this lotion will remove the itching, but if there be cezema, etc., or rawness from scratching, it is inapplicable, olive oil, with five grains of iodoform to the ounce, being then more useful. The greatest and most permanent relief is afforded in the neurosal form, especially in the reflex pruritus which often accompanies pregnancy, and which then may take the place of reflex sickness or vomiting. It is also very useful in the pruritus which occurs in the climacteric, or in elderly women, in whom it may be only part of a general pruritus, and also in those cases of momen of all ages, where the urine simultaneously becomes of rery low specific gravity, without any eridence of having a gouty or granular kidney ac a remate cause. In pruritus due to pediculi, ascarides, an irritable urethral car-
uncle, an endoceryical polypua, early caneer of the cervix, distension of llartholinis ducts or glands, the leucorrhea of vaginitis, endocervicitis, and metritis, or the irritating discharges of advauced carcinoma nteri, or to a gouty or diabetic diathesis, the drug oxcels all others, cocaine inclusive, in affording relief, whilst enteavours are being made to remove the cause.

In two olstinate cases of uncontrollable pruritus of pregnancy, where this remedy only gave temporary relief, the patients were cured by applying iodine liniment to the angry looking cervix uteri, which method has been used successfully by Dr.- John Whillips and others for the similarly severe vomiting of pregmancy.

I'eppermint has long been used by the Chinese as a local remedy for neuralgia, and has lately been sold here, combined witl camphor, as menthol. It appears to act as a local anasthetic, its effect lastiug often many hours, and in some cases of reflex origin a single application of the lotion has cured the patient. The remedy was, I believe, uamed in a casual communication to the Journal about twenty years ago, but 1 have failed to find the refurence, and thongh it has been prescribed spasmodically by my father, and perhaps by others, its extreme utility seems known to very few.

Assistant Obstetric Physician, Charing Cross Hospital.

## REPORTS <br> or

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES

TIIF CIVIL HOSPITAL, IYDERABAD, SIND, INDIA. lateral hithotomy.
By Surgeon-Major B. C. Keblan, L.R.C.S.l., L.K.Q.C.P.I., Indian Medical Department, Civil Surgeon of Myderabad, and Superintendent of the Medical School,
lIyderabad, Sind.
Tiff following table gives a statement showing twenty-four large atone cases which Trere operated upon by the lateral method of lithotomy during the six months from June 1st, 1887, to Noremher 30th, 1887. Besides these there were sixty-seven other cases operated upon during this period, which will be published hereafter, thus giving a total of ninety-ene cases, of whom three were females operated upon since writing my last paper for the Journal.

Table showing the Number and Size of Large and IFard Stones remnved by the Lateral Operation from June 1st, 188\%,
to Norember 30th. 1887.

| Average Size at Stan ** | Namimr. | Sex. | teratit. | Ages. |
| :---: | :---: | :---: | :---: | :---: |
| 5, $\mathrm{S}_{1}$ | 1 | Matum | Curect | in) 3n, in, and 3s years. |
| 3is\% | is | 3tales | Ciwrat | 12, 40, 15, 10,11 and 50 years |
| 315 | (; | Malew | 4iflired | 43, $10,32,40,40$ and 32 years |
| 3 3iva | 1 | Mitea | $\begin{aligned} & \text { \{is Cured } \\ & \text { is Dieal } \end{aligned}$ | B0, 50, 5u) nul 34 jears. |
| Yil | 1 | Mato | Curem | 42 years. |
| Slins | 1 | M.1tp | Cured | 2.3 yrars, |
| Ivins | 1 | Male | Cured | 20 yeurs. is years. |
| Trins | 1 | Malt | Cured | 4s years. |
|  | 21 |  | $\begin{aligned} & 22 \text { Curiod } \\ & 2 \text { Dicel } \end{aligned}$ |  |

The following was an important case. An ndult male, 48 years of ace, was admitted into hospital with severe symptoms of stone it the blabler, from which he said he hail been suffering for eleven yours, and could endure the min no longer. He was operated up, on hy the lateral method of lithotomy, described by me in the Jouncial of October lith, $186 \%$. On heing removed the stone weighon! for numees. It was if uric aciel, and was excerdingly harl and oval-shaperd. liouml the ifrment diameler it measured by the tape 8 inches, and romm the smathent diametur, which passerl chough the wound in the perinem, it measured of inches.

Notwithstanding the large size of the stone, which was very smooth, 1 had not very much difficulty in removing it by traction upwards and forwards with the hent-bladed forceps, as suggested in my paper. The forceps did not alip even once. I find that the perineum in this direction dilates easily and there is no clance of the tuber ischii or the dense unyielding structures immediately in front of the rectum ohstructing the passage. and the rectum is not in danger. There is less bleeding also to be feared by enlarging the wound in this direction. The patient, a stout man, left the hospital quite cured in a month exactly from the date of his aduission, during which time his case went on amoothly, and lis progress was never impeded hy any unusual symptoms. After his discharge there was no incontinence of urine, and there was not even a tistula left behind. 11 is sexual powers were perfect, and his general health was greatly improved.
The other patients made excellent recoveries with the exception of two, one of whom suceumbed one month after the operation. lle was a reakly man when operated upon, and was 60 years of age. The other man got suppression of urine on the third day after the operation with a tympanitic state of the abylomen, after whieh he sank rapidly. This man's stone was very pecnliar. I have never seen one like it before, nor have I acen a stone similar to it described in any book. It is beantifully smooth, and of a darkish drab colour, and one part of it shines as though it was covered with a layer of varnish, which had become exceedingly hard, and there are two projections, or tears, smooth and shining, like dried up drops of hardened paint of the same colour.
The twenty-two patients who were cured were particularly asked, on being discharged, if they had lost any sexull powers, and I was invariably answered in the negative. This question, I think, has been raised without much reason. It is the testicles that secrete the semen, and as long as that fluid is emitted through the channel destined for its discharge, there can be no proof that lateral lithotomy has a tendency to render persons impotent. Many of these patients had deep perineums, so derp that the finger could with difficulty be passed into the bladder.

There aeems to be aome mysterious impression, which is very surprising to me, among a few in England that natives of India are weakly attenuated creaturcs, and, being constitutionally different from Europeans, they are somewhat more amenable to operations. But, from my experience of the Sindhis, the lieluchis, the Afghans, and the Punjaubis, among whom I have daily practice. I can affirm that they are equal in physique to Furojeans. and their children are fat and healthy, like the offsprings of English parenta. That there are no anatomical differences between the two races is a fact which can be demonstrated daily in the dissecting room. I hope, therefore, that lateral lithotomy may be thoroughly tried, and the operation improved upon, by persons who have equal opportunities with myself of taling up the aubject, and developing it. In the Jounnal of October 15th, 188\%, there is an interesting article on the relative merits of litholapary and the suprapubic operations in male children. Regarding the latter operation, twelve cases are reported by nine different operators, with one rleath, of children operated upon under 16 years of age. Eighty-nine cases of litholapaxy have been collected by eight operators without a casualty, except one mentioned in Surgcon-Mujor Keegan's collection of fifty-eight coses. The article on One Year's Statisties of the llyderabad Civil llospital, published in the following prage of the aame journal, shows a total absence of mortality in one huudred and five successive cases of young people operated upon, some of whose ages did not exceed eighteen months, and many left the hospital completely cured in ten or twelve days. 1 omitted to mention the great assistance 1 derive by sometimes using a small eurved forceps, if there is any dificulty expericnced with tho straight pointed forceps in seizing the stome, when operating on young children ly my method of introducing the forcepa on a small director. Mr. Walkham's paper also ahows that the suprajublic operation is not only beset with danger to life as well as with numerous complications, but that the wound takes a longer time to henl. In one caso nearly seven weelse, in another nearly ten weeks, a third one took months to leal, in a fourth the little patient died, and in other cases the time is not stated, and no reason is given. In one instance the surgeon who operated said he would not repeat the operation, and this is what I lave said in my former paper, namely, that I have tried it and had to give it up.

If the operation is so comperitively unfarourable in chilirea,
how much more so wonld it be in adults? Mr. Frichsen shows the raortality to be one in tlirce er therealouts. If this immense mortality is compared to lateral lithotomy on jarge stones which I can show to be one in twelve, the difference is startling. I will now proceed to quote from Erichsen's Surgery, 8the edition, which 1 belicve is the latest, vol. ii, page 988: ..." of a gross total of 467 cases of the suprapubic operation in both sexes, there had been 135 deaths, or a mortality of $I$ in 3.44 ; the mortality being about one in three in males."
The mortulity is said by Ifumphry; , Who collected 104 cases with thirty-onc deaths, to be due chielly to peritonitis and urinary infiltration. So inuch for the sur rapubic operation for the present.
great mortiers central hospital.
case of rapidly fatal chorea: death in 130 holrs.
(Under the care of Dr. Cook and Dr. Clifford Beale.)
A. C., nged 9 , was brought as an out-patient on October 27 th, 1887 , suffering from chorea. The mother stated that on October $25 t h$ the cliild had had some difficulty in putting on her stockings, owing to slight loss of control over her right arm and leg. The mouth and eyes had been noticed to twitch next morning, and since then the irregular movements had become general, though most marked on the right side. The child had not taken food well, lad slept badly, and been slightly delirious during the night, occasionally screaming and complaining of pain in the left hypochondrium. She had been very thirsty. The evacuations had been normal, and never passed unconsciously. She had been a fairly healthy child, and lad passed through an attack of scarlet fever two years previcusly without any known sequelæ. She had not becn frightened, nor had she been in company with other choreic children, nor had any worms been scen.
When first brought under obserration, on the 27 th, the child was obviously very ill, with flushed face, hot skin, and a terrified expression of countenance. The choreic movements were violent, and according to the mother were hourly hecoming more so. The pulse was very rapid, rarying between 160 and 170 , but the respirations were only slightly increased. She was at once sent into the ward, where, after careful examination, a short systolic murmur could be made out at the apex, whicls was in the normal position: Only a few scattered crepitations conld be detected in the lungs, the breathing being quite regular. The child kept constantly smacking her lips and frequently protruding the tongue, but there was no dificulty in deglutition.

October 28th. She slept very little and was very restless, being sometimes delirious and occasionally screaming. During the day the morements became so violent as to render restraint necessary to prevent injurs. The bowels were freely open; the urine was passed involuntarily, but a little, collceted, was found to be free from albumen; the tongue was clean and moist, but the lips dry and cracked; the temperature was slightly raised, but never exceeded $101^{\circ}$. The heart's action continued at the same rate or faster, and the pulse at the wrist became almost imperceptible. On the following day seme difficulty was experienced in swallowing and the girl became rery noiss, frequently screaming and uttering inarticulate sounds; the respiration became irregular and jerky, and she died rather suddenly the same erening, the whole course of the illness having run betwecu the morning of the 25 th aud the crening of October 3uth.
At the post-mortem examination both lungs were found to be much congestcd at the bases. and the left plenra was adherent. The right side of the heart was slightly, dilated and flabby, and contained some fibrinous clot and a little dark fluid blood: on the
auricular surface of the tricuspid valyo wcre a few punctiform auricular surface of the tricuspid ralvo were a few punctifornm
patches of congestion. The left ventricle was firmly contracted, its muscular tissue very good. On the auricular surface of the mitral valve, between the hinge line and the free border, were numerous tiny patches of punctiforin congestion, especially marked along the liinge line itsclf. At the free margin of the valre the attachments of the cordre tendince were much thickened by lymphy regetations, to a few of which slightly coloured fibrinous clots were attached. There was no positire ulccration of the endocardinl surface to be detected. The brain and upper part of the spinal cord were healthy, except for an extrenc degree of anemia at the pons and medulla. The tissue of these parts secmed quite normal on section. Other organs were henlthy.
The case was treated with arsenic, morphine, chloral, and bromide of potassium, but in no casc did the action of the drugs
appear to have any influence upon the downward conree of the diseaze.

## REPORTS OF SOCIETIES,

royal medical hid cilirergical society.

Teespay, Aphif, loth, 1888.
Sir F. II. Sievering, M.D., President, in the Chair.
Case of Double Nephro-Lithotomy, in which Lateral and Mediun Lithotomy had been Previously Performed, with Remarks on Sympathy between the Killneys.- Mr. Herbert W. I'AGe read this paper. A man, aged 22, entered St. Marys Hospital in
Vovember, 1886. For ten years he had suffered pein Novenber, 1886. For ten years he had suffered pain in the region of the left kidney, with occasional attacks of left renal colic. In 1882 he began to pass gravel and to suffer from irritahility of bladder, and in 1885 a small calculus was removed from the hladder by lateral lithotomy: Symptoms of resical calculus soon recurred together with pain in the left loin, and his general health became much broken. His urine contained pus and occasionally blood. Left calculous pyelo-nephritis was diagnosed in addition to stone in the bladder, and this was accordingly remored by median incision on December 4th, 1886 . On Decernber 15 th the left kidney was exposed in the loin, and two small calculi were removed from a large suppurating cyst. The amount of pus, howerer, did not materially lessen, and towards the end of January he began to hare pain in the region of the right kidney, from whicb it was soon suspected that the pus now came. On February 1 Sth he was attacked with riolent pain in the right loin with rigors, vomiting, and ligh temperature. At the same time the pus almost entirely disappeared, and his urine dropped from furnished by twenty ounces. It was believed that this urine was there was fulness in the rigkt loin: On February 25th the right kidney was exposed; it was found much enlarged and surrounded by stinking pus, and there was an opening into the pelris, from which an abscess had probably burst into the perinephral tissue. no stones were found. He did well after this operation. The urine steadily increased in quantity, the pus diminished, and his pain ceased. He left the hospital on May 26th, and a few days afterwards he passed four small calculi per urethram. From that time he made steady progress towards recovery. The case was of interest from its bearing on the question of sympathy hetween the kidneys, and it was suggested that in this case the right kidney had in all probability contained calculi, though without giving rise to symptoms, for some considerable time, and that its of thition was revealed ly the operation on its fellow. In support in which the presence of calculi to a case recently under his care operation prese operation of hysterectomy, undertaken by the late Dr. Meadows.
Reference was made to other cases in which there was what similar sequence of events. From another point of view Mr. Page considered this case of importance in its bearing on nephrectomy and preliminary abdominal exploration. Nephrectomy. as time proved, would hare been in this case a rery wrong ation, hut he had never felt quite satisfied that abdominal exploration, , which he rould hare found an apparently useless left
kidney, and a right kidner so all future needs its kidney so enlarged as to be presumably fit for detection, might not there and then have sod to nephrectomy The patient would have been placed thereby in a position of infinitely greater danger when at a future day the right kidner was in its turn hors de combat. The case thus demonstrated, with how many precautions and with what consideration abdominal exMr Gion for the examination of kidneys must be made.ment, and thengratulated Mr. l'age on the success of his treatment, and the many valuable reflections that were to be drawn
from it. It confirmed his opinion that it was wise at the timen excision of a stone to leave the kidney from which it was tale of for it might heal, or, at any rate, it would contract. and then, would be easier to remore if absolutely necessary. In one of the cases Mr. I'age had cited it was a question whether hysterectomy had caused a stene in the kidney, or had merely lighted up iuflammation round a pre-existing stone. He thought the first hypothesis very possible considering how often stones were apparently the resalts of accidental injury, such as being run over fy a cart-wheel, etc. He agreed with Mr. lage in thinking much caution must be used in describing the effects of sympathy
between the kidneys.-Mr. Page said, in conclusion, that he had been glad to supplement the paper by showing the patient to the Society that evening in a state of very good health, with his urine normal in all respects. IIe agreed that mechanical injury might have been the origin of the renal calculus. The sympathy between one kidney and the other was probably not greater than that between one kidney and any other viscus. It was important to remark that in this case abdominal exploration, had he made it, would probably have led him astray, for he was tolerably satisfied that he would, after exploration, have excised the small left kidney-but wrongly; as the sequel of the case showed.

Remarks on Splenectomy, with a Report of a Successful Case.Sir Spencer Helus reported a case where he had successfully removed an enlarged spleen from an unmarried woman, aged 24. He appended remarks upon the details of the operation, especially upon the mode of securing the blood-vessels, and upon the progress of splenectomy before and since the periods of anesthesia and antiseptics. He added the following table, prepared by Professor Adelmann, to show how in fifty-three cases, recorded up ta June, 1887, the result was influenced by the nature of the disease which led to operation.


He concluded that, as the results of splenectomy had gone on improving during the last thirty years, we might hope that, with increasing knorledge and greater experiance, still better results might be obtained; and sufficient facts had already been accumulated to prove that patients who recovered from the operation might live in good health for many years without a spleen. Mr. W. A. Meredicil had three times assisted at the operation of splenectomy: In the first case, with Mfr. Knowsley Thornton, there had been a cystle splean, very mobile, and there was no great difficulty in the operation, but a very dangerous moment just after the ligature was applied and bafore it was divided. There was a good recovery. In the second case, also with Mr. Thornton, the aspleen had been very large and very vascular; its attachments were tied with three loops, and death followed in a few hours from the giving way of the middle loop. In the third case, this of which Sir Spencer Wells had just given an account, the method had been excellent; traction on the pedicle had been aroided, and after the main mass of the spleen had been cutaway the application of the ligatures had been comparatively easy. - In looking back orer previous cases he had noticed how those had been most favourable when there had been a long gastre-splenic omentum, allowing much movement of the spleen.--Mr. Haward felt, naturally enough, the encouragement given to all surgeons by the record of another success in this department of practiee. Mobility of the spleen gare more distress here, but generally it gave more success, perhaps because there was less disturbance to the sympathetic plexuses and easier manipulation. Any grant size of the spleen was of course against success in the operation: any referonce to the lists of cases showed that those on spleens of smaller size were the most successful, and also those where there was least leukæmia. It was a question whether moderate leukemia should be held to negative the operation; he gathered that Sir Spencer Wells did not agree in discountrmancing the operation if there was only slight leukwmia. The use of pressure forceps were very advantageous. In a case of his own, however, he had found it possible to control the flow of blood from a rent in the brittle substance of the morbid spleen by a sponge.-Dr. Angel Money remarked that a moderate excess of colourless corpuscles in the blood was generally now called leucocytosis, and was always found in fever. 3. II Iajem had recently slown that it was universally found in all processes in which there was morbid exudation of blood corpuscles, and in states also such as carcinoma when it was an insufficient reason for the discontinuance of operations.-Mr. Goblew said he bad been puzzled by the record of frequent jaundice before the operation and none after it. Did the tumour displace the bile duet or block it?--Dr. T. M. Fooke had been the medical adriser of the lady for about ten years, and had always seen an lcteric tinge on her face, and observed many attacks of acute jaundice. Ho agreed that there had been none in the last three months since the operation, but was uncertain in hiy explanation. Ho weas struck by the little importance of the Aplecen to the auimal economy, and regarded it as acting as a
mechanical diverticulum to the liver.-Dr. A. II. N. Lewers was surprised that the diagnosis should first have been of a pelfic tumour, and, further, that after the discovery of its true nature the operation should lave been continued, seeing that the mortality of splenectomy was 60 per cent. as compared with 25 per cent. for hysterectomy, and 6 or 8 per cent. for ovarian tumours.Dr. Day had scen the operation and after-treatment, and remarked that the only period of danger in the latter was on the third day, when Sir Spencer Wells was away, and he found the temperature $103^{\circ}$ and the pulse 130. He advised an ice cap and reduced diet, and after that the case did very well. She had only taken as anmesthetic bichloride of methylene 3 iij , which was given slowly, and the operation was not begun until there was full relaxation of the muscles. Those he considered important points.-Sir Spencen Wells, in reply, said he entirely agreed with Mr. Hayward in believing that the smaller the tumour and the longer the attachment, the less would be the difficulty and danger of removal. Of his own four cases this was the only one of wandering spleen with a long attachment. One of his other cases was the Iargest solid tumour hitherto removed. In two cases there was marked leukxmia. Dr, Lewis's estimate of a mortality of 60 per cent. after splenectomy for hypertrophied spleen was not greater than the general mortality of ovariotomy thirty years ago, and a very great diminution in the mortality might reasonably be hoped for. The cessation of the fever on the fourth day, as described by Dr, Day, he (Sir Spencer) was inclined to attribute, not so much to diet and the ice-cap as to the appearance of the catamenia, and he was strengthened in his belief that the most favourable period for removing any abdominal tumour from a woman was soon after a menstrual period.

## OBSTETRICAL SOCIETY OF LONDON.

Wednesday, April 4tir, 1888.
John Willians, M.D., President, in the Chair.
Specimens.-Dr. Cullingwortir exhibited a thiek-walled cyst behind the uterus, which lay imbedded in the anterior wall of the cyst.

Interstitial Gestation.-A report was read on Mr. Sidney Harvey's specimen of interstitial gestation, exhibited at the January meeting.

Scarlatina during Pregnancy and in the Puerperal 'State. -The adjourned debate on Dr. Boxall's series of papers was resumed and coneluded.-Dr. Gatabin noted the remarkable absence of mortality in Dr. Boxall's cases, but brought forward statistics to show that the general belief in the danger of puerperal scarlatina was not incorrect. The farourable results in Dr. Boxall's series might be explained either as due to the excellent antiseptic precautions, or to the mild type of the epidemic. Experience proved that puerperal scarlatina was sometimes mild where no antiseptics were used; on the other hand, there might be much pelvic complication, and Dr. Galabin had twice seen fatal peritonitis appearing during desquamation. Dr. Galabin considered that evidence concerning the masked form of scarlatina resembling septicremia was conflicting. There appeared to be a fascinating simplieity in arguing that scarlatina and septicemia were two distinct specific diseases, the one inconvertible into the other. Yet septicemia was not one disease, but a group, comparable rather to all the zymotic diseases together than to scarlatina or erysipelas alone. Abont twenty microbes had been described as the active agent in different forms of septicrmia, which must be defined as including the effects of all germs except the speeific agents in named zymotic diseases. ILence septicremia did not represent a definite entity like scarlatina. In the latter disease, again, Cheync found the common microbes of suppuration in the blood not infrequently. Ir. Matthews Duncan had shown that according to the Registrar-General's Reports for London there was no increase of puerperal fever in proportion to that of scarlet fever or erysipelas; this was strong evidence that scarlatinal poison could hardly produce a disease simulating puerperal septicamia. Dr. Galabin believed that at least the above fact proved that scarlatiaa was not numerically an important cause of puerperal fever; if it did not account for over 5 or 10 per cent of all cases, it would not be manifest in atatistieal charts. There was strong evidence of a bacterial relation of erysipelas to puerperal fever, and Dr. Galabin brought forward evidence which tended to prove that scarlatinal poison might produce a disease simulating puerperal septicamia. -Dr. Honnocks quoted Reports of the Quy's Hospital Lying-in Charity. which showed the rarity of scarlet fever of the ordiuary
type in the puerperal state, and he asked how many women were confined during the time that Dr. Boxall's cases were collected. Some of those cases were possibly nat scarlatinal, or else represented very mild scarlatina. He believed that the incubation was not shortened when infection took place during lahour, but inasmuch as then the poison could generally enter the system at once, the incubation began at once, and so the ferer dereloped within a few days after the exposure. Ie discussed at length the, subjects of Dr. Boxall's series of papers, noting corroborative evidence, and indicating sources of fallacy.-Dr. CAYLEx thought that there was not sufficient evidence that the paison of scarlatina was capable of 'dicectly cansing septicxmia. Cases of scarlatina' following operations, and operations on patients suffering from scarlatina, had usually done well at the London. Fever Hospital. Very $f^{e} w_{T}$ cases of puerperal scarlatina had been admitted inta. that institution, and in two alleged cases, where there were acute septicæmic symptoms, diagnosis was doubtful.Dr. CHAmpNers testified to the great care with which Dr. Boxall had studied his series of cases, never neglecting to trace the history of each case after discharge from hospital. Dr. Champneys noted that the paper contained the analysis of a series which occurred during one epidemic. Different conclusions would probably be drawn from the record of cases seen in consultation, for the very fact of consultations implied picked bad cases. In other words, series should be compared with series. Dr. Champneys then made some obserrations on the question of scarlatina puerperalis, and criticised the accuracy of Collective Investigation Reports, which represented opinions formed by hundreds of men of different views. Dr. Cayley's raluable evidence was unfavourable to the opinion that the septicæmic variety of scarlet fever existed. -Dr. Jamison agreed with Dr. Boxall's views; he thought that the best diagnostic difference between scarlatina and puerperal septicemia was to he found in the retina, for retinal hæmorrhage was an almost constant occurrence in septicemia and all but invariably absent in scarlet fever. Extreme antiseptic precautions Fere impossible in ordinary practice, and fortunately scarlet fever was neither very readily commuaicable to puerperal subjects nor very severe when they took it.-Dr. W. J. CoLLLNs was no great believer in the absolute specificity of scarlet fever, and hinted that a process of evolution might affect the materies morbi of specific diseases.-Dr. Hares insisted on the entire distinctness of scarlatina and septicæmia, and in his experience puerperal cases were not. highly susceptible to scarlet fever.-Dr. WEsT distrusted theories about the erolution of diseases, and maintained the specificity of scarlet fever. He had seen muth of puerperal fever, but had never come across a case which could be traced to the contagium of scarlet ferer, a disease with which he might claim to he very familiar. Tle pregnant, parturient, and puerperal woman was undoubtedly not highly susceptible to the contagium of scarlet fever. Only two cases, which he related, represented Dr. West's personal expericnce of scarlatina in pregnancy or after delivery.-Dr. Chalamers stated that in connection with disturbances in the puerperal condition, he had observed that septicæmia in the lying-in woman was associated with and apparently gave rise to a variety of pathological conditions amongst those in attendance; again, when scarlet fever assailed tle mother, Dr. Chalmers found tliat it never ran its natural course. Ile did not believe in the absolute specificity of disease, and did beliere in the existence of a puerperal septicamic form of scarlet fever. The Phesident observed that it must ever be borne in mind that some epidemics of scarlet fever weremild and others severe; that infection from a mild case might give rise to a mast malignant form ; and that scarlet fever poison might give rise to septiciemia, but in a secondary mauner. He compared Dr. Boxall's series witli evidence bronght forwari from other sources in the course of the present discussion. In the latter case, the patients had often been seen but once or twice in consultatiou or under circumstances where thorough olservatiou was impossible, and accuracy of diagnosis questionable, or wherc antiseptic precautions were not employed. In Dr. Boxall's cascs the course of the disease had been observed throughout, and antiseptic precautions thoroughly and successfully carried out. In the course of an epidemic of scarlet fever, that disease liad attacked some of the patients in a lying-iu hospital where sepsis lad been stamped out, and in every instance had produced scarlet fever, and not septicemia. On the other hand, we learned that when lying-in patients were exposed to septic infection and to scarlet fever poison, septicemia was present in all whether scarlet fever was present or not. Since the reading of Dr. Boxall's paper, Dr. Mejer, of Copeulagen, Had
published a report of an outbreak of scarlet fever in the Lying-in Hospital of that town. Twenty-one cases were attacked, jet they all ran the usual course of scarlet fever. In support of the view that scarlet fever poison produced septicæmia, not a single case had heen noted where this result had been brought about under circumstances where all possibility of septic infection .had been excluded.-Dr. Boxatm, in reply, first thanked the Society for the attention bestowed on his paper. II founded his diagnoses on a definitechain of phenomena and not on the rash alone. Turning to the comparatire immunity of pregnant and parturient women to scarlatinal infection, he stated that, when Obstetric Assistant at University College Hospital, he visited a recently delivered mother; three of her children lay in her room ill with scarlet fever, and he caught the fever himself, but the woman escaped. He did not deny that the period of incubation might be prolonged in pregnancy, but showed that evidence in favour of the theory was defective. With reference to the sererity of scarlet fever in the puerperal state, Dr. Boxall referred to the Collective Investigation Report as evidence of unusually serere cases. He recognised that the cases in his series were of a mild type with one exception, and stated that during the same epidemic, three cases occurred in prirate patients, two of whom died of the fever. He did not attribute the severe cases to direct inoculation through the pelvic tissues, and the mild to ordinary infection, nor did he believe that of necessity the two. forms represented two really distinct diseases. He reminded the Society that very great variatians in the character of the fever were well known to exist in children, in men, and in women neither pregnant nor parturient, and until these rarieties were explained, the anomalies which occurred in scarlatina during pregnancy and parturition could not be explained. Turning to the septicæmia question, Dr. Boxall maintained that the direct effect of scarlatinal poison was the production of scarlatina and not septicamia in lying-in wंomen; but the former, like all fevers, was apt to farour the onset of septicæmia at a subsequent stage. Coincidence was readily explained; scarlet fever could not protect a woman in childbed, hut that such an association was none other than accidental was borne out hy the fact that when the septic element was eliminated, scarlatina and not septicæmia was the result. The contention of Dr. Playfair that the modification of individual scarlatinal manifestations was contingent on the antiseptic treatment of the puerperal state rather than on that state itself, Was disproved by the fact that in cases where no antiseptics had been used similar madifications had been proved to exist. The madification, not abseuce, of individual symptoms did not amount to masking. Eliminating septicamia, the influence in the puerperal state which really might mask the symptoms, it might be concluded that scarlatina, whether masked or not, bred true, and did not produce septicremia. As to mrophylaxis, it was wrong to suppose that cleansing the hands was the one essential precaution, for the genital tract did not hold a monopoly for the ingress of scarlatinal poison. Thougl the precautions recommended in the paper were open to criticisn on the score of idealism, they were such as Dr. Boxall lad consistently carried out in practice: and, though fully aware that their complete adoption in erery case was impracticalle, they had been put formard by him as embodying the correct principles of treatment. He had omitted from his paper the bacterial question. for the germs themselves were, so to speak, on probation, and the exact relation of different organisms to scarlatina and to septic diseases were not very precisely determined.

## MEDICAL SOCIETY OF LONDON.

MONDAE, APRIL 9TH, 1888.
Sir Wilioay Mac Cormac, F.T.C.S., President, in the Chair. Case of Ulcerative Endocarditis.-Dr. Onn read the notes of a case of ulcerative endocarditis. The patient, a voung woman aged lif, had been ont of health for several years, hut had had neither acute rleumatism, chorea, nor scarlet ferer. Iler main symptoms were a systolic mitral murmur, increasing in loudness under observation, enlargement of the heart on both sides. and signs of some pericardial effusion, enlargement of the liver and spleen, and dronsy of the lower limbs. The urine never contained any albumen, blood, or other indication of renal mischief. The temperature during lier stay in hospital was always high in the evening ( $102^{\circ}$ to $104^{\circ}$. or more), and from $97^{\circ}$ or $98^{\circ}$ to $100^{\circ}$ in the morning. She died suddenly of syncope after a little more than three mouths'stay in hospital, never haring had hamoptysis
nor any sign of mischief in the brain. The differential diagnosis was discussed, and the reasons which led to that of uleerative endocarditis were stated. The heart, carefully prepared by Mr. Shattock, was exhibited. It showed very extensive lesions of ulcerative endoearditis affecting the mitral valve, and extending far inte the left auriele. At the post-mortem examination large infarcte, recent and old, were found in the spleen, and beth kidneys were greatly enlarged and pitted with the scars of infarcts. Dr. Ord drew attention to the remarkable fact that, while the kidneys were so much diseased, the urine presented no sign thereof till the rery day of the patient's death.
On the Pathology of Rheumatiom.-Dr. Money excused the disjointed nature or his remarks on the ground of the shert notice be had received. Ile observed that they had been taught from time immemorial that rheumatism was eapecially prone to attack the fibrous and serous structures of the body. While he was not disposcd to question that view at pr sent, he was prepared to point out certain other affinities of the disease. The difficulty was to define exactly what they meant by "rheumatism." They were only authorised to term rheumatic phenomena these which had been frequently obserred in conneection with undoubtedly rheumatic manifestations. He said that if there were one thing more characteristic than another of rheumatism it was the fugitiveness and the mutability, the erratic nature of its manifestations. Another feature was that suppuration was distinctly not a result of rheumatism, and when it did occur it was due to collateral and accidental agencies. To show how little had been done in the way of careful, systematic observation, he instanced the lack of information bearing on the variations of function of the cutancous structures during attacks of rheumatism. In acute articuIar rheumatism the sensibility of the skin was usually increased, especially in the neighbourlood of the inflamed articulations, but the power of distinguishing sensations was blunted; moreover, great differences were observed as to this. Complete analgesia had at times heen observed. though this had been classed as hysterical. Of all the rariations of cutaneous sensibility the most marked was that to faradic electricity, which was eften scarcely felt, but this was usually confined to the neighbourhood of the inflamed artienlations. He remarked also on the differences which presented themselves in the character of the perspiration during the attacks; that fact alone showed hew profound were the functional changes in the skin. He passed in review the eruptive and desquamative phenomena which accompanied some forms of rheumatism. Finally, he alluded to the difficulty there was in demonstrating the effect on the spinal cord in rheumatism, though he inclined to the view that the symptoms were of nerrous origin. He suggested that rheumatism might be due to the fact, that hyperemia of tibrous tissues led to more permanent changes than elserthere, from its subsiding less rapiuly.-Sir Winiram Mac Conmac asked Dr. Money whether the curious insensitiveness of the skin over the joints to the faradic current ceased abruptly. - Dr. Ond questioned the idea of a rheumatic poison, and asked what grounds there were for believing this. He concurred in the view that suppuration was not a sequel proper of rheumatism. Llis own siew about rheumatism was that a definite tendency existed in certain people to have inflammations of a particular character; that, when tissues became inflamed in certain individuale, they were inflamed in a particular way-a nonsuppurative inflammation. Whether it was by reason of poisons generated in the system, or by the operation of the nerrous system, was a difficult question to decide. He thought the cutaneous phenomena pointed in this direction.-Dr. MoNET, in reph.; adid that the insensibility to the faradic current faded graduatly off, which was what one would expect from the nerre supply of the skin. He certainly looked upon rheumatism as the result of a blood-poison, though what the poison was he did not knowpossibly sareolactic acid, acting, not directly on the tissues, but through and by reason of its affinity for, the nerve tissue.

## harveian society of london. Thursday, April 5til, 1888.

William Sedamick, M.R.C.S., President, in the Chair.
Furromyomata Complicating Preqnancy.-Dr. Jonis luhlifs read a pajer on fibromyomata cemplicating pregnancy and labour, which chiefly referred to the statisties gathered during the past nine years, and compared them with those found in theses on the sulpiect hy Lefour and others. The subject naturally fell under three heads. according as the tumour complicated early
pregnancy with nen-viable foctus, pregnancy with viable foetus, including labour, or the puerperinm. The uterus was capable of division into three zones, a supcriar and inferior segment and the cervix. Fibroids of large size or multiple in character arising in the superior segment gave trouble during pregnancy often necessitating interference, while their presence in the two latter situations was sometimes only noticed by the pressure symptoms they produced, as at labour, when they were more or less serious obstacles to the progress of the child, on its way through the pelvis. These could with some prepriety be called "dangerous zones," the upper, however, being very little less se during pregnancy, both to maternal and foetal life. Unlike pelvic bony narrowing, it was diffcult to fix with any precision the size of a fibrous body which could be called an obstacle to labour. The author had collected fifty-nine cases where some difficulty eccurred during pregnancy and labour, but in which abdominal section was not required, and forty-seren in which one or other of the varieties of that operation was performed. Special attention was devoted to myomotomy in pregnancr, five cases being noted with a mortality of 60 per cent. In Müller's ablation or "abdominal section with removal of the tumour and the uterus containing the nonriable foctus," nineteen cases were recorded with a mortality of 36.8 per cent. Analyses of each case were given in a table, special attention being paid to the reasons for the operation. The author then alluded to induction of premature labour, and related two fatal cases in his own practice, illustrating the remarks witb diagrams. Forcible reposition was mentioned, and a warning given of the great dangers which accompanied it. A case of Cesarean section was briefly related where a fibroid tumour filled up nearly the whole of the pelvis, and the PorroCrsarean operation was impossible. The varieus salient points arising during the operation were touched upon, and it was thought that the ease was one with which present resources could not cope. The results of twelve other cases were given, and thirteen Porro-Ciesarean operations occurring in the past cight years, the mortality being the same. The author, in concluding, directed attention to a table showing the very high mortality consequent on forceps version and embryotomy in these cases.-. Dr. Braxton Hicks thought each case must be taken on its merits. A fibroid of the uterus added greatly to the dangers of pregnancy, especially when situated near the cervix. The tumours frequently got out of the way towards the later stages, and, therefore, he was accustomed to wait and watch. During pregnancy ibroids grew very rapidly, and might entirely block the pelvis. Reposition was sometimes adrisable, and, also, tumours near the cervix were always easy to enucleate. Retentiou of the placenta was another danger caused by fibroids.-Dr. CHaspNEYs said it was difficult to obtain aecurate statistics, rare and fatal cases being alone recorded. Twin pregnancies seemed frequent in cases of fibroids, and these tumours increased the dangers of pregnancy so much, that marriage was to be deprecated. Tumours situated in the peaterior wall were the most likely to be attended with ill results, and were less often raised out of the pelvis; hydrostatic pressure, however, often achierpa that result. Mis own cases of grsion hid been suceessful. - Dren endeavours were made to replace the tumours. We would generally prefer l'orro's operation, whieh would also obviate any risk of pregnaney. Ile had three times removed the uterus for fibroids in which it was found that pregnancy was present.-Dr. Consys commented upon the dangers of fibroids in pregnancy. Two cases he had watehed had been fatal.--Dr. ManbpielidJones emphasised the risks of forcible reposition, aud thought the proceeding was seldom justifiable, more especially as trare was often adhesion between the tumours and important ressels, and because the endearour caused brusing of the fibroids. If was inclined to prefer Porro's operation. Aher.-Drs. RorTu aad the uterine wound had been known to give way:-Drs. Koctn and Afinensoy also joined in the discussion.-Dr. Puilips, iu repls, said version was contra-indicated.

## BRITISII GYNECOLOGICAL SUCIETY. Marcu letil and 28 itit, 1888.

Antuer W. Emis, M.D., F.r.C.1., President, in the Chair.
Electrolysis of Tterine Fibroid. and subsequent Ilystcrectomy.Dr. Ricifann T. Smitn exhibited a fibrous tumour of the uterus, removed fifteea days previonsly by abdominal seetion. The potient had been suffering from menorrlagis for four years, and

Ipostoli's treatment had been carefully carricd out. The uterus became rery hard, and remained for abont twenty-four hours in a state of contraction after each application. Ife had sent the intient away for three months to see if any benefit accrued, but she returned about a month previously almost dying Trom loss of blood. The tummer, which was a soft fibromit, roxe to three inclees above the umbilichs, and as the patient was unmarried and the parts narrow, he was of opinion that if they had attempted to emucleate the tumour they woukd have losit her. She made a good recusery:-Mr. A. II. Reeves also exhibited a uterine fibroid, which he had remored from a single woman, aged 41 , who had und r gone the Apostoli treatment withont henefit. The tummur in question was pedunculated and impacted in the pelvis. The peddele was twisted, and the tamour intensely congested and filled with clotted blood. He thought that the electrical treatment, when unsuccessful, might lead to the loss of valuable time. lu that case lee had remored the tumour after two attacks of peritonitis, and he thought the patient might have recovered had he operated in the first instance. Hysterectomy was a very dangerous operation, and for that reason they onglit to give the electrical treatment fair phay.

The Action of the Constant Current on Uterine Fibromata.-Dr. J. laghis Parsons read this paper. He thought it was too early to come to any conclusion on the success or non-success of this auethorl of treatment, thercfore he had endeavoured to ascertain by experiments how the electricity acted. Eliectrolysis was found to cause throe distinct effects: (i) a decomposition, partial or entire, of eertain molecules; (2) a local action at each pole, caused by the collection of aeils and bases resulting from this decomposition: (3) the transport of elements through the tissues traversed by the eurrent. Thre: different experiments were devised to ascertuin whether decomposition tonk place only at the poles or throughout the tisules traversel by the current. The resnlt in each case showed that it only took phaee at the poles. The electrode, therefore mnst come in contact with the tummr to produce decomposition. The chemical action at each pole could be utilised or abolished by rarying the method of application. It also explained the different effects produced ly each pole, and was entirely local. The positive was, if anytbing, found hy mumerous experiments to be more destructive than the negative pole. The third action-the transport of elements-became an important factor when the complex molecule of albumin was split up at the poles. It probally had a modifying influence on the cells of tumours, as they eould not recuperate so well as the normal cells of the body Mrer several experiments the author fonad it impossible to introduce substances into the body in this way, as described hy Munk, Lugros, and nthers. By obsirving the ressels of the retina on sereral occasions during the passage of a current, and also the circulation in the frogs foot, the muthor did? not think that any chauge took phee in the ressels, except a local hyperiemia due to chemieal action at each polc. There appeared to he no enntraction of the uterus during the pascage of the current, except at the make and break. The author used a large metal electrode wit h sewral layers of damp linen; this mnswered quite as well as clay, and was mich less trouhesone. He did] not agree with Apostoli in laying down a detinite rule for the number of applieations: each case must he taken on its merits. On one ocension he had siven $2=0$ milliumperes for thirty tuinutes erery other day without in result.Dr. (i. Giranvilles Bantock was much gratified that br. Parsonss pajer contirmell the views he had formed after a carclul consideration of all the evidence. It was only reasmathe to expeet that any new mocthod of treatment shouli, if not uniformly succerssful, at least show a gnodly majority of successful resnlts. In this: it had completely failed. The almitted the local canstic action of the curreut. Itiemorrhage might he arrested in casco of so-called grunular chegeneration of the cndometrinm, so eommon in association with filmoid tumours, as the result of the destruction of those granulations hy that canstic action. Lut, he contemed, where the granular disense was extensive, it was far better to remove the whole at one sitting by menns of the curette than by the galranic chemico-canstic proeese frequently repeated. Certainly it would be more experditions. Itw admitted the production of muscular contractions of the uterus under the influence of the continuous current, but they were only tomporary: The action of crat was of a similar nuthere. In conjunction with the jurehhorilk of iron the latter remedy was often most benelicial. Apostoli himself only clamed nu umelionation of symptoms, and had never seen a thmone disappear under his treatment. Apostoli and his followers lad found it necessary to
shift their ground in self-lefence, a sure sign of a failing cause They hud recognised the inefficiency of their former method, and now found it necessary to thruat one of the electrodes into the tumour iteelf; still, they clung to the theory of electrolytic action. The late Dr. Greenbalgh hat cmployed the acthal cantery in a similat way, thrusting it into the substance of the humour through the ragina. There was no msential hifference in the principle of the two methods. The object of hoth was to hring about the destruction of the integrity of the thmour, and the practice might be said to be fonderl on what was now a well-known fact- namuly, that if you could once start the degenerative procesin a filprial tumour, wither the active an ! langerous process of thomelling or the more gralual and imocent proces on aborption. that process would go no unt il the tumour was ultimately got rid of. It was, however, impnsible to control the procias, - Dr. IfEYwood smin said that fibmids were exogenons and not culdogenons growths starting from a central point. They were therefore buried in the contractile tisule of the uterns, inul it was to this external ring that they hat to look for the source of aleorption. How was absontion to take place if the dectrodes were
introlnced into the centre of the mass? Dr. Fucorrt limses introntuced into the centru of he mass - Dratel loy this methorl. In the fist Gase there was a fibroid tumour reaching nearly (u) to the unbilicus. After many week of suffering tbe tumonr disappearell, and she left the inspital. 1 n the second case also the
tumor was mucd smaller, put the patient's sufferings had been tumour was much smaller, hut the patient's sufferings had been great, and she declined further treat ment. Comparing the resulto with those ontuinel by ramoral of the appendages, he much preferred the latter.-Dr. Massem. Hechis said it wat not generally umlerstood that electrolysis implied destruction; the word itself hal that signitication. it was impossible for elect rolys is take plaee in living tissue. There was no such thing as a moolified electrolytic aetion taking place at a distance from and hetreen the electrodes. Snpposing, for the sake of argument, that suel action did take place how was it that the current picked out the morlitl tissnes only? Dr. Parsons:s theory that it was in consequence of the lower vitality of the morhid cell mowth, which was influenced in some way by the current, had nothing to support it. In two out of the four cases recently bronght before the society sloughing of the tumour had occurred. Ile had previnusly remarked upon the dauger from this source, and believed that it was due to the prolonged contraction interfering with the circulation. It was not the result of electrolytic aetion. Secing the dilticuity of diagnosis, it being in many cases impossible to detine the character and position of the filroid, the treatment was at hest essentially empirical.- Dr. Awringe said that electricity could reliese pain, hemorrlage, and havk of tumour, the three nugent symptoms fint which lysterectomy was performed. If a patient could be thus symptomatically cired, was it not worth trying? Me did not agree that there was no eleetrolytic action bitwen the poles.-Dr. Brarome raised it protest against the indiscriminate insertion of mumprotectel netal roll with currents of high intensity into the utrus. He had lately witnessed the expulsion of the entire cast of the lining mucous membrane of the nterus; which lad been in process of discharge for some days. He hud also seen a slongl detached from the nucons memirane of the cervical camal about the size of a shilling. This had resulted with a current =treugt of seventr-five milliampères.-Dr. Rocth. Mr. Lawson Thry. Dr. Mache, Dr. Cuhlmeis, Dr. Sarage, Dr. Steatesion, Mr. Retherford, Dr. lalich. Dr. Bedforn Fexwhek and the l'masideat tonk part in the dischesion.-Dr. Laglis parsoas replied.

## HUTEERIN SOCLETY.

Wedmestis: Mircu "̈th.
R. Clement Lucis, B.S., b.R.C.S., Fresident, in the Chair.

Itdominal Puncture in Tympranites.-Dr. F. .1. Ryle read a paper on a case of trupanites treated by puncture through the abdominal wall. The putient. a man iged to. came under treatment in Octolner, wis, with yomitiug, parorysmal pain, and constipntion, of about ten days duration. Examination of the aldomen showed considerable fulness, but no tumour was felt. and examination lyy the rectun revealed nothing. Euewatand Obermes tube gave no infornation. Colotomy was declined, therefore puacture of the intestine to reliere distension was resurted to as the only treatment which promised relief. Eight punctures were made. with considerable relief to the distension, hut with the result of setting up an attack of violent peristaltic
contraction about half an hour after it．Three days later it was noeessury to pumeture agnin in thme places，and two preeautions were und to jrevent peristalsis，namely，（ 1 ）hyodermic injection of morplon－utropine，ind（2）nse ol a lurger aspiratiner needle of wry large gunatity of gas was let off．So violent peristalsis fol－ lowed．Forty－eight hours later the bowels opened．After n fint－ night symptoms of olstruction returned，und puncture again he－ eane necessary，the same precautions heing taken an on the puncturing was four times repeated．Great temporny relief was gnined，but the patient gradually sumb and lied．I post－mortom ex－ mminationshowed nnanmume stricture of the tirst part of the rectum， hut movidenee of peritonitis or extravisution of facees，nul，with the exception of certainsmall hlack spots，notrace of the pumeture Was visible in the wall of the bowel．The points of interest in the （lingmosis of this ease of ehronie olistruction were ilen discussed ； amb，secondly，those of the treatnont by puncture．As to the latter，the relief afforled by this procedure was of rilue for three rensons：（1）as cheeking the respiratory and circulatory tifficulties consequent on extreme distension；（2）as diminishing the direet risks of distension，nanely，rupture and peritonitis：（3）as farnum－ ing the re－establishment of the normal intextinal action，The elitef mode，however，in which juneture tended to produce evacuation of the bowel was by exciting brisk peristalsis，aml this was a result which，as in the present instance，might re－ fulure to be guarded agninst．As to the dangers of intestinal punc－ ture，thinning or ulceration of some purt of the bowel might con－ rert it puncture into a rent，or liquid freees miglit he conveyed from the needle to the peritomemm．But a mueh less hypothetical flunger semmed to be rupture of the diseased bowed by the vio－ lent peristalsis set up by puncturing，or if the puncturing was rery free．The reality of this risk was shown（possibly）hy the history of a cas．＂f Dr．Bristowe＇s recorded in the Prithotopical Sicictiy＇ransactions for $18 \%$ ，and still more clearly ly a euse re－ corded in 1875 in the Jocrasat hy Dr．Conpland and Mr． Dnario，in which ruptur＂was the to promstalsis eansed her puncture．If this view of the dinger were correct，the proceedi－ ing came to resemble the administration of ergot during labour， and the cases most suitable for the treatment would spem to lie those which were known to be clanracterised hy healthy bowel and an ubsence of insuperable olostruetion，such as sometimes necurred in obstetric practice or after abdominal operations．I＇erhajes，too， as lad been suggested ly Dr．Galahin，this trentment miglit lse of use in enmmencing peritonitis．The beneficinl effeets of simple relief of tension in elieching the progress of inflammation were shown in periostitis and cellnlitis，and probably a few meedle jume－ tures mould be less clangerous thay continued distension to the furitonenl cont．From similar considerations lie suggestad its enm－ ployment in enteric fever，more especially if，as was probalsle， axeossive perintalsis conld be prevented by opinm．The specimen Was slown at the meeting．
－Imte Intestinal Obstructinn mmplicating Titero－gestation．－ Dr．Conser rearl notes of a case of this limy．The patient，a woman ared 27，who had been marriad four months，wis helieved to be fonr months pregnant；during this perion she land much sickness and retching．On November ？uth，after a hearty supher， she was scired with great pain and tiolent vomiting．The howels aeted freely sereral times．Nothing abnormal who felt in the aly－ domen，and the uterus was of normul size．Fomiting and pain continned，with eonstipation．On Novemher zGth elaloroform was givelt，and the rectum，vagina，mud abobonen weree carefally ex－
 On poat－mortem examination the ilenm was fonum ennstrieterl five inelies abote the cencom ly a thick band of achession in the midale line ahove the puber．The lowel was eompletely divideal． The peritoneum contained a quantity of fiecal materinl．The sjee－ cimn was slown at the meeting－Mr．DeCARTME said that lip lad seen Mr．Corner＇s case for the lirst time the day hefore death． Tha diagnosia lay thetween pregnaney und uhstruetion．Tlurr． bring nothing to indicate tho precis．inature of the ease，lue did not advise operation；and，lonking at the nuture of the ease as re－ reabet after death，hidd this been performed the bowel would im－ merliately luve given way，as it hat done on the following elny． These easns，if sern enrly ennngh，＂specially in bospital practice． nud trated by operntion，miglit torminate in a pood resint．Is to puncture of the intestines，le lurl employed this method in a gyameological case with great relief，－Dr．l＇sk－SMrtM，in diseus－ sing the tirst ense，spoke of the difficulty uet with in diagnosis，
long tube up the reetun．It often coiled rip，sad he believed it to be anatomically impossible for it to puss beyond the second pate of the rectum．Then as to the claskical description usmally giv＂•n of＂pipeelay＂motions he thonght it qutstionable if astric－ tare high mp could imprint its fomm on tha firees．but that this condition was namuly dur to some disense of the auns．Cuses in point were then desoribed．On the ather hand，there might be a stricture low down with no narrowing of the duntions；he therem fore ennsidered this condition mueliable．I＇aswing to rases of anmular stricture due to malignant distase，eluronic in their pon－ orress anm limitarl to the large intoxtine，he thonglit these onerlit to The diagnosed and treatml by eolotomy．Cases of this sort wnuld aften allow liveces to be passed，and he qunted a case of discase in sigmoid flexure in whieh arrangements lind heen made for gro－ forming colotomy，whiel was deferred moneotmt of the passuge of liquid facees it the timu．Death took place next day．Eleoration in these cases，as in Dr．Rylex，was marlardiy absent，in contradis－ tinction to Mr．Cormer＊（aise．In all such cases he urged nperation． As regurded Mr．Corner＇s case he expressod regret as to the resule： if the ease reached the gangrenous stage，he thonght that an operation took away the last chance of recovery，and as a reanlt death was frequently put down to its performance．Considering the whole ，neestion of operation，the more cases he saw the less he truster the signs；the signs as taught so often failecl．Explorators operation ended in failure in all his cases he had reeently lookent up．A more loose method of diagnosis than that usually taught he considurel useful，and he elassitied cases under several headings： 1．Acute olstruction in whiel（a）operation was followed liy a good result，as in cases of hernia；（b）treatment by opinm inud starvation－some of these recoverel． $2 .$. Chronic obstruction，like strieture of rectum，trented by colotomy．3．Chronic obstruction lue to impaction of feeces，treated for eonstipation by enemata （this inelndeft also that due to gallstones）．He agreed with all br．Ryle had said as to puncture．He had performed the oper：－ tion one to relieve execssive distension，and found that peristalsis was excited．The patient passed some fiecex，and ultimately re－ corered．Je thought it might he performed with greater freedom． and recommended frequent puncture．The needle，however，shoutd not be allowed to remain in any length of time．－Dr．Dexpis Grant gave lis experimee of two eases of cancer of the rectum low down，in which he had used this method of trentment by puncture with great relief to the patient．He asked Dr．Ryle if he hat passed the whole hand into the rectum for the purpose of cliagnosis．Typhlitis being sometimes accompanied by ficcal roniting and liable to be mistaken for acute intestinal chestruc－ tion，he inquired as to what degree of weight should be attacled to this sign．－Dr．fialassi adverted to the critieism ly the Lancet on the statements made in his manual as regards the method of treatment in puerperal peritouitis being so fatal，the relief given could only be temporary．He guoted cases of this lind，inil nlso one of intestinal obstriction in which puncture had beell useld with great relief．IIe also thonght that．puncture might be used in cases of extreme distenion where there wns great trouhle about to be experiencel in ablominal section．The finest tuhes moly should be used．He had employed tine puncture for the relief of great distension of intestines which lial escaped from the abdo－ inen after orarintomy：a small drop of fipees was noticed at the site of each puncture．limally，lie relatel a case of nente inter－ itimlolstruction with pregnamer at six months eansed hy volvulu－ of the small intextime．which terminatect fatally：Sothing was dnene，the patient heing moriburl when seen－－ins．shansm wheussed the increating litheulty of diagnowis in intectinal oli－ struction，thul related severnl carse he had had under his care．He always recommended an pyphomery operation in thewe cases，und the suceese he had met with wis eeptainly meouraging．Ther ure of lurge enematn，he thought．lith not prove the pinsition of the growth．In cases similar to that of Mr．Corner＇s，Xelnton＇s opera－ fion was useful ns a methorl of relief short of abdominal sectim．－ Dr．L．E．Shaw had sem Dr．Ryle＇s ense during the seemed attack， and thonght the ease an almirable one for operation．He believed that puncture might al ways lee employed in the first place lefore the performance if nperation for the removal of growth－the methorl appured to he so imochous．－Dr．Prty related a case of puncture of the intestines in a man for ohstraction dhe in atran－ gulation of the ftucending colon without relief．Colotomy wa sulsequmbl！y prrformed．In the majority of cases he helieved the coton whe nut full of ga＊but fieces，a＜in the case just mentionerd． I very valuthle methot of treatment for the relief of symptoms in intestiml obstruction was to wash out the stomach．So，hain，
in entoric ferne，might not the contact of micro－organisma with the food form gas？From experiments he liad madle，it was un－ certain whether the colon or sma！l intestin＂whs puncturet．－ The Prbsidest thought Ir．Ryle＇s case in typical one for colotomy， and rurretted that the patient conlel not lee jersuated to unterg＂ the operation．ln elmonic obstraction where the pusition of the disease was a matfor of conjerture，lae alway：ulvistel left－sinte colotomy，and lie related 1 wo casps in which patients were relioved in this way．In one cas＇there lad been symptoms of chronic diseases and complete alstruction for thirteen daro．He colutu－ mised on the lett side．and fomd the opening was below the stricture；jassing in lis tinger he felt the disence at the splenic frexure then turned the pationt orer，and operated on the light sist．This patient was ulire nearly three years after the opern－ tion．As illustrating the use of puncturing，he refurred to a case of Jr．Furster＇s relited in the fruys IInsivital Repurts for 186x． where the patient liver！eighty－tiglat days after complete ob－ struction．

## WFST LONDON HEDYCO－CH1RLPGIC，L SOC＇HTY

FRIDAT，dPRH．6TH， 1889.
C．12．B．Kemtirs，F．R．C．S．，l＇resident，in the Chair． Cancer of the Bodies of the Tertebres．－Mr．Rocisf：LYNCH again produced his specimen of cancer or sarcoma of the lumbar rer－ tpbre，which le describerl at the last meeting（Jouraval，March 10th）．－In the adjourned discussion the President observed that he had spen a case of secondary cancer of the vertebre in which the symptoms had betn misiaken for those of hysturia．－Mr． Luosio had seen a specinen of melanotic sarcona of the spint． The peculiarity of Mr．Lynchs specimen was that it appeared to be a mique sperimen of primary canctr of vertebre．

Rare Congenital Deformity of the Hands：－Ir．Y＇bres Poterne showed a man in whom the metacarpal bones were so fused that rach hand had the appearance of having but two digits and a thmb．The Presinfint，Irr．AlliNGiay，Mr．E上NHAM，and Dr． Mansing took part in the discussion which followed．

Dermoid Cyst Eivpelled per Rectum during Labour．－DIr．Prion Millan reluted this case and exlibited the specimen．A woman who had had two natural confinements previously was taken in labour，and found to have in the recto－vaginal septum a tumour large enough to obstruct the descent of the child＇s head．In cle－ lirering with forceps the tumour was forced out through the anns．It was found to contain serous fluid and some hair．The patient recovered without any bad symptoms．－The case was dis－ fussed by Dr．Weids，Ilr．Dusx，and the laresident．

Perforation of the Eychall by the Knot of a 11 hip．－Mr．Percv Duss related the ease al an attendunt at a hippodrome who felt lis eye snddenly cut with，as he supposed，a pebble kicked up by one of the ponies who were being trained．Tle was admitterl to the West London Hospital ；and on the following day：there being severe padoplathalmitrs，Jr．Dum perfomed emucleation with the best possible result，the man leing made an out－patient at the emal of eight days．A curious thing was that the man，when struck， Was standing beyond the reach of the whip．Ir．Dunn supposed that the thong liad become heated，and the linot．detached，Jad tlown of at great speed．It was found to have pierced the ball just below the horizontal meridian of the cormeo－sclerotic junc－ tion and to have become embedded in the vitreous humour．－ Remarks were made by Mr．L．ビメ゙x and Mr．Laxg．

Calcudus in a Tossil．－Dr．ALDERson showed a bard coneretion， about laalf an inch in diameter，which had sloughed ont of the tonsil of a patient aged 72 ．Therewas no history of gont or of a ealeulons diathesis－Dr．Balu had seen many caleareons con－ cretions from the tonsils，but not one so dense and brown as this．

Iarge II en in the Vecli treated by a Vew Methorl．－lin the castv of a wen of oled standing，and which extended from tho juw to the elaviele，Hr．Gfermes（l＇resident）had operated in the follow－ ing manner，lemoring an elliptical piece，abont three inches by an inch and a half．from the cyst wall，he turned out the con－ tents．Je then cleansed the cavity thoroughly，tirst with ear－ lolic acid，then with corrosive sublimate，amd tinally with boracic acin．＇The hole in the cyst was then stitched to the loole in the skin，and the carity of the eyst was plugged with strips of iodo－ form ganze，which were remored from time to time．It the end of a month the cyst had almost disappeared．During treatment the head und neck had been kept tixed hy a poroplastic apparatus，which had probably had much to do with the suecess－ ful result．

P＇atholoyicul Specinenso－Mr．Johs R．Lotiss：Cancer of the
 fondition of Brain；（：j）Surcoma of C゙terus：（t）Lever from a Casp of Peritonitis lollowing l＇aforation in＇ly yhoid．
 SFCTION OF INATUMY．
PRIDAY，MARCH ジD，lige．
St．Jois Bruoks，M．D．，President，in the Chair．
brain－grouth and Ciranio－cerelurl Topography．－Professor CCs－ Niximas exhihited fifteen models of the human head．Ile stated that lor some montha past he had been endeavouring to determino the relative derree of growth of the severu！lobes and convolutions of the eerebrum from infancy lly to adult life．It could eacily bê prosed that the movement of increase of thw subjacent brain did not correspond with the growth of the component bones of thr skull．Ile quoted Féré and Topinard in support of this viem，and gave two examples in which it eonla easity be seen，namely（1） the frontal eminence which ovprlay a lifferent portion of the frontal lobe of the brain in the adult and child：and $(2)$ the dif－ fulent relations which were obsersed betwoen the squamo－parietal suture and the sylvian tiscure as first noticed by Foulhonze．The measurements must be upplied to the brain itself，and for this purpose some neans must he taken to preserve its volume and contiguration absolutely umehanged after the cranium was opened． He was now able to prepare the Irain so that when it was exposed in situ it would remain absolutely unaltered for at least twenty－ four hours．But a furthor step wisk necesiary．A more extensive comparison between the cliticrent lumins was necessary than that attorded by columns of firmues．It was very essentiul that the parts of the brain shombl he fixed smi retained in their naturul form．For this purjose he had had recourse to models which he lial prepared immeliately after aposure of the brain．Two molets were preparerl of each heal selected for investigation， mamely（a）a model of the head before it was tonched；and（ $b$ ）a morlel of the same head after it hat been prepared and the bruin exposed．The brain was exposed on the right side，but narrow bir of the cranial wall were left in the lines of the cranial sutures． The models on the table represented the head of a boy 5 years old， a girl of 11 yare a boy of 12 years，a youth of 15 ，two middle－ nged women，and two adult man．We then briefly alluded to some of the pointa conerring brain growth which he had observed， but stated that until he was able to olitain specimens under tive years old he did not expect to make much adrance．In the antero－posterior direction rery little difference was observed in the relative length of the frontal，parietal，and occipital lobes above the age of y years．What difference there was could readily be acconnted for by individual peculiarities．The temporo－ sphenoidal lobe，however，showed some interesting changes as age advancel from childhood to adolescence．It was placed more horizontally in the child；in the adult its tip was turned down－ wards and inwrards，so as to gire itsplong axis a furverl direction． Igain，its rertical depth in relation to the part of the cerebrum abore the Sytrian tismme diminished uniformly and steadily as adolescence and adult life wasupproached．In discussing whether the relative decrease of the outur surface of this lobe could have nny functional significance，l＇rofessor Cunningham referred to the recent importunt investigations of Professor Sclaifer upon tha temporo－sphenoidal lobe．Tle also indicated that Dr．Symington had suspected that there was such a decrease in the vertical dimensions of the lobe in guestion，and had accounted for it on mechanical grounds．The question of cranio－cerebral topograplyy came in as a side－issue to the present investigation．There were two distinct methods by which anatomists had determined the relation of the different parts of the brainto the surface of the head，namely，the sutural，which had been follownl out with great wactitude liy numerow investigators，aml that method whereby， by means of eertain lines and measurements made with reference to well－marked prominences，the smbjncent brain could be mapped on the surfuce of the head．The latter plan was the one most interesting to the snrgeon，and to it only he would refer．Hare， Segnin，and Reid had eacli develuped a method of this kind．For llares method he had nothing but commendation．It was easy of application，and as exact as any such plan could reasonably be expected to be．lReid＇s method fras in some mensure a modifi－ cation of Spquin＇s，and in so far as the fissure of Rolando was concerned．The lard found it most unreliable．Tn none of his specimpus dill the tisalre coincide with Mr．Reid＇s lines，and in
onemorlel on the tuble it mombl be seen that even a trephine with a diancter of two inches womld have failed to expuse the upere end of the Rolundie lissure hat it heen applied accordine tu Mr. Reid's mbes. It was a methot, further, which,
 Was exeretingly fillicult of aplieation on the living hemb. The l'Rosabestr ain l'rofessor Cuminglam's communieat iom was
 method was the one that was regularly tanght in many sclomb. Sow that errobral surgery was hequining to mals, remarkable strides, the localisation of the difletent pontions of the lorain in relation to the ontside became of more and more importunce, and
 corresponding importance. lates methat difterel irom lerofesoor Conninglamis an comsisting in removing the whole side of the skull, while l'rofessor Commanghum ledt hridges of bone nong the Jine of the suture. In another respect, ulso, their methorls slifferes. fine usem mo sperial havening methot, while l'rofessor Cumbingham hardened the brain in sith. with aholutely no shrinking, su that when the skull-enj) was romoved the eprebral convolntions were stan tighty anplieal to the duru mater. . At the same time. the results showed remarkable uniformits: Hare was of opinion that the hardening temled more or less to displace the brain and make it shrink. He was also atose to freezing the brain, becanse when the brain was frozen, unkess special means were taken. it was inclined th thaw and become more diftuent than ever. What he relied upin was to get the subjects as fresh as possible. He examined them thinty hours atter leath.-Mr. Tuomson, Res. Dr. Halghers, Dr: For, Dr: Sixos, Mlr: Swayzy, and Mr. Bexsetr, took part in the discussion.- Professor C'Ninotiman. in reply to sir Whalian stokss. suid the paper from which he quoted the results of Irofrssor schaifur's investigntions would be found in the lisit mmber of bicin; und his experiments consister in remosing the temporo-sphenoidal lobe on eath side. In each case the monkeys he operated on showed no evidenct of lass of hearing, tactile sensibility. or taste. IIis experiments also tended rather to confirm those of Munek. in whieh complete removal of hoth oceipital lobes led tos total blindhess.
 nam exhibited a specimen illastrating relaxation of the sacro-iliac joints in a pregnunt woman.-The D'resident. Dr. Bensett, and Dr. For jomed in the disemssion.

IImmology and Innervation of the Achselbogen and Pectoralis Qurertux, cund the Nature of the Lateral Chataneous Nerce of the Thoran:-Dr. Ambruse bimamaguan read a papere on this subject. The proints sought to be establisheed in the paper were: (1) that pectoralis puarelis. bs a semmented portion of the great pectoral; (2) that achselhogen is a deriwative of pammiculns; (3) that pectoralis quartus is supplied by the intermal anterior thoracic: (t) that achselbryen is supplied ine the internal thoracic; and (5) that the interal cutaneols, nerve of the thoras is the nerve ol' Wrisberg, associated with more or less of the internal thoracic. -The PrergiDint and Professor Crasinginim male some remarks, and Dr. birmingitas replierl.

Mistory of the Jerve to the Anconeus.-The Presinment read a short puper on this suliject. Tha history of the nerve involved the morphology of the muscle. The anconeus was nsually regariled as a part of the triceps which had wandored downwards from the olecranon process to a more distal joint on the forearm. For this view of its morjhology two reasons were assigned; (1) enntinuity with the lower fibres of the triceps; and $(2)$ nerve suplly. The author had foum in u lizurd (Haterin) that the anconens was separated from the triceps, but formed an integral part of the extensor earpi ulnaris; he: found also that the " nerve to the anconeus" supplied other muscles as well (for example, supinator brevis), and thenjoined the posterior interossenus nerven to take part in the innervation of the extensors of the ligits. In the alligator he found the extensor earpi ulnaris absent, its place being talinn by a large ancoaens with it double nerve supply (from the "nerve to anconeus," und the posterior intrrosseous nerve). In man he had found a similar double supply for the anconens in two out of four subjects lie had examined: this armagement had leen deseribed by Lusoika. Jle conchided: (1) that the anconeus was to be vegarded more as part of the extensor carpi ulnaris than of the triceps: ( $\because$ ) that the "nervo to the anconcos" originally took a large share in the innervation of the rauseles on the extensor appet of the forearm.-l'rofesior C'visisiman made some remarks.

## SILEFFIEJA MEDICO-CHILLERGICAL SOCIETY. 

3l. M. de Balrolomi, M.D.. President, in the Chair.
eheos.-Mr. Sintle. showed a hoy who had been operated upo for severe retopia.- In.S. Robserts showed a hoy with hypertroph of the gums.

Crmmited Fracture-Mr. D'sesmatu exhibited an instrumes lie had devised for use in manited fracturos.
 a man had fallen on a pisee of iron und laeerated his perinem from the pibincter ani inta the seratum. The wound penetrate therply: exposing the base of the bladder, mat emmpletely divitlin the nethra near the bulbons portion and traring jurt of it a was
The proximal wh was fomd, and when the silk webeatheter hit The proximal and was fomd, and when the sills web catheter hif
herat pussed on into the bhatler, the divided ends were two inche apart ; they were brought together by thin silk sutures, and ayhon tube was attached to the end of flan catheter. The catheth was changel about once a weok for six weks, when the urethr was fonnd to be united, and the perineal wound nearly healed Ifter this a catheter with a sharp curse was occasionally passer :mul in three manthe the perinemm was entirely healed, and th nan conled puss his water us well as lofore.-Rematks were mat by Dr. Jemelisg and the l'meshent.

Massage. Mr. Arkis rema a paper on massage, in which he dicussed its value in rertain surgical aftiections. An opinion w: expresseth of the uselesshions of treating scoliosis, flat-Loot, been lege, and rickets generally ly jackets, splints, ohc, unless the ap paratns could comstantly be manoved and the parts well sbampooer Attention vas also drawn to the nse of shampooing in curtuiling tedious convalescence, as after a surgical operation. biaty mas sage was recommended for sprained joints and muscles, thous not to the exclusion of the plysiologival rest needed for repair. future was alsu claimed for massage in rertain hysterical aftection which simnlated surgical thiseases, and benelit was stated to latw been seen from massage in disenses of the anterior jart of the exy - Remarks were made hy Mr. Kisifit, Dr. Hear, Mr. Inering

Terebene-Dr. Mamres gave brief particulurs of the cases Wronchorrlua, in the treatment of which he found the use of juy
terebene most nseful. Ten minims was the dose prescriberl, an in each ease the beneficial action was immediate, progressive, an persistent. Dr. Martin laid stress on the necessity of inquiring
 Remarks were made by Mr. Sxifl, Mr. Bfomsisg, Mr. IL.it cirlivisc, ame Dr. C'labke:

## ABERDEFN, B.ANFF, AND KLNC.IRDINE BR.LNCH. <br> Wmbnesdar, Marcim 2Ist, 1888.

Johy Lequilart, M.D., Vice-President, in the Chair.
Occlusion of External - Uuditory Meatus-Dr. Iors Gorme: showed a boy, aged 11, with complete occlusion of the right andi tory meatus, about half an inch from the auricle. The hearin! distance for the wateh was $-\frac{\frac{1}{4}}{(i)}$ and bonc-conduction was gooc on the affected side. Wilh the grobe a bony ring conld h made out romed the meatus at the blind end. Attention had beer drawn to the boy seven or eight months ago, when he becment deaf from liustachian obstruction of the left side. Dr. Gordon in. tended to operate at a later chate.

Fachibition of Electric Apharatus.-Dr. Garden eahihited a Schall's battery, suitable for all medical and surgical parposme. He showed Leiter's electric rhinoscope, wethral indoscope, and
eystoscopp. and demonstrated the mode of usins the lattur eystoscopp, and demonstrated the mode of usins the latter ly meuns of an artificial bladder filled with water and containing various minute objects. An electric month-illuminator with tongue-depressor, a laryngoscope, and ear speculum were alkin shown. Dr, finrden also exlibited Schech's hanlle for the eleetrir eautery, und its adjustment with the electrie lonp, and a varinty of electrotes. It these appliances were worked by mpans of thiSchall's liattery:
(onqenital Syphilis.-Dr. Enmoxn showed n mumber of pathologicnl specimens of eongenital syphilis occurring in it hoy agerl 7 . who was blind, deaf, and dumb; namely, the sktill with harge perforations in some places and numprous ulcerative depresions, the sites of gummata, amyloid liver filled with conleifying and
cheesy gummata of varying size, and amyloid spleen and kitheys. Dr. Fitmonl also showial a photograph of several beatifully ixe-
cuted paper morlels of cattle. horses, deer, rablits, etc., which the hoy hul made. Protessor llaminTox had observed that the brain was the most highly convaluted one he harl evor mot with almost approaching that of the cetacean.
 Bonvy describer a case which he lad notat with. It will be pulb-li-hed in full in the dotsixal.




## REVIEWS AND NOTICES.


 ('m, Vmmet. Fxpert pies le Tribmal te la spine, etc. lomis: Bailliere ut Fils. 18sis.
As far an we know, this is the first mork which las appeated in tha lirencl langunge on the sulyject of railway injuries. The muthor of it apjears to have hat consiclernher medien-legal experience, and from the titles appended to his mume we grather that hr holds an appointment as "medieal ussessor" in the laris Conrts of Justice. Ile has thus enjoyed the opportunity of virwing a mumbur of cases lrom a whislly judicial standjoint, free from any necessity, whether imaginary or real, of supporting particular views in or ugainst the interest of any clammat for compensation for persomal injuries. From the medico-legnl l'eports, which are to be found verbatim in the hook, we should say that tho autlor is well trorthy of the contidence placed in lim in the ollicial position which he holds. It wonld iwe well if in this country, also, appointments of a like character were not unknown.

The injuries received in railway accidents are, as we well know, of singular interest; and nowadays, when botls claimants anel malway companies alikt see the disadvantages of litigation, and umicable settlements are much more common than in times gone by, when medieal men art, therefore, able to approach thene coases in less of the spirit of contending pmotirs. and more in that of calm judicial ohservation, it is to be hoped that the results of railway injuries muy more closely engage the attention of lanling nemologists, who hive hitlegto inther sought to nvoid them, for various reasons which it is netedless to name; for the conseguences of railway injuries fall especially into the category of nemrological work, and they clerive thair chiefest interest trom the light which they sometimesthrow ulum the elose and intinate interdependence of mind and boty. of pychical and physical heing, Fiuctures and lislocations, wombls and contusions, receiver in railway acembents do not ditier in the least, either in thair immerlinte symptoms or in their after-consefuences, from those inilicted in a hundred other ways; nor is there any evielence that the coarser lesions of brain or of spinal cord, or of other parts of the nervons system, hare any special consequenees when they have been camsed by uccidents on railways. by tha collisions which we commonly understand railway nceidents to mean. To the inlliction, however, of nll, and "very form of injurias in enllisions there is frequenty added a disturbing rlement whinh is commonly, thougl not invariably, absent from other and more orimury acrislents; and the comsse of the after-symptoms is often unusual and mexpecterl, heanse of the interterence with conValescence which any masettlement of mind, such as may be insluced by litigation, by amxiety as to the future, or by delayed arrangement of claim, is pretty sure to entail. I- to that whide las influence at the time of the accident, it is well known that eonsidemble importance las heen attached, and is apparently by Dr. Vibent himsell, to the ebranlement, or vibration, which is supposed to be commminated by, and at the moment of, tha enllision to every nliject of, or comnected with, the colliding bodies. It has always seemed to ns remurkable that this coranlement should be so partinl in it: wherts, and mancountable, moreover, that a vibration, generuted hy the collision and necessarily communicated to, and liffused through, "very particle of or connected with, the colliding bodies, should exercise a great aud injurious influence, say, on one individual, while another individual sitting next him slould go scot free.

The different effects of railway injuries, apart from gross bodily lesion, have therefore to bin sourght elsewhere, and we believe that they are to be found in individal idiosyncriacy, one person suffering largoly from the fright incidental to the liormors of nailway
collision, another farling such effects lut little, or it may he not at all. Aul therefore every varicty and combination of resulta may be mot with, as for example: (ie) severe horlily injury associ* ated with great mental bistubnace: (b) severe borlily injury acsociater with none: (c) great mental clisturlamee with slighe borlily injury; (d) slight boulily injury with littlu sliwturinnce from fright, or it may be by nome at all. liy far the largest momber

 ptoma - 1 commonly sten. und for tliverting attention from, unt paying less heed to, the lu'lional element in railway injuries, and for disregarding the fright. that all potent mental disturlance, tither immediate or cleliyed, which culls the prorannal element into play. I'his is not the julace to recorel the entinary symptome of injuries of this class: they may be foumd in works in our owat tongue. It may be well, ఫ̆owever, once again to point nut that the most recent nbservations 1 pom railway injurive hoth in this contry and in Imerica lase teadred to slinw that it is in the banin rather than in the simal eoral wr innst look for the lesions. if there he amy, which melerli the symptoms of railway injuriws: and that "railway liruin." rather than "railway spine." wromld lu an appropriate term to apyly to the congerie ol syonptome with Which we are familiar. The work hafor" us is of inter"at lrom this point of ries, in that the cases recorded, relaterl as they as'e in detail and with the written "medico-legn]" opinions about them, are rery largely cases of cerebral injury, with symptoms leferahle to lirain lesion or disturhance ratler than to lesion or listurbed function of the spinal rord. The exprrienct of thes anthor appears to have bean drawn hargely, if not exclusively. from the rictims of the well-remembered accident at Charenton on Saptember ith. Is81. The accilent wias onf of thw worst description. Eighteen persuns were killed on the spot. five dime within a few months, twents-six receivel very severe hodily injurits, and some eighty others were more or lecs hurt. The coljision itself was of the most truly terrifying mature, for it became known to peryone that th+ accident was ineritable: the res of "Sauve qui pent" wis raverl alout, amı evergone wite dommed in pass throngh : Lew secom? of the
 mot surpriserl. therefore, to learm that the rroma majority of person-sufferad from protombl mental and pmotional listmbance. from nightmare and sleeplessness, from involuntary trembliny and serere healache. from grave disturhances of nutrition, and that convaluscence wias slow and prolonged. We slomld have been glad to lave hemal more of the iffer-history uf these pat bate
 giving a enreful and luchd account of the cwrehral troubles which are alit to superrene after lailway collisiom- even in cases wherp there has been no serious bodily injury nor any true concussion of brain. Ilis acomat in every way confoms the views now hrel in this comutry, and we fall to find inything new in the record.

Uifterences of oprinion sem to exist in Framee as well as herre and in one of his cases wh have the revbatim reports of the several surgenns whn saw the putiant. The views phtertained by each apy ar to us to be alike lomitimate and warranted by the recordel facts. and they enmbine to show lonw much hetter it is that the judicial tribumal shoulal he a-aisted in arriving at a just conclasion by the permsal of such report - tham by the oral trotimony uf witnesses in open court. Who rum the risk of being sulbjeverl therer to the tannts and questionings of contruling counsel. Whon may easily lose their fresence of minn in sum circumstancos, and who perhaps at that best may lave a lifliculty in eomvering thent opinions on medical mattere to lay and immelncateal ear: amel minds, whether of judge we jurs.

The author lias little to sity on the suhject af pasgeration and inposture. hat his romurks therequ, if chort, are judicious and
 tients which lie in leading questions, and hes shows that if tho letection of dowmight imposition is unt the elitlicult thing which it is often smppospd to be, it nevertlydres may has monsy mater to decide whether $n$ jerson is or is not exagererting the symfotoms of some real, though very tritling, injury. Fixperience, bowever, is of the greatest valne in enmbling a metlical man to say Whether the indertimale symptoms which have uo physical signs. which are purcly subjertive, amel have bo nther basis than the statementa of the patient himself. are or are not gemume. No book, no nccount of such symptoms, however accurate and clear, can supply the want of experience in such matters, and those who come to the examination of such cases without experience

Would ulways do well to defer to those who liave. Wis write on the
 partial ohsorver, such as br. Vibert aremis himatelf to bet, whons binion woult he precisely the same, and griven in precisely the same roods, he the interest what it may, which he is supposed
 raibay injury from the opprobrimm whiels ona surronned them, ind to phate them on it difterent looting from that whicla they lat when mitway injuriss and the disputes arising ont of them tios sprang inti prominenee, und when neither medical men nor lawyers knew how to deal with them.
Dr. Sibert says mext to nothing as to trentment, but jet theatment muy do nuch for thent rase of profoumd gemeral dinturlanme of the bodily and mental lamalth sublas he reeords, and sueh ar are so of en senu nfler severe railway wollision. Ireatment it i= true is ary often theless beomse of percuniary disputes, or at any rate is useless until pecuniary disputes are at an end, and it is obvious that these should be put out of the way as soon as possible, so that proper treatment may be brought to bear on those who are really ill, in whom each function sout of order, whose bodily feehleness beromes extrente, who lind work impossible, and whis provide the suitable soil tor the development of all sorts of hypochondriacal or nemrokinetic symptoms, with anorexia of the most aggrasated kind. It is in cimps sulh an these that the weirDitelell treatmant is ofteu of the greatest service, and one at least of Dr. Vibert's ow a euses would, in our judgment, have derived bronfit from it. How liflicult it might be to inaugurate sueh line of triatment for railray injuries, only those who liave har experiener can tell; but we cun speak of its usefulness in many apparonty hopeless cases. Trentmeut may do mach for the patient. but wide experience, tact, judgment, and abore all goorl common annspare necesary firsl of all to unravel and rightly estimate those mysterious symptoms which may be met with after railway injuries: symptorns which oftem 1 lj on that slippery borderland between genuine neumtic disharbance and the conscious or m-con-cions simulation of nure disorders, when, if we may not call him " lyysterical"-a phrase we ean surely nse without thinking of the womb-the pationt nevertheless shows distinet "perversion of the ago," ant is way prone indeed to develop) perverted notion of the relative ralnw al mom :mm trum, especially if the later be that of a rorpenab haly, without a soul to be sared.

The anthor ham lind no pmonal experience of injuries of the spinal cord, and he has nothing of his own to twh on this subject. bit his book mevertheless has in it much that is interesting ami in-fructive, though nothing that is new, on the cerebral and kיneral nervous derangements which follow milway injuries, aml We hare no doubt that it will lie of mach nat to the medical profimion in the country where most of its rembers will be foumel,
 thire Vithical Brandi of the liritish Medical Aspociation. By
 visel and enlargel. London: II. R. Luwis, face.
Tin: new edition of these saluble Tariffs comes not a moment ton soon, for it would lee a real lows to the profession if they were to be allowed in remain long out of print. lulispensable to the young practitioner, they are of great vathe to the nome experienced for reference in circumstances a littlo out of the ordinary routine. Two tariffs for the ordinary work of a gentma pactice are given -nar, ex- or inelusive of madieine, one fee being namerl; the other, distinguishing helwen the fer for alsice ind the charge for medicine. There is also n tarifl of surgical fees for a long list of oprations and manipulations. Therese Tariffs are the only authonritative document of the kind in rexistence in this country, and their general applicability und justice ure further shown hy the fact that they have been translateal into freneh. The practical value of these Tariffs, and the moderate price at which the pamphet is pulblished, ought to inhace every practitioner to possess himself of a copy for reference. To this new rdition valuuble advice on the question of professional charges to the clergy and to the relatises of menbers of the inedical profession hive been added, and carefully considered paragraphs on the circumstances under which an extra feo for prolonged examinations or consultations hare beeu insertecl.
'thue thanks of the profession are due to Dr. Styrar' for the trouble which lie has taken to render these tarifis absolutely reliable: lia has not pared limself; and we venture to axperes the hope, which will be warmly rociprocitell by runy grateful reaters,
that law ill-health which hus delayed the nppearance of this mineli nuwelet edition buing now a thing of the past, he may be connhat (1) whervise the issuc of man mole editons in future year:-


Tus volume appears in the "specinlists" S\&ries," and purporta tu he a practical mammal for the lise ol evporations, bical boarda, modical oflieers of health, inspectors of nuisanees, clemists, mumbfacturers, riparian owners, engineters, and ratepayets. It is, thurm fore, $n$ work which at any rate aims at appealing to $n$ ahmont universal cluss of readers, and it is difficult to underspand whetler the lonk is intended for specialists in the dieponal of sewage, er whether it is supposed to he written by a specialist in this particuln subject. If the latter is the impression intadided to he convered by the title, we shunld have been glad to learn with what branch of this very wide smbject the anthor may be regardml to have sufticiently proinund acquaintance to entitle lam to be thus deseribed. Wi talso it that the author is neither a medicul man nor a chemist, it is uot our province to decide as to whether ha is an engineer. Jouthr dues not hesitate to discuss the medical and clemical aspects of his sulgiect with a self-confidence sul Hippaney which would ill-beeome a veteran in either of theses drepartments of science. The autlior is a strong advocate of precipitation methods of sewage-t reatment, althangh he is ubligerl tra ndmit that where a pure eftuent is required, it slould be supplemented by filtration. But whilst the purest pfluent is thms admittedly obtainable by the process of "intermittent downward filtration," the author devotes bui ten short pages, principally wasted in irrelerant personalities, to this important subject, whilst a chapter of nearly forty jrges is ahsorbed in diseussing processes of precipitation.

Taking, as another instance of the kind of information impartal in this book, the chapter on the detection of sewage pollution-a chapter we take it which is especially addressed to chemists-we lind a lengthy disquisition on the eridence afforded by the presence or absence of fisl, frogs, and water plants of varions kinds, the upshot of which is to show that very little weight is to her attached to such imlications. Of chemical or bacteriologieal methods of letecting serrage pollution, the author appears to have an equally low opinion, hut he eoneludes with "one very simple test. which may be applied to any apparently fure water, is to put a few nunces of the sumple in a perfectly clean bottlo. close it with a glass stopuer, or with a new cleun cork, and lut it stand for some days at a temperature of $60^{\circ}$ to $70^{\circ}$ Fahr. If on unstopping the bottle it is found to give off an umpleasant smell, the water must be condemned." This then is surpposed to be the limit of our' power of diagnosing sewage-polluted water in the year 1888! We eannot help thinking that if the author had taken ile trouble to read, mark, learn, and inwardly digest the Blue Books of the 1868 Commission, as well as those of the Commission of $188 \%$, reports which have become the texthooks of the cirilised worlh. he would have eompiled a snmewhat different volume from the one which we have before ns.

# REPORTS AND ANALYSES 

## DESCRIPTIONS OF NEW INVENTIONS,

 IN GEDICLNE, S1'RGEIRY, DLETETICS, AND TILF: ALLEED SCIFACESS.
Lisorer this name an invention hus been registered which serms likely to prove serviceable to invulids reguiring a donche fur any purpose. I glance at the accompanying fllastration will show the chinf parts in the apparatus. The central arrangement is a flattened big made of patent inodorons rubher, which is very durable, und eapable of withstanding tmpucal heat. The bug is tilled to uny required capacity with water or other liquid, which may be nedicated with any requivel drug, and used at any requisite dngret of temperature. I tube, in which is a tap which must at first be closed, is then attached to the bag, amd thi later is placed on a spring hoard in a neatly finished, Hattened box, the lid of which is closed on the bag, whilst the tube passes ont through an aperture in liont. 'The hox being then arranged in any com conient pusition, the outer free eme of the tube is next

phaced in situ；and the tap heing turned on，the instrument is used．The hag antomatically fmpties itself，and the How of liquid therefrom is gentle．cquable，and easily regulated by the height at which the box is placed，as well as by the degree to which the tap is npened．No effort on the part of the patient is necessary， and the patient may of conse be in any convenient position in bed－ room，bathronm，or w．c．As the liquid in the bag retains its warmth for an hour or two，it may be carried ready for use hy doctor or musse to the patimat＇s house．＂The＂Compendium＂may be used as an enema，or as a donche to vagina，ears，nose，nr posisihly eyes，or for the irrigation of wounds，as bags of any capacity up to two quarle，or cwen a little more，are made and can be fitterl to the instruments．Tlie hags can also be nsed as hot water bags by screwing in the stnpper instead of the efferent tube；and for rectal alimentation the＊small＂Compendiums＂appear to be thoroughly adapted．
The apharatu can be purchased（wholesale）of Messis．A． lintchinson and Co．， 70 ，Lasinghall Street，London，E．C．：of all chemists：and of the inventor and patentee，Miss M．P．Browne， 9，Blandford Square，N．W．The price is one guinea and al half．

## SAbTS IMPROVED RFADING．WRIT！ EASBL． <br> GREAT and sometimes pemanent erils，especially in gitls hetween

 the ages of 12 and is，flow from the habit of studying for 1 ro－
onged periods in a cramped and unnatural posture，wherein the read is bent unduly forward，and two or three of the cervical ret－
tebræ are made to project beyond their proper curve．Much of this evil may be traced to the use of desks whose slope approacheo too nearly to the horizontal line．and is incalimble of being varitd so as to suit the different heights of individual pupil．．
Mr．Salt，of Dirmingham，has devisel at lesk or fasel（figured below）which appears likely to obviate many of these untoward results；it is eyeable，portable，and inexpensive and when either folded or expanded for use，forms a pretty and moltinsive article of furniture．
The flap which is to support the reading，witius，or dratring materials has a bead to prevent them from falling off，and is so arranged that by a puir of quadrant jointe，one on either sirle，it may he raised of lowered from the perpendicular to the hovizontal position，or any augle between the two；moreover，hy a series of notcles，the woodwork carrying the desk can be elevaterl or de－ pressed，so as to suit the stature of different pupils or the conve－ nience of an individual whens sitting or standing．l＇rovision is made for the reception of ink amb pens，and the whole apparatus can be folded into a small space so as w le earried．

The College of State Myinicine－The following lectures duriug the summer session will be given in the thantre of the Chemjeal Society，Burlingtou House，on Wednesday afternoons，at 1 oclock：－lntroductory lecture，May and，R．Brudenell Carter． F．li，C．S．，＂The Ams and Objects of State Medicine．＂May lith： Profesor H．G．Seeles，F．R．S．，＂Soil in its Intuenee on llealth．＂ May buth，funpedor－（ientral John M．Hactonald，M．I）．，ド．R．S．． ＂the Organisms oceuring in I＇resh Water，and the Hygienic lmportance of their Presence．＂Jume I Sth，G．Fleming，Esq．． LL．D．，C．B．，entc．，＂Enme of the more lmportant Disease．（ommon to IGan and Animal：＂Junce 27th，Sir Robert Rawlinson，K．C．B．． ＂The Rise and Progren of Sanitary Kngineering within the
 ＂he－ponsibility and Disease．＂．lll those interested in public health work are invited to bee present．Further information apleats in our alvertising colnmos，ny may be mbtained of Surgeon－General formish，the Homoraty Sicretary，2th，King William Street，W．C．

 －pread of variola among the labyle a mative tribe in Ngeria． They practise inowlation by megns of and inci－int between the thumb and the index finer．which not intrequently elegenerates into an nleerated wenme，slow to heal，ant giving riw to intlan－ mation of the lympatics and phemmonore erysipelas．In one instance a mative pedar，on hic wethrn from ilgime．developed cymptoms of small－pmx．Immediately the whole trite ru－laed to his tent for the purpase of procuring the material for inoculation． athd from this trithe ats atarting point the disense rapidly spreal zunng the neighouring trihes far and wide．Among a popula－ tion ol 13． 133 ， 710 case＇s of grave and conthent suall－pox oc－ curred，with ot death，equivalent to $\therefore$ io per cent．of the inhahis－ tants，and 18.2 pre cent．of the chases．Dr．I＇rengrueher recommends compulsory vaccination．

The：Medico－Legal Socioty of New York annonnce that the time for sending in the competition essars on subjects within the domain of medical juri－prulence or forensic medicine，has been patended to June lit，にin．

## HRITISH MEDICAC ASSOCDATION. SLBSCHHTLONS FOR 1888.

 1st. Dembers of Hennches are requested to pay the same to their resuectiv. Secretaries. Members of the Associntion not bedonging to dranches are requested to forwad their remittances to the (ieneral sectetury, $4=9$, Strand, London. Postnlliee orders shonld be mate payable at the West Central District Oftice, High Ilolhorn.

## The Gritisl) Aterical ammat.

## SATCRDAL, AHR1L I TM, 1888. <br> TH1: $110 R S E$ TAS.

"Ins propesal of the Chaterellor of the Exencencr to impose new dutices on homes and whicles matmally prosokes opposition. Taxes which increase the expense of locomotion are not only irksome to those who have to pry them. hat they increase the const of antides-especially heary mes-whid have to be moved from ome lreality to another. 'The inswer to onjections to the fromsod arw taxes is that the mantename of roats necessarily involves expenser, whinh have to be defraver from some sumece. and that it is fail that those whon ase and wear ont the maths shond contribute to wone prortion of the cost of their repmir. Such an answer is weirhty. and it serems impossible to deny that in primeiple the proposed taxes are fair emough. thongh their incillence, unless modifierl, secms likely to be mequal. Hany ditlerent interests have made themselves hearl, emh with the objeer of shwing that it is entither to some relief or exemptima, and at present the question as to what exemptions, if any, are to be allowed is still moletermined. We notice, however, with satisfaction that Mr. (ioschen seems disposed to view farourably the claims of $\mathrm{p}^{\text {rofessional men : and that two classes, }}$ nancly, country clorgynen and ifoctom; (on whom the proposed taxes would press hearily, semm tar hate a chance of obtanume rolicf.

It has been rishtly myed on their behalf that they use hases
 ing on their professim, ame that at tax on such things is manar. It is achmitterl on all hands that things necessamily used in at trade on business shonld. if possible, be exempt from taxation. and, as regards mats and hemses. Itr. (ioschen has ifonn the first proposed that those nsed for farm pmoners, thongh usually heary, and therefore destructive to the roads, should be mitaxed. The cise for tho county dretor seems at least as strong. There his vehicle is nsed to convey not peods but himsclf, bint he is reguired to trabel for the benctit of other perplo, and his carriage, being liorht. Ines not coruse very much wear and tear to the roads. Most practitioners, if they had their chrice, would probably profer to he visiterl hy their patients in a consultingroonn rather than to bo olliged to driva fong distances, often in had weather, to see thom at their nwn lomes.

Nor once as far as we are aware, has disputed, or ean dispute that earriages so used ly professional men are mot generally use fur pleasure, and few womld olject to their chaim to partial. not total, excmption from the proposell taxes. We are gland $t$ he able to peoint $t$ a precelent which shows that such claim
 in assessing the duty ehargenhle in respect of any puldice ollice in emphement. "the expenses of travelling in the perform ance of the duties thereof. and of keeping and maintaining: hurse to cmahle " the persom chargeable "to perform the same: are to be denlucted lofore the ineme chargealle is ascertained It is, therefore chenr that in sume cases loemotion is considerem ley law as a matter of expense, tobe deducted before a man camings anc ascertamed. In fact, and ins the publice extimation a ductur's carriage is qememally as mull a part of his professima cutlit as his instruments or his library. Acomeding to modern ecommieal science, tases should not be imposed on sueh things and we venture to hope that Mr. Gosehen will be able to carry out his half expressed intention. and to give to strugsling f wo fessimal men the exemption which they need, and which, (1) prineiple, they ouplt to have.
'HUERAPEUTIC STVDIES.
 Diselases.
The recent literature of this still umsettled department morlicine has been lately ably reviewed ly Dr. Boas in the hortiner Klin. Worlenserlyift, Nos. 6 and $\overline{7}$, and the riews of the partisans interester in the question are fairly remdered.
appears that the Congress fiir inmere Mediein aftorded oppor tunity for reopening the much disputed question of the absence of free hyrdrechlorie acid from the stomach when there is cancel of that organ. This ahsence has been asserted by so many clinieal onser vers for many years now that it has become a point of great importance. Cahn at the ahowe-naned comgress remarked on the umreliability of our present rongh tests for HCl (ompared with the titration methocl, whiel never failed to grive indications of the presence of Het. The failure of colonr testat revel H(Cl lepemls, in his opinion, upon the acemmalation of the prohlucts of digestion :thel thu less of er elimimative autivity:" This failure howerer, is wot constant. for Cahn hims.lf has repurten a caso of hymer-secretion of acd in pylaric cancer. Riesel, vom Nourlen, and Sticker holk ont for the value of the rectermination of the presenee or absenee of HCl . in the diagnosia of cancer. Noreaver, ron Noorken and Honigmam (Zoitsche of. Fitin. I/erf., Br, xiii, H. J) find that the HCl residuc, nlways found to be present even in eancer when the titration method is employerl, is due mot to freo HCl., hut to combinatioms of tho latter with allbumens. They" "therefore, nphold the value of the eabour tests. But another difticulty arises, inasmuch as many Wherers have proved that HCl may be eonstantly alsent in chromic grastric catamblak as woll as in atroghy of the gastric. muens membrame. Jawnoki and Clwinsky have monrtel such


Grundzach (Berliner Klin. Wochenschr., 1887, No. 30). The latter observer found that HCl was constantly absent from the stomach in five out of more than a hundred non-cancerous persons. Wolff and Ewald (Ibid, No. 30) strike a still stronger blow against the theory that the absence of HCl from the stomach is 'pathognomonic of cancer. In eight persons-some quite healthy, others with only slight gastric disturbance-they, found that free HCl was constantly absent, and even the administration of this acid made no difference.

Turning now to the colour tests of HCl , of which there are a great many, Congo-red is declared by Riegel to be a perfectly satisfactory preliminary test; Günzhurg advocates phloroglucinranillin; and Boas prefers tropæolin paper. But here, again, there is a great disagreement, for Günzburg maintains (Centralb. f. Klin. Med., 1887, No. 40) that the usual colour tests, namely, gentian violet, tropreolin, and Congo-red, are affected by the organic acids also in varions degrees of concentration, and Boas specifically states that a 0.03 per cent. lactic acid solution will canse a weak but distinct blue in Congo-red paper. Arlt (Ibid., 1888, No. 3) and Kuhn (Inaug. Diss. Marburg, 1857) argue that this is only true for a watery solution, hut Boas replies that the objection is superfluous, as he only referred to free lactic acid. Boas has had a troprolin paper prepared which discriminates between HCl and lactic acid, and is declared to be highly satisfactory as to cheapness, simplicity, and distinctness of result. A percentage of HCl even below 0.05 is easily recognised thus, and the presence of even 5 per cent. of organic acids makes no difference. Moreover, the degree of coloration with HCl affords an indication of the quantity of the latter present. Günzburg's test is also extremely sensitive and reliable, but less simple. Two parts of phloroglucin and one of vanillin added to thirty of absolute alcohol give a yellowish-red solution. One drop of this in contact with a traee of a mineral acid gives a fine red coloration, red crystals being precipitated. Organic acids, even when concentrated, do not affect this test. In using it, a few drops of a filtrate of the gastric contents (usually obtained by a sound) are mixed with as many of the test solutions, and the mixture is carefully evaporated over a small flame, a bright red colour appears at the margin of the liquid. The test indicates up to 1-20 per mille of HCl . Or a drop or two of the test solution may be added to a few drops of the unfiltered stomach-contents on a strip of pajer. On well warming over a flame the red spot indicating HCl appears; it is not affected by ether. As before said, the absence of HCl in gastric cancer cases is attested by so many different observers as to make this sign of importance diagnostically, notwithstanding that a few cases to the contrary are cited, besides many negative cases, that is, cases in which HCl was found to be absent but in which no cancer was present.
Next in interest to absence of HCl comes hyper-acidity of the stomach. This condition is associated with hyper-secretion of gastric juice, according to Boas, who argues that (1) chronic byper-secretion without hyper-acidity has never boen observed; (2) the subjective symptoms are not the result of cxcess of the gastric juice, but of its abnormal acidity; if this is removed they
at once cease ; (8) in gencral the two conditions go together, increasing and diminishing pari passu. The amount of acid juice in a fasting stomach must be about 100 cubic centimètres to constitute hyper-acidity, according to this observer, who lays great stress on the quantity. Riegel and his disciples, on the other hand, maintain that the two conditions are to be entirely separated from each other; Honigmann, in particular (Mïnch. Med. $W^{r}$ rchenschr., 1887, No. 48), states that there is no connection between them ; but both Riegel and Reichmann (Berlin. Klm. Wochenschr., 1887, Nos. 12-16) allow that there are trunsitions.
Taking hyper-secretion apart from hyper-acidity, Reichmann, who has carefully studied this subject, distinguishes continuons from periodical hyper-secretion. The latter is a symptom of derangement of either the central nervous system (tabes), or the whole nervous system (neurasthenic dyspepsia, hysteria), or else is due to local disturbance of the secretory nerves of the stomach. The crises gastriques of Charcot, the periodical vomiting of Leyden, and the gastrosynsis of Rossbach come under this category. The typical hemicrania and periodicity point to a central causc, and not to mere irritation of the stomach from accumulation of juice in the fasting condition, as Reichmann would have it. In such cases the acidity is lower than the normal. As to continuous hyper-secretion, this is a condition quite unexplained as yet, for it is no explanation to say that there is "increased irritability," and "lessened absorption" is not a constantaccompaniment of this state.
We come now to the etiology of hyper-acidity of the gastric juice, a condition occupying the foregromid in recent investigations. Riegel has constantly found an excess of acid when chronic ulcer of the stomach is present, and maintains that the latter is due to hyper-acidity per se. The frequency of this coincidence, though it is not absolutely constant, is asserted by so many other observers-Ewald, Korczynski and Jaworski, van der Welden, Rothschild, ancl others-that it may be regarded as established. Again, Decker, working in Leube's clinic, has made experiments on dogs loy injecting small quantities of hot fluids into the stomach (Berlin. Klin. Woch., 188T, No. 21); in one case :un extravasation was produced between the mucous and muscular coats, the mucosa being intact; in another case two typical round ulecrs were caused, close to the pylorus. Decker thinks that the continual ingestion of hot substances (including liquids) is the most frequent cause of uleer, and cites a case in support of this. Ritter has experimented on animals in another way, nanely, ly direct injury to tho gastric mucous membrane (Zeitschr. für Kilin. Med., Bd. xr, H. 5. 6), but lesions so cansed heal too rapidly, as Cohuhein has shown, to allow of any inference from them to chronic uleer in man. Ritter and Hirsch have recently asserted that hyprer-acidity is ly mo means so common in gastric ulecr as has been supposed (Ibid. Bd. xiii, H. j), for they fomd this condition only twice in five cases of ulcer; and Boas has seen two cases with all the symptoms of uleer, but with normal acidity; these cases, however, he declares are exceptional. The test meals selocted by Rittor and Hirsch, namely, egg and milk, are said to be unsuitable for ascertaining
the awidity of the gastric jnice, as being highly albuminous; starch is the proper food for this purpose, as the results of Ewald, Sticker, and Boas prove.
As to the final results of excossive acidity, Jaworski (Mürchen. Med. Hochenschr, 1857, No. 7) has followed up several cases of round ulcer, and found that after several months the formation of acid ceased altogether. Boas observed the same result in dilatation of the stomach, but observes that such cases are exceptional, and that the aim of treatment must be, not the provention of the gastric secretion, but its regulation.
As to atrophy of the gastric mucous membrane, Ewald, Lewy, and Boas have published cases. The latter mentions sharp radiating pains in the epigastrium as important in the diagnosis, also absence of ceagulating ferment (besides absence of hydrochloric acid and pepsine). See Berliner Klin. Woch., 1887, No. 1; Münchener Med. Wochenschr., Nos. 42, 43.
Ewald and Sievers have used salol in the diagnosis of dilatation, as this substance passes unaltered through the stomach (Therap. Monatsh., I887, August). The presence of salicylic acid in the urine tras ascertained in about twenty or thirts minutes after giving salol, and at the latest after an hour, so that its absence for a longer period than this would indicate dilatation of the stomach (from pylorie stenosis). The appearance of salicylic acid in the urine was hastened by faradisation of the gastric region. But Sahli throws a doubt upon the certainty of the salol test by his assertion that fission-fungi can decompose salol-in other words, that fermentative changes in the stomach may cause the destruction of salol within that organ. But such changes always requiro a considerable time.

## SEWERAGE OF MARGATE.

The inhalitauts of Margate have at last been brought face to face with the sewerage question; and a thorough systen of tubular drainage, as some people torm pipe or brick sewers, has been fully determined upon.

Few people who visit Margate year after year had realised the fact until the light of public opinion had been brought to bear upon it in the press, that the only system of sewerage was the cesspools of bygone days. Visitors, indeed, would naturally soldom think of the subject at all, and even many of the residents only discuss it whon it is brought prominently before them, and quickly dismiss it again as distasteful.

As was recently stated in our columns, "the reason why the evils attending the cesspool system have not been fully recognisod and remedies applied, is that cesspools afford a ready means of getting rid of a troublesome matter, and being out of sight are out of mind, requiring at positive outbreak of disease from bottled-up gases, which must sooner or later occur, to bring about is change. It is only the remarkable salubrity of Margate, and the eleantiness which so generally prevails, that have up to the present time served to counteract the evil results of the cesspool system."

We therefore heartily congratulato Margate that proper drainage of the town has been finaily determined upon, and that the
demands of the-visiting public, upon whom the trade and pro sperity of the town depend, have been acknowledged. As $D_{1}$ Rowe pointed out the other day, the immediate welfare of Mar gate depends upon two classes of, visitors-those whe go theri for pleasure, and those whe go there in search of hoalth. Thest searchers after invigorating breezes demand efficient sewerage coupled, as it must be, with the absence of all bad smells in the streets, and the certainty of obtaining good drinking-water anc pure sea-bathing. These three desiderata are absolutely essential and each of them is as much a sine quänon of Margate in the futur as they have been in the past. It therefore behoves the in habitants to pay special attention to and carefully examine any sewerage scheme which may be submitted to the Corporation, 8 c that no plan may be adopted for the sake of economy, which may prove a worse remedy than the disease itself. : Whatever it to be done must be done once and for all, and that which is most suitable to the place and its permanent residents will proye most economical in the long run.
The disposal of the sewage is by far the most difficult part 0 the whole question; failure here would prove disastrous to the town, and we certainly sympathise with the large body of burgesses whe demand a more thorough investigation of the subject at the hands of the Council than this poiut has yet received The Council, it would appear, have already to a certain extent pledged themselves to the plans of an engineer certainly an eminent one - who is brother to the borough surveyor, and who, unfortunately, has declared himself in favour of turning the raw sewage without any purification into the sea at no great distance from the town. The majority of those who, have given their attention to the subject, on the other hand, do not relish a soheme which is distinguished by a feature which may detract from the pre-eminence which their town has gained for itself. These burgesses would "draw the attention of the Torm Council to the extreme desirability of inviting plans for the serverage of the borough from other eminent engineers than the one solected, and wish their plans submitted to an independent umpire of well-known repute." Moreovor, they, are, willing to pay for this advantage, even though it would iuvolve an outlay in fees of four times the amomnt of one. In the case of Margate, which is exceptionally placed, we must ; confess that wo quite agree with this expression of opunion, particularly as the selected engineer recommends a plan which, as we have just said, is oljectionable to a great majority of the inhabitants.
Two broad points are involved, and must be met and settled:
I. The turning of the sewage in its crude state into the sea, and
2. The cloansing of it through land before discharging it into the sea.

We consider that there ought to be no hesitation in bringing under review the whole question by the comparison of several schemes embracing other treatment than mero discharge into the sea; for it ought not to be forgotten that Margate is situated on the chalk, the absorptive and purifying powers of which are well known, whilst with regard to the discharge of the crude sewage
into the ocean, not only must the burgesses be satisfied as to the currents never washing it back again on to their bathing-ground, but they must bear in mind that the Metropolitan Board of Works is threatening to dischargo some 3,000 tons of sludge daily into the sea, off the Nore, and that if they themselves canse a nuisance from the discharge of 'their own sewage, they will necessarily be unable to resist what appears likely to prove a gigantic wrong to the North Kont watering plaees.
Details as to whether compressed air or steam should be used to lift the sewage are at present quite out of 'place; the disposal question, for which everything else waits, must first of all be settled, and we trust that the judicious proposal of the ratepayers will be.immediately acted upon by the anthorities of lthe rorough.

MEDICAL OFFICERS OF HEALTH AND THE NEW COUNTY BOARDS.
Lx the lahours of the State Medicine Committee of the British Sedical Association, in which Rumsey, W. H. Miehael, William Farr, Acland, aud A. P. Stewart did so much to prepare the วasis and mould the form of the Public - Health Act, great stress was laid upon the creation of an "Intermediate Authority," for :anitary administration, such as the County Boards, which at ength Mr. Ritchie's Bill will create. One of the chief functions ff such an authority is its sanitary function, and one of its most mportant officers should be a medical officer of health. Neverheless, Mr. Ritchie, actuated probably, by the fear to disturb to the peril of his great measure) the status quo, has left the Jounty Council without a medieal officer or staff. It is alike in the interests of the medical officers and of the county that the nedical officers of health should in future hold their appointnents under the County Councils instead of the District Jouncils, as arranged in the Loeal Government Bill. We are Ind to see that the Council of the Society of Medical Officers of Fealth are prepared to alopt that view, whieh we have for so nany years advocated; and we trust that means may be found o bring it prominently under notice in the House of Commons in the discussion of the Bill.

We are informed that the Galen Club, Sackville Street, will be sqened to members after the first general committee meeting, which is convened for Wednesday next, April 18th: Tbe opening linner is fixed for Thurslay, April 26th, and it is desired that arly application be made for tickets.

The hospital which was founded some time since at Bahia Prazil) for the treatment of beri-heri has recently been closed, n spite of the protest of the local medical men, who urge that, in lew of the rapidly fatal effects of this disease, it is unwise to leprive them of the opportunity of studying its etiology, course, and treatment, all of which are at present enroboped in bscurity.

A NURSING SCHOOL IN CAIRO.
i proposal to establish a Nurses Home in Cairo attached to the Casr-el-Ain Egyptian Ilospital, and the introduction of a few rained Laglish nurses to control and educate female native
nurses in the performance of their duties, was submitted to the Khedive by Sir Sydney 11. Waterlow during his recent travels in Egypt, and met with ready acceptance by His Highness. The mecessary money for this year has been promised by the Minister of the department controlling the hospital, and is to be taken from the Reserve Fund. The scheme is to come into operation at once, and the nurses are to be sent out by Sir Sydney immediately he returns to London, carly this mouth, and they are expected to be on duty by May Ist.

## MEDICAL WOMEN IN THE METROPOLIS.

We understand that Miss Macdonald, having passed through the recognised course of a medical school, has been admitted by the Society of Apothecaries to examination for its diploma in medicine, surgery, and midwifery. Subject to the same condition being fulfilled, the Society will henceforth admit any lady to its examination.

## EPSOM COLLEGE.

The Duke of Cambridge will be present at the twenty-fourth festival of the Royal Medical Benerolent College, Epsom, which takes place on Tuesday next at the Hôtel Métropole. Of the success of the festival. itself as a social event there has for some time been no doubt, but it may be said that those who are prevented from being present can yet contribute to its success from a financial point of view; and we may remind our readers that Dr. Holman, of Reigate, the Treasurer of the British Medical Associntion, fills the same responsible office in the Royal Medical Lenevolent College also.

## PHOTOGRAMS OF THE EYE.

IN the recent (sixtieth) Natnfforscherversammlung in Wieshaden both Dr. Claude du Lois-Reymond and Professor Cohn exhibited photograms of the eye obtained by, means of the "lightning" illumination (discovered by Herren 'J. Goedicke and A. Hiethe, Berlin, S.W.; Ritterstrasse 7.4). The illumination is so sudden and fleeting that when it occurs in a chnmber in previous absolute darkness, the pupil has not time to contract, and thus the maximal dilatation can be represented on photograms. It is hoped that by appropriate arrangements the retina can be thus photographed during life.

## THE HORSE TAX.

Perritoss against the horse tax and increased carriage tax, hare heen presented during the week by Mr. H. S. Cross, from Dr. Jobn Johnston; by Mr. R. Donkin, from tbe practitioners of Tynemonth; by Mr. F. B. Mildmay, from the practitioners of Plympton; by Sir E. Reed, from medical men of Cowbridge; by Viscount Curzou, from Burnham and High Wycombe; by Mr. F. S. P'owell, from the Wigan medical profession; by Sir R. Temple, from the medical professiou of Evesham; by Mr. T. Milvain, from the medical profession of Durham; and by Mr. Mound, from Dr. Nicholls. Clacton-on-Sea.
DEFORMITY OF THE HANDS IN GLASSBLOWERS. At a meeting of the Académie des Sciences, on March 26 th, M. Poncet, of Lyons, drew attention to a peculiar deformity of the hand in glassblowers which, according to him, had never before been noticed. It consists in permanent flexion of the fingers on the hand; the little finger and the ring finger are more bent than the middle one or the index; the thumb is not affected. The Hexion is most marked in the second phalanx, which is bent almost at a right angle to the first. The deformity is not, according to 3 . Poncet, due to fibrous bands, but to retractiou of the flexor tendons. The phalangeal joints are more or less deformed, and show a teudency to subluxation. Most glassblowers suffer from this deformity, which as a rule gets steadily worse as long
as they continue working at their trade. The deformity is cansed by their having to hold a metal tube, neer three feet long and weighing alout four pounds, which they have to keep constantly tuming with their closed hands. They do this on an average eight hours a day, so that it is not surprising that even after a month or two complete extension of the fingers becomes difficult, and in a short time impossible. The deformity when fully established is permanent. It is known among the workmen themselves by the name of mains en crochets (hooked hands).

## THE LONDON HOSPITAL.

The Lord Mayor, who was supported by the Duke of Cambridge, presided orer a meeting, held on Wednesday last at the Mansion House, in aid of the third quinquennial maintenance appeal for the London Hospital. The Lord Mayor, in the course of his speech, obstrved that while the hospital was spending $£ 50,000$ a year, it had a reliable ineome of only $£ 16,000$. At the close of the meeting the Secretary read a list of subscriptions and donations which had been received or promised amounting to $£ 6,500$.

## HEREDITARY POLYDACTYLY AND ANOMALY OF DENTITION.

Iv the Naturforscherversammlung recently held in Wiesbaden, Herr Thomas, of Freiburg, brought forward a case of the above-named anomaly, which derived especial interest from the fact that there was also bereditary malformation of the teeth. Polydactyly had existed for several generations in the father'a famuly, and similarly dentitional anomalies affected the mother's side. Some of the teeth were always wanting, and the primary dentition in many cases persisted for a long time. The offspring combined both kinds of irregularity, for one child, aged 11 years, exhibited, besides polydactyly, only two upper and no lower incisors. Milk teeth were present, and there was a corresponding defective development of the jaw. A brother had six fingers on one hand and seven on the other, also six toes on each foot; one pair of fingers had grown tagether ; all the rest, together with the toes, were separate and well formed; the condition of the teeth in this caso is not stated.

## german congresses.

AT the seventh German Medical Congress just held in Wiesbaden, the following papers, amongst others, were read: On Wandering Jleart, by IIerr Rumpf (Bonn); Experimental Investigations of the Mechanism of Respiration, by Herr Unverricht (Jena) ; an Address, by Herr Liebreich (Berlin): on Combined Degeneration of the Spinal Cord, by Ilerr Adamkiewicz (Cracow); Fxperiments relating to the Dietetics of Digestive Derangements, by Ilerr Jaworski (Cracow) ; an Address, by the same; the Treatment of Dasedow's Disease, by llerr Stiller (Buda-Pesth); the Diagnosis of Renal Tumours, by the same: the Excretion and Solution of Uric Acid, by Herr Emil l'feiffer (Wiesbaden); the l'athogenesis of the Epileptic Attack, by IIerr Binswanger (Jena); on Cryptogenetic Septic l'yamia, by IIerr Jürgensen (Tübingen).-The serenteenth Congress of the ficrman Surgical Socicty was opened on April 4th, by l'rofessor von Bergmann, in the Aula of the University of Berlin. Reh.-Rath l'rnfessor König was chosen Vice-President of the Congress, and he initiated the scientific proceedings by an Address on the Prognosis of Cancer. Professor Gluck will edit ron Langenbeck's Lectures.

## the spread of infectious diseases.

AT a recent meeting of the Clinical Branch of the l'reston MedicoFthical Society, Dr. J. A. Rigby rearl a paper on this subject, whieh contained numerous illustrations derived from his own experience of snme of the methods by which infectious diseases are propagated in Preston and its neighbourhool. The Preston Fever
llospital is only open to these ahle to pay 10 s. fid. per week f their maintenance; consequently the only means of isolatic a vailable for the poorer classes of fever patients is that which ce be practised in their own overcrowled houses, with the alternatio of their removal to the fever ward of the workhouse, should 4 guardians be willing to admit them. Naturally the hard-workir and deserving poor refuse to be pauperised for what is no fault . their own; and the result is the uncontrolled spread of infection diseases, which is sufliciently evidenced by the high zymot death-rate which has been characteristic of I'reston for mar years. It seems almost incredible that the authorities of a ton like Jreston, which is notorious for its high general death-ra and the excessive mortality which prevails amongst children und five years of age, should lave so long disregarded so ready means of controlling by isolation the spread of infections di eases. As Dr. Rigby has pointed out in his paper, "in the case all dangerous infections diseases, the State or the municipal al thorities ought to be prepared to bear the burden of the expen of protecting the remainder of the people, and not expect tl infected people themselves to bear it."

LOOSE BODY IN THE ELBOW-JOINT.
In the Gazette Médicale de Strashourg of April Ist, Dr. G. Breck relates a case which is of some interest in connection wit views which have recently been expressed as to the nature an mode of origin of loose bodies in joints. The patient, a stronf healthy man, aged 45, fell from a ladder on his left elbow. In mediately after the accident he lost all power of movement in th forearm. When he came under Dr. Becekel's care some tw months later, movement was found to be very limited and pair ful, both pronation and supination being accompanied by gratin in the joint. Between the olecranon and the external condyle the humerus a hard body was felt projecting slightly, which coul be moved laterally to the extent of some millimètres. Dr. Bock was under the impression that he had to do with a case of ol arthritis deformans, which the injury lad started into renewe activity by displacing an osteophyte. He cut down on the loos body, and with considerable difficulty removed it, when he wo surprised to find that it consisted of half the head, with a sma piece of the neck, of the radius. The patient made an exceller recovery, and in three weeks from the date of the operation ha so far regained the use of his limb that he was able to do ligh work with it. Dr. Beeckel said that this was the first case h had met with in which the loose body was a fragment of articule surface broken off by violence, and he took the opportunity : formally recanting a different opinion to which he had recentl committed himself on the subject. In fact, less than a year as (Gaz. Med. de Strasbourg, 1887, No. 11, p. 121) he had maintaine that such a mode of origin was inadmissible, the loose body bein in all cases formed by vegetations springing from the synovis membrane or the articular cartilage.

THE PHENOMENA OF DEATH BY DROWNING. IT the recent Congress for the Alvancement of Science at Oras (Algeria), Dr. l'aul Loye brought forward some observations mad by him, bearing on the phenomena which precede death by sudder immersion. The first stage of deep inspirations lasts about tel seconds, followed by a reaction cansed by the resistance to th entrance of water into the bronchioles. This lasts for a minute and is succeeded by arrest of respiration and loss of conscious ness. Finally, the scene closes with four or five respiratory effort -the last. Immersion causes an immediate rise in the blood-pros sure, with slowing of the heart-beats. The action of the hear remains slow but strong till death ensues. The pressure graduall lessens, but rises just before death, to fall to zero immediately, afterwards. The beart sometimes continucs to beat feebly fol
bont twenty minutes. The result is the same in animals which been trachcotomised: the period of respiratory resistance s , therefore, due to the respiratory muscles, and not to spasm of he glottis.

## NATIONAL PENSION FUND FOR NURSES.

(FEW words will sum up the finance of this fund. Some people cem to think the annual payments needed to secure pensions and rovide against sickness rather heavy. We give at p. 815 the analysis if the figures in some details. Briefly, a pension may be secured a this fund at rates 7 per cent. lower than in the Post Office Government) annuities. Further, the Government payment is a aximum and deroid of honuses; the Nurses' Pension Fund gires his as a minimum and will provide bonuses. Further, the Nurses' 'ension Fund is wholly "mutual," so that if there should be a urplus the insurers receive the whole benefit. It may be dded that the generons donors who have prorided the deposit I $£ 20,000$ also provide that the dividends thereon shall devoted to the payment of working expenses; and he Council of managers are unpaid; they comprise the names f leading city authorities as well as eminent medical men. To sucl opportunity can be again anticipated for women f the nursing profession to provide for themselves by reasonhle and moderate payments. The medical profession will, we reconvinced, not fail to impress upon those nurses with whom hey come in contact the duty of self-help, and the importance of vailing themselves of the thoughtful munificence and well-deised administration which is now provided on their behalf. lany medical men, we are glad to see, are taking opportunities of ringing the matter under the notice of the nursing staffs of the lospitals to which they are attached. They could render them 10 greater service. Hospital committees, it may be pointed out, aight provide for their nurses the whole amnual sum necessary by nstituting a just and useful reform in the external economy of heir institutions by providing the nurses with' washing free, which rould set free for the purpose of providence at least £ $\downarrow$ a rear for each nurse. Sorue of the best managed hospitals do this Irendy. Documents may be obtained from the offices of the fund, 8, old Jewry; E.C.

## ANOTHER SPECIAL HOSPITAL SCANDAL.

$T$ is one of the many lamentable features connected with the aultiplication of special hospituls that many of them are the eats of continually recurring dissensions and seandals. Comaratively recently we have had the resignation almost en masse of the staff of the Throat llospital, and the creation of a new preial hospital hy the dissenters. Then came the Jubilee dospital suit, and the charges brought against the administration if the St. John's Hospital, following upon various secessions in hat staff. We hear now of a fresh incident of a similar kind in onaeetion with the Cancer Hospital. The alitged cause of the nittle is a difference of opinion among the staff as to the perormance of a particular operation; but that such differences of prinion should lead to suspensions or dismissals, resigmations and Gnl proceedings are among the peculiarities of the atmosphere which seems to pervade special hospitals, and which tend so oitten o render them sources of professional discredit. The multilication of special hospitals has always been regarded in the rofession as a source of misehief and danger, and has been anre than once the suljeet of grave protest by leading medical wathorities. The frequency with which these disagreeable incilen:ts of administration have attracted $p^{m b l i c}$ attention will have s youl efliect if it does something to lessen in the future the mulaplication of useless establishuneuts of the kund, and to impress spon the charitable publie the necessity for a more stable, sound widministration of the minor menlical charities, which are so often nultiplied without due thought_or any real public reason for
existence, but rather in obedience to selfish impulses and to further personal objects. So many of the little hospitals nowadays are created rather for the purpose of the staff than to meet a public necessity or to fill any felt want, that it can hardly be surprising that institutions commenced with egotism should end in disrepute.

## THE WOKING CREMATORIUM.

The Duke of Bedford, the Duke of Westminster, Mr. Arkwright, Mr. Budget, and Mrs. Crawshay lave each forwarded a cheque for $£_{100}$ in furtherance of the erection of a chapel, waiting-rooms, and lodge at the crematorinm of the Cremation Society of Great Britain. The proposals and plans for the crection of these desirable buildings at the crematorium were put before the Council of the Society by the President, Sir Henry Thompson, at the meeting of the Society held on Tuesday, at which Sir Spencer Wells, Bart., Dr. Cameron, M.P., Dr. Farquharson, M.P., Sir Donglas Galton, C.B., the Rev. Mr. Haweis, and others were present. It was announced at the same time that, whereas the number of cremations that had taken place at this crematorium up to December was only twenty-five, during the last three months there have been no fewer than eleven cremations. A sum of $£ 5,000$ will be required to erect the proposed chapel and waiting-rooms. It is highly satisfactory to note, in the interests of public health, that cremation has made so rapid progress in public favour since the publication of Sir Heary Thompson's last paper on the subject answering the objections urged, and reiterating the many arguments in favour of ura burial. The example of persons of so much social influence and sober judgment will, no doubt, go far to accentuate the rate of progress, and it is much to be hoped that the proposed chapel may be provided by public liberality with as little delay as possible.

## "a sea voyage."

The prescription "a vopage in a sailing ship" is sometimes too lightly given to patients suffering from pulmonary disorder. Some of the discomforts as well as the actual dangers to such patients, which must be run, are well described in a letter recently addressed to his physician by a medical man in delicate health who sailed for New Zealand last autumn ; he says:-
"I think it would be a matter of much importance to point out to medical men how much depends on the ship in sending patients for a long sea royage. Many of them-London medical men-are quite umarrare of the risk and actual hardships that have to be undergone on board sailing ships not purposely fitted up for the comfort of passengers. Most people now tratel by steamer, and so but little care is taken regarding the victunlling and furnishing of the sailing slips. The hospital ships as they are called-the Sobraon, for instance, of the Devitt and Bloore line-are. of course, exceptions, and ly them invalids should go, or perhaps by the other slinips speeially fitted for the passenger trade. Besides not carrying food of quality and variety suited to invalids. ordinary ships go much too far south for chest cases. We were for about five weeks between latitude $45^{\circ}$ and $47^{\circ} \mathrm{S}$., and thougle it was midsammer the cold was intense, and the heavy sea and wet decks obliged us to keep below for a great part of this time. On one occasion a heary sea broke over the ship and flooded the saloon and cabin, everything was wet, and for a week or more the pluce was rery damp, and the store-heat caused constant steam. You may imagine how the invalids suffered. 1 mention these particulars to enable yon to form a julgment of what happens in the usual southern course of the sailing ships. The ships 1 mentioned above, Sobran, etc., do not go south beyond the Cape. after passing which they at once steer north again, and go to the east in latitute $30^{\circ}$ tn $40^{\circ}$, so that they never have cold, bleak wenther the whole way to Australia. In fuct, my experience amounts to this: that invalids lose as much during the latter part of the voyage to Xew Yealand as they gain by the early part (in the ordinary ships). I an sure you will believe me when I say this is a strictly accurate account. I am not actuated by any feeling of disappointment in my own case, lut merely by a desite to warn other invalids of the risks so little known."

A NEW METHOD OF OBTAINING VACCINE LYMPH lis puncturing vesicles for the purpose of obtaining a supply of lymph for raccination, there is always some risk of causing an admixture of blood, which. is undesirable and even dangerous under certain circumstances. A plan is suggested by Dr. Grigg which obviates this risk, and at the same time practically increases the supply of raccine material. He drops a little glycerine over the ripe resicle, and this, by a process of osmosis, withdraws the lymph from its interior without any solution of continuity in the delicate membrane which contains it. The lymph thus obtained appears to be fully as active as ordinary lymplu, and failures in primary raccinations were of extremely rare occurrence. It would scem from Dr. Grigg's observations, which we publish elsewhere, that lymph obtained: from very young infants, under a fortnight old, for example, is not only very scanty in amount, but is deficient in power, unsuccessful punctures not infrequently following raccination with lymph derived from this source. Another point of interest, although it is one which has already been observed by others, is that in cases where only one or two punctures out of several prove successful, it is generally possible to secure a more satisfactory result by reinoculation from those resicles which remain stationary until the maturation of the second crop, when they all fade amay together.

## THE EMPEROR OF GERMANY.

We are informed by special telegram from Charlottenburg that there is no change in the condition of the Emperor's throat.. II Majesty's general health, however, has, we regret to learn, suffered to some extent during the past week, owing to his enforced confinement within doors and want of exercise. It is probable also that the cares of State and worries of a more personal kind hare somewhat overtaxed the strength of the illustrious sufferer. We are requested to contradict the statement that Dr. Norris Wolfenden visited Berlin professionally; we aro informed that he went there on business of a purely private nature On Monday, April 9th, thà Emperor conferred on Sir Morell Mackenzie the Hohenzollern Order of the Second Class and Star, in recognition of his great and distiuguished services to His Majesty; Mr. Mark Hovell receired the Crown Order, Second Class, at the same time. In handing the insignin of the Order to Sir Morell Mackenzie, the Emperor addressed him in the following signifieant terms: "When you first came to Berlin 1 had confidence in you, because you were recommended to me by my German doctors; but 1 have since learned to appreciate your skill myself. I have much pleasure in giving you this Order, in recognition of your valualle services, and in remembrance of my accession to the throne."

## TEA-DRINKING.

The habit of ten-drinking is becoming more and more thoroughly national in the British islands as the century draws to a close. Fighty years ago, the practice was looked upon as a sign of effcminacy, a well-known patriotic ballad in praise of roast beef lauding the good old days, "ere coffee and tea, and such slipslops were known." Cobbett, in his Adrice to Foung Men, said, " let me bescecli you to resolve to free yoursel ves from the slavery of the ten-and-coffee and other slop-kettle." IIe thinks that his model young man should devote to the study of arithmetic onehalf of the time "usually wasted orer the tea-slops." In 1888 tea-drinking is universal. The poor and the rich have long been tea-drinkers; it is amongst the lower middle classes that the habit has recently spread to so marked a degree. Young men heginning life and the great army of eder men, so well known in great cities, whose duties involve nuch gaing about from one quarter of the town to another, are stealily recognising the fact that tea is better than alcohol at lunch. In real society and sham society the "afternoon tea" affords to that beverage the powerful eanc-
tion of fashion. The chief evil of tea-drinking amongst the poo is the practice of taking tea whilst it is very hot, so that it act both directly and indirectly as a cardiac stimulant, causin pleasurable feelings to the drinker, but at the same time irri tating the gastric mucous membrane. At the "afternoon tea" o polite society, too much is often consumed by the same person who may pay balf a dozen visits before the dinner-hour. Well bred people hate excess, and lislike to be seen eating and drink ing, nevertheless they are often antomatic in their doings, si that the fact that somebody is sipping tea often causos everybodi else in the same room to accept the offer of a cup, which is the simplest, tidiest, and least demonstrative way of refreshing the inner man or woman. The evils of tea-drinking hare lonf been recognised, or, at least, we kuow certain bad results, thougl it does not follow that others have not been as yet orerlooked The acuto objective symptoms of an overdose of tea are relatively trifling compared with opium-poisoning or alcoholic intoxication yet amongst them is romiting, and violent sickness under mosi unfortunate circumstances may be the result of dining or smoking too soou after taking tea. This accident may happen even to strong-stomached person, at a "high tea," "severe tea," or "teadinner," for, as Dr. Lauder Bruaton has shown, the tannin of the tea interferes with the digestion of fresh meat, whilst Dr. J. W Fraser has observed that it does not interfere with the digestion of ham, tongue, and other cured and dried flesh. Hénce a slice of tongre is better than a cut off the best joint at a "high tea," as at breakfast. Again, severe and intractable dyspepsia may follow tea-drinking, especially betreen lunch and dinner. Under these circumstances the tannin and the special alkaloid of tea mix with the half-digested food and gastric juice, the products of this abnormal mixture remaining till food is swallowed at dinner, or at least irritating the stomach so as to render it unprepared for the digestion of a good dinner. Several living physicians bare shomn, on the evidence of experience and of chemistry, that tea cannot be served up free from tannin, eren if it be filtered during the process of infusion, like coffee, and poured into a teapot free from leaves. What distant evil effects may be caused by tea-drinking, physicians hare not yet determined. Yet we know that it often sets up dyspepsia, which may cause several deadly risceral disorders; it also impedes assimilation, and the resistance to cold. More interesting is the question as to whether it may not induco disease of the circulatory organs by affecting the blood-pressure. On the nerrous system, both as understood by physiologists and by hypochondriacs, the habit may exercise a very bad influence. A true tea-vice is not unknown; even certain business men feel, at fire o'clock, an irresistible desire to break off important duties in favour of the tea-cup. In hysterical subjects this vice is often a most serious symptom. Though tea too soon before dinner causes ${ }^{\prime}$ dyspepsia, dinuer runexpectedly delayed for many hours after a heavy draught of tea, sets up in some persous very severc nervous symptoms, especially marked by tremulousness and an inability to keep the attention fixed on any subject of duty, pleasure, or conversation. In short, the rules of all things in lue season, and not too much of anything, apply to tea quite as much as to flesh diet and to alcobol.

## POSITION OF SANITARY INSPECTORS.

We areglad to see sanitary inspectors recognising the importance of their duties, but there are occasions when they appear to claim a position which is not accorded them by law, and which their previous training does not fit them to occupy. Thus, Mr. C. Eason, of Tottenham, recently read a paper before the Association of Sanitary Inspectors, in which he is reported to have said that the inspector "must be a clerk; must know something of trades, manufactures, and furnaces; must have practical knowledge and be a julge of the quality of articles of food sold by butchera,
oultererś, fishmongers, fruiterers, greengrocers, millers, bakers, nd dairymen; must have a fair knowledge of plumbing and of uilding construction, and should, withal, know something of hemistry, and of the diagnosis of zymotic diseases." Perhaps Ir. Eason could not have adopted a better course if he had desired o make his claim ridiculous. The diagnosis of zymotic diseases 3 often one of the most difficult duties that has to be undertaken y medical men, and an error may easily lead to loss of valuable fe, To trust this duty to an officer who has had no medical :aining is, on the face of it, absurd. While Br. Eason exalts is'own functions, he has no high opinion of those of the medical fficer of health, for he argued that this officer should be paid by e, and only called in for expert opinion in special cases where ze ordinary sanitary inspector's knowledge fell short. We should ot have thought that Mr. Eason would hase admitted that the :dinary sanitary inspector's knowledge ever could fall short. נdeed, endowed with such general information, he could surely place not.only the medical officer, but the authority beside. i would, indeed, much simplify proceedings if the law were reranged to permit Mr. Eason and those who think with him to umon the authority at such times as they might think necesry. There would be a vast saving of labour it all sanitary lministration srere cntirely in the hands of such competent rsons.

## SCOTLAND.

## THE GLASGOW MEETING OF THE BRITISH MEDICAL ASSOCIATION.

GE magistrates of Glasgow have intimated their readiness to itertain the members of the Association present at the ap--aaching meeting in Glasgow, at a conversazione in the Corporaon Galleries, and also to grant every facility for the visitation of ly of the works or buildings connected witll the municipality, or which they have an interest.

## EDINBURGH MEDICO-CHIRURGICAL SOCIETY.

$c$ the meeting of the Edinburgh Medico-Chirurgical Society on pril 4th, 1888, Professor T. 1.. Fraser showed a female patient 'esenting the interesting condition of inversion of the abdominal Id visceral organs. Papers were read by Dr. W. W. Ireland, on a se of Cerebral Injury from a Fall, and by Dr. G. Dods, on Trocal Malaria and its Sequelæ.

## PROFESSOR RUTHERFORD.

zoressor Rutherford, of Edinhurgh University, whose return as anticipated for the conduct of the Second Professional Exaination, still remains absent. Dr. Caton of Liverpool, formerly aminer in physiology at Edinburgh University, has conducted e examination, in conjunction wlth Dr. Noël Paton, the present sessor.

ROYAL SOCIETY OF EDINBURGH.
: the last meeting of the Royal Sóciety of Edinburgh, a payer by ofessor His, of Leipzig, was communicated by Sir William inner. The paper consisted mainly of a discussion of the prinJles of animal morphology. The importance of observation was iphasised, as opposed to logical theories and the scholastic thods. Attention was also drawn to the great importance of mentary mechanical considerations in accounting for morphorical connections.

## NATIONAL REGISTRATION OF PLUMBERS : EDINBURGH BRANCH.

IE morement' in furthernnce of the National Registration of umbers continues to make progress in Elinburgh. Periodical
meetings of the Registration Committee have been held, when applications in considerable numbers hare been received and discussed.

## DR. THOMAS KEITH AND THE EDINBURGH ROYAL INFIRMARY.

The managers of the Royal Infirmary of Edinbargh hase adopted the following minute regarding Dr. Thomas Keith's retirement from the surgical staff:-"The managers, in accepting with regret the resignation of Dr. Thomas Keith, desire to record their sense of the importance and value of the work which, in conjunction with Mr. Skene Keith, he has done in the wards under his charge. They beg to convey to him their thanks for the skill and success with which he has performed his duties as extra surgeon for the treatment of orarian diseases, the result of which has been much relief to suffering females, increase of credit to the Royal Infirmary, and enhancement of the reputation of the Edinburgh Surgical School."

## ST. MUNGO'S COLLEGE BILL.

A deputation attended the last meeting of the Town Council, from the managers of the Royal Infirmary, to ask the support of the Council for this Bill now before Parliament. The spokesmen of the deputation, Mr. Hugh Brown, Dr. McFail, and Dr. W. G. Blackie, stated that they did not appear in any antagonistic spirit to the University; they merely desired that a new college should be erected in the east end of the city, to ntilise the great amount of material for clinical teaching at present lost; and relieve the cnormous classes at 'the University. Lord Provost hing assured the deputation that the arguments would receive ithe careful attention of the Conncil. The Trades House, at a special meeting, unanimously agreed to petition Farliament in farour of the Bill.

## GITY MANURE AND INFECTION.

Dr. Prine, of Neilston, read a paper at the Glasgow Philosophical Society on the Spread of Enteric Fever, and possibly Diphtheria, in Rural Districts by the Use of City Manure for Agricultural Purposes. He related a number of cases of enteric ferer that had occurred in his neighbourhood, a hilly and healthy district, and attributed them to enteric germs conveyed from the city in manure spread on the hill slopes from which the water used by the patients was collected. He argued also that there was a strong probability of diphtheritic germs being carried by the same means, and suggested the destruction of the city manure in charring furnaces as a remedy.

MEDICO-CHIRURGICAL SOCIETY, GLASGOW.
Professor Gairdnei and Dr. Joseph Coats showed three specimens of perforating ulcer of the duodenum near the pylorus, in which an artery was laid open. In one of them stricture of the pylorus was present, and the case resembled cancer of the pylorus. Dr. Coats showed a liver with four liydatid eysts, in one of which true ossification of the cyst wall had occurred. l'rofessor Gairdner showed a man suffering from choreilorm spasms of certain facial, cervical, and abdomimal muscles. Mr. Clark showed an epithelioma of the penis from a patient aged 25 , and reported a case of successful trephining of the skull for abscess of the brain. Dr. Middleton showed sections of the muscles from a case of psendo-hypertrophic paralysis, and Dr. Pollock showed sections of sebaceons cysts of the eyelids, and of dermoid cysts of the orbit.

THE UNIVERSITIES (SCOTLAND) BILL.
Great activity has heen aroused by the appearance of the tniversities Bill. All the interested parties are indulging in free criticism of the measure. The general result shows an unexpected unanimity of feeling in its favour, which cannot fail to afford
grateful encouragement to its authors. Both the Court and Scatus of Aberden L'niversity have expressed approwal of the Bill, subject to slight modificntions in detail. St. Andrews Cniversity expresses its satisfaction with the Bill in general. In particular it approres cordially (1) of the enlarged ennatitution of the University Court, nul of the transference to that hody of the management of the finance of the universities; (2) of the power given to the Commissioners to incorporate the University and Colleges of St. Andrews into one body, while retaining their position as Colleges within the liniversity; (3) of the proposal to admit women to the teaching and graduation of the universities ; and ( 4 ) of the affiliation or incorporation of Unirersity College, Dundee, with the Unirersity of St. Andrews. Opinion in Edinhurgh and Glasgow appenrs to be rather more divided, and a fear has been expressed lest the prestige of the nniversities may suffer through the proposed affiliation of colleges. Probably Edinburgh nud Glasgow Universities will finally adopt some conjoint line of procedure. With a riew to further combined action, deputations from the other three universities met representatives of Edinburgh University on Saturday last, under the presidency of Principal Caird, Glasgow. The proceedings were private, but it is understood that a committee, including the Principals of the fonr Scottish Linirersities, was nominated, for the purpose of expressing the views of the conference to the Secretary for Scotland, nnd generally to watch over the interests of the universities. The only expression of determined opposition comes from the Town Council of Edinburgh, who have resolved to petition against the Bill. The chief gromud of their objection lies in the reconstitution of the University Court, whereby the influence of the fown althorities in university matters is curtailed.

## THE GLASGOW UNIVERSITY CLUB.

THis clul has been formed with the design of promoting the reform of the lniversity from within, in order to save her from the less friendly offices of outsiders. The principle of reform laid down in the constitution is expansion within the organisation of the University, nnd under the coatrol of the Unirersity Court; and the constitution goes on to specify the direction which such reform should take, namely, towards enlargement of the University Court, increase of the teaching staff, a wider range of the subjects of study, and closer contact with secondary education in schonls, and with the general intellectual life of the country. Other objects of the Chub nre to aid in securing endomments for new clairs, to promote socinl union among members of the University, and to hold periodical mectings for the discussion of University subjects. The adoption of a general fee fund, the appointment of junior professors and lecturers, resting of financial administration in the Court instead of the Senate, and larger representation to the University Council and to public bodies in the Court are suggested as means to the attainment of the objects of the club. The mere mention of these various parts of the constitution of the new Club and of the ideas of its promoters suggests that the indoor reformers are rather late in the day, and that it is not likely, 'now that the whole machinery of State legislature has been eet in motion to accomplish the chief of these purposes hy parlinmentary mactment, that the movement will be arrested at the call of a few who think reform will be more mildly effected from within. The Club may be useful for promotion of social union among members of the University, supproing such social union to be possible, and useful for the discussion of liniversity topics. The social side of the Club was the one exhibited on April 6th, when the inaugural dinner was held in the Grand IIotel, (ilasgow, unler the chairmanship of Mr. Jas. A. Camplell, M.I', the llonorary President. In proposing the health of the University, Dr. A. B. McGrigor trusted that they would not seek on the one hand to sink their U'niversity into an academy,
nor, on the other hand, turn it into a simple board for conferring degrees. The Club has already a membership of 100 .

## IRELAND.

1)n. C. II. Fobinson has been appointed Lecturer on Medical Jurisprudence in the Ledwich School of Medicine.

## THE LECTURESHIP ON MEDICAL JURISPRUDENCE, TRINITY COLLEGE.

At a meeting of the Prorost and senior Fellows of Trinity College on Saturday, April 7th, Dr. A. Bewley was elected Lecturer on Medical Jurisprudence for the present session. Dr. Bewley was formerly assistant to the l'rofessor of Institutes of Medicine, Dr. l'urser, and is Assistant Physician to the Adelaide IIospital. It is stated that the only remuneration will be the class fees.

THE KING AND QUEEN'S COLLEGE OF PHYSICIANS. The legal proceedings between the College of Physicians and the Apothecaries' Hall have terminated. The plaintiffs having failed to obtain an injunction to restrain the defendants from carrying out an examination conjointly with the College of Surgeons, they have now resolved not to proceed with an appeal to the higher Court. The Apothecaries are thus admitted to be within their rights in the arrangement which they have entered into. It is not impossible that hereafter the Physicians may join in an examination held by the three bodies, but, judging from their present temper, even that is remote. The victory of the Apothecaries is complete, but it is only truth to say that, it does not cause general satisfaction, even to those with whom they are now associated. But the error of recognising them, if error it were, was committed too long ago to hope for its correction now.

THE COST OF PAUPER LUNATICS.
A dispute exists at present between the Cork guardians and the governors for the Cork District Lunatic Asylum in reference to the payment for pauper lunatics sent to the asslum by the guardians. The latter have refused to pay for them, but it should be borne in mind that district asylums, though intended for the insane poor, are not necessarily open to every poor lunatic. The Privy Council rules have, as pointed out by Dr. Nugent, all the power of the original Lunacy statute, and give to the governors of the asylum the selection of applicants for admission. Subsequent Acts authorise the direct admission, or by the Lord Lieutenant, the inspectors, and by magistrates, when parties are duly certified to be of unsound mind and dangerous. So far back as 1831, the Cork guardians sought the admission of twenty-fire limatics from the workhouse into the asylum on an engagement to pay \&s pes head per annum for each, which sum was less than the cost of their maintenance in the union. This contract was carried out, and also a similar proposal in May, 1885; but, singular to state, the guardians appear disinclined to pay for the last batch of lunatics sent to the asylum from the workhonse.
At a specinl meeting of the Abbey Parochial Board, Paisley, it was agreed to erect a hospital for the sick poor, capable of receiving one hundred patients.

Timine the lest few days there has been a serious nuthreak of small-pox in Oldham, beginning on Friday morning last with some nine or ten cnses sent into the infectious diseases hospital. The number had increased to forty up to Wednesday night.
The trial of Dr. Middleton for the murder of the gipsy guide who attempted his life at Cordova has resulted in a verdict of acquittal.

Dr. Minwintar, on the occasion of his leaving Flect to reside at Penge, was presented with an illuminated address and a handsome silver inkstand, together with a silver-mounted bloting hook, as a mark of esteem.

## THE REPORT OF TIIE BROWN INSTITUTION FOR 1887.

Rabies.-The report of Mr. Fictor Horsley, the Professor Superntendent to the Committec of the Brown Institution, contains his year the usual interesting details as to the work carried on n the hospital and in the laboratory. The remarkably beneficial ffect of the muzzling order and the destriction of stray dogs is igain pointed out, only one case laving been noted during the iear among all the dogs, over one thousand in number, treated at he hospital, and none in the other animals. Distemper, which is enerally communicated by the secretions of the air-passages, iso rery much diminished after the muzzling order was put in orce; but the Professor Superintendent anticipates that both will gain increase now that the authorities hare been compelled to elax their vigilance. The statistics furnished by LientenantColonel Moorson as to rabies in Lancashire are very striking. In he nine months from January'l st to November 6th, 1887 , serenty-fire ases of rabies in dogs were reported, thirt $y$-seven persons had been itten, and nine had died of hydrophobia. On Noyember 6th, 1887, he muzzling order was issued, and in the following three monthe ine dogs only were reported as having rabies, and no person had icen bitten by a rabid dog. Mr. Horsley states that rabies, which s always prevalent in Surrey, is now beginning to work it way nto the metropolis, and we can endorse his opinion that it is rery greatly to be regretted that a most ignorant sentimentalsm has been allowed to throw obstacles in the way of he adoption of nniversal measures by the Government." ! good deal of work has been done in the laboratory in connecion with rabies; in the first place, twenty-three cases have been nrestigated with the view of establishing, by the result of test noculation of rabbits, whether animals or human beings, supposed o hare died from rabies, had really suffered from that disease, 'hese applications came from many parts of the country, and in he case of two cows, one horse, and four human beings, tbe nswer was in the affirmative; of the sixteen dogs it was found aat only cleven had died of rabies. The test inoculations, which stablished conclusively that the malady from which the deer in ichmond Park were dying was rabies were made at the thoratory by the Professor Superintendent, as were also the 'searches for the Committee on Pasteur's prophylactic, appointed y the Local Government Board in 1886; the report of this comittee was fully discussed 'in these pages on its publication ist year. Mr. Dowdeswell has also made a ceries of experiments a the virus of prophylaxis of rabies, which also bear out M. asteur's statements. IIe brought out the further fact that the ssues of an infected animal do not become virulent till towards le close of the incubation period, and failed to find any drug hich had any constant effect on the result of infection in the ibbit.
The Medical Department of the Local Government Board.ereral series of experiments were performed for the Local Governent Board under the general dircetion of Dr. Klein: the results, , far as they bave yet been made public, were published in the port of the medical officer to the Board, and have already been dly dealt within these pages. ${ }^{1}$
Farious Researches by:Mr. Ballance and others.-Mr. Ballance's searches with Mr. S. (f. Shattock on the presence of microganisms in healthy tissues were incidentally stated in a report the Scientific Grants Committee of the British Medical Associaon. ${ }^{2}$ It is stated that Mr. Ballance is continuing his researches ithe pathology of the ligature of arteries undertaken along with r. Walter Edmunds, and has commenced with Mr. Lingard a rearch on the infectirity of tetanus, and with Dr. Madden experionts on the motor area of the cortex of monkeys by stimulation id ablation.
Researches on the Central Nerrous system.-Dr. Beevor and the ofessor Snperintendent have made three sets of experiments on e functions of mator areas; a mimute analysis of the reprentation of morements in the so-called motor region of the cortex rebri has yielded, among other interesting results, the fact that e focus of representation of the great toe is practically as nearly lineated as that of the thumb, and is situated in front of the per end of the fissure of Rolando. This special observation has

Journal, Vol. ii, 1857. p. 1,29\%, et seq., The Eticlogy of Scarlet Ferer (Dr In), Mode of Action of Pathorenic Organiems (Dr. Wooldridge), Attenuation Perchloride of Mercury (Dr, Klein), Tuberculosis of Bone (Dr. Klein and
Lincard) - Lingard).

Jocrand. vol. ii, 1887, p. 930.
already been of use as a guide for the operator in trephining for epileps.s. The same experimenters have ascertained by faradisation of points in the internal capsule that the fibres in it are arranged in the same relative order and position as the centres projected on the cortex cerel)ri of the same hemisphere Dr. Mott has made some experiments on the cauda equina in monkeys by limited total destructions; when the posterior roots were thus destroyed a well-marked degeneration of the posterior median columns occurred throughont the cord. In three cases where the anteriar roots were destroyed, there ensued not only degeneration of the muscles, but a rarefying osteitis in the ilium, femur, and leg bones.

Portal Thrombosis.-Dr. Wooldridges curious obscrvations on the artificial production of portal thrombosis, published in the Proceedings of the Royal Society, were also made in this laboratory. As has been previously stated in these pages, he bas discovered a proteid hody in the thymus gland and other situations, which, when injected into the jugular rein of a rabbit, causes death from complete intravascular clotting. In the dog, injection of small quantities leads to thrombosis of the portal rein and hemorrlagic infarction of the liver. The clot in the portal rein gradually disappears; the hepatic infarctions are succeeded by areas of overgrowth of connective tissue, leading to cirrhosis. The injection of this proteid material, moreover, determines a temporary condition resembling that seen in the hæmorrhagic diathesis, extravasations of blood occurring in any part of the bady which may be slightly injured.
Puerperal Fever-Dr. W. R. Smith has completed a research on puerperal fever, which will shortly be published.
Pathology of Epilepsy.-Magnan showed many years ago that absinthe rendered an animal insensitive to pain, bit provoked an epileptic fit. In conjunction with Dr. Hughlings Jackson, Mr. Ilorsley has made use of this fact to prore that the lowest motor centres were incapable of generating any convulsion. In an etherised animal the spinal cord was divided above the atlas, and artificial respiration maintained. Injection of essence of absinthe into the jugular vein evolied a characteristic epileptic fit entirely limited to muscles innerrated from centres above the section.

## NATIONAL PENSION FUND FOR NURSES.

The National Pension Fund, as now constituted, will consist of two classes-members and policy-holders. The members are those who subscribe $£ 2.2$ s. per annum, or make a single payment of $£ 25$, or who are nominated by hospitals and other similar institutions subscribing £5 5s, annually, or making a single payment of $£ 50$. The policy-holders will be nurses and hospital officlals, who take ont policies for annuities or sickness allowances. Under the constitution the members cannot receive any profit, not even interest on their money. All benefit must go to the policy-holders. The business of the fund will be carried on by the Council, and the policy-holders have the right to elect from among themselves eight members to the Council, thus ensuring that their views shall be fully represented. This provision disposes of the criticism which has been heard in some quarters, that the independence of the nurses will be destroyed if they have their affairs managed for them.
The most important question at present is: Aro the rates charged safe, and at the same time moderate. when set against the benefits for which they are to be paid? The report of the consulting actuary states the basis on which the rates have bcen calculated. Setting aside the sickness allowance, the recently. published experience of the Government annuitants has been used for the pensions. The policy-holders of the fund will consist mainly of females, and under the rules the pensions will commence at a comparatively carly age, 50,55 , and 60 . The longevity of such persons is proverbial, and although no doubt the life of nurses is often a hard one, vet when they enter on their pensions they will obtain rest, and then the mortality among them will probably not be greater than the average with their sex. It is interesting to compare the rates of the National Pension Fund so calculated with those charged by Government for precisely the same benefits. The following are the annual premiums in each case for an annuity of £15. to commence at age of 60:



The pension rates fuml minimum benefits are then at lenst seren per cent. lower than the post Office charges for maximum benefits. Rates are reasonable and moderate, and these figures supply a complete answer to the complaint that tho Council are asking more than is necessary and fair. Although very few insurance companies now graut anuuities, because the business is unprofitable, yet it is possible that some company might be found willing to compete with the National l'ension Fund for business by offering lower, and, therefore relatively unsafe, rates. It must be remembered that Government and insurance companies will pay only the bare pension stipulated for, while the National Pension Fund already has handsome provision for bonuses, and, being a mutual society, all the nurse's saviugs will be returned to her ultimately with interest.
It has been said that nurses will be pauperised by the bonus element, but the ohject of the promoters is to encourage thrift and self-reliance; but, recognising the difficulties of the nurses as a body, they ask them to entrust to their keeping such periodical sums as they can afford to invest or save, and it is only the nurse who so exercises self-denial who will reap any advantage from the fund which has been organised to enable her to secure, by her own exertions, a modest competence for ler declining years. It is thought that hospital managers and committees who employ nurses will find that this fund, by making the staff of nurses they employ contented and free from anxiety as to the future, introduces an element of permanence and contentment now often wanting, With the view of encouraging the hospitals and kindred institutions to induce their nurses to join the Pension Fund, it has been arranged to give a rebate of $2 \frac{1}{2}$ per cent. on all premiums received officially through recognised institutions.

Medical men, who already possess a fourishing fund of their orn, are doing much to foster the Nurses' Pension Fund. The medical officers of some institutions have conrened meetings of the nursing staff with the view of explaining the objects of this fund, which they hold to afford to nurses an opportunity for good not likely to recur if the present opportunity is lost. It is probable the announcement will very soon be made that one thousand nurses have joined the fund, this being the minimum number that must be reached before the nurses will be able to a vail themselves of the munificence of the City princes, who have conditionally given $£ 26,000$ as a nucleus for a bonus fund. The office of the Fund is at 38, Old Jewry, E.C.

SOCIETY FOR THE STUDY OF INEBRIETY.
The annual meeting of this Society was held in the rooms of the Merical Society of London, Chandos Street, on Wednesday, April 4th, Dr. Norman Kerr in the chair.

A paper by Mr. Clark Bell, the President of the MedicoLegal Saciety of New York, on the Medical Jurisprudence of Inehriety, was read by Dr. Joseph Smith. Mr. Clark Bell pointed out as to civil relations that intoxication was regarded by the common law, when complete and characterised by unconsciousness, as a species of insanity. Delirium tremens, which resulted directly from habits of intoxication, was in civil matters considered to be a form of insanity, and this had been repeatedly held by the courts.-'It had alwass been a well-settled rule of law that no person could make a contract binding upen himself while ho was wholly deprived of his reason by intoxication. This would be true as to deeds, wills, all instruments and obligations of every kind. Thia rule was not changed where the intoxication was not procured by the other party to the contract, but was voluntary on the part of the drunkard. An intoxicated person was rendered incompetent as a witness, and the American statute law usnally classified such intoxicated persons as lunatics, and the provisions frequently applied similarly to each and both. In the marriage contract the sound general rule had been that if the party was so far intoxicated as not to understand the nature and coasequences of the act, this would invalidate the contract. By English law, the Lord Chancellor, as the direct representative of the Crown, had always exercised the right of assnming the custody and control of the persons and estates of all those who, by reason of imbecility or want of understanding, were incapable of taking carc of themselves. Writs de lunatico inquirendo were issued in cases to inquire whether the party was incapable of conducting his affairs on account of habitual drunkenness. This principle had been exercised and adjudicated upon in Kentucky,
the American States the liabitual drunkard even ,was classifled and treated under the'samo provisions and in the same manner ac the lunatic and the idiot, notably in Pennsylvania, New Jersey Maryland, Illinois, New York, and many other States. In Ners Jork it had been held by the courts that all contracts made by habitual drunkards who had been so adjudged in proceeding: de lunatico inquirendo were roid, and that the disability continued after the committee had been alpointed, even when be was perfectly sober aud fully aware of the nature and consequences of his acts. It had also been held that halitual druakenuess being established was primt facie evidence of the subject's incapacity to manage his affairs. Medical men should keep in mind the distinction running all through the law between insanity and irre sponsibility. The medical view that irresponsibility should fol. low where insanity exists had nowhere been conceded by the law Responsibility was a different matter, and this was more severe Some judges held that intoxication was an aggravation of criminal offence, but most held tbat it was simply no excuse. It some cases the frenzy of delirium tremens had exempted fron responsibility. The law did not as yet recognise inebriety as a disease.

A paper hy Dr. T. D. Crothers, of Hartford, Conn., was read treating of the study of inebriate criminals, in which it was laic down that the medical history of the accused should be firs studied, then the crime.

Dr. Arthur Jamison read the recommendations of the New South Wales Intoxicating Drink Iuquiry Commission, to the effec that an inebriate home should be opened at the public expense besides a hospital for the treatment of quasi-criminal inebriates the evidence having shown, that punishment had been a failure and that inebriety was i disease demanding remedial treatment.

## THE REPORT OF THE DIREĆTORS OF CON

 VICT PRISONS FOR THE YEAR 1886-87. THe latest Report of the Directors of Convict Prisons is now be fore us, and, as usual, the medical statistics present, as judged by the death-rate, an exemplary standard of sanitation. For some reason or another, probably economy, which is the present craz in Government circles, the medical report is much curtailed. I is, however, improved in form: instead of, as heretofore, separat reports from the medical officers of the different prisons, these havi been amalgamated and analysed by the head of the Medical Department, and so presented as a whole to the public."The chief causes of mortality," so runs the report, "were pul. monary phthisis, 18 cases; and heart disease, 13 cases. 1 is noteworthy there were but three deaths from acute inflam matory diseases of the respiratory organs, namely, one from acut, bronchitis, and two from acute pneumonia. With the exception of a single death from enteric fever at Dartmoor, there were deaths from any eruptive fever in any couvict prison."
This is very satisfactory, and, taken with the death-rate, show a low mortality. The report does not, however, say whether the single death from typhoid was due to general exemption from thi disease, or from the skill of the medical officers in their treatmea of an epidemic. The existence or non-existence of important dis eases, such as small-pox, diphtheria, acute rheumatism, etc., passed by in silence; nor are we informed as to the nature ane extent of accidental injuries, beyond the fact that one death re sulted from a compound fracture of the leg.

Taking, howcver, the report as it stands, we learn that 11,12 prisoners were accolnted for during the year, giving a daily averag of $757 \%$. The entire number of natnral deaths (there waa on suicide, not included) was 86 , giving a death-rate of 11.3 pe 1,000 , which was slightly in excess of the average, 10.5 , of th past eight years.

In analysing the death-return, which is given in satisfactory retail, we find that, of the 86 deaths, only 36 of the patients wer or appeared to be, in good health on reception, the remsinute being more or less unsound; it is also noticeable that 62, or ore 72 per cent., had been previously convicted, in most instance more than once, and in several more than ten times. In two in stances, the causes of death being Bright's disease and hepatitis the unfortunate rictims had been convicted each no less than six tcen times, one being at the date of death only 40 years of age, th! other, the Bright's case, but 50 .

The greater proportion of the deaths from phthisis were at th prime of life or early manhood, ranging from the age of 90 upt

46, only four deaths being recorded at the ages of 50 and upwards, the average of all ages being 26.8.
Turning to the reports, or rather extracts from the reports, of the medical oflicers themselves, they are meagre in tho extreme. We gather, however, that at Chatham there was a mild epidemic of diphtheria in the officers' barracks, which did not spread to the prisoners; and at lortsmonth some cases of typhoid and scarlet fevers, which were also confined to the officers' quarters. According to both theso reports there seems to have heen an unusual sick and death rate, whiel is accounted for by the closing of Woking Invalid Prison, referred to in the Directors' report, and consequent distribution of the invalid inmates to these prisons. In the report of the medical oflicer of Wormwood Scrubs Prison it is not a little amnsing to notice the anxiety on account of one possible caso of searlet fever in a prisoner, as compared with the fecling expressed in the relation of the epidemic amongst the warders' children.
On the whole, it is to be regretted that the report is not a little more expansive. It is good as far as it gres, and shows, especially when confirmed by previons expericnce, that there is nothing in the medical statistics of couriet prisons that need fear to see the light. It would add materially to the value of these reports if the medical statistics of the whole establishment were included.
Prisoners are so isolated from external influences that it is difficult to make a neeful comparison between them and the community at large; but whilst the prison staff with their families are presumably under the same conditions as the prisoners with regard to house sanitation, ventilation, sewerage, and water supply, they are, as regards age, food, clothing, and risk of contagion or infection, on a par with the rest of the population. If, on investigation, it should turn out that the same high state of sanitation prevails amongst them as within the prison walls, an exemplary proof would be afforded to our sanitary nuthorities of the necessity for enforced eleanliness and properly-constructed dwellings, with a plentiful supply of fresh air and pure water.

## AN APPEAL.

AN appeal is nor being made to raise a fund snflicient to enable a medical mau of good position, who has been reduced to absolute destitution, through no fault of his own, to buy a small practice, and thus make a living for himself and his wife. A good opening at a watering place can be secured at very small cost, and contributions towards the purchase money will be receivel by Dr. Farquharson, M.P., Higrie Lodge, Porchester Gardens. Amounts already subscribed:
Sir William Jenner, Bart. Sir James I'aget. Bart. Sir Joseph Lister, Bart. Sir Henry Thompson ... Sir Spencer Wells, Bart. Dr. litmokill

## THE CLIFTON LUNACY CASE.

Our realers are aware that, at the assizes recently held in Bristol, two members of our profession, Dr. Menry Marshall and Dr. J. 1. Shaw, of Clifton, were subjected to the annoyance and worry of an action for damages lor certifying a lady to he insane. Although they were completely successful in defending their conduct, yet, in addition to the loss of time and anxiety necessarily attendant upon such an action, they nre left, on account of the plaintiff's impecuniosity, to pay their own heary costs.
It has been generally felt by those more especially acquainted with the circumstances that the case is a particularly hard one, and that many members of our profession, any of whom, in the present state of the lar, are liable to a similar prosecution in the 3ourse of their daily duty, would be glad to contrilnte towards a und raised for the purpose of relieving Dr. Dlarshall and Dr. Shaw so some extent of the heary pecuniary fine incurred, and at the same time of expressing their sympathy with them in a practical manner.
Dr. E. Long Fox has consented to act as treasurer of the fund, ind subseriptions may be forwarded to him at Church IIouse, Clifton, or to either of the undersigned.
J. Micuell Clarke, M.B., थ, York Buildings,

Clifton
W. H. Harsant, 16, Pembroke Road, Clifton

Honorary
Secretaries.

| List of Subscripioms. |  |
| :---: | :---: |
| G. E. Alford, Weston-Super- | John Gill, M.D. ... ... 220 |
| - Mare ... | G. A. Gloag ... ... ... 1110 |
| F. F. Atchley, M.B. ... ... $22^{2} 0$ | W. H. Harsant ... ... ... 5 5 0 |
| W. M. Barclay ... ... ... 1 | C. Holman, M.1.. Jeigate ... 220 |
| J. S. Bartrum, Bath ... ... 5000 | J. Clements Ilailes, M1. $3 . \quad . .01 \frac{1}{1}$ |
| E. C. Board ... ... ... 10 la | Miss Katherine Leonard ... 1010 |
| J. R. Brush, M.D. ... ... I l 0 | C. E. Matthews... .... ... 1 |
| J. Paul linsh ... ... ... 110 | W. W. Morgan, M.D., New- |
| Mrs. Lionel Brough, [yer J. | W II Mewnham M B I 1 |
| Miehell Clarke ... ... 010 | W. II. Newnham, X.B. ... 11150 |
| A. F. Blagg | T. C. Parson $\quad . .6$..: |
| C. W. Belfield, 3.D. | J. M. Parry $\quad . .0$ |
| J. Beddoe, M.D., F.ll.S. | W. J. Penny Angustin Prichard, M. |
|  | G. F. Rossiter, M.B., Westor- |
| T. V. Coker ... ... ... 1 l 0 | super-Mare ... ... ... 220 |
| J. Daere ... ... ... ... 1 l 0 | E. Jarkham Skerritt, M.D... 550 |
| N. C. Dubson ... ... ... 5 5 5 | J. Greig Smith, M.B.... ... 550 |
| Eliza Walker Dunbar, M.D.... 1 | G. Munrd Smith ... ... 1100 |
| C. 11. Dowson ... ... ... 5 5 | I. Shingleton Smith, M.D... 550 |
| C. Elliott, M.D. | J. G. Swayne, M.D. ... ... 10100 |
| Charles H. Fox, | S. II. Srayue ... ... ... 5 5 5 |
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| $\begin{aligned} & \text { Bonville B. Fox, } \\ & \text { a.D. } \end{aligned}$ |  |
| E. Loug Fox, M.D. ... ... 10 a 0 | Lionel A. Weatherly, M.D., |
| W. J. Fyffe, M.1). ... | Hath |
| L. M. Griftiths ... ... ... 2 2 |  |

## ASSOCIATION INTELLIGENCE.

## COUNCIL. NOTICE OF MEETING.

A meeting of the Conncil will be held at the Offices of the Association, No. 420, Strand (corner of Agar Street), London, on Wednesday, the 18th day of April next, at 2 o'clock in the afternoon.

The following Committees will also meet:-
Tuesday April 1\%th, 18SS.-Relative Rank Committee, 3 P.M.Premises and Library Committee, 4 P.M.-Branch Organisation Committee, 4.30 p.M.-Scientific Grants Committee, 5 p.3. Wednesday April 18th, 1888.-Therapeuties Committee, 10 A.Y.Journal and Finance Committee, 11.30 A.M.

Francis Fowke, General Secretary.

## April Ilth, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. <br> ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will be held on April 18th, July 18th, and October 17th, I888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June $27 t h$, September $26 t h$, and December 25 th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be clected by a Branch Council unless liis name has been inzerted in the circular summoning the meeting at which he seeks election.

Francis Fowne, General Secretary.

## COLLECTIVE INTESTIGATION OF DISEASE.

The Report upon the Connection of Disease with llamits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1ssi will shortly be published in the Journal.
lieports upon the two remaining inquirics, namcly, that into Dipitheria, and that into the Geographical Distributtos of Certain Drsbises, are in preparation, and will be published as soon as ready.

The following inquiry only of the first series remains open, namely, that on the ETrology of l'utuisis.

A fresh inquiry into the Onigis and Mode of Propagatron of Epidemics of Diphtueria has veen issued.

Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collectuve Investigation Committee, 429, Strand, W.C.

## BRANCII MEETINGS TO BE IIELD.

Metropolitay Cofvties Braych: East London ain Solter lisefe DisThkT. - The sext meet ing will he hetd on Tharsday, April 19th, at the Hackney Towil Ilall, at 8.30 r.3. The ehair will be taken by F. M. Corner, Fisq. A paper on the Surgery of Absees will he reiul hy lloward Marsh. Esq. Visitors will be welcume.-J. W. 11 vid, IOI, Queen's Roind. Dalstom, llunorary Secretary.

Sortir of lixgiand Mrarca. - The spring mectiog will he held at the Infirmary. Sunderland, on Wednesday. April 20th, at 3 f.m. Members intending to read prapers or show mpechmens are requested to commanicate at once with the secretary. The dinner after the mecting will take place at the Queen's Hotel, at 5 oclock. The Iollowing Impers are already promised:-Dr. Itame: A Case of Congenital Fistula of the Stomach. Cured by Operation. Dr. Coley : On the Treatment of 1:Cusion into the Pleura in Childreus i)r. Murphy : On the Treatnant of NTusion into the Pleura in Children. Dr. Murphy: Ilrematuria. Mr. Morgan will miove a liesolution on Quack Advertisements. Mr. lutherlord Morisoll uill read Notes of two cascs of Gall-Stones: (1) Operation on Dilated Gall-Blatder: Hemoval of Stones: Drainage: Cure. (2) Abdominal Section for Intestinal Obstruction: Discovery of Gall-Stone, Incision and Suture of Intestime and Ienoval of Stone. Specimens exhibited. Mr. Morgan will show (1) a Girl disfigured by Cancram Oris; (2) specimene from a case of Tubereular Peritonitis simulating Crstic Disease of the Ovary. Dr. Drummond will exhibit some Pathologiral specimens. 1r, Lindsay wifl show a motient suffering fomi laralysis dgilans.-G. E. Wiblamson, F.R.C.S., 22,

-Abinafrin, Banff, asd Fincarmine Braxch.-The April mectidg of the Branch will be held at 189 , Union Street. Aberdeen, on Wednesdar, April 18th, at \& r.m., the President. Dr. Smith, of Kinnairdv, in the chair. Business: (1) Minutes, nomination of new mentbers, ete. (2) Jallot for the admission of Dr. James Crnvie. Newburgh, Aberdeenshire. (3) Exhitition of patient : Case of Senile Chorea, by Dr, Gordon. (4) Motion hy Dr. Wight: petition the $l l o u s e$ of Commons agaiast the taxation of horses of medical practilioners, as proposed by Mr. Goschen in the Budget, and also recommend practinioners, as proposed by Mr. Goschen in the Badget, and afro recommend altain the above object." ( 5 ) Case of Labour obstructed loy Fjhroid Tumour of Literns in Pelvis, by Dr. Aymer, Dervie. (b) leyort of Staiding Committee on Post-(iraduate Courses for 18as. ly Dr. Eumond, Convener. (7) Eahilition of syecimens: 1. Fixhibition of Lungs, with casts, in a state of Chronic Interstitial $\mathbf{B}^{\prime}$ oenmeula and Broachiectasy, liy br. Gitison. 2. Dissection of Ilammertoc, Mw Dr. Mackenzie Booth.-llobert-John Gardneqhand J. Mackexzie Booty Homorary Secretaries.

Bornar Colntifs Braxch. - The next meeting of this Branch will be held at Cockermouthon Frlatay, May th, at 3.1s P.M. The Secretary will be glad to receive intimation of papers for reading.-H. A. LEDIABU, ;il, Lowther Street, Carlisle, Ilouorary Secretary.

Matm and bristor Brascir.-The fifth orlinary meeting of the Session will be held at the Grand Pump-Room IIotel, Bath, on Thersidar, April 19th. at 7.30 r.M.. llr. G. F. Burder, Preskent. A discussion on Dijitheria will he operatl with a short paper by Dr. A. B. Hrabazos, Medieal Ofticer of Healthe, 13ath.-1R.J. 11. Scott and E. Sarairam Skekbitt: Honorary Seeretarles.

Norte of Iremaxd Braxer.-A general meeting of thes Branch will he held In the Royal llospital, Relfast, on Thursday, Aprillidth, at 11 A.M. Dr. Johr Strahan will read a paper on Turpentine lif Whooping-Cough and anme other affections. Dr. U'Neill will show (i) Two patients on whom lie operated for ConKenleal Inquibo-Scrotal Memis (ladical care), and read notes of the cases, (2) An Ovarian Cyst auccessfully removed. Drofessor Sipelair will repert upon a Successful Jejunal Enterectomy performed on the day of the last Branch merting, aut exhilit the scgment of intestine excised. Dr. Burden will show a *rries of Microseoric I'reparationa of Tumours. Dr. Byers will show an Otarian Tumour which he successfully removed. Wr. Faler wift bring forward a communication ()n Injection of Carbolic Acid in Myalrocele. 13r. Whitla will show a came of Abdoninal Ancuryern.-John W. Byers. M. D. Lower Crescent, Melfast, IIonorary Secretary.

Solitg-Eattiry Brawch: West Kfat District.-The next meeting of this District wiu be held at the IIospital, Gravesend, on Friday, April 27th, at ip.a., 12. J. Bryden, Esq., In the chair. The dinner will take place at the New Faimon llotelat 6.30 re.3r. Charge 6s. fich., exclusive of wine. Cfeatlemen who intend to ditie are particularly requested to slpoify thelr lotention io the Chairman, 18. J. Breden, Eisq., 21, Harmer Stret, (iravesend, noe later than Apri] 25 th. 1'apera alreaty promisell:-I)r. P. Formeks: On I'terperal Fiver. I)r. Tanoshill: Wn \&ynimetreal Gangrene. All Members of the South-Erateri Eranch are eatiflerl to attend thls merting and tointroclucefriends.-A-W. NANEIYEI,L, F.AlU.S., St. Martholomewis ltonpital, Chatham, Homorary Secretars.

Dtfors and District Braych. - The next meeting will the held at the Radeliffe Infirmary: OxIord, on Friday. April 27th, at 3 P.m. Notice of papers to lie read musi be aent in W, Lrwis Morgan, 42, Broml Street, onford, on or lefore April IEtli. A dinner will be grovided for thase members who eignlfy thelrintuntion to dine to the Seeretary two days before the mecting.-S. Uabgishiag and W. Lewis Morgas, lfonomry Secretarles.

## CEYLON BRANCII.

As ordinary mecting was hell at the Colonial Medical Library, Colomho, at a p.s. on Saturday Jantary $14 \mathrm{hh}, 1888$. The following gentlemen were present: the Iton. Dr. l'. D. Anthonisz (in the cliair): Dra. Asseruppa, Attygalle, Macdonald, Stokes, Vanderstraaten (Hon. Treasurer); Messrs. Aldous, Brito, Fileyatambi,

Fernando, Garvin, Johnson, Schokman, Thornhill, and Keegel (Hon. Secretary).
The minutes of the previous meeting were read and conflimed.
Election of Members.-Mr. Thornmill drew attention to the irregiarity of the election of members at the last mecting, in that the names of members to be elected did not appear on the notice paper. It was decided that the elections be contirmed at the next meeting of the Council.

President's Address.-The Hon. I'mesinent then delivered his presidential address "On the l'rogress of British Medicine and Surgery in Coylon during the last Forty Years."

Mr. Thonniili, proposed a rote of thanks to the Iresident for his address, which was duly carried.
Head Injury.-Mr. Fersaspo, on helalf of Mr. Thomas, of Hambantota, read a paper entitled "Ohservations fon a case of Head Injnry, especially as regards Ophthalmoscopic Examinations in such cases."
Postponement of Paper.-A paper by Dr. Van Dort, entitled "A Translation (with notes) of Dr. Daalmans's Observations of the Diseases of Ceylon and India towards the End of the Seventeenth Century," was postponed to the next mecting for want of time. The meeting then separated with a vote of lhanks to the clair.

A meeting of the Council was held at ithe Colonial Medical Library, Colomho, at 1 1.a. on saturday, February 4th, 1888, as which Dr. Van Dort. Vice-I'resident (in the chair), Drs. Loos, Attygalle, Rockwood, Macdonald, Messrs. Van Geyzel, Schokman, Thornhill, Nell, and Kieegel (Honoraxy Secretary) were present,

New Members.-The Charman proposed, and Dr. Macdonald seconcled, the election of Surgeon-Major Stokes, M.D., M.S., and Mr. W: J. A. Wright, L.C., M.C., to membership of the Parent Association and Local Branch. (Carried.)
New By-laws.-Mr. Thonnhile proposed in terms of notice that the Council, under the authority of By-law 6, pass the following new ly-laws:

1. At all clections of memhers or of officers roting shall be by "voting papers;" such voting papers to be signed and dated hy any member of Council roting without being present at the meeting of Council at which the election takes place.
2. That ne alteration in the hour, date, or place of meetings, nor any by-law be made or altered, nor any member be eleeted by the Council, unless written notice of such alteration, or by-law, or election proposed has been sent to each member of Conncil at least one week before the Council mecting at, which such is to be discussed.
3. Council meetings to be held half an hour before each ordinary meeting, and at other limes when the l'resident or Vice-l'resident or any two memhers of Council request.
The second and third by-laws passell nem. dis., but in proposing the first Mr. Thorninle referrel to the wording of the third brlawt of the Branch, which required that the election of a memblier should always take place hy the "majority of the whole Council." He felt that this rendered it necessary that the votes of all members of the Council should he recorded, and hence the necessily of giving sufficient notice in order to obtain the rotes of all such members as could not arrange to be present.
Dr. Loos, in seconding this motion, said that it was necessart that the tone and character of the Branch should be maintained, inasmuch as this was not an ordinary medical society, but ont affiliated to a highly resprectable and influential dssociation. All possible guarantee should be afforded that the election of proper persons would take place in a proper manner. The election should not rest with a few members of the Committee who night find is convenient to attend the meetings in Colombo, hat all members of the Council should have the ofprortunity of roting, and sufficient time for this purpose should be allowed to elapse betweeu proposal and election of new members.
Nosubstantive amendment in Clause I was, hotvever, propased, but the original motion having been put to the vote, whs carried by six rotes against forr.
An ordinary meeting was also held at the Colonial Melical Library, Colombo, on Fetruary 4th, 1888, at 2 P....., at which 1)r. Van Dort. Vice-1'resident (in the chair), Irs. Lons, Attygalle. Mucdonald, Rockwood. Messra. Yan Geysel, Thornhill, Nell, Schokman, and Kcegel (IIonorary Secretary) were present.
Diseases of Ceylon and Indiu in the Seventeenth Century.-Dr. Fax Dort read "Translations :(with notes) of Dr. Daamans's
beervations of the Disenses of Ceylon and India towards the Eud f the Seventeenth Century."
A vote of thanks was accorded to Dr. Van Dort for his intessting paper.
The reading of the second paper was deferred to next meeting want of time.
Alteration of By-lan.-Mr. Tironsuill gare notice that at the ext ordinary meeting on Mareh 3rd next, he would propose the ollowing alteration or amendment of by-law 4 :
"After the word 'Colombo' to insert 'Kandy, Galle, Jaffna, and idulla,' to omit the words 'and the following' and also the inole of the fourth and fifth lines, and the worl 'Colombo' in he sixth line, and insert the words 'these towns.'"
In doing so he desired to be allowed to explain the object of his motion in order that the members might understand its imort, as he might not be able to be present personally at the next leeting. This, however, the Chairman held to be out of order, Ithough there could be no objection to an informal discussion at he conclusion of the meeting. Notice of motion was accordingly iven, and the meeting separated with a vote of thanks to the hair.

## bermuda brancil.

meeting of this Branch was held on Mareh lfth, Pare $D$. 'ucker, M.D., President, in the chair. I'wo members and two isitors were present.
Office Bearers for the Fear.-Park B. Tucker, Esq., M.D., Presient ; Dr. Heldon Harvey, Secretary and Treasurer.
Delivery in A.m Presentation.-Dr. Tucker explained a new, afe, and easy mode of delivery in arm presentations, the eliild eing dead, and turning impossible, by puncturing the thorax of the hild, and crushing the bodies of two or three of the vertebre with aoth or other forceps; the breech descending, by slight traction, he fotus is easily delivered without danger to the mother.
Enormous Number of Calculi.-Dr. TuCker also exhibited 242 alculi taken from the prastate and bladder after death. The atient was a medical man, who was quite ignorant of the cause $f$ his so frequently suffering from retention of urine, being under he impression that stricture was the cause of his trouble, nor ould he be made to think otherwise, as he was often on horseack, and could ride long distances without inconvenience. Two the largest calculi, oblong in shape, were taken from the bladler, having been forced there by the sudden introduction of the atheter. Ilis death was eaused by an overdose of morphine, taken arelessly, without weighing, to induce sleep.

Frratum.-In the report of the meeting of the Shropshire and Mid-Wales franch. published in the Jourval of tpril 7th, page íta, the aame of Mr.J.T. ieech was erroneously printed "Meek.

# SPECIAL CORRESPONDENCE. 

## VIENNA.

[From otr ows correspondent.]
Iemianopsia Cured by Iodide of Potassium-Antifebrin in Epilepsy.-Erythrophlain. - The Imperial Royal Society of Physicians.-The Facant Chair of Anatomy.-ligature of the Thyroid Arteries in Goitre.
T a recent meeting of the Royal Society of Plysicians of Luda'esth Dr. St. Csapodi bronght forward a man, aged 53 years, who, fter a sudden attack of giddiness, repeated twice on the same ay, had remarked on the following day that he could not see bjects situated on his right side. He also suffered from headache the left side. Examination showed that vision was absent on he right side. No organie changes were fonnd except some signs fendarteritis. Improvement took place under iodide of potasium; a symmetrical scotoma, situated $15^{\circ}$ outside of the fixation entre, remajned, which did not, however, interfere with vision. 'he hemianopsia in this case was probably due to hiemorrhage ato the cerebral cortex.
Dr. Borosnyoui, of llermannstadt, referring to the use of antibrin as an anti-epileptic, reports in the Oriosi Metilap nine cases f epilepsy (six males and three females) in the lunatic asylum of lermannstatt, which had been first treated with bromide of otassium, and later on with antitebrin. On comparing the sults which were obtained with bromide of potassium
(from 6 to 9 grammes) with those obtained with antifebrin (from 0.25 to 2.0 grammes), it was evident that the former had ins all cases a much more powerful effect than the later. Antifebrin, as a rule, did not seem to have much influence on the disease. Fiven if larger doses of this drug should be prored to be useful, it would not be advisable to carry out a course of treatment with it, as cyanosis was observed in all cases treated with antifebrin.

At a recent meeting of the Society of Physicians of Styria, Professor Lipp, of Graz, gave an account of the results of his experiments with erythrophowin on thirty persons. He used Merek's "erythrophloeinum muriaticum," and made injections of doses varying from I milligramme to 1 centigramme. IIe had never observed any bad general after-effects, except in the case of a neurotic woman, who, after the injection of one centigramme of erythrophloein, showed retardation of the pulse and respiration, and was attacked with giddiness. He made the injections under the epidermis, as well as under the skin. In each instance analgesia (not anæsthesia, as tactile sensation remained intact) was established over a large area round the point of injection; the analgesia lasted forty-elght hours. The local appearances were intense redness, swelling, and pain. The intensity of the local symptoms, however, depended more on individual irritability than on the strength of the dose used. The most remarkable feature in the experiments with erythrophlœin, in Professor Lipp's opinion, was the development of peripheral analgesic areas, which. persisted in this condition for several hours, and even for some days after the injection. These territories corresponded to those which were supplied by nerve branches taking origin near the seat of injection.

The Imperial Royal Society of. Physicians of Vienna held its annual festival meeting on Friday, March 16th, under the presidency of Hofrath Bamberger. The first secretary of the Society, Professor Kundrat, gave a report of the Society for the last year, which is the fifty-first of its existence. The report showed that the number of members, which had increased in the last year from 279 to 306 , was again reduced to 255,5 members having resigned their membership, 4 having changed their domicile, and 12 having died. Thirty-one meetinge, with $S 9$ leetures and demonstrations, had been held during the past year.
The committee charged to select names from among the candidates for the vacant second ehair of Normal Anatomy in the Faculty of Medicine, proposed Professor Schwalhe, of Strasburg (primo loco) : Professor Zuckerkandl, of Graz (secundo loco); and I'rofessor Rabl, of Prague (tertio loco). The general opinion is that Professor Zuckerkand has the best chance of being called to Vienna by the Ministry of lnstruction, though his name only stands second.
Professor Billroth, in the first number (April 5th, 1888) of the Hiener Klinische Hochenschrift, the new Vienna weekly medical journal, discusses the utility of the method of ligaturing the thyroid arteries with the view of producing atrophy in goitres-a procedure which was not long ago reintroduced into surgery by his late assistant, Professor Wolfler, of Graz. Professor Dillroth first tries to answer the question why we are not content with the very satisfactory results obtained in recent years by the extirpation of goitre, and replies: (1) because we are not able to prevent tetanus, which sometimes supervenes after these operations; (2) because it may occur, even when tho greatest precautions are observed, that the recurrent nerre is cut or tied into the ligature; (3) because "cachexia strumiprira" is a not infrequent result in ehildren when the whole of the thyroid gland is removed. Among the operations hy which it was proposed to replace extinpation, the method of ligaturing the thyroid arteries leserved the greatest attention. A priori, the following statements could be made as to the eventual success of this operation: As, after ligaturing all the four arteries, sereral small arteries still supplied the goitre with a certain quantity of blood, it was probable that no gangrene, but only a gradual shrinking, would take place, just in the same way as in the ease of obliteration of the renal artery. The small arteries. which, in this ease, derived their origin from the renal capsule. hindered the oceurreuce of gangrene after the obliteration of the renal arters, but they were not able to prevent atrophy supervening in the kidney. Though this analogy was very striking, the niatter nevertheless required to bo verified hy experiments on animals and men, which was akso done hy Wölfler. The indieations for this operation were nevertheless limited, as exsravazation, caleification, cystic and colloid softeming were rery often met with in goitres, which, owing to the absence of any circulation in
them, would, of course, undergo no change whatever after the ligature of the thyroid arteries. The question as to whether the fliid contents of cysts were capable of undergoing absorption after aperation had yet to be decided. It thus became evident that the method in question would be really successful only in those cases in which no degenerative neeroliotic processes had yet taken place, such as rapidly growing goitres in young subjects. Two points were necessary for the success of this plan: 1. The first effect after ligature of all four arteries was that of a glandular anæmia; the goitre would be smaller and softer than before operation. 2. The second effect was obliteration of the blood-vessels, and the disappearance of the epithelial and interstitial tissue, so that only eicatricial connective tissue would remain behind. Respecting the development of "eachexia strumipriva" in children after complete atrophy of the thyroid gland, Professor Billroth considers that no positive statement could be made on this subject, but that it was possible that such a condition would not supervene, as the atrophic process, in such a case, took some weeks or months to become complete, and the organism had thus suffieient time to get accustomed to the absence of the thyroid gland. As to whether it was probable that the atrophy would be permanent, Professor Billroth holds that, when all four arteries are ligatured, there could be no doubt about this, but that, when circulation still existed in one of the chief arteries, or beeame established again by the "rasa rasorum," snch a permanent atrophy would nerer occur. This had already been confirmed by experience. Discussing the details of the operation, Prefessor Billroth states that, in his opinion, the incision on the outer margin of the sterno-mastoid muscle was the most conrenient one for ligaturing the inferior thyroid artery; he wished, hewerer, to lay stress on a peint which had not yet been mentioned, namely, the extreme thinness and fragility of the inferior thyroid artery. It had occurred to him on three different occasions that this blood-resse? was torn by the manipulations with the forceps or by ligaturing too fast, etc. The hæmorrhage which thus ensued was very considerable, and it was was very difficult to pick up the artery, which retracted behind the scalenus muscle. In one case he cut through the scalenus muscle to enable him to seize the end of the artery with a broad elamp. In ligaturing ärteries, Professor Billroth usually applied two ligatures in their continuity, dividing the ressel between them. In the abore-mentioned operation, however, be contented himself with one ligature, owing to the fragility of the inferior thyroid artery. He had nerer met with secondary hæmorrhage in such eases. Professer Billroth has - performed the operation in question in four cases of common goitre. In all of them there was a slight degree of fever, of short daration, but the absorption of the substanee of the goitre was not attended with any ill effect on the general condition of the patients. The impression which the operation had made on him was a very farourable one, and he trould repeat it in appropriate cases, but in future he would ligature all the four arteries at one sitting. In one of the cases thus operated upon he observed a slight degree of jaundice, which soon disappeared, and was probably due to absorption of blood. From a cosmetic point of view it had to be borne in mind that the ligature of all four arteries naturally caused four scars, as against the single lateral scar left after extirpation, which could easily, be hidden by a small cravat. On the ather hand, the attenuated appearance of the neck from which the thyroid had been remered was a still greater disfigurement. Professor Billroth concludes by stating that althongh ligature of the thyroid arteries was a valuable and interesting addition to our operative resources in the treatment of goitre, it would hare a much greater importance if it were attended with similar results in the case of sarcoma and earcinoma of the thyroil gland. The attempt made by him in this direction failed. It was possible that ligature might he successful even in such cases, if done at an early enough period in the development of the disease.

## PERIIN.

[FROM OUR OTFN CORRESPONDENT.]
Memorial Celebration in Honour of von Jangenbeck.-Transplantation of Mucous Membrane.
Imoffesor fon Bergmann opened the Seventeenth Congress of Girman surgeons in the Alla of the University. The evening lefore, a memorial gathering in honour of the late Bernhard ron l. ngenbeek had brought the members of the Congress and of the

Berlin Medical Association together in the largest mom of the Philharmonic. Langenbeck lad been honorary president of both societies. The vast room was completely Hlled. The family of the great surgeon took part in the celebration; in tho boxes were present the Grand Duke of Baden and many- ladies. One end of the room was lung with black cloth and magnificent paims, in the midst of which was placed a full-length bust of Langenbeck. After some choral singing, Dr. v. Lergmann delivered the funeral oration, of which I will only give the part dealing with the deceased surgeon's relations with England. "His journey to England inereased his inclination for surgery, and decided his career. In London at that time many illustrious surgeons were teaching who kept up the lieritage of a glorious past. Scientific collections, never seen or heard of in Germany, were freely open to him: whilst the hospitals gave him occupation for the whele day. Astley Cooper especially attracted him. IIe had already given up lecturing; hut his three nephews, first-rate surgeons, paid much attention to the young German snrgeon. Here Langenbeck felt happy and at home. These men were not only distinguished practitioners of the healing art, but they were happy in the unselfish practice of their profession. The impression made on Langenbeck's mind by his yisit to the College of Surgeons was deep and lasting. His influence has been of the greatest service in establishing intimate relations between English and German surgeons. When in 1881 he went for the last time to England, to take part in the International Congress of London, he had a most enthusiestic reception wherever he went."

Professor Wölfler (Gratz) spoke on April 3rd of the ralue of transplantations of mucous membrane. He said that where cicatrices were produced in cylindrical organs of the body, which were lined with mucous membrane; an operation conld only be useful, if it were possible, after excision of the scar, to unite the mucosa. But that was impossible in many cases. Therefore he had employed the method of Thiersch (the transplantation bf portions of epidermis) with great success. After having excised the thickened and indurated tissue from ${ }^{\text {s }}$ impermeable urethral strictures, he transplanted mucous membrane from a prolapsed uterus. The operation was completely successful. In the same manner he transplanted mucous membrane from a prolapsed rectum on to the conjunctiva in a case of blepharoplasty. He succeeded even in transplanting mucous membrane from frogs, pigeons, and rabbits with good results.

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Hypodermic Injections of Artificial Serum.-"Growing Fever."The late Dr. Constantin James.
Dr. Pregadius has made some interesting observations on the subcutaneous injection of artificial serum. He experimented on a large number of dogs, which, after considerable and rapid loss of blood, rerived after lharing had artificial serum injected into their reins. The saline injection, or artificial serum, is composed of six grammes of pure sea-salt dissolved in one litre of boiled water, and then filtered. Before injecting care must be taken to render the skin as aseptic as possible by washing it with antiseptics. The injection should be made at a point where there is plents of cellnlar tissue, from trenty to thirty cubic centimetres of liquid being given as a dose. In all, the quantity injected must be about one-half of the quantity of blood lost. A slight massage aids the diffusion of the liquid. The syringe must be aseptic. The sensibility being deadened by loss of hood, there is not much pain. The immediate resulls of the injections are renewed sensibility, ecssation of contractions and of cardiac pressure, followed by gradual return of rital manifestations. The process is simple, free from danger, and rapid enough eren for acute cases. Dr. l'regadius recomniends its trial on the human sulject.

At the Môtel Dicu 31. Reclus reeently gave' a lecture on the fever of growing children. IIe described the case of a young girl. aged I9, who, while suffering from febrile symptoms, was suddenly seized with sevcre pain, especially referrel to the left lip. She had been growing rapidly. M. Beuilly was the first to call attention to the subject in a little work published in 185. In it be described the three important characteristics of this fever, which is rarely met with in infancy, although a case is recorled in which an infant aged 25 months prew 8 centimetres in six wreks. M. Rechus cited two cases of this fever observed in patients aged 20 and 21. The affection usually occurs betreen the ages of 7 aud is
ter great fatigue following violent exercise (gymanastics, swiming, etc.). It sometimes appears after pyrexia (eruptire and phoid ferers). The anatomical lesions observed are due to disrbance in the function of nutrition in the region of the connectmish most bone, such as the cartilage of the upper extremity of e humerus, the cartilage of the lower extrenity of the radius d ulna, the cartilage of the lower extremity of the femur, and lose of the upper extremity of the tibia and fibula. Faulty atrition is observed in the epiphyses which furmish most bone, pecially in the interior of the lower extremity of the femur. Growing fever" is never fatal, so there is no opportunity r necroscopic examination. The bone alterations which characrise this affection cannot therefore be thoroughly known. It certain, however, that it presents a series of osseous lesions osely allied to cach other proceeding from simple inflammation osteo-myelitis. In some cases "growing fever". causes the rmation of cxostoses on one or more epiphymes. In otlier cases results in inflammation, which engenders staphylococci aurei - infectious osteo-myelitis. M. Bouilly has described the three incipal clinical symptoms of "growing fever" as follows: the -st of these is pain of a particular hind; this may be spontayous and generalised, in which case it is not a pathognomonic mptom ; or it may be confined to the epiphyses, when it may regarded as a characteristic pheuomenon. The second sym-- $m$ Is the rapid growth of the patient; a case is recorded of a iild of 15 trio grew 14 centimètres in six months, and of one of ic same age who grew 14 centimetres in two montus. The third mptom is fever of a particular kiud, which may present three stinct forms: 1, acute and transitory; 2 , acute and prolonged; chronic and prolonged. The first form is similar to the fever met ith at the beginning of preumonia. It reappears th night with adden intensity, being preceded by shivering fits. The temperaire reaclies $40^{\circ}$ and $41^{\circ} \mathrm{C}$. ( $100^{\circ}$ and $105.8^{\circ} \mathrm{F}$.). There is serere lin in the limbs. This fever lasts one or two days. The patient ows from 1 to 3 centimetres in seren or eight days. The acute id prolonged form is frequently precaded by theadache, general in, epistaxis, singing in the ears; these symptoms are followed shivering, fever, nausea, romiting, disturbance in the respitory function; the spleen is lypertrophied; spots are obserred ithe body; the tongue is foul; there is diarrhea, with gurgling the iliac fossa. These plenomena disappear in five or seven lys; the patient recorers, but remains thin, for a certain time. 1order to ascertain whether these symptoms are the result of growing ferere," the epiphyses should be carefully examined. In ie third form the fever is slight; the temperature, never exceeds ${ }^{\circ} \mathrm{C}$. ( $102.2^{\circ} \mathrm{F}$.). The ferer only lasts a fer hours at a time ; it rappears from time to time during several months. The epibyses are painful when pressel; the patient incresses in height, Reclus cited cases in whicl the symptoms of "growing fever ere attributed to coxalgia; similar errors are often made. M. rissaud lutely met witli $\AA$ case of this affiection in which the 3tient, a a girl aged 16, grew 8 centimètres in 'two months, The iagnosis of acute chlorosis, typhoid ferer, and tuberculosis had ren successively made in this case.
Dr. Constantin James recently died, at the nge of 75 , of inflamation of the lungs. His professional carreer began in 1810, and 0 was well known by his writings on mineral waters. He had so obtained celehrity by his criticiems on M. Pasteur's antirabic nethod, by his theories on hypnotism ant suggestion, and by hiis potroversies on the subject of the experimeents mado by Drs. harcot aud Luys. He also wrote agninst the Darwinian theory, ad his work on the subject had the honour of being annotated the Emperor of Brazil. In 1869, on his return from the opengof the Suez Canal, he narrowly escaped assassiuation, a youth 18 inflicting fourteen blows with a oadied stick upon his head. ven this misalventure farnished material for Dr. James"s prolific n.

Apralining accounts have been receivel of the inundations Iused in the Fibe district by the accumulation of ice, and the insequent breaches made in the river banks. Yrom, a Reuter's leegram we learn that from Wittenberge to Danuenberg and dizenburg both banks of the Eilbe are flooded for miles. A undred rillages are under water, and therc has been some loss Ife. The damage done is enormous and the distress terrible. lany cattle hare been drowned.
Traces of gold are sail to have been reeently foumd in the aters of the sprüdel at Carlsbad.

## CORRESPONDENCE.

THE LOCAL GOVERNMENT BILL AND TIIE P. H. SERVICE.
Sir,-I shonld like to say a few words in supplement to your excellent article in the Journal of March 31st on the subject of "P'ublic Health Service under the Local Government Bill."

I hold an appointment as medical officer of health to one of the largest uncombined rural districts in the country, with a population of over 50,000 , and am , therefore, qualified to state where the shoe pinches, and unlikely, if the new Bill becomes law, to pinch again. I shall only touch upon one or two salient points in connection with rural districts.
First, with respect to the guardians. A parsimonious expenditure of the public money being the one aim of the average ratepayer, the most parsimonious candidate obtainable-a small farmer-is probably returned to the board. Men of this stamp form a majority on most rural boards, and it strikes me that the District Councils will be very similarly constituted. Farmers, because of the straitness of their own circumstances at the present time, are the best possible representatives of a parsimomous policy, and being often, in addition, open offenders against sanitary law, their nominal office as guardians of the public health becomes a most unseemly farce. Thave said nothing of their educational unfitness, as this goes without saying, It is commonly supposed that the "ex-officios" seen on the lists are effective guardians. This is for the most part an error, as county magistrates, for rarious reacons, seldom attend the meetings.

The appointment of a superintendent medical officer of health for the county is adrocated by you and many others, but it seems to me a much easier way out of the difficulty would be to rest the appointment of all medical officers of health in the County Council, leaving the Local Government Board, as in many other matters, still the superintending authority; the tenure of office, under such appointment, to be also "during good behaviour." The amalgamation of the duties of analyst and pathologist with that of superintendent medical officer of health in a large county would involve more work than any one man, howerer able and energetic, could effectirely do. A great deal of detail in public bealth matters must still be left to simple evolution; but the preseut system of appointing sanitary medical officers, which it seems the intention of the Government to perpetuate, is a radical error and evil. There could be little danger of the medical nfficer of health abusing the power and status given him by the elective arraugement suggested above. Local influence and control would be too strong for this, though not so powerful and paralysing as it often is under the present system. The redistribution of sanitary areas upon a scale sufficiently liberal to allow of the exclusive appointment of pure medical officers of health would be, I fear, too large an order for the Government or County- Councils to undertake.
1 may add, as a remark applying especially to rural districts; that the inspector of nuisances, by whomsoever appointed, should be directly subordinate to the medical officer of health. This does does not follow from the L. G. B. order (1572), but is a most necessary provision.-I am, etc.,

Notrs.

## DESTAL DEPARTMENTS OF HOSPYTALS.

Sir,-The thanks of the dental profession are due to Mr. Newland l'edley for his.practical paper in the Jourvil of April 7 th, and it is to be hoped that the subject may not be allowed altogether to drop until reforms of the kind proposed have been generally adopted. They would confer benetits not only upon medical and dental students, hut upon vast numbers of the suffering poor, who now either go unrelieved, or submit to the barbarous operation of extraction for the relief of curable dental diseases. These diseases, the most common and nniversal of maladies, are much neglected hecause they rarely endanger life, and yet, in great numbers of instances, they render existence as miserable as it can be made by any form of physical suffering. Many years' experience of hospital dental work convinced me that it would not be possible to deal with the entire mass of dental disease existing among the poor by any organisation however extensive, but rery much more might be accomplished than is now done if measures such as Mr. l'edley adrocates were systewatically carried out. I, however, go further than he does. I long ago formed and expressed the opinion that every hospital, and particulnrly those with medical schools attached, ought. to have a completely
equipped dental department in which dental surgery might be as fully practised and taught as at the dontal hospitals. No special hospital coulld be more free from even the suspicion of abuse than the Dental llospital of London. It has done and is doing work which could not have been done elsewhere. But not to speak of notorious evils and aboses which sooner rather than later seem to become nasociaterl with most special hospitals, it is appearing more nud more evilent that, with rare exceptions, these institutions might with adrantage in every respect be merged into special departments of general hospitals.
Insteal of founding a dental hospital, had it been passible from the first to divide the staff and students and to organise well arranged dental departments at a few of the leading London hospitals, many of the complaints that Mr. Pedley justly makes would have been now uncalled for. If during the last twentyfive years dental operatious had been fully demonstrated daily at general hospitals, $n$ large proportion of medical practitioners, to Whom such an accomplisliment is valuable, would have gained knowledge and skill in dental surgery, and the medical profession would hare become more thoroughly enlightened as to the scope of dental science, and the value of conservative dental surgery. There seems no room to doubt that in a very few years there will be so great an increase in the numbers of medical students taking up dental surgery as a profession that the Dental IIospital will be quite inadequate to accommodate them. The qualified dentists on the liegister number only a fewt hundreds, and there are besides three or four thousand unqualified practitioners registered by virtue of being in practice prior to the passing of the Dentists Act. This latter class is decreasing, and must of course more and more rapidly disappear as years go by. They can be replaced in future only by qualified men. Owing to the elevation of dentistry in consequence of its recognition as a legitimate specinl branch of the medical profession, and the gradual enlightenment of the public as to the value of dental surgery, the demand for qualified dentists must increase, whilst under thesecircumstances the crowded condition of the medical profession must, I repeat, lead many medical students to adopt the speciality as a calling. The expenses of a dental department in a large hospital are, as Mr. Pedley shows, comparatively trivinl. There could be no difficulty nowadays in finding full staffs of highly qualitied dental officers to provide daily attendance and teaching. I believe that if general hospitals vould organise such departments so as to furnish speeial instruction equal to that given at dental hospitals, there would soon be attracted coough students to eficiently work the department without putting an undue strain upon the officers or calling upon them for unnecessary вacrifices.- I remain, etc., Hentry Sewill, M.R.C.S., L.D.S.,
Wimpole Strect, W., April 7th.

## COMPULSORY Notification of infectious diseases.

Sir, - The letter from Dr. Alfred Carpenter, in the Jourral of April 7 th, might lead the casual reader to suppose that some private motives had dictated the prosecution of Dr. Dalton for not notifying a case of infections disease; it is, therefore, incumbent upon me to ask you to placc before your readers the real facts of the case.
During the few ycars that compulsory notification has been in force in Croydon. Dr. Daltou has been the only medical practitioner who has refused to conply with the provisions of the Act of Parliament. In this rcfusal he las been persistent, notwithstandingoficial and private remonstrance from mysclf, couched, as 1 think, in the most friendly terms.
$n_{\text {wing to }}$ the difficulty of obtaining eridence of the existence of infectious disease without the testimony of the medical attendant, it has not been possible to prosecute Dr. Balton until the occurrence of the case referrel? to. There the patient died, and in nccordance with law Dr. Dalton gave the registrar of deaths a certifeate, stating the cause of death as scarlatina. An inquiry Tas then made, which gare Dr. Inilton an opportunity of explaining his omissinn to notify, if any explanation had been possible. In answer to that inquiry the right of the Corporation to require notification was denied; thereupon a summons was issued, and upon the hearing of the summons, for the first time the defence was raiserl that an informal notification had, in fact, heen given to the sanitary inspector. It appeared, however, that this infornal notification related to a previous cnse, and not to the case under Thicussion; a conviction therefore followel, as was inevitable.
lnder these circumstances, I think your readers will see that the Corporation, unless they were prepared to allow the Act of

Parliament, 'oltained with considerable trouble, to be set at naught, were bound to take proceedings to enforce it. Other medical men in the borough who were notifying had just cause of complaint if, wliilst they fairly carried out the provisions of the Act, one of their professional brethren should be allowed to set them at naught.
All medical men will understand that a prosecution of this sort is distasteful to those who have to embark in it, but both before and after the issue of the summons private attempts were made to get from Dr. Dalton an undertaking that in future he would comply with the provisions of the Act, and an offer was made to him, both before and during the hearing of the case, to withdrsw the summons if such undertaking was given. He, however, absolutely refused to give any sort of undertaking, and apparently relied upon being able to upset the proceeding upon technical grounds. In this he was unsuccessful, with the result known to your readers.
It is hardly worth while to discuss what might have been if the case had borne the aspect suggested by Dr. Carpenter. The facts, however, as will be seen, differ entirely from those related in Dr. Carpenter's letter. I have been on friendly terms with Dr. Dalton for many years, and hope that these proceedings, in which I had no alternative but to appear, will make no difference in, those friendly relations.-1 am, etc.,

> CHARLES W. Philpot, M.D.Lond., Medical Officer of ILealth, Croydon.

Sir,- The medical profession generally have reason to thank Drs. Dalton aud Carpenter for standing out in opposition to those who wish to make us responsible for the delinquencies of other people, Let but regulations of a like nature be forced upon clergymen and solicitors, and a cry of persecution would be raised immediately. The Kingston Corporation at the present time are promotiug, a Bill in Parliament similar to that in force at Croydon; and eighteen of the local medical men, includiag three out of the four officers of health, have signed a petition in opposition to the clause which seeks to impose a penalty on any
medical man who neglects to forward personally a certificate medical man who neglects to forward personally a certificate
notifying the existence of infectious disease. We are all williag to give a certificate to the householder for transmission, but we decline to act the part of public informers. Moreover, a radical defect in the Bill, and one which we desire to see nltered, is that it nllows medical men who nre engaged in practice to be appointed public health officers. The following reasons will suffice to slow, 1 think, why they should be entirely independent. Though engaged in practice as ourselres, they would be placed on an entirely different footing to their brother professionals, inasmuch as they would have to report to no one, and would be in every way a law unto themselves; and, in the case of their having as patients large owners of property, they would, for fear of giving offence, be inclined to allow nuisunces and dangers to the public health eo
remain uncorrected, which they would not do were they in a perfectly independent position. It is almost impossible in certain instances, however conscientious one may be, not to be biassel to some extent by existing circnmstances. In order to work any Sanitary Act properly, it is necessary a person should be appointed who is independent of all external considerations. -1 am, etc.,
F. P. Atkinso:.

Surbiton.

## tile alleged arrest of sypiilis in its pribary STAGE.

Sin,-I do not agree with Mr. Jonathan Hutchinson or Dr. Drysdale, that there is the slightest cridence that syphilis is due to a microbe "as yet unknown to the microscope." This may be heresy in the present microbian age. I must also say that I was much surprised at Mr. Mutchinson's experience in invariably nrresting the sequelx of primary syphilis, if seen sufficiently early, by smani doses of grey powder. I have seen a good deal of syphilis for over twenty years, and my halit has been in all doultful cases to administer bielloride of mercury with potassium iodide. Iu some cases, thus treated, no matter how early, secondary manifurtations occurred, though certainly of a very modified nature, while in others there were no secondary symptoms. My experience gors to show that no one can predicate to a certainty that under any treatment a given sore will not be followed ly secondary manifestations.
Thic subject is, of course, too wide to, be dilated upon at any length in a note. The combination of mercury which $f$ employ is
almost invariably the bichloride, dissolved in an excess of iodide of potassium. I'tyalism 1 consider to be due to the precipitation of metallic mercury in thr glandular structures. Mercury dissolrca in iodile of potassium is not so precipitated, and in this form ptyalism from mercury is rarely or ever seen. Iodide of potassium further aids the action of mercury by stimulating histolysis, and thus acting on the glandular system. It is thus, in my opinion, that the therapentic effects of these agents, in syphilis, are to be explained.-I am, etc.,

> D. CAMPBELK, BLACK, M.D.,

Assistant Plysician to Glasgow Royal Infirmary. Glasgow, April 9th.

## ST. ANDREWS UNIVERSITY AND AN M.D. FOR PRACYITIONERS.

Srr,-A petition is about to be presented to the Senate of St. Andrews University, praying that all medical men of ten years' standing may be eligible for the practitioner examination for the M.D. degree, without restriction as to age or residence, and I am enabled to say that the Senate will not oppose such a schene if it be well supported by a large number of names.

Already one petition to this effect has been lodged, containing she names of representatives of nearly every Fritish university, who, whilst not desiring the change for themselves, support it as 1 means of justice to others.

The subject was thoroughly ventilated in the Jotrressl some ime ago, and I hope those who are in favour of the cliange will jend their names to me at once, and I shall also he glad if those who would be willing to obtain the signatures of their neighbours in large towns would so express themselves.- I am, etc.,
Leigh, Lancashire.
E. Jones, L.R.C.l'Ed.

## GAD FLIES ATTACKING MAN.

Srr,-With reference to recent correspondence on this subject n the Journal, the following note may be of interest:-
A friend of mine was engaged for some weeks on a survey up ne of the rivers of Tenezuela. Soon after his return to Trinilad, large grub was squeezed from a swelling over his lower jatr. The sore healed rapidly after the escape of the larva.
He gave me the grub preserved in spirit, and I formarded it to Ifr. C. O. Waterhouse, of the British Museum, who kindly sent me he following report by last mail:-
"Your larra is the one known under the name dermatobia 10xialis, but there is not at present sufficient evidence to prove hat it is the same insect as was originally described under the same noxialis."-l am, etc.,

Beaven Rake, M.D.Lond.
Trinidad, March 12th, 1888.

## LECTURESIIIP ON JORENSIC MEDICINE, TRINITY COLLEGE, DUBLJN.

Srr,-In page 760 of the lourNal of April 7 th, you mention my same among the candidates for the Lectureship in Forensic Mediine in Trinity College, Dublin, vacated by the death of the late Or. Travers. Kindly permit me to state through your columns hat such is not the case. I have not in any way sought the rosition in question.-I am, etc., F.J. B. QeInt,AN, M.D.
29, Lower Fitzwilliam Strect, Dublin,
April 7th.

## NAVAL AND MILITARY MEDICAL SERVICES.

## CHE ARMY MEDICAL WARRANT OF 1879 AND

 MR. STANHOPE.$T_{\mathrm{E}}$ are glad to acknowletge the conciliatory spirit in which Mr. itanhope replied to Dr. Tanner's question, as to whether it was ntended to tamper with or set aside the Warrant of 1879 , espeially the right of medieal ofticers to retire after twenty years ervice. The Secretary of State for War went out of his way to nswer the question, which had remained unput for four days on he notice paper. We welcome this changed attitude to a great rmy department, and to the civil medical profession, who are leeply interested in the rights and status of their military rethren. He intimated that "it is not intmmled to prevent medial officers retiring after twenty years' service, but it is proposed o require a reasonable service in a given rank before allowing reirement on the rates promitted for that rauk."
This statement, which is most important, at first sight seems
clear enough : yot, reflection suggests that much depends upon the interpretation of the term "reasonable service;" and perhaps even more, as regards the medical officer, on what is meant by "that rank." For instance, a medical officer on completion of trenty years full pay service, acquires a new army rank, in ranking as or witl a Lieutenant-Colonel, but does not alter his departmental title of Surgeon-Major; but, on being promoted Brigade-Surgeon, he changes his departmental title without gaining any addition to his army rank.

What, then, is "that rank" to which Mr. Stanhope refers? Is it Departmental, or Army, or both? If the former, then, as the medical officer at iwenty years will already have served eight years as Surgeon-Major, the "reasonable service" cannot apply, and he may retire at once; if the latter, then, as the BrigadeSurgeon, who will be at least of twenty-five years' service, geis no increase thereof, he, too, may go at once after promotion.

I'he "reasonable service" becomes bound up, therefore, in the question of "rank." We gatlered from Mr. Stanhope's memorandum on the Estimates that a "reasonable period" was to be exacted in a given rank throughout all branches of the service, and we presume, therefore, the rank referred to must be army rank; if so, how is a medical officer who gets a step at twenty years able to claim retirement at once, and at the same time servo. a "reasonable period" in this rank?

We advise Mr. Stanhope to clear up all the doubts and difficulties created by the late miserable tampering with the rank and status of medical officers before modifying the right of retirement. The War Secretary further admitted that retirement at twenty years was undoubtedly granted as an "inducement to candidates" to enter the service; and that "no restrictions" would be placed "on retirement on $£ 1$ a day." Good; but, if so, why at the same time speak of requiring a "reasonable service" in each rank before retirement? A continuation of service beyond twenty years will clearly be a "restriction."

His announcement that an officer's "vested rights," according to Lord Penzance's Royal Commission of 1876, "are limited to the rank he holds" is no doubt good law as applied to the question of compensation in the curtailment of prospective adrantages; but we would venture to think this decision does not bear on the right or justice of limiting the rested rights in a given rank, deliberately created by Royal Warrant, by merely setting them aside, at convenience, in another Royal Warrant.

The further derelopments of Mr. Stanhope's plans will be watched witl much interest.

THF BLTMAII MEDAL.
A Correspondent complains that the officers and men on board the hospital ship during the late Burmese war have been refused the medal, whereas medals were granted to those on board similar ships during the Abyssinian, Ashantee, and Egyptian expeditions. The official grounds of refusal were that the ship did not cross the frontier-a physical impossibility. But we believe the authorities maintain with no little force that the Burmah ship was so far removed from the scene of hostilities in Upper Burmah, that it was not on all fours with the ships in the other expeditions, Which were located directly on the seaboard of operations.

ADMINISTRATIVE MEDICAL OFFICERS OF THE ARMY AND TIIEIR RESPONSIBILITIES.
We regret to learn of the retlrement from the service of a surgeon-general owing to a decislon recently arrived at by the military and medical authorilies. Judging from the facts of the case, this appears to mean that an administrative medical officer in visiting a hospital is personally responsible for the correct diagnosis of every case in it. whether reported to him or not. which is certainly a new departure. If this be so, we are strongly of opiaion that the sooner the medical regulations of the army are revised the better. both in the interest of the soldier aod of the modical officer; as at present, by all existing regulations, the senior medical officer specially appoiated to the charge of the hospital is held respoasible for this duty.
This stmage decision as regards responsibilty appears to us contrary lo the spirit of the Queen's Iegulations for the Army, and the "chain of responsibility" thero laid down, and also to the usages of the medical and military professions, and to the true interest of the slek or wounted soldier. It is the more unjust and inexplicable in this case as the Secretary of State for War. while declining to alter the decision of the authorities, at the same time oflicially ath "fully recognises the excellent services performed" by thls medial oflicer. The surgeon-general referred to holds seven special letters of approval and thanks for his services received at various times up to the date of leaving the army, st home and abroad, from as many directors-general and

Meneml officers. which were submitted to the Commancler-in-Chiel. This is, th sig the least, a atrange manner of encouraging medteal offeers to to their elaty under all circumstances of diffentty and danger.
DUTHES OF ACTING SLIRCGON OF VOLUNTERRS.
M.J. ashs: W. What are the dutios of an acting surgeon of voluateers? 2. Where can 1 obtain tha lxest information nhout conducting an ambulance elass or
anmanance drill for volunteers? S. What unform does an nethgig surgeon of anthalance drill for
volunteers wear?

- 1. Dutles of acting aurgeons of volunteers: (a) Proficiency examination (Volunteer Ihgulations, 1887, Part 1. Sec. 11. Para. 144). (b) Camps with leugular Forees (Volunteer Regulations, 1N8\%, Part 1. Sce. IV, Para. 105 ; Métical Ilegulations for Army, 1885. Part I, Sec. 11I, Para. 55 to 82).

2. Training of Stretcher Bearers (Qucen's Regulations for the Army, 1885, Sec, X1V, Para. 80 ; mnd Volunteer llegulations, 1897, Part I, Sce. VI, Para, 517), 3. Liniform (Volunteer Ikegulations, 1897, Part 1V. Sec. III, Para, 1044).

## AIBR BATTALION SURGEONS NONCOMMISSIONED OFFICERS? <br> Dr. Watifer l'parce, Aeting Surgeon, Artists di. Y., writes: Volunteer surgeo

 have aubstantive rink (Volunteer Regrilations, 1887, Part I, Sec. II, Para, 121 und 125), and are commissinned. Acting surgeons have no substantive rank, are not commissioned, and their appointments ceaso whenever the corps to which they belong is called out for active service.
## PRECEDRNCE OF ARMY MBDICAI, OFFIOERS IN INDIA.

Ax Adminisitrative Officer writes: In the Jorrnal, of February 18th, page 379. you published a letter on this subject. I now enclose a verbatim copy of the orders relating to precedence,
By the first,
that metical officers sre only to be members ef mediogulations), sou will see all other cases, attend to give evidence. If this rule were adhered to, there would be no ground for consplaint, as, it the president acted as described in rour correspondent's letter, he woukd do so on his own responsibility, and it would be evident on the face of the proce
It happens, however, that in paragraph 1139, vel. ii of the Indian Army (Discipline) Regulations, power is giren to the Government (really to the healquarter military staff) to nominate medical officers as members of mixed toards, and, when this is done, to my certain knowledge the medieal officer is invariahly nominated last, and has, therefore, to ".. sit and sigu" juaior to all the. at her menabers of the hoard.
nuallical officer of the dirision in come under my observation, as principal niallcal officer of the division in which this has been done: In one case, a eurgeon-major of twent $y$-five years service, with ranik as lieutenant-colonel of hwe years standing. had to sign helow a junior captain; and in the second, a sirgeon-major of twenty-three years' service bad to sign helow a subaltern, In bith these cases the medical officers appeated to me, but my advice to them was (considering they were both rapidly approaching their turn for promotion) to accopt the position, and "dont kiek up a row."
eall on the Secretary of State for India to amend the regulations to such and eitent as to give medical offecers thelr proper position on all hoards? Aring legulations, India (Medical), vol, vi, p. 1360.-"Medial eficers will be cletailed as members of medical boaris only. Should a medical opioion be required hy any of her hoard. referenee will he made to the medical officer
detailed to attend it, who will, if necessary, furnish his report in writing, or give eridence in person."
Army Jegulatinns, India (Discipline), vol. ii. p. 1139.-." When eommittees are convened by Government eomposed of military and medical officers, or of in which they are named In the orderconvening the enmmittee. In such casps the president may belong to any branch of the Service."
*It scems to us the milltary authorities in Iudia (and elsewhere) stick at nothing in their extravagant endeavours to doprive medical offieers of any semblance of army rank and status. We have no diffieulty in realisiag the ntterly unworthy spirit which works in such a faragraph as 1139, Indian Arms legulations; but what is past our comprehension is that such nn order can be promulgated without drawing a vigorous protest from the heads of the Helical Service in India. We never hear of any such protests.

THF NFW WATRRANT.
Temn writes: The more the Warrant on the Jeserve of Medical Officers is stuelied the more insldious do its terme appear; be couslilers the Warrant lias been Issued to afford the authorities a powerlul lescer against, the regular gerviee, shoulil that again hecome ungopubar; he trusts the Influence of the liritish Mediat Association will frustrate anjsuch stheme; he thinks no ruinjug hle cisil practice.
A comrasponprat, rignlag himacelf " Beware," thinks the Warrant creating the Apmy Medtal Rearre of Oflieers "nnother moan fy-trap of the mnst approven wor Offee pattern :" and says that medical men should be careful
hefore they walk into it ; the terms offerent, tie thinks, are beacath professional
dienity. lefore they walk into it; the terms offerent, he thinks, are becuath professional
dignity.
Regelar Manical Staff writea: The lingal Warmat for the estahlishment of nu Armir Medical liescrve will tereal with interest. ly all who have long
recognised the necessity for mach provishon lueing made. lt only remaing to le smen low the new Warmint will ba accepted by the medical stant of the Ausiliary Forces, who it la presumed will carcfully weighatl the conditions of ervice the fore joinlag.
The Sccretary of State's ingtructinns are practically the Warnant. In the Iight of theas lastructions, what does a mealical offieer falst by joinlog the
Reserve. Heserve.

1. Accomling to Paragraph 1 a medieal officer mat poresumably le unfit for hal heiter remajn with hls corpe.
2. Publlcation of his name in an Army List, howerer usefu! to the Dovern ment, is no ndvantage to him.
3. Compulsory serviee as in surgenn-major up to the airancel age of $6 \%$, is certainly a doubtful advantage, yet no prorision is made for any higher rank, which means higher pay.
4. If a real great national emergency should occur, all the anxlliary forces will naturally be called out, when the nedieal offieer of a corps will thecere sarily draw the pay and allowances of his rank, and will have a better cbance of serving with his rcginent, lastead of being knocked about the country as Menical Reserve officer
the cluties to he performed, most officers of the regular Medical siaff acquainted with these duties will say most decidedly they are not.
5. Priur clinims to hard work nad insuffieient pay uan hardly be considered an aduvantage.
6. Would appear to be a provision for medical officers retaining their present regimental appointments. Should they join a reserve, they would soon fiod ont that they would be sent just wherever their services were required.
ngainst the present Medical Staff attempt to play of a medical reserve come to the assistance of a Giaf. Whetber our professional Grethren will regular medical nfficers of the ammy with fagrant injustice and scant courtess, whether they will accept terms all the nulvantages of whilh are on the gide of the Government, and whether they will not he far wiser to wait until the emergency arises, when bearing in mind the treatment now being experienced uy the Medical Staff, these terms will be what the medical profession chnosps tin demand, are questions deserving'the careful consideration of those now heing tempted to join the Medienl l? serve.
As a Medical Leserve, the provisiun male by the Warrant is utterly inalequate, and does not bring 18 one step nearer to the solution of the questions how topronde for one or two army corps in the field. A more unstatesmanstrength of the regular Merlical Stant, our first, small war will have. to constitute in the opinion of the authorities a great national. emergency, and the new Medical Reserve will be called on to dre up practice and home, and unmen, more particularly at this morcent, bide their time if hereafter they wislz to serve the Government; their market value will be three or four times what the Goveroment now offers.

## CIVIL OR MILITARY ?

Dr. J. Ruxtox (Blackpool ; late 17 th Regiment and Army Medical Department) Writes: I have lately wondered whether my old comarades in the Army Medical Staff are to be considered eivil or military t the order removing, the aceount of "exception having been takeu by the military authorities to the henonrysurgeons of the Viceroy wearing an aiguilette." compels one to ask the question. For my own part I consider that army medical officers are as much military as those of any other hranch of the service........ Wherein, therefore, lies the nucleus of the order?-eridently in the jealousy of the so-called comhatant officers. Surely this is suall........ If medioal officers are nol military they must trust to civilians to look after their rights ; but I chserve Mr. Stanhoge considers the actlon of the British Medieal Association in finding out thi grievances of the Medieal Staff, contrary to military discipline...
full par Warrant for reserve nod army medical officers affect those nnw 'on all pay and those aspiring to the Medical Staff ; will the elastic of the service curiail home service, and roh mititary surgeons of their Jast abroad?
We medical men are all indehted to Dr. Farquharson and othera for frivging medical officers' grievances to the front, and we must ventilate them as it,
individually strikes us. We have a eonmon welfare as a prefession ; the wellimividually strikes us. We have n eon

## TIIE AIRMY MEDICAL STAFF.

UNON IS STRENGTH writes: The time has come when the medical officers of the army will have to offer, in the defence of their own interests, the mist strenuons opposition to the proposed chnages in the Medical Department contained in the momorandum recently issued by the Seeretary of state for War. Their vested rights are scriously theatened, nnd if they do not nnw speak out, they will have only themselves to blame if the proposed changes
he carried into effect. These changes mainly refer to condituns of serviue, pension. and the formntion of minArmy Medical Reserre, the latter to be composed of retired ofticers, nffieers of the auxiliary forces, and civilian surgeons. Naturally, they are caleulated to excite the gravestapprehensinns in the minds of medical ofticers, affecting as they do most seriously their privileges nd prosnects.
The Medlcal Service has been already transferred by a recent orrier from the War Ofice to the IIorse Guards, who, following their mld traditions, may he expected to trent onr grievances with geanty cousideration. In this
struggle for the recognition of our claims combiued representation is denimi us, and indivilual representation, thonghallowed, is perilous; lienee we have to depend altogether on external support, and on the infuence which can be most powerfully exercised in wre belalf by the various licensing bodics, the universitles, mid the members of tho British Medical Assectat inn.
Under the present system there is alrealy intense dissatisfaction exist.Jng as to the very short perimi of home service permitted to medical oflicers ; nnil it the propesed seheme of the aldition of an extm jear abroal to eache tour continuous service in tropical climates as will lenve us practically in home fervice to recruit our healith. What is the gnod of life upder such couditions of perpetual exile? And what are likely to be the consequences? The nrswer is easy : a greater amonnt of slikness, tenporary half-pay on tho expiration of six months siok lerve, followed six monthe inter by removal frons the fervice, with a small bonus for permanent ilf-health, and an increate in of the combatant hrancli, together with the loss of all the advantagis ronforretl by the Royal Warrant of 1879 while serving in Indla. This is asom rowful outlook. Do Mr. Stanlope and his advisers think a menfical oficer requires no rest, in linglatic after irequent and prolonged tours of service in mulustliny elimates? Do they think he has no bones to be racked by fever. and no iniside to te reat by dyseutery?

Surely retired officers, the officers of the auxiliary forces, and our civilian mfessional brethren will exert themselves to save us from this unworthy aste, add not play the game of the War Minister, who invites them to earol their names in the Army Medical Reserve. The latter, as at present formuted, is nothing more than an artful scheme to play them of against the Medical Staff, and by cutting down the latter to a minimum peace strenges to reduce the lome establisliment to an insignificant number. great national emergency " wnuld soon be toned dorn to hast any expedition and once the thin edge of "a great national emergency," and serve as an Fould be held to constituto "a great Constant breaches of faith bave inexcuso to sead medical ofticers abroad, Coling of distrust that we set little value on the spired us with suchan aue feeling of Wromises of Royal Warrants. We therefore earnestly hrpe retlred oficers will licsitate cannot be compelled to do so.

Again, how can the Government, with any show of justice, make such $n$ egulation as that proposed, not to allow any medical officer to retire on tae pernsion attached to his rank until he has served in it for a reasonable period ? What a farce this is : Who is to decide the question of reasonable periou ? The whole proposition is a dist carried out, the services of over leges granted by the wical officers will have been obtaioed under false pretences. Desides, Mr. Stanhope's statement as to the cause of the largeness of the nan-effective rate is fomded on error. It is first to be attributed to the grent number (about 800 ) of medical officers who were commissioned at the time o the Crimean War and the Indian Mutiny, over thirty Jears ago, the natura consequence of such augmentation in the hour of danger being an increase in the number of non-effectives after so many Years. The caus
the lanse of time, and not the operation of tlie Wirmat of 1876 .

The stalition of relative rank was bad enough in all conscience, bat these contemplated changes are beyoud all endurance.
Are medical officers to be eternally subjected to these shameful changes of arrants and regulations be successlse War Ministers, who, armed with a little brief authority, are pitched into power in the varying struggles of political party strifes? Is there to be alwayo this constar the permanence of and unrest? Is there to be no finality-no guarantee for the permanence of ans provisions made by a Royal Warrant, 9

The services rendered by medical officers in the recent campaigns in Africa, Afrasnistan. Egypt, and Burmah are now conrenieutly forgotten, and the Aghanistan, modifications of the privilege to retire on a pension alter twent y years. Such mondratitude cannot fail to create the strongest feeling of discontent, and will largely ten

## ITHE NAYX.

CBGEONS II. L. Crocker, L. T. Colthurst, M.A., M.D. J. T. W. S. Kellard, H. Sibbald, Wileiam Thompsox, H. F. Yeo, and G. S. Sxith, who entered be service, March 31st, 1876, are promoted to be Staff-Surgeons from the 3.A. limo. Of these gentlemea, the Royal Navy List says: L. T. Colthurst, A. A., d.D., received the thanks of the Spanisb Government for attention Buenos rourded officer of the Spanish Navy during an attack on the eitian war, 1882 Wres, on June 22nd, (ky, Surgeon olar); also during operations in Eastern Egyptian medal. Khedive's hronze star); also at Suakin for duty, in conjuncoudan, in February and March, led: handent, to nttend wounded from front : ion with oficers of Army Medical Department, to aditional stores for wounded ent to front alter battle of Tamai in charge of additional stores tor peruvian Sunkin clasp). T. M. Sibhaid. Surgeon of Shah when she engaged the Peruvian ebel turret ship Huascar, May 29th, 187\%, off the town of Ylo; served in the two ight torpedo expeditions; mentiuned in despatches; landed with the Shah's aval Brigade during the Zulu war; accompanied the Ekowe relief column sas present at the baftle of Giugihlovo, April 2nd, 1879 (Zulu mednl and elasp), ras present at the bal of Colu wars, served with he Xaval Bripade in Zululnnd; present at the action of Inyezane, January 22nd, he Naval Brigade in Zululnnd; preseqw with Colonel Pearson's column, afterrands joined General Crealock's column and adranced to Port Durnford; menloned in despatches (Zuln medal and clasp). G. Smith, Surgeon of Pimeer lent from Danize) in the expedition up the Niger, $15 \pi$, when several piratical tlages were destroved and severe punishment inflicted on the river pirates: iurgeon of the Penelope at the bombardment of Alexandria, Juy 11th, $1 \times 2$, and iurgeon of the Penelope at the oorn medal, Alexazdria clasp, Khedive's bronze
The followiag appointments have been made at the Admiralty: H. L. Crockea, The followiog appointments have been madeat the Admiralty: I. L. Cas Scout; T. T. W. S. KELLARD. Staff-Surgeon, to the Mutine; R. F. YEO, Staft-Surgeon, o the Hyacinth; Gr. S. Smitr, Staff-Surgeon, to the Kingfisher (all these gentlenen are reappointed on promation); Matthew Digas, surgeon. to Malta liosital; Jous Hustra, Surgeon, to Maulbowline Hospital ; J. M. Rogers, Surran, to the Buzard,
 A5; and Flect-Surgeon, Janumry bth, 1800. Ife retired April Ist, 180 o.

## TIIE MEDICAL STAFF.

Ftrgens 11. M. Ramsat, whe enterel the service January 30th, 18ak. Is apdinted surgenn to the scots Guards vice G.S. Robinson, who has been pronoted to Surgeon-Major.

1) puty Surgeon-Creneral 13. W. Cisfonox is granted retired pay. Ilis comnissions are dated : Assistant-Surgeon, Scptemine $28 t h, 1857$. Surgeou, Angust Ihst, 1972 ; Surgeon-Major, Marrhs 31st, 1813 ; Brigacteserged with the expeS83 ; and Deputy Surgeon-General. Jme 21st. 18s7. fie served wil rit the catlition to China in 156ir, nid was present at the action of Siohm, dan ot tho calure of the Taku Forts (medal with clasp). It is announced in the London Cazetfe of Tuesdny last that the Queen has men pleased in grant unto Surgeon W. II. P'. Lewis, Ifer Iinjesty's loval icence and anthority to accept and wear the iusignia and order of tha Osuanieh of the fourth elass. which Itis Highuess. the khedive of Hgypt. unthorised by IIis Impertal Majesty the Sultan. has lieen pleased to conter upon athorised by in remontion of his bervices with the Egyptian army, whilst netively and entirely employed beyond fler Majesty's dominions.

Surgeon F. 11. BAxTER died at Chelteoharn on March 19th, aged 6\%. His
 $15 t h, 1854$; and Surgeon-hajor, Juy with the honorary rank of Deputy iniskilling Dragoous, and in the l2th Royai in the 54 th Foot, With the Inniskillings in the Crimea from March 9th, 1855. Lancers. IIe was with the Inmiskinge hattle of the Tchernaya, and the siege including tha assanlt on June lsth, the battle of the Tchernaya, and the biege and fall.
medal). $\mathrm{Surgeon-Major} \mathrm{T}. \mathrm{Faris}, \mathrm{M.B.}$. to the Medical Stafi Corps, and is stationed at headquarters.
Surgeon-Major W. Jonsstox, M.B., has entered on his duties as the Officer Commanding at th

THE INDLAN MEDICAL SERVICE
Surgeon-Major T. C. H. SpFencer, Madras Establishment, is directed to do general duty in the Ceded District.
Surgeon-Major A. Barry, M.I., Bombay Establishment. is promoted to be Brigade-Surgeon from February 26 th, vice Y. S. Turnbull, M.D., promoted to Brigade-Surgeon from February 2fth, vice ${ }^{\text {Ded }}$. Tho warin Ahyssinia in lo6i-68 Deputy Surgeon-General. Dr Barry served he took part in the mareh to the (medal), and in the Aighan war under Major-General Phavre (medal).
relief of Candahar with the free Mn, M.B. Bengal Establishment, is appointed fern torekeper at Meean Meer, vice Surgeon-Major G. A. Dundas, deceased.
Surgeon S. C. NaxDr, M.B., Bengal Establishment, is appointod to the medical charge of the 13th Native Infantre, vice Surgeon-Major W. Finden, resigned. on appointment to the ith Native Caralry; Surgeon C. E.L. GILbert is appointed afficiating medical officer pending the retum of Surgeon Nandi from Upper Burmah.
The undermentioned officers, all of the Beugal Bstablishment, are appointerl to the officiating medical charge of the regimeuts aamed:-Surgeon-Major W. Findes, ith Native Cavalry, vice Surgeon II. Henley; Surgeon F. M. Ned leave; 2nd Battalion 3rd Goorkhas, vice Surgeon-Major F. A. Smyth, granted leave Surgeon J. MonwonD. M.D., 30th Punjab Infantry, vice F. W. Thomson; Sur-geon-Major W. H. W. NiLinT, 9th Bengal Lancers, granted leave ; Surgeon A. W. Avcock, ith Pumjab A. R. Jolurfe, 5th Punjah Infantry, vice Surgeon A. W. Mackenzie.
The undermentioned gentlemen have leave of absence for the periods specified :-Surmen-Major Gr. C. Hall. Bengal Establishment, Superintendent of the Central Gaol at Allahabad, for 182 days nn private affairs; Surgeon F. P. MacCartie, M.B., Bormbay Establishment, Health Officer of the Port of Bombay, for eighteen months; Surgeon-1ajor J. W. Clarksor, Bornbay Establishment, Deputy Sanitary Commissioner Western Registration District, for one year on medical certificate.
one year ou medical certicate. Bitanaln. Bengal Establishment, retined, died at' Brighton on April 5th, at the age of 63.

## THE VOLLNTEERS.

Strgeon W. P. Ramlins, M.D., Surgeon to the Honourable Artillery Company retires into the Vetcran Company, with the hoorary rank of Surgeon-Major,
 and
1873.
Acting-Surgeon T. Fraser, 3I.B., of the 1st Berwick-on-Tweed Artillery, has resigned his appoint ment, which dates from July 27th, 1881.
Acting-Surgean E. R. Brackett, M.D., of the 1st Volumteer Brigade, Eastern Division, Royal Artillery (late the Ist Norfolk Artillery), has also resigned, his commission bore date Norember 1sth, 1852.
Acting-Surgeon E. F. RLiot, of the 3rd Volunteet Brigade, Southern Division Royal Artillery (late the lst llampshire Artillery), is promoted to be Surgeon in the same corps. Which he joined on September 3rd, last, as Actingedfordshige Surgeon.A. T. BRETT, M.D., of the 2nd Volunteer Brigade. Bedrardsk ai Regiment (form
Mrgeon-Major. Richarn Lake, formerly a Surgeon in the London Division of the Flunteer Medical Staff Corps, has been appointed Acting-Surgeon to the ith Middlesex (West London).

## MEDICO-LEGAL AND MEDICO-ETHICAL.

Antiffbrin.-We see nothing unprofessinal in the conrse proposel. It is a matter rather of discretion than of professional etiquet te.
F. A. DackT. - It is a question of ecatmet, and depends on the wording of the note. If we saw a copy of it we should then be able to adrisc

## FELS TO DENIISTS.

IN reaponse 10 is $D$ is In respansc 10 ". A. inere is de fucto no reciprocit 5 of practive bet ween the know tedge extends. there is de fucto no reciphecet, does there appear to le professions of medicinc and dentistry; ner. incir fees to medical men. Some auy gencral rule amoug dentists in regarise obligations, and aro content with take a llberal riew of their assumed relative others, again, simply modify their money out of pocket, and ofteu bith lass : others, agsin, charges: while e third-and. happily, a very small section-cerain future loss
 of the practitloner's professional influence mud support. The lee of five guires for "stopping" five teetla needs no emmment.

RIGITT OF ASSISTANTS TO LFGAL FFFS.
, in large town practice, desirous of bhing it more easily and residing in the country, but coming up every day, Saturdiy and Sudday excepted, engage H. as assistant, at a stated salary with a conimlssion on the midwifery, and H. as assistant, at a stated salary wint option of comiug in upon a share any
for a fised perina of time, D. having opment of an arranged prenium, to be dedime during that perione of his slare, exteuding over a number of years.

No armangement is cotered Into between them in the signed agreement as to fees for altending and giving evidence at inquesty and courts of justice, the polnt not having heen moated by either A. or R. at the time of signtng the deed. R., nine mentis afterwaris, monsiders he is entitled to these fees, though he dit not claim them at lirat. A. has conceded so far as to give 13. the fee when hoth A. and B. have herel required and received a fee each, but the fee when hoth $A$, and B. have hell required and received a fee each, but
declines ia the matter of ingustan posi-mortems, holding that B. wns ensderlines it the matter of fuqumst and post-mortems, holding that B. wns entthe work, ams that the giving of evidence mad making port-morfens is only part of his iluty lin the earrying on of the practice which he has agreed to do. Which is in the right?
" Taking a common-sense view (ansed, moreover, on the customary provisions mate fand carefully and practically drafted deeds of medieal partnerships) of the points specitied $\$ 11$ our correspondent's commnaieation, we are clearly of opinion that the नiew of the matter as expressed by " $A$." is in strict aceord with right.

## A QUESTIOS OF DAMAGES

M. Writes : For more than two months I hare been attedang a chilit who hat fallen fuwn an open cellar-door and received 3njories to head and chest. The father of the chilil has recently threatened to sue the owner of the cellar for danakes. Yesterday, without aequainting me, another practitioner, at the request of the owner of the cellar, visited and examined my bationt. and this I consiler a breach of profersional etiquettc. If he had called oa me, I woult have hol no objection to his examining my patient, or even acconpanying him. I think that the first duty of a mediml man in such a case is to ascertain from the medleal atteadant if the patieat is in a fit state to receive such a vicit.
"*" The daty which devolved upon the interviewing practitioner is clearly Laid down in the following rule:

- When an employer or other person becomes anxious and apprehensive in regard to the illuess of an employe, or in the case of an impeading action for damages, and the like, and for his personal satislaction requests his own family or another doctor to visit the patient and report to him thereon, it is a duty iacumbent upon the deputed practitioner to point out to the employer or other interested party their respective ethical obligations in the matter; and, prior to making such visit, to solicit and outain the sanction of the medical attendant in the case: otherwise, he will conmmit a grave breach of professional etiquette, and justly subject himself to severe criticism and reprooI."

PAYMENT OF FEES IO SLBSTITLTE.
A. is engaged to atterad a lady, who has a very quick confinement, so that the patient's mother sends for a doctor (B.) who lives close at hand. B. has lelt before $A$. arrives; still the patient requires an attendance of two hours and a lalf, owing to impending collapse, such Jinving been her condition after her last confintment. Frequent vigits were neceasary during the following twelwe atars, and medicine was supplied. B, demandeत half the fee, which was two guloeas. A. wishes to know who ought to pisy It-the patient or A.?

* The only rule within our knowledge that bears on the point submitted by our correspondent is the following (12) extracted from the Code of Medical Eyhies, zud edition, page 71:
" Wheu a practitioner is called in or otherwise reqnested to attend at an accouchement for another, and eompletes the delivery, or is detained for a considcrable time, he is eatitled by custom (except in the case of illness, ctc., prottded for by Intle 3) to one-half of the fee, ptc."
At the same time, we are of opinion that, under the circumstances related, the patient in question may farrly be called upora to pay the half fee demanded by B., and especially if the fee of two guineas incluiles the "frequent Fislts and medicine which were necessary during the tirelve days following the confinement." in reference to which latter point A. will, we think, do well in his own Interest to consult the explatatory note (No.11) on "Midwilery," In the new edition of the Sedico-Chirurgical Tariffs, page 14.


## ILEAVILK IIANDICAPPED.

A. Writes: In my absence urgent casps have been sent on to B . ; he has retainell them, and I have not taken any notlce of it. But if F . happens to be out when a message comes Ior him, his servat comes round to me with B.'s card. requesting me to sce the case for 1 . Thus, lie not only keeps the patients that have sent for him and I have seen, hat, galus those who wonld have been $m y$ patients if I had been in. I wish to clo whatever is profegsional ; but this Is rather heary handicapping.
" " Under the circumstances related hy our correspondent, he may. we think, not only justly regard himself as (to quate his own language) " heasily inandicapped," but unfairly so, in the matter in question. The following is the rule extracted Irem the second edition of the Code of Sfedienl Ethier, page 69. by which practitioneps ahould in similar cases be strictly governed:

When a practittoner is called to an urgent case, either of sudden or olher illness, aceldent, or injury, in a family usually attended by another, he should (inless his further attendance la consultation be desired), when the emergency is proviled for, or on the arrival of the attendant in ordinary, resign the case to the latter; but lue fa entitiod to charge the fanily for his services."

## THE CONSEQUFNCHS OF CATCHIN゙G SCARLET FEVER.

T. S. J. writes: (1) 1 was suhpenam to pive cvidence as princlpal medleal witrioss in a mase for $X$, $v$, an Areidental Insurance Company, it assizes fin Ireland, on March Inth, the terma arranged being first-class expenseq anh
 my oninion, etc. On March gth I fint sewrles fever, and consequently conld


#### Abstract

not altend. On the day of the tria! the company compromised, fiving fi: instead of $£ 1,000$ claimet. I may add that $X$. relied nimost solvelyo on my ev dence, which was oproset to that of the jury. Kinowing that I wanki hay to ge to the trinl, I was anable to take any lermanent appoisitmerst (whleh was offered), and was out of work for over liree weeks, by which I calculat 1 lost fen. AnI 1 entitled to cham this ded? I have been juld for th statement. (2) I was acting as locum tenens for fiftepn days, at rate of fins, per weel On the tenth dsy I was attacked with scarlet fever, which I got Irom patient. Am I entitled to the pay fur tifteen dayes or for ten days ? * (1) Apparently ail the services actually rendereal were ln making th report, which has been paid for. Nofees are ordinnily payable to witnesse unless they attend for the purpose of fiving ovidence. They night be pas able under a special contract, but such contract dues not ajuear in this cisto hare been marle. (2) The engagement being a defintte one for a definite period, the agrae remuneration is payable for the whole tinue. Ilness contructed in the pe formance of the duties is no reason for refnsing payment.


## MEDICO-PARLIAMENTARY.

## HOUSE OF COMMONS.-Thursday, April 5th.

Retirement of Army Medical Officers.-Dr. Tavnen asked th Secretary of State for War whet her the Royal Warrant of Novem ber, 1879 , which gave oflicers of the Army Medical Staff the righ to retire after twenty years' service, was aboutt to be interfere with or set aside; whether the condition of retirement was ir tended as an inducement to medical men to enter the service; an whether the provisions under the said Warrant, if interfered witl would affect the retirement of those medical officers who entere the service since the Warrant was issued.-Mr. E. Stanhopa re plied that it was not intended to prevent medical officers fror retiring after twenty years' serrice, but it was proposed to require reasonable service in a given rank before allowing retirement o the rates permitted for that rank. The power of retiring afte twenty years' service was undonltedly held out as an inducemer to candidates to come forward; and as regards that retirement o £1 a day, no restriction would be placed upon it. The last part graph of the question touched on rested rights. These, as in a other branches of the service. minst he regarded as governed $b$. the rule enunciated by Lord i'enzance's Royal Commission in 187 , that an officer's rights are limited to the rank he holds, and thil rule was embodied in the preamble to the Royal Warrant.

## Friday, April 6th.

Pharmacy Acts Amendment Bill.-Dr. Farquharsox more the second reading of this Bill.-Mr. J. R. Kelle opposed th Bill, on the ground that it wonld alter the whole status chemists' assistants, who would, if this Bill passed, be entirely def prived in many cases of all clance of becoming chemists an druggists. The Bill simply ylaced the chemists' assistants boun hand end foot in the porer of an irresponsible body called th Pharmaceutical Society.
The Horse Tax.-Mr. Mozier asked the Chancellor of the Es chequer whether he could sce his way to permit medical men I keep, at least, one horse each free of horse tax.-Dr. Farquinar sov snid, before the question was answered, he should like to as whether horses used by medical men for professional purpose might not fairly be considered as horses used for trade purpose -The Chancellor of the Exchequer said, in reply: Ifin that there is a precedent for such an exemption as tho honous able member suggests. Up to 1869-70, when the horse tax stoo at one guinea, doctors and ministers of religion paid only half th duty, and this continued till the duty was redueed to 10 s . Gd . ff everybady. The question whether one horse ought to be exempte in the case of doctors and ministers of religion is receiving th consideration of the Government; but it must not be forgotte that excmptions are almost always of an invidions naturc, an that it is difficult, when once you begin making exemptions frot any duty, to know where to draw the line. There is some force $i$ the obserration of the hon. member opposite tlat doctors i country districts do, to a certain extent, come under the definitio of traders. I runst take this opportunity of reminding the Hons that the question of exemptions from horse or wheel tnx, and, it deed, the question of these taxez gencrally, is one between th interests of persons using horses and carts and that of the generi loly of ratepayers. It is not a question hetween the former an the National Exchequer. 1 mention this because 1 see that i many quarters the idea still prevails that these taxes are in som way connected witb the reduction of a peany in the income ta:
the same time, the Government feel that it is essential that see taxes, purely local as they are, should be placed npon the stest possible basis.-Mr. CHasina inquired whether the rscs used by farmers would be exempt.-The Chascemion of E ExCHEqEER said the principle which he wisled to carty out is that horses used for purposes of luxury should be taxed, and se the point any particular trade should be exempt. He rould leration.

## Monday, April 9th.

Medical Practitioners.-Mr. A. Morler asked the Vice-Presint of the Committee of Councl whether registered medical actitioners in the United Kingdom Were afforded privieges a
actising in the United States of America; and whether any zos had been taken or were in contemplation by the Privy uncil, under Section 17 of the Medical Act, 1886, in the direcn of similar privileges being given to legally qualified American actitioners who might be desirous of practising medicine in the ited Kingdom.-Sir W. HART-DrEe replied in the negative to th queations.

## Thursday, April 12th,

Medical Practitioners and their Horses.-Mr. Knatchbuld[GESSEN asked whether medical practitioners were now allowed deduct the expenses of their horses in the calculation of income $x$, as being necessary for the carrying on of their business.- The iANCELLOB OF THE ExChequer: Yes, Sir, if the horses are used lely in the exercise o
e manner auggested

## OBITUARY.

THOMAS HITCIICOCK, M.R.C.S.
E have to announce the death of Mr. Hitchcock, who died at eeke on March 14th, in his seventy-minth year, from heart dis19e. He was born in 1809, and became a pupil of Mr. C. Mayo, Winchester. He afterwards studied at St. Thomas's Mospital, coming a Licentiate of the Apothecaries' Society in 1830 , R.R.C.S. in 1831, extra-Licentiate of the Royal College of Phycians in 1845, and Licentiate in 1859 . For many years he pracsed at Winchester, where he gained the esteem and respect of IL. In 185 I he 5 as appointed Physician to the County Hospital, post which he held for twenty-eight years; on resigning it he 'as appointed Consulting Physician. He held the appointment, $p$ to within six months of his death, of Mledical Fisitor to the iestbrook House Lunatic Asylum, Alton. At the time of his eath Mr. Hitchcock had retired for some years from active pracreviously appointed to theinted county magistrate, having been eased gentleman to the Commission of the Peace. The deiving a helping hand to philanthropic, charitable foremost in and other bjects. He leares issue one son, Colonel T. B. Hitchcock, and wo daughters.

GEORGE IATES, M.R.C.S.ENG., L.S.A.
Pr regret to announce the denth of $\$ 1 \mathrm{r}$. George Iates, late of Perry bar, Birmingham, who died at Leamington, after prolonged illealth due ta renal disease, on April 2nd, aged 66. Mr. Yates was Ir. Alfred Baker's first pupil at the Birmingham General Hosital, and from that time until his deatl ras an earmest morker Ie obtained the diplomas of M.R.C.S.Eng. and L.S.A. in 1844. He pas a member of the Paris Medical Society, and became Resident jurgeon to the Bedford General lnfirmary. Afterwards he was Ionorary Surgeau to the Birmingham General Dispensary. Ile ontributed papers of great interest to the Dublin Quarterly and Midland Quarterly Journals: he read many papers to local nedical societies, and was a constant dehater at their meetings. fe was a good classical sclıolar, and decply interested in physioogieal questions. lle has ended a long professional career geneally esteemed by his professional brethren as a true friend and ronest geutleman.

ROBERT TRATERS, M.B.T.C.D., F.I.Q.C.I'I., Professor of Medical Turisprudence, Dublin.
Un. Robert Travers, whose dentli on Narch 27 th we lave already Humonced, was Professor of Medical Jurisprudence in Trinity oollege, Dublin. IIe graduated in 1832 and became professor in \& 44 . lle did not levote himself to prictice, but rather to purely
literary work. In 1841 he became assistant in Marsh's Library, and he was thus enabled to indulge the tastes which were so strong in him. IIe, however, still maintained his connection with medicine, and, in addition to his ather occupations, he lectured on medical jurisprudence in the Ledwich School of 3cdicine. His lectures were well worked up, full of interest, and instructive, but they were peculiar in style, and some of his laughable class stories, told in quaint and stilted language, are the common property of medical society. To the general body of the profession he was not known, for his habits rere essentially those of the recluse. Ife had a remarkable knowledge of anonymous literature, particularly in that of a theological or patriotic character, and he was always prepared to help any inquirer from the vast stores which he had accumulated. His illness was of short dura-
tion. When tion. When asked what faith he held, he declared "Christianus sum; I die in the faith of the three creeds." To the many students whom he taught and who survire him, his death will cause much

## admiration

## UNIVERSITY INTELLIGENCE.

## UNIVERSITY OF CAMBRIDGE.

IT is expected that the magnificent nerr Chemical Laboratory which has been erected in Downing Street will be partially ready for occupation this term. The laboratory course in pharmacelutical chemistry for the second M.B. examination will be held there daily, beginning on April 23 rd .

Dr. Anningson, Hedical Officer of Health for the Borough, and Secretary of the State Medicine Syndicate, and Mr. Robinson, Assistant to Professor Liveing, announce for the ensuing long vacation a course in Practical Hygiene, suitable for candidates for the Diploma in Public Health Examination in October. The course will include analysis of air, water, and food, and the demonstration of sanitary models. Details may be learned on application to Dr. Anningson or Mr. Robinson, at the Chemical Labaratory.

Professor Macalister announces a course of lectures on the Rudimental Structures in the Human Body, beginning on April 24th.

## PUBLIC HEALTH POOR-LAW MEDICAL SERVICES.

## PIT BURIAL IN SCOTLAND: AMENDMENT OF THE BURIALS ACT.

At a recent meeting of the Glasgow Philosophical Society, Dr. Eben Duncart, President of the Sanitary Section, proposed and carried the following resolutions: "That the Society memorialise the Secretary for Scotland to take steps for the amendment of the Burials Act, so as to place the prirate cemetery companies of Scotland ander the regulations issued by the Home Secretary in 1883 for burial grounds under the Burials Act," and "That it be remitted to the Council of the Sanitary Section to consider what other reforms are required on our present methods of disposal of the dead, and to report."
After referring to the horrors of pit burial in rogue in all the private cemeteries round Glasgow, Dr. Duncan slowed that these cemetery companies were not affected ly the Burials Act. That Act, passed in 1855, provided that every local authority should take compulsory porrers to secure ground for the proper interment of the people, but, unfortumately, there was one clause introduced into the Act which had prevented any benefit being derived from it in Scotland. It ras enacted that local authoritics could make an agrcement mith private cemetery companies to inter their proper. The cemetery companies wermetery companies thought proper. they could do exactly as they under no regulatiou whathe proposed would enable local authorities to deal with that cemeteries, and put a stop to pit burials or other nuisances. present, if a local authority wished to put domn such nuisances, it required to act under the Public Jlealth Act, and to prove to the satisfaction of the sheriff that there was an immediate danger to lealth. Moreorer, country local anthorities had nerer paid the elightest attention to this mattcr. There were three private
cemeteries outside Clasgow that had continued this system of pit burial in spite of nunch pmblic criticism, and yet the local authorities had not bestirred themselves in the least to put an end to this erying nuisance. It was therefore time that Government should tinke up the question, and amend the Act so as to bring these cemeteries under proper supervision.
In the discussion that followed Sheriff Spens stated that the sanitary authorities in rural districts were simply no authorities nt all, so far as doing practical work was concerned. The present state of matters was not only an outrage upon public decency, bat could not ly possibility be consistent with public health.
The President (Dr. J. B. Russell) said the local authority of Glasgow had thought it of so mach importance that they had resolved to endeavour to get power under the Burgh Police (ScotInnd) Bill to make by-laws for the regulation of burial grounds. The whole ditticulty was that there was no power in the hands of the local anthority to enforce regulations that would prevent such is nuisance arising.
= Mralith of English Towns.-In the twenty-eight largest English towns, including London, which have an estimated population of $9,398,273$ persons, 5,766 births and 3,584 deaths Were registered: during the week ending Saturday, April 7th. The annual rate of mortality, which had increased in the three preceding weeks from 20.3 to 1.5 per 1,000 déclined again during the. week under notice to 19.9. The rates in the several towns ranged fram 13.6 in Derby; 14.8 in Brighton, and 15.0 in Halifax and in Sunderland to 23.7 in Salford, 28.1 in Blackburn,; and 29.7 in Manchester. In the twenty-seven provincial towns the mean death-rate was 20.3 per 1,000 , and exceeded by 0.9 the rate recorded in London, which was 19.4 per 1,000 . The 3,584 deaths registered during the reek under notice included 141 which were referred to whooping-cough, 51 to "fever" (principally enteric), 48 to mersles, 46 to scarlet fever, 41 to diarrhoea, 27 to diphtheria, and 17 to small-pox; in all, 371 deaths resulted from these principal zymotic diseases, against 319 and 388 in the two preceding weeks. These 371 deaths were equal to an annual rate of 2.1 per 1,000 ; in London the zymotic death-rate was 2.2, while it averaged 2.0 in the twenty-seven provincial towns, anid ranged from 0.0 in Sunderland, 0.3 in Newcastle-npon-Tyne, and 0.4 in Portsmouth to 3.9 in Blackburn, 4.6 in Salford, and 5.4 in Plymouth. Measles caused the highest proportional fatality in Derby and Plymouth; scarlet fever in Halifax and Blackburn; whooping-cough in Manchester, Liverpool; London, and Salford; and "fever" in Preston, Leicester, and Nottingham. Of the 27 deaths from diphtheria recorded during the week under notice in the twenty-eight towns, 16 'occurred' in London,' 3 in Birmingham, and 3 in Salford. The 17 fatal cases of small-pox included It in Sheffield, I in Manchester, 1 in Halifax, and 1 in Leeds. The number of small-pox patients in the Metropolitan Asylums Hospitals on Saturday, April 7 th, was 8 , of which 3 had been admitted during the reek. These hospitals also contained 1,032 scarlet fever patients on the same date, which showed a further decline from the numbers in recent weeks; 62 cases were admitted during the week, against 94,77 , and 70 in the three preceding weeks. The death-rate from discases of the respiratory organs in London was equal to 5.1 per 1,000 , and was below the average.

Healti of Scotch Tomiss--During the week ending Saturday, April 7 th. 033 births and 501 dcaths were registered in the eight principal Scoteh towns. The annual rate of mortality, which had risen in the three preceding wecks from 21.0 to 23.7 per 1,000 , declined to 21.8 during the week under notice, but c.xceeded by 1.5 per 1,000 the mean rate during the same period in the twenty-eight large Figlish towns. Among these Scotch towns the lowest rates were recordel in Leith and Grecuock, and the highest in Glasgow and Aberdeen. The 551 deaths in these towns during twe week under notice included 51 which were referred to the principal zymotic diseases, equal to an annual rate of 2.0 per $1,00 n$, whicli was slightly below the mean zymotic death-rate during the same period in the large Finglish towns. The higlust zymotic rates were recorded Glasgow and Paisley. The largest proportional fatality of measles occurred in Edinburgh; and of whooping-cough in Glasgow, Aberdeen, and Paisley. Two deaths were referreil to diphtheria in Edinburgh. The mortality from diseases of the respiratory organs in these Scotch towns during the week under notice was oqual to 5.8 per 1,000, against 5.1 in Loadon.

Mealth of Imish Towns.-In the sixteen principal town d tricts of Ireland the deaths registered during the week endi Saturday, April 7 th, were equal to an amnual rate of 27.21 1,000. The lowest rates were recorded in Sligo and Kilkenny, a the highest in Drogheda and Dundalk. The 188 deaths register in Dublin during the week under notice were equal to an aanu rate of 27.8 per 1,000 (against 29.7 and 31.2 in the two precedi wecks), the rate for the same period being only 19.4 in Lond and 22.0 in Edinburgh. The 188 death included 19. which sulted from the principal zymotic diseases (equal to an anni rate of 2.8 per 1,000 ), of which 6 resulted from "fever," 5 fr measles, 4 from whooping-cough, 3 from scarlet fever, and 1 frc diarrheea.

## HOSPITAL AND DISPENSARY MANAGEMENT.

## the cottage hosittal, Tralsall.

In contradiction of the statements made in the Jounval of Mar 3rd, Dr. Maclachlan, Mr. John Wood, and Mr. P. Shore, write follows:-
I. There is always a qualified medical practitioner at the o patient department, which is open on three afternioons in the we 2. The Sisters do not treat fractures without surgical sup. vision.
3. There never has been a case corresponding to, or in the le resembling, that related by the "well informed correspoudent' the boy with the fractured fibula.
4. The patients have fish for dinuer once in the week, in wh cod, fresh herrings, and plaice, play about equal parts in course of the year. The doctor's instructions as to diet and otl matters are, and always have been, faithfully carried out.
5. That "the \&ister in charge carries things with a very h hand," is a vague assertion, but that during the whole time has filled that office, now over nine years, there has never b the smallest friction betreen her and the three doctors who a form the honorary staff of surgeons, is only the bare truth.

## A HOMGOPATHC PEER.

Lord Dxsart, a believer in homeoopathy, has availed himself the opportunity afforded by the projected enlargement of Grantham Hospital (of which he is president) to offer £2g complete the required sum of $£ 350$, and $£ 100$ a year for the $r$ ten years, "on condition that a homoopnathic physician le mitted in the staff of the hospital, with full power of treat patients on that system." The letter came before a meeting of committee on Monday, but its consideration was postponed. governors will of course understand that if any such offer -accepted, the medical staff will undoubtedly feel called upon, accordance with the general rule in the profession, and the ste of opinion which prevails on the subject, to resign.

## MEDICAL NEWS,

Examining Board in Engiand by the Roxal Collpgr, Physictans of London and the Roral Corilege of $S$ arows of Evolatis.-The following gentlemen passed the Sec
Examination in Anatomy and Plysiology at a meeting of Examination in Anatomy and Plyssiology at a meeting of Board of Examiners on April 5th, namely :-
T. A. O. Langston, H. S. Thurston. E. F. Syrett, and H. J. Waring. stuty or St. Bartholomews Hospital. G. G. . K. Rannerman, of London Hoo and Mr. Cooke's School of A natomy F. E. Roger, of London Hoyy R. N. Dauiel. J. W, Mactarish, J. R. Harper, , nd s. Zutd dill, of


 of Middlesex Hlospital.
Passed in Anatomy, only.
E. J. II. Buitge, or Guy's Hospital; A. Dalzell, of St. Thomas's Itospital.

Passed in Physiology only.
I. C. B. Swanseger, of Charing Crose IIospital : H. F. Stecle, of Hospital.
Passed in Anatomy and Physiology only on April 6th.
 Maidow, of St. Bartholomerrs Hospithl; ;. T. Whitheed and 1 Maidow, of St. Thamatis Hospita, T. T. Wuond and C. B. Turner, of versity College E. E. . Rack and 'II. L. Curing. Hopra, of Middlesex of King s. Colitege : E. H. Shartinan, of Lloorpool, Edtnburgh, and
minstcr IIospital ; A. K. Barrett. of St. Mary's Hospital ; J. H. Bryant
 Charing Cross Hospital.
Passed in Anatomy only
II. W. Weekes and E. W. Snith, of Universty College; H. V. Prynine. of Tiaiddlesex Hospital: H. T.. Morggn, or Westminster Hospital ; A. Thurne, of St. Mar y's Hospital ; J. L. Blakiston, of King's College:
Passed in l'hysiology only.
R. T. Bakerell. and W. Y. Clamphers, of Lnirensity College; N. Marder, of St. Bartholomew's Hospstal ; A. Laysson, of Midaleser Hospital.
Passed in Anatomy and Physiology, on April 7 th.
C. P. Le Quesne: F. Arthur, C. P. M. Swales J. P. Wightman, and C. H. Liapgrard, of St. Barthonomew's Hospital: H. Burden and E. Du Boisp of St. Thenass hospla
 Iondon Hospital; H.S. Baker. D. J. Jones, and J. B. Wiliams. or Charine Cross Hospital; P. J. Duff. P. Evans, and A. J. Ohanleers, of Lnversity Collego; B. W' Hogarth of Guy's Hopital; L. Rogers and J. C. Wood.
 L.ake, of Westrminster Hospital; P. G. Garrett. of Middleses Hospital.

Passed in Anatomy only.
A. G. R. Cameron and H. M. Phillpotts, of St. Mary's Hospital: II. J. F. Badcock, ol Charing Cross Hosyital; A. Kidd, of Middleses Hospital; J. B. Zemon, of Sl. Bartholomew's Hospital; ; G. Pernet, of Ediuburgh and Universit College; Y: T. Morris, of University College.
Passed in Physiology only.'
W. A. Hampton, of Midaleseex Hospltal : J. W. Davies, of hing's College.

Passed in Anatomy and Physiology on April 9th.
M. L. Margrave, R. Brown, and H. W:C.Austen, of St. Martholomew's Hes pital.; H. E. Girdestone W. H. Miller, H. D. Levick, and J. E. F. Andre
of St Thomasis Hoppinl. F. G. S.' S . Harrey and V . W. Law: of St:
 And E. Jones, of Mirdleses Hositat: A, Ruda, A.T. Coleman, and H.C. De Reazi, of Westmunster Hospital : E. W: M; Higss, of Charing Cross Hospital; ; D. W. Sam wass, of Guy's M1 ospital.
Passed in Anatomy only
H1. Clilt and C. A. Coventon, of St. Bartholomen's Hospital; E. J. Finch, of St. Mary's Hospital; C. H. C. Visick and E. B. Allan, of University Col lege ; J. B. O. Richards and L. J. Minter, or King's College.
Passed in Physiology only.
A. G. Minshanl. or Unlversity College; F. A. Harsant, of Jridulesex Hospital ; I. W. Weit, of London Itospital.

Passed in Anatomy and Pliysiology on April 10th.
A. A. Hewer, P. Furnivall, R. stephens. C. H. Fowler, A. G. Gabe, H. A. Eccles, C. B. Dale, and A. Cuney, of St. Bartholomew's Hospital; H. L. Histch, of St. Mary' Hospital, D. C. Johnston, G. F. Diekinson, F. C.

 Hospital: $\Lambda$. W. Harrisoin, of Westminnster Iospital.
Passed in Anatomy only.
S. H. Rentzsch, of King's College ; T.F. J. Gill: A. G. Mider, and T. G. S. Crouch, of Univereity College; H: Kineritti of London Hosp ital! St. J. B. killery, and H . Kerevill, of 'St.' Bartholomew': Hospital; A. Jeffregs, of St. Thomas's Hoespital.
Passed in Ihysiology only.
J. Mountford, oil Charing Cross Mospital: and C. G. Hopsted, of Charing Cross Hospital and Mr. Cooke's School of Anat tony.
The following Member having passed the necessary examinations on November $24 t h, 25 \mathrm{th}, 23 \mathrm{th}$, and $27 \mathrm{th}, 1886$, and haring sinee attained the legal age (25), was at a meeting of the Council on April $12 t$ th granted his Diploma of Fellow of the College.
ApriP. Newbolt, ciate of membership, January 23nd, 1335, M., B.Durham, of Neweastle and St. Bartholomews Hospital.
The following geutleman having passed the necessary examinations was admitted a Member of the College.
E. L. Haynes, of St. Bartholonew's Hlospital.

## MEDICAL VACANCIES.

The following Vacancies are announced:
BIRKFNHEAD BOROUGH HOSPITAL. - Junior House Surgem. Salary, f50, toard, etc., and extras. Applications by April 16th to the Chairman of the Weeki'g Board.
mrmingilam ginemal dispexsaby.-lhesident Surgeon. Salary, eliso, and £30 extra for cab hira. a Applitations by May loth to A. Furrest, Esq., Secretary.
birmingham general hospital.-Assistant hlouse-Surgeon. Residence, board, etc. Applleations by April $2 y t h$, to the House Governor.
BOROUGH OF BIIGIITON.-Medical Officer of Health. Salary, fs00 ner annum: Applicatlens by May 2ml to F.J. Tillstone, Fisq., Town Clerk.
BRISTOL ROXAL INFIRJEARX.-Honorary Assistant Physicisn (wo outpatients). Applientions by May 5 th to the Secretary.
DURIIAM COUNTY IIOSPITAL.-IIonorary Surgeon. Applications hy April soth to the Secretary.
DURIAAM COUNTY IOSPITAL.-Kunorary Surgeon-Dentist. Applications by Alril 30 th to the Secretary.
DURHAM UNION WORKHOUSM, - Medical Oficer. Salary, £50, and extras. Apylications by A pril 2oth to William Liste, Esq., Clerk to the Guardians, ${ }^{33}$, Saller Street, Durbam.
LIDDELS PROVIDENT DISPENSARY, Jarrow-on-Tyne.-Medical Oficer. Salary, £200. Applicatious to Joliu Cluristie, Esq., 23 , Coblen Street,
Jarrow.

LIVERPOOL STANLEX HOSPITAL.-Junior Honse-Surgeon. Salary, fir, with board, etc. Applications by April 19th to the Ilonorary Secretary.
LIVERPOOL STANLEY HOSPITAL. - Senior House-Sorgeon. Salary, ea, with board, etc. Applicatlons by April 19th to the Hono1ary Secretary,
NORFOLK COUNTY ASYLUM, Thorpe, near Norwich.-Junlor Assistant Medical Officer. Salary, f100, with board, etc. Applications by April 21 st to Dr. Thompson, Medical Suqerinteudent.
NORTII-WEST LONDON HOSPITAL, Kentish Town Road.-Senior Resident Medical Officer. Applications by April 23 rd to the Secretary.
OLGHTERARD UNION, Cloonbur No. 2 Dispensary.-Medical Officer. Salary. £102 per annum and fees. Applications to Mr. Jamed Mipgins, Honoraiy Seoretary, Election on Aprililith.
OLGIITEIRARD UNION, Lettermore Dispensary.-Merical Oficer. Salary. f132 per annum and fees. Applinations to Mr. Joho Wallace, Honorary Secithery, Tully, Inverna, Wecvion on April 17 th.
PARISII OF TAMBAT EUSTBE, Ross-shire, :N.B.-Medical Officer. Salary, £115. Applications to Finlay Munro, Rockfield-hy-Fearu, Ioss-shire, N.B.
ROTHERHAM MOSPITAL.-Assistant House-Surgeon. Board, etc. Ipplications by April 27th to the House-Surgeon
ST. LUKE'S HOSYITAL.-Resident Clinjcal Assistant. Board and lodging. Applications by April $26 i h$ to the Secretary.

## MEDIOAL APPOINTIEENTS.

Bownes, Charles S., L.R.C.S. and L.M.E., L.F.P.and S.G., L.R.C.P., appointed House-Surgeon to theRoyal Jafirmary, Glasgow. 't
Braine, Woodhonge, L.R.C.P., F.R.C.S., appointed Ansesthetist to St. Peter's Hospital for Stone. Henrietta street, W.L:
Cleyow, Frank G., M.B., C.M. Edin., appointed Resident Medical Offer to the British Seamen's Hospital, Cronstailt, St. Petersbarg.
Fisher. Alfred, M.R.C.S.Ebg., L.R.C.P.Edin., appointed Honorary Mredical Officer to the No. 2 District of the Ladies' Charity and Lying-iu JLospital, Liverpoel, vice William O. Pughe, M.B. Lond., resigned.
FOURQEEMIN, George V., L.R.C.P., L.R.C.S., L.M.Fd;, appointed Resident Medical Officer to the St. Aelen's Friendly Societies' Medical sid Associstion, vice A. M. Hynes, L.R.C.P., M.J.C.S.
Gemmeli, John E., M.B., C.M.Edia., te., appointed ILonorary Medical Officer to the No. 4 District of the Ladies' Charity and Lying-in Ilospital, Offcer to the No. Liverpool, vice Meyer J. Bernstein, M.B., C.M.Edin, resigned.
Holses, Thomas D. H., M.B., C.M.Ed., appoioted Assistant Medical Officer to the East Riding Asylum.
Mecrax, Joseph, M.B., C.M., late Iesident Assistant at the Glasgow Royal Infirmary, appointed Resident Assistant Medical Officer to the Glasgow Town Hospital.
Mine, J. B., M.B., C.M., appointed House-Surgeon to the Dewsbury and District Geueral Infirmary, vice Alexander Milne, M.B., C,M., resigneat.
Mchinstry, W. H., M.B., M.Ch., appointed Assistant Surgeon to the Liverpool Dispensaries.
PEDLER, William Frederick, M.R,C.S.Fng\%. L.R.C.P.Lond., L.SCA., appointed House-Surgeon to the kichmond Hospital, vice W. A. Payge, resigned.
Roistos, J. R., M.R.C.S.Eng., appointed Honoriwy Ophthaluic Surgeon to the Royal Albert Hospital, Devonport.
Simpson, Samuel, M.B. ani B.Ch.Dub:, appointed Second Assistant Merlical Officer to the Somerset and Bath Asylum, vice W. S. Banaes, M.I)., resigned.
SMrTH, W. J. S., M.B., C.M.Ed., appointed Temporary Assistant Medical Officer to the Essex Lunatic Asylum, Brentwood.
Watsor, Thomas Alfred, M.B., C.M.Edin., appolnted Assistant Resident Medical Officer to the Woolwich Livion Intirmary. Plumstead, S.E., vice J. М. Саw, M.B., C.M., resigued.

Webi, J. B., M.R.C.S.Eng., L.IL.O.P.Lond., appointed Assistant-Surgeon to the Liverpool Dispensaries.
WHirbr, Charles J., B.A., M.B.Cantab., appeinted Resideat Assistaat-Surgeon to the Liverpool Dispensaries (East).
Wills, William Mlfred, M.B.Lond, M.R.C.S., appointed Medical Registrar to the Westminster Hospital, vice Dr. Syers, resigned.
Guy's Lospital Hedicai School.-The Michael Harris prize in anatomy, value £10, has been awarded to Mr. J. Il. Bryant, of Ilminster; the Beaney prize in pathology; ralue 30 guineas, to Mr. E. II. Starling, of Eombay; and the Golding Lixd prize for diagnosis, ralue 33 guineas, to 31 r. R. D. Nothersole, of Colehester.

St. John Ambleince Assocration.-We learn from Mr. Hugh Lane, of Bath, that the whole of the caudidates of the Bath Ladies Branch of the St. John Ambulanee Association obtained certificates of competenes at the recent examination.

A tablet bearing a portrait of the late Dr. Austin Flint, ereeted in the Carnegie Laboratory by the Alumni Association of the Lellevue Hospital, Now York, was recently unveiled by the President of the Medical College.
A Bnec has been introduced into the Ilouse of Assembly with the object of providing the United States with a national Pharmacopaia.
The will of Dr. Nobert Palmer Clayton, of Denly Dale, Huddersfield, has heeu proved, the personal estate amounting to over $£ 14,000$.

The Parkf.s Muselim, Margaret Street, S.W.-His Grace the Duke of Westminster, K.G., has made a donation of $£ 100$ to this Juseum in aid of its work of practical teaching and demonatrating sanitary science.

## MEETINGS OF SOCIETUES DURING THE NEXT WEEK.

## MONDAT.

Medical_Societr of London. 8.30 P.M.-Mr. Damer Harrison, of Liverpool Cerebral Abscess treated by Operation, Dr. J. Miluer Fother cill : Small nad Morlerate Valvilar Lesione of the Heart.
Society of Arts, \& p.m.-Mr. Rlchard Manu?ster, F.I.C., F.C.S.: The Cantor Lectures on Milk Supply and Butter and Cbeese Making Lecture II.

## TUESDAY.

Pathological Soctety of London, 8.30 P.M.-Specimeda: Mr. Shattock: Rare kiad of Pedunculated Body ia Knee-joint. Mr. Sharkey : Alcoholic Paralysis of Phrenic. Pneumogastric, and other Nerves. Mr. Bowlby : Some Cascs of Gangrene. Mr. Doraa : Primary Cancer of Fallopian Tube. Dr. Q. Grifitbs: Tuniour io Neck favading Jugular Veias. Mr. Bruce Clarke: Sloughing of Bladder followiog Cystitis. Mr. Slleock: Cystic DIsease, io Testis. Card Specimeos: Mr. Bowlby: Uausual Forms of Loose Bodies from Knee-joint. Dr, Ledlard: Enlarged Bursa Patelle with Out crowths from Walls. Dr. N. Dalton: Gummata in Liver of an lofant.
Ioral hedical Bexerolent Colifge, Epsom.-Twenty-fourth Annual Feetival at the liftel Metropole, at ; P.M.

TEEDNESDAY.
Axatomcal Soctety of Great Bratan avd Jreland, St. Bartholomew'a Hospital, 4.45 P.M.

THURSDAX.
Parete Museve of Mygiene, 5 p. M.-Mr. Justice Cuaniagham: On the Public Ifealth in India.
Harfeasy Soctety of London, 8.30 p.m.-Dr. Braxton IIicks, F.R.S.: Two Cases of Ovariotomy complicated with Pregrancy. Dr. Frankish: Oa Venesection.

## FIEIDAY

Society of Medical Officers of lifalth, 7.30 p. M. - The Councll will preseat reports on: (1) The Journal of the Society; (2) The Local Government Bill. The following papers will be read: C Watts Parkinson M.R.O.S Notes of an Epldemic of Pneumonia. J. F.J.Srikes, M.B., B.Sc.: Verification and Certification of Deaths.

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserling anaouncements of Births, Marriages, and Deaths is 3s. 6d., which should be forwarded in stamps with the annouscement.

BIRTHS.
Browse.-On Aprl 9th, the wife of Samuel Browne, M.D., late Royal Navy Medical Officer to 1I. M. Prison, Warwick, of a son.
Dartiell.-At Rochester, on April 4th, the wife of William A. Dartnell, surgeon, of a son.
GRiffitha.-On April 8th, at 18, St. George's Terrace, S.W., the wife of Herbert T. Griffiths, M.D., of as son.
MCCAw.-On April ith, at Atha House, Portgleaode, Belfast, the wife of J. Dysart MeCaw, H.D., F.R.C.S., of a son.
marriages.
Achand-Githl.-On April 12th, at All Saiots' Church, Margaret Street, Londoa, by the Right. Jev. the Lord Bishop of Lincoln. assisted by the Rev. A. B. Cotton, uncle of the bridegroom. Theodore Dyke Acland, third son of Sir Henry Acland, K.C.B., F.iN.S., of Oxtord, to Caroline Cameron, daughter of Sir Wllliam W. Gull, Bart., F.R.S.
Haumalrtafr-Pattensos.-On April 5th, at St. Mart's Church, Gateshead. by the Rector, the Rev. W. Moore ISde. LIenry Spelma Banmpartaer M.B., M.S., M.B.C.S., etc., Newcastle-on-Tymo, youngest son of John Dercy Baumgartner, Esq., J.P.. of Gorleston, Suffotk, to Ethel Mawson, aecond danghter of John Pattinson. Hiq.. Shipcotellouse, Gateshead.
Evang-Babton.-Oa April 11th, at St. Mary's, Batham, Charles Silvester Evans, M.B. of Shafteshury, Dorset, son of the Iate Benjamin Evans, F.R.C.S., of Brixton, to Lilian Mary, daughter of George Mitchell Barton, Eqa., ol Calcuttr.
Flood-Sproulf.-On April 4th, at Omagh, hy the Rev. W. Colquhnun, aasisted by the Rev. - Ifonston. Surgern S. J. Flood. Army Medical Stanf, youngest by the Rev. - Ifonston in Furgerns. D. Fintort, fo. Vermanagh, to Marion, only daughter of 1 K . Sproule, Jisq.. J. J., I 1 tsh Land Commissloner, Coolnagarde, co. Tyrone.
Hiackson-Durism.-On April 1th, at St. Gororges, Hanover Square, by the Rev. William Rogers, S.A., Kertor nf St. Botolph's. Bishopsgate, and Chaplaio la Ordinary to the Queen, John Godfrey llickson, ann ot the late Jamea llicksnn, of Highgate, to KHen Lucy (Nellic), Recond alaughter uf Arthur E. Durham, F.K.C.S., of \&2, Brook Street, Grosvenor Square, W.
Lsors-Convack.-On January 21st, at St. Paul's Procathedral. Melhnurne, Victorla, by the Rev. G. F. Bromby, J.I., Brigade-surgeon R. T. Lyona, A.1)., to IVelea lose, cllest danghter of the late Sir Joha Kose Cormack. M.1., of Paris.

Rombothan-AnBott. - On Amril fith, at ft. Mary'g, Bideford, Devon, by the Kev, Hoger Gmaville, M.A.. Jiertir, Herlert Claude Rowbotham, surgeon, Beltourae, Derbybhire. sinn of the late Dr. Howbotham, of Woolwich, 10 Jessie Caroline, danghter of John Ablent, of Bicuford.

ROYAL COLLEGE OF SURGEONS OF ENGLAND
Tur quarterly meeting of the Council was held on Thursday April 12th, 1888.

The minutes of the ordinary Council on March 8 th were confirmed
Mr. Sihert Cowell was appointed Assistant Secretary of the College.

The minutes of the Jacksonian Committce on April Ilth wert read as the report from that Committee, The Committee havin adjudged the Jacksonian Prize for the past year to the author o the dissertation bearing the motto "Thorough," the Presiden opened the scaled envelope hearing the aforesaid motto, an declared the name written therein to be Edwin Hurry Fenwick.

The Council also recognise the merits of the dissertation hear ing the motto "Veritas" as deserving of special mention; and $i$ was resolved to open the envelope bearing the said motto, upor which it appeared that the author was Mr. F. A. Southam, 0 Manchester. Both these gentlemen were invited to attend thi next meeting of Council.

The following was declared to be the subject of the Jacksonias Prize for the ensuing year 1889, namely:-The Pathology, Diag nosis, and Surgical Treatment of Intracranial Abscess and Tumous
$\Delta$ report, dated March 20 th, 1888 , from the Committee of Man agement of the Examining Board in England by the Royal Colleg of Physicians and the Royal College of Surgeons was approvec adopted, and entered on the minutes.

The Committee reported that, in consideration of the necessar. additional work which had fallen on the staff during the pas year, involving as it did a considerable extension of the offic hours beyond those originally contemplated, the Committee ha thought it right to recognise their services by awarding to th Secretary fifty guineas, to each of the two senior clerks fiftee guineas, and to the junior clerks ten guineas.

A report, dated April 11th, 1888, from the Committee on th form of the report of the Council to the annual mecting of th Fellows and Members of the College, was approved, adopted, an entered on the minutes.
The report stated that the Committee having, in pursuance the resolution of the Council of March 8 th, 1888 , taken into con sideration the "form of the report of the Council to the annus meeting of the Fellows and Members of the College," had adopte the following report to the Council, namely:

The Committee are of opinion that no aiteration should made in the report so far as the materials from which it is frame are concerned; and that, in addition to the returns as to the es aminations and the statement of accounts, in which no change. necessary, it should only contain, as heretofore, an actual recor of the transactions of the Council ; but the Committee recommen that the form in which the report is drawn up should be altere so as to proride that, in the arrancrement of the several subject discussed and determined by the Council, each subject slioulc within the range of the period to which the report relates, $b$ complete."

A resort, dated April 3rd, 1888 , from the President and Vice-Pres dents on the arrangements for the College lectures was approver adopted, and entered on the minutes. This report was as follow
"The President and Vice-Presidents have to report that, in pul suance of the resolution of the Council of June 9 th, 1887, the have taken into consideration 'the propriety of rearranging tl lectures annually delivered in the College, and of making the more serviceable to the profession;' and that they are not pr pared to recommend to the Council that any alteration should made in the arrangements for the lectures, believing that the pla recently adopted of dividing the lectures amongst several pr fessors has been to sonie extent successful, as evidenced by the in creased attendance upon them, and that it would therefore inopportune at present to make any change in that plan."

It was also agreed that the experiment of the lectures being d livered at 5 P.M. instead of at $4 \mathbf{l}^{\prime}$.M. as hitherto should be tried.

Sir T. Spencer Wells, Bart., Was appointed the Morton Lecture on Cancer and Cancerous Diseases for the jresent year.

A letter of March 15 th was read from the Privy Council statin that the Gorernment had detcrmined to advise ller Jajesty to refi the suliject of the grant of clegrees in medicine and surgery to Royal Commission.

Deputy Surgeon-General Jeffery Allen Martion. C.I., and I! Thomas Annandale, of Edinburgh, Were eleried Fullows und Suction 5 of the charter of the 15 th Victoria arblicable to Mer leers of the Collenge of twenty ycars' stanclin:-

# LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS. 

## GUERIES.

R. H. C. asks to be recommended where to obtain the best kind of portable commode suitable for an linvalid when travelling
E. N. C. asks if there is any institution for the reception of medical men in delicate health, or any home in which a medical man would receive slight medical treatment. Ife would be prepared to pay a small amonnt, say $£ 1$ on 30s. a week.
R. K. C. B. writes: I have a patient, aged $5 \frac{1}{2}$ (girl), who from infaney has passed both fæees sud urine involuntarily. She is not nervous, enjoys good health, and is well developed, both mentally and plysically, for her age, There is no pain or tendarness over the spine. She has been seen by various medical men, and different remedies (including galvanism, which was not applied regularis owing to the patient restding in the country) have been tried, but without any permanent beneft. I should feel gratetul for any hints as to treatment ant prognosis from those who have had similar cases hints as to treatment and prognosis from those wook which deals with the छubject.

## ANSWERS.

SLbgfos F. M. hisiget.-A paper on the determination of proteid bodies in the urine is in type, and will be published shortly.
Rusticts. - The ease has been inquired into by the officers of the British Medical Benevolent Fund, and the lacts are as stated. The circumstances are peculiarly distressing, and the case is stated to be a genulne one.

Congenital Blindness.
H.C.M.G. aska whether there are any institutions for cases of eongenital blind ness, where they would be taught a trade, such as basket-making, etc.
*** Our correspondent will probably be able to obtaln all Information from Dr. Armltage, 34. Cambrldge Square, Hyde Park. Secretary to the Association for the General Welfare of the Dlind. There is also a list of various institutions in Frr's London Charities.

## Treatment of Heartherx.

U.D. writes: In reply to a Member suffering from heartburn, I would recommend him to try the effect of a piece of the best Spanish liquorice, of the size of a pin's head. It may be repeated as often as he needs it, but not in greater quantly at a time.

Pure Wool Clothivg.
A Member asks if there is any way by which irritation of the akin, caused by pure wool clothing may be ehecked or minimised.
*** The irritation diminislies after the elothing has been properly washed and the skin beeomes habituated to the wool. A great deal depends upot obtaining goot material in the first place, and in this respect the English, Scotch, or Welsh goods are far superior to their competitors.

## Ginemological Couch.

Curviry Memrer will find the Rotunda Coneh, advertised by Stewart and Co. Newgate Street, meet his requirements.

Treatment ny Asticipation of Posi-partum H.emorrhage.
Dr. A. II. Newth (IIarward's Heath) writes: I have found the following plan of treatment remarkably successful in several cases in whiel severe fiooding has previnusly and repeatedly taken place, and the patients have made good recoveries.
recoveries.
For some days ar even weeks before give a mixt ure containing dilute sulphurie acid 10 drops. liq. sitychine 4 minims. with a little snlplate of mag. nesia if there is constipation. Just before labour sets in give 5 nimins of strychnie with a dose of ergot, unless the pains are strong. $\dot{\text { inen }}$, towel folded pressure on the uterus during the passage of the cluld. cornerwise, with a knot tied at the back. Directly the placentat is expellen. wash out the uterus with a large quantits of warmi, almost hot, water con-
taining Condr's fluid. Put on a binder or tighten the towel with a firm pad over the uteris.
Dr, G. Anmstrong Atkixson (Neweastleupon-Tyne) writes: In reply 10 Felix," Ifear the account he gives of the stages of labour is ton brief 10 indicate the manner in which he conducts them, expecially as regards the third stage. In his case ohviously one onght very carefully to keep grasring the uterus during the birth of the chish and the placenta, the latter being removed only alter the lapse of at least half an hour fram the conclusionn the second stage. The bladder nught to be emptied slontly betore the chitd is born. After delivery the uterns must be bept within the hand and the organ steadily tonnpressed, from time to time making firmer pressure. If necessary the other hand may be introduced into the vaginal canal or uterne. necessary the other hand may between the two hands. Is a rule, however, I regard the use of hat water injections as detailed by Althill. Fmmett, and more recently by Wilne Murmy, preferable if further means he reqnired.
As to the use of ergat or ergotin in labour. 1 regard any pills as quite nsuless. The Pharmacopocial hrpodermic injectiou of ergotin is as canvenient a preparation, and one giviug as eatisfactory reaults, as any yet tnrmuater prat one must alwars bear in mind how very variable ergot is in quality, and also that it deteriorates, howewer care[ully it be preserved. In the case under diseussion. I would inject the ergotin as soon as the head was born. Any dreatment which would raise the patient's tone before labour would beof great advantage.
Dr. C. T. Broociocse (Brockles. S.E.) writes: In reply to "Felix." who asks for suggestions in the treatment of anticipated post-partum hamorrhage. I
would suggest the administration of miv liq. strychnix twice a day for a month prior to the expected confinement, and the imm contraction not take electricity after the birth of the ehild, should normal coniraction not take place. This can easily be done by means of a Gaiffe battery. price 213 , one ponge belng pressed above the pubes and the other introduced be the hand to the cervix. The sol. ergot in hypoderm.. B. P., is a very reliable prepara tion; mx may he injected deep into the gluteal region, and repeated if necessary.
Ur. Geohge Entos Stayger writes: In reply to the query of "Felix" in the Jornsal of April ith, I have long been in the habit of administering lia strychnix mivter lie for a month before the completion of the term.
Dr. Josepr Thompsos (Nottingham) or rites: If "Felix" will give his patient minme of liq. atrychnix in tincture of orange peel three times a day for a month or six weeks before her confinement, I think she will have no hemorrhage.
Amcus writes: In answer to the inquiry of "Felix" as to the treatment to be adopted in a case where post-partum hamorrhage has occurren after tiree previous confinementa, may 1 auggest to him a trial of styen 4 or 5 minims of the official solution. three times a day, with or without iron as advisable? In two cases in my practice, where auch bxmorrbage har ascurred trice and fon times respectively in former labours, this treatment during two months before the expected time was most satisfactors. The during two montions contractions were more forcible, and no atony followed the expulsion of the placenta.

Practice m Anerica.
YiNKEF writes : In reply to "Stars and Stripes," I beg to state that be can practise ju all the States, with the exception of New York, Pennsyivania, aud Illineis. These States demand an examination which is rather severe, parIicularly for an Englishman. It would ve a great advantage for anyone coultion fee is thirty dollars (about £6) in the States requiring registration.
tion fee is thirty dolars trabomest of Tracheal Cocgh.
Treatmest of Tracheal Coegh. Mr. Lockhart Stephevs of absorbent cotton in the hot water of any ordinary to be placed on a pledged for ten or fifteen minutes three or four times form of inhaler. to be used or ten or he has had nuder close observation four daily. During the past six monthich the eongh was the most prominent cases of incipient phthisis, symptom, and la all the congh ceased alter well, and are very grateful for the four to six days; all the patients are dolng well, and are vad had full trial, and relief afforded. He adds that in these cases sedatives had had fuld exial, and bad failed. No remedy, in bis personal experience, gives such relief as pinol inlalations. The makers of plnol are Messrs. Burroughs, Wellcome and Co.. Snow IIill Buildings.

## NOTES, LETTERS, ETC.

## The Belget.

Menict's writes: The elassing a dnetor's horses as "pleasure horses" and his arriages as used for purposes of luxury is rery unjust. 1 doubt if they are so used in any sense on lialf a dozen oceasions in the course of the jear. Owing to our practice being in a mixed suburhan and country district cen miles from town. my partners and myself are obliged to keep two horses eael. and, owing to the distances we have to travel and the often beavy state of the roads, it is sometimes necessary, in order to get orer the ground quickly, to dive a pair. Our rents and lomi rates are rery heayr, so that this additional laxation will press on us with inereased severity. I see that already lettera fron medieal men in protest have appeared in the lay press, and Ifeel conndent that any nseasure so injurinosed by the leaders of the British Medical poorlr-paid p

The Late Mr. J. Teftan.
Mr. A. Teftas (Ballarat. Victoria) writes: There was a slight mistake in the oblt uary notlce of my uncle, the late Mr. James Teevan, Which appeared in the Jocinvil of Novernber 2ith, 1887 . He had three brothers in the protession instead of two, uanely, William Teeran, of Bryanston Square father of the instead of Wro, Willam Frederick Teevan, of Portman Square. Dr. Ifenry Tevzn, late Mr. William Frederick Teevas, M: John Teevan, of Woodside. Croydon of Dunedin, Mewael Teevan, of Kensiugton, both of whom hat at the time of their death retlred from practice.

## A Case of Distrers.

Per Dr. W. II. Broadvent Sir Williann Gull, Bart. Dr. Qnain
Dr. Henry Savage ...
Two Friends. R. P. T. and G. A. W. (St. BartholoG. A.
E. . . II. Rowe. Esq., Sur-geom-Yajor U.S.
J. N. Winter, Esq.. Brightou

Dr. Carlyle Bentty, Alassio.
Ttaly...
G. Matloy, Jisq., Clifton

Per Dr. Johun M. Bright
Per Dr. John 3irer. Bart..
Further domations in aid of the family will be gratefulls received by Dr. Genrge C. Jouson, 16. S
Part Iill, Forest Hill. S.E.

Old Clothes: AN Appeal to the Benetolent.
i Sr. Edward Eist (16. Üpper Berheles Street, Portman. Square, W.), Henorary NR. EDTARD EAST (io. Secretary of the British liedical bene sort for men, women, or chlldren. and neert of some cast-oft elothing of teel very much obliged if any find fiends could help me br ending a shall feel very much obliged if any aind in assure thei- betng well used and few articles to me at this address. I ean assure the
most thankful? receiven, Great-coats and warm clothing for men, jachets
and underelothlag of all sorts, I can alwagn find a phace for, and I ask this from ladles and gentlemen for ladfes and gentlemen who have fallen on hard tlmes.

Plackata pravia.
Dr. O. F. Fella:R (Ielecster) writes: I was cabled to ree a wonan (pregnant 8 montlis) attacked with sovere fhoding. On my arrival I found tho haemorrhagn had erasal, nud ou makhig an exmmintion discovered a mass of clots filling up the vaginal canal, on the removal of which the edge of the placenta coutd be felt present hig thronght the on uteri. The thonght oceured to me that it was a case nf natural sceparution of placenta from Barnes's dangerous' znae, with consequent cessathon of hammorliagr. On making a second vighas examination ten minutes subsequently, I could feel a foot presenting. I declded to leave the case to Nature, watehing narrowly the courso of events, and han the satiefaction to find that the labour was completed without further mishap, the afterbirth followlng the child almost immediately. The woman made an excellent recovery. The child, which was dead, presented a typleally rachltic appearance, and the placenta had undergone well-marked ramollissement.
II. M. D. writes: As a cheap lisue of Dr. Neale's Medical Digest is advert Iscd in your columns, which places the work withln the reach of all, I wish to impress uporr the minds of my husy medical brethren the great value of the work in everyday practice. To вome it mas appear chiefly as a book of refer ence: but in the majority of cases no recourse is needed to the works referred to: e.g., some time since a practitioner, met with a case of halrpin in the urethra, which he skilfuly cut out. But had he glanced at the Digest, a ready means of extmeting it by the end of his thermometer case would have been suggested to him. In a case of mushroom poisoning which proved fatal, $a$ roference to the Digest would have revealed the fact that atropine and pilocarpine are valuable antidotes. In cases of threatened abortion, among the host of remedies reconmended, a peep at the Digesf will indicate that viburullm surpasses all others.

IIERPETIform Eruptios in Tovsillitis.
Mr. Arthur W, Lovfrioge (Newport, Monnouthshire) writes: I was consulted on A pril 6th by Miss A, S., under treatment for pronounced anemia, The fances and both tonsils were acutels inflamed, the latter calarged, and a small ulceration of the pharynx, midway between the two glands, accom panled by the usual febrile symptoms, temperature $103.5^{\circ} \mathrm{F}$. I gave a mixture containing chlorate of potash aad the liq. amm. acet., telling her to take to hud, and that I should secher next day. I did so. but found her sitting up, the thruat trouble slightly relieved, the left tonsil less inflamed, the right nuch the samc, if anythlug larger. But the point of interest la this otherwise ordinary attack is now to be noted.
On the right cheek, exactly in the centre, was a bright circumscribed ery thematous path the size of a half penny, and studded in the centre with numerous small vesicles (herpetic), which nltimately became pustular. My matlent was someshat alarmed, thinking it erysipelas; the patch did not incrense in size at all. The right tonsil became very much larger, in fact touchiug its fellow, which was much reduced, and the whole of the right of the roof of the mouth and neighbouriag parts became cedematous, and the symptoms were so severe that I incised the gland in two places, but failed to come upon pus, though the incisions were deep.
The following day, however, December l2th, the sixth from the commencement. the abscess broke. Desplte fomentations and steam inhalations, the suffering was most acute, Decessitating a nightly opiate. During the whole feriod this curtous patch continued, and, with the abatement of the symptoms, gradually got smaller, and the colour fading, there were no other marks or spots on any mart of the body.

## Professor Stephenson on Midwifery Forceps.

Dr. Archibald D. Macanyald (Iverpool) writes : Whether nustetrie experience is best acquired north or south of the Tweed cannot be decided except by comparison of expericnec on hoth sides of it. But, although another Scetsman. I am inclined to take the sillo of the "well-known authority" quoted liy Professor Stephenson in the Joursal of March 31st, with the addition that I think a goorl deal of unuecessary fuss is made over forceps cases on elther side of the border.

And I ohserve that Professor Stephenson's experience of forceps-in the granite city, presumably-has not enabled him to detect and point out one of the radiral defects of the long forceps in ordinary use. I mean the contlmuation of the first curve of the hindes at the very point, which causes them. in plain words, to "dig into" and unnecessarily mark the foetal parts. The points of fong forceps should tead to return to the straight; and this idea I carried into practice in the use of my indicatin
and तescribed th the Lancet of July 2ath, 1882
As to length, Barnes's le preferable to Simpson's only In a wery few cases: I have had one casc where Barnes's forceps locked at the vulra. As to the blades, I cannot agree wlth Dr. Stephenson; practically, I found the narrow fencstrum and broarler steel to be prelerable ; we exert traction through the part grasped under the stecl, and nelther should we draw nor hold by the bulging of fortal skin through a wilde fenest rum.
The jelvele curve is a mueh thrashed-out subject. Where should it lie when tho Hates are passed well neer the fotal heal? Below the hates. Practice with alnost straght blaces and the curve in the fower part of bloute and
"1piry part of shank supports this proposltion. in me that the parallclograms of forces involved do not mipa a constant resultant in the pelve axis For the tline leling. If a almple plan be desired, it can be applled to any long forceps by dipping two pleces of tape In a disinfectant, such as follzed water, and in carbolle nil, ther passing each through a fenestrnm of Slmpson's forceps, as I onee did in a labour abstrueted at the brim, and pulling the tapes whth the left whlle managling the handles with the right hand.

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## BOOKS, ETC. RECEIVED.

Report on the Mortality and Vital Statistics of the Unltod States, as ret urnt at the Tenth Census (June Ist, 1850). By John S. Billings, Surgeon U, Arms. Part II. Washington Government Printiog Office, 1886, al Plate and Diagrams accompanying Part II of Report on Mortality acd D's Dietionary of the Worli's Press, and Advertisers' Reference Book, $18 \%$ By Heniy Sell. London: Sell's Advertising Agency,
Memory and its Doctors. By Dr. E. Pick, K.F.T. London : Trúbner and Co

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## CLINICAL LECTURE

DISEASES OF THE TONGUE. Delivered at University College Hospital. 13y CIIRISTOPILER 11 EATH, FiR.C.S.,
Holmo Professor of Clinjeal Surgery in University College, Lomdon.
ENTLEMEN, - I propose to-day to speak of the diseases of the? mgue. Of course the tongue is constantly looked at simply as $x$ index of disease elsewhere; and, as far as that is concerned, I not propose to deal with it to-day, but to contine my observons to the surgical diseases of the tongue. I think you will ad'that the. simplest way to consider these will be under three zads, namely, the inflammatory affections of the tongue, the leerations of the tongue, and, lastly, deposits in the tongue. Of uree you will find them given differently by different authors, at, on the whole, I think that it is perhaps as convenient a way putting it as any other.
First, as regards the inflammatory affections of the tongue. bere is, of course, such a thing as acute glossitis, but it is rery re, and you have not had an example of it before you, that I now of, of late-at all events, not in my practice. Still you may eet ivith such a case, and it is well to know that patients are able to a sudden great enlargement and inflammatory swelling the tongue, which looks very formidable for the first few hours, Id may sometimes prove dangerous to the patient's life by inicing suffocation. Iou may oceasionally meet with it coming 1 apparently idiopathically, but more often it seems to be conseted, with the administration of mercury. A patient las been king mercury for some reason; and, it is difficult to say why, gets aeute glossitis. Under these cireumstanees you find ie tongue enormously, swollen, filling up the mouth of the atient and almost suffocating him, and naturally requiring to be, lieved immediately.r. The treatment is extremely simple-by aking an ineision on each side of the median line of the tongue. o not mind a little free bleeding. Bleeding relieves the affeca on, and then with a little fomentation and simple gargles the hole thing subsides in a few hours. It really is not a very imortant affection, although it looks very alarming when you first, e it.
What I want to speak more partieularly about today are the ronic affections of the tongue. We get chronic inflammation of the ingue from various, eauses. Perhaps one of the commonest is the rm which is due ta smoking, for there can beno question whater that tobacco has a deleterious effect upon the mucous memiane of the tongue. If you must smoke, and I suppose in 18 present day it is dificult for any young man not to smoke, ray smoke mild tobncco, and do not use pipes which are satuted with oil, and which, yerhaps, bave, been smoked by other ople.
Now, with regrard to the ehronie glossitis which is produced by de tobreco affection, you will [find that authorities differ about , but I agret with Dr. Barker in his essay in Ifolmes's Surgery lat there is, a coudition of redidened tongue which is an early age of chronic glossitis. When that has passed away you find later stage where you have a development more or less comlete (it varies, of course, in different patients) of a wlite pateh. imay be simply; a lass of epithelium-that is, a common contion which is sometimes known as "glazed tongue"-but you find : addition to that sometimes a development of white tissue in le tongue, of which you see a very good example in one of the lustrations in Mr. Butlin's book. We happen to have a patient ho has been iu No. I ward lately for an, anal affection. 1 lave sinted him out to you when you have gone round, as a remarkly gool example of what is dignified hy the name of "leucoiakia" or "leucoma," and I will now loring him before your and let e remiud you that when you examine a tongue, the first thing Ways is to dry it. I will dry this man's tongue, and then you ill see clearly a white pateh, which is partly the cicatrisation sulting from an operation performed upon it. Here we have good example of the results of chronic slossitis, which at one me seemed likely to run into more serious disease. We have
here a growth developed in the white patch, which at one time looked exceedingly like epithelioma, so much so that the man was admitted into the hospitalin 1866 with the view of having part of tho tongue removed. It was not removed quite so promptly as it would have been but for a Fellowship examination which was coming off, and we wanted the patient to be shown. I postponed the operation, therefore, and during the fortnight or so that he was waiting here the, tongue improved so much under simple treatment that I made up my mind that it could not, be epithelioma, and aceordingly 1 simply scraped away the disease which had sprung up in the white pateh, or beneath it, and the result, as you see, is that the man is now well. II has a perfect tonguo instead of laving lost part of it, and it is quite clear that it was not a ease of epithelioma developing in a patch, but. Was simply hypertrophy of the submucous tissues, the result of chronic inflammation. Let me at the same time warn you that there is no doubt wlatever among those who have carefully observed these cases, that a patient who has a white patch is more liable to ouke to put it inore strongly than that. I do not say that every are patient will hare opithelioma, but his chances of having it are greater than those of a patient who has not a white patch.
The white patch may of course go on and develop into a sort of Warty growth, as you see here in one or two of these pictures, or it may derelop into a condition which is sometimes badly called psoriasis ; or again, it mar develop by still greater irritation into What is sometimes ealled ichthyosis of the tongue. Thes are all degrees of the same disease. Iehthyosis was, the name giren by Mr. IIulke, who first called attention to it ; and it is undoubtedly much nearer epithelioma than the white patch. There is a drawing here in Mr. Clarke's book which illustrates it rery well. It is a very good representation of a highly hypertrophied and roughened mueous membrane. An ichthyotic tongue is so near epithelioma that it is just a question whether you should remove the tongue at onee, or wait until there are positive signs of epithelioma. I think myself, if I had a well developed ichthyotic tongue, I should prefer to have it out at once rather than run any further risk.
How let us take another class of case, where you have a chronic change in the epithelinm due to syphilis. You may have a primary chancre. The, early enlargement of the glands under the chin and jaw is very eharacteristic of chanere; lut do not suppose that you will find that induration which we see so commonly on the penis, because you will not :any more than you do on the lip. The cases of primary chancre on the tonsue are extremely rare ; but you must bear in mind , that a patient may most innocently ret a primary sore upon the tongue from another. If a patient hands, from a mouth which has mueous tubercles in it, a pipe, which musi necessarily have some syphilitic saliva upon it, to another person who has a little sore or crack on the and the patient conceirable that the tongue may become affected, mon than that, but still rather rare, are mncous tubercles find that a patient who has syphilis in the system sometimes develops mucous tuhercles about the tongue. particularly on the back part of the organ.

But the most common syphilitic affection of the tongue is another form of glossitis-chronie glossitis witll cracks in the tongue-whieh is well recognised as the result of seeondary syphilis. The picture iu my hand shows it well. You see the loss of epithelium in the centre of the tongue, and round the sides you see it craeked, cicatrised tongue. Thosa deep cracks, sometimes rumning quite far into the tongue, are, is characteristic us anything you ean have of secondary syphilis. Then, if you go further and follow out syplilis, of course you nay have gummata in the tongue: but 1 slall. pht these under the head of deposits, and I will say a word now with regard to the treatment of that whici is so common an affection.
The question arises, in the case of such a tongue as I have described, will you give mercury or iodide of potassium? Certainly, in a tongue like that you had bettor give small doses of mereury. It is true the patient may have had mercury before: but I lind that these patients do better with small doses of mercury-which you can, if you like, combine with iodide-in the form of biniodide or fou may give it separately as liquor hydrargyri perchloridi. The thing I lay most stress on, however, is the loeal application of mercury: These tongues do well if you only pickle them in a mereurial lotion. It is of no use to tell the patients to use a mereurial mouth-wash aud
then spit it ont. They should be twhet to hoht it in their mouths ten minutes hy the watch, and breathe through their noses, so as to get the tongue thoroughly pickled with the lotion. As to the strength of the lotion. I advise you to begin with a quarter of a grain (afterwards getting a little stronger) of perehloride of mescury, witli a little Yoney to mako it more palatable, in an ounce of water. If the process of "pickling" is repeated twice or threc times a day, the effect produced on the tongue is astonishing; the ulcers will heal under the mercurim treatment, tho tongue will eieatrise, and the patient will recover a perfectly useful tongue, in whieh there will be no risk, so far as I linow, of any future development of epithelioma. It is longstanding diseases that develop into epithetioma; but if you cure the disease and make the tongue henlthy, or comparatively healthy, the patient will be no more liable to epithelioma than any other person.

Now let us go on and take the forms of ulceration, which we have from three different sources. You may have the syphilitie nlceration, you may have the tubercular ulceration, and you may also have the epitheliomatous ulceration. Syphilitie uleeration I have already mentioned in connection with sujerficial inflammation of the tongue. It is well that you should remember that there is another form of ulceration connected with syphilis, that is the nlcerated gumma. Some months ago we had in the hospital an old man, a foreigner, with very well marked ulcerated gumma on one side of the congue. I took him in hecause he could not be attended at home, and he got steadily better nnder good treatment. He was lere a week or two ago to show his tongue, and 1 then called your attention to how very much it was improved. The treatment of these nlcerated gummata is of course a little different from that of the ulcers occurring in the earlier stage of syphilis. Where you have ulcerated gummata of the tongue, it would be unwise to pusli mercury. You give iodille of potassium, and improve the patient's health in every possible way; and if you use the mercurial wash, not stronger than a $\frac{1}{4}$ to a $\frac{1}{2}$ grain to the ounce, you certainly get those tongues hetter.
The tubercular ulcer of the tongue is not a very common thing, and you see it more often in private practice than in the hospital. It usually occurs at the tip of the tongue, and is I beliere very often determined by irritation from the teeth; at all events, I hive found that by covering the teeth with gutta-percha, so as to prevent the tongue being rubbed against the liack of the tecth, 1 have been able to get these tongues very mach better. Here is nn example in Butlin's book of a well-marked uleer of the tip of the tongue, and where you find an nleer in that condition you will generally find some evidence of tubercle in the lungs or other parts of the body. An ulcer like that you must treat as you would treat an ordinary tubercular ulcer elsewhere, namely, by scraping away all the diseased tissue. You may or may not find tubercle hacilli in it. I am not prepared to sny which is more common, hut at all events you should serape the uleer, and then dress it with iodoform, and treat the patient with cod-liver oil and by general anti-tubercular remedies.
Then we come to the third form, which is the malignant or epiitheliomatous uleer. Now, why does a patient get epithelioma of the tongue? Invariably, 1 belicve, from some irritation. Pationts with perfectly healthy tongues do not get epithelioma. But if rou have a patient who has a white patch treforeland, which is a little irritable, perhays seratched by a tooth, and which is kept in a state of irritation by the constant application of tobaceo juice, one can easily imagine that developing into epithelioma. But as far as my experienee goes, the greater number of eases of epithelioma are simply due to the local irritation of a ragged tooth entting into the tongne; nothing has been done to relieve it, and then at last a development of epithelioma takes place. During the last winter I have seen two middle-aged gentlemen, both of whom harl the very smallest patches of epithelioma that I have ever scen on the tongue from that cause. They both had sharp fiointed teeth, and they were conscious that those teeth had been irritating their tongucs. They went on, however, until at last they began to find something wrong, and then they took advice. In both cases 1 cut out the piece, and it was simply mucous memirane that was affected by the disease, which did not go down into the muscular fibre of the tongue at all; but still in hoth cases ihpre was well-marked microscopie evidence of epithelioma. One may hore that by suel an early removal as that, the patient may Ho completely relinved of tha disease. Still, the great thing is to peevent the oceurrenee of warll rases. lam happy to say that fentiota are becoming better instrunted every day; they are more
alive than they were to the importance of irritation caused by teeth, and they do send on cases at once, when they find anything suspicious nbout the tongue, to medieal men and surgeons to aee what the matter is. Too often, however, patients themselves are content to let the thing go on; and then at last they come with a ragged uleer, which is undoubtedly epitheliomatous.

I quite allow that the very early stage of epithelioma is a little difficult to recognise; hit when the uleer is well developed, and the induration at its hase has become well formed, no one can hesitate for a moment. Here we have three examples of epithelioma. An epitheliomatous ulcer is not simply an uleer but an ulcer with a growth, a growth springing up at the edges of the bese and forming a protrusion, sometines a distinct protrasion, as in this particular case, but more often like this other case, an indurated base of the uleer with well marked grannlations coming up into the cavity. Unfortunately, you have geet many of these cases, because we have a great many in the hos pital at varions times, and in hospital practice they do not come until very late, so late that generally the glands are enlarged. J3u in private practice we see them rather earlier, before the gland are enlarged, and I want particularly to impress upon you th importance of not waiting for the glands to become affected. I is rery absurd that a surgeon should think to himself, "This can not be cancer hecanse there is no eulargement of the glands," an then deliberately wait and watch to see whether the gland become affected or not before he makes his diagnosis. That is a very good as regards diagnosis but very bad as regards th patient, and the patient who is waited for in that way is hadl. treated, for you ought, if po
the glands become affected.
Let me now say a word about diagnosis, because that is reall the important point. How will you diagnose a case of epithel oma when yon see it? In the first place by the position. It more generally at the edge and side of the tongue than anywher else, and the history is pretty conclusive. You will find that $f$ c weeks or months the patient has had some irritation about th tongue ; he has had an ulcer which has too often heen eonstantl irritated by the application of nitrate of silver, and has develope more and more until there is the characteristic growth in the ba be tenderness of the glands of the neek. The pain, too, characteristic; the patient tells you that it shoots up into the ea 1 always dread that phrase, and never prompt a patient to but as sure as he does so it is a case of cancer of the tongue.
Lastly, we have the deposits in the tongue, which I have mer tioned incidentally, and which are of tro kinds, the epitheliom tous, which always follows the ulcer and extends beneath i and the gumma, which develops, as a rule, in the central portio of the tongue, and is apt to break down and give rise to a formi able-looking nleer, as already described. Unquestionably ulcerated gumma may develop into epithelioma, and it is the mixed cases which apparently improve for a
potassium, and yet prove malignant after all

What, then, is to be done for cancer of the tongue? Undoul edly to palliate these cases is merely to lose valuable time, ar the so-called "cancer cures" are simply swindles on the publi Chian turpentine stands on a different footing altogether, and have used it where 1 thought it right as an adjuvant to surgi trentment. but I confess that I have never seen any benefit frote
it whatever. I have even sent a patient on whom I had operate and who had a return of the disease, by his orvn wish, to 1 Clay, of Birmingham, that he might himself carry out the tren ment ; but the patient died under the treatment, just as he wou have done without it, and in about the same time, without havil received the slightest benefit. I do not think there is any speci cure for cancer, and the only chance for the patient is to get rid it as early as possible.

That brings me to the question of operations on the tongu Of course there are many, but 1 am not going to trouble you wi them all; it will he sufficient to tell you what we do here at, t present time. We liave all come, in most cases, to removing $t$ tongue with scissors. Years ago, as you will find if you look in the records of the hospital, the galvanic écraseur was used, We gave it up because it led to secondary hemorriage answers well for the time, if the battery is in good order, and can remove the tongue without bleeding; but you are apt to romesaway. After tbe galvanie feraseur we used the wire écrase The best way of nsing it is Mr. Baker's modification of the oper
tion-namily, to split the tongue down the middle, to loosen it from all its attachments beneath, and then divide with the Ecraseur far back, taking one-half of the tongue at a time. Of course in many cases you remove only half; it is not necessary to remove the whole. We have most of us now given up that operation and gone to the intrabuecal operation with the scissors, generally known as Mr. Whitelead's operation. It is extremely simple. All you have to do is to gag the patient thoroughly-it is important to have a good gag: then, getting a firm hold of the tongue, with the scissors you divide the mucous membrane under the tongue and the muscles, and, drawing the tongue well forward, next divide it at the root, cutting steadily through till the lingual artery is exposed, when you can often pick it up before dividing it. Having done one side, you go to the other, if you remore the whole tongue, and treat it in exactly the same way. The result is that yon get the tongue away as far back as you like with rery little hemorrhage.

Let me say, oul the subject of hæmorrhage, that I myself introducel an improvement in the operation about the tongue some years ago, which I find most surgeons have adopted, namely, that when there is hæmorrhage and you require to stop it, you simply put your fingers down the patient's throat and hook up the base of the tongno and the hyoid bone. I found'that out when assisting my colleagues in removing the tongue. We used to have nccasionally sharpish hremorrhage. It was my business to help to pick up the arteries, and I found that by putting the fingers well down I could stop the bleeding, making the tongue bloodless, and pick up the arteries quietly, as your nuight piek up an artery in a limb.
But then supposing you have disease of the tonguc with enlargement of the glands, should you or should you not operate upon them? For myself I am not particularly fond of removing glands, yet I am obliged to do it from time to time. Where I find a patient has an ulcer of the tongue which is distinctly cancerous with infiltration in the submaxillary glands, I do not hesitate to make an incision and take the glands out. It becomes a little different when the glands of the neck are affected. In my 1.xperience cases where the submaxillary lymphatic glands are not affected and the glands under the sterno-mastoid are affected are the worst possible cases. If you cut out one gland, you find very soon afterwards that another becomes affected; and those patiente, as a rule, have very short lives. Cases where you can remare the glands under the jaw merely do fairly well, as well perhaps as uny of these cases. Because, gfter all, you must remember that recurrence is almost invariable, and one hardly knows of a patient with boni fide epithelioma living more than two years. Then in these cases where the glands are affected you mar have seen some of my colleagues do a very large operation called hocher's operation. You make an incision into the neck, turn up a large flap. and get down upon the glands; you then get hold of the tongue, and you can undouhtedly remore numerous glands and extensive disease of the tongue through that incision. I am not particularly farourable to it. It seems to me that in cases in which there is such extensive disease as to warrant ân operation like that, we had better not interfere with the neck, but content ourselves with removing the tongue. That, however, is my indiridual opinion:
lousaw me in the beginning of last session do an extensive aperation on a man in the private ward, No. I. He was sent up from the country with extensive disease of the tongue and of the submaxillary tissues. Hle was in a miserable state, and anxious to have sompl hing done. I told him plainly that I wonld operate if he wished, but. I could not promise him anything more than temporary relief. On November Ind I npicrated on him. The dismase was so extensive that 1 thonght it better to do trachentomy lirst. I do not usually do tracheotomy in these cases; 1 do not lold with preliminary trachentomy in ordinary operations on the tongue: but this was so exteusive a case that I thonght it riglit In do it.: 1 was then able quietly to romore the whole tongue down to the hyoid bone, and a piece of jaw right up to the masseter on each side, and all the infittrated submaxillary tissues. It is not the first tinue that I have done an extensive operation like that. The first case I had was in I876, and the result of it is in the museum. The patient lived certainly four years after the operation, but he did not appear to have' many weeks to live at the time I operated.
Still these extensive operations are not very satisfactory: This rery patient, before he was really well, had a recurrence. The operation was on November ?nd, and he went out on December 2nd convaloscent from tbe operation, but haring already evidencea
of a return of the disease. I heard from the friends that he had s recurrence, but I have not heard. whether he is dead : the poor fellow cannot have long to live.
The satisfactory cases are those where the disease is 'entirely confined to one part of the tongue, where you can get well behind that portion and remove it at once, and where there is no inflitration of the glands. It rests with you, who will see these cases early, to insist upon the patients having an operation in oarly days if there is evidence of disease. When we get that sufficiently insisted on, unquestionably our rate of mortality and our rate of care will very much improve.
The Registrar-General has pointed out tbat cancer is much on the increase. There are two or three explanations. No doubt many cases are put down as cancer which formerly were not recognised as such. Still even if that be so, I think, from my orn observation, there can be no doubt that we do see more cases of cancer of the tongue than we did twenty or thirty years ago. One explanation is, I beliere-you will excuse my saying so-the greater spread of smoking; and another, I think, is the greater spread of syphilis. Those are the tivo main elements which have to do with cancer of the tongue being so much on the increase. I hope that we shall be able to diminish it, and that by taking the cases early and by removing the diseased part thoroughly, we may be able to hold out some prospect to the patient of prolongation of life-we cannot honestly do much more than that at present.

## THE PROCESS OF COMPENSATION AND SONE OF ITS BEARINGS ON PROGNOSTS AND TREATMENT.

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Mr. President and Gentlenen,--Whén my old friend, your esteemed Secretary, asked me in the name of your Council to read a paper and introduce a discussion at this meeting, I felt that it was impossible to refuse such a complimentary incitation, for which I now beg to return you my warmest thànks; but I did not, I fear, sufticiently appreciate the difficulties of the task to which I was committing myself; indeed, it was only after I had accepted your courteous invitation, and when I came to look about me for a subject, that those difficulties became fully apparent. 1 After much consideration and not a little hesitation in coming to a decision, the subject which finally commended itself to me was "the process of compensation and some of its bearings on prognosis and treatment;" and I trust that in selecting this subject my judgment may have guided me correctly, and that it may prove both acceptable to your and the source of a gond debate.
Speaking generally, and using the term in its widest sense, compensation may be said to include all those processes by means of which Nature endeavours to repair a damage done by disease or injury, to protect herself against the injurious results of disease, or to relieve, reduce to a minimum, and make hearahle those results.

The basis of all compensation is the fundamental fact that the human organism as a whole, and each of its individual parts in particular, is, in ordinary circumstances-and granting. of course. that the condition is one of health-working helow its full strength; that, in short, it possesses a large balance or reserve on which it can fall back when any sudden or unusual demand is made upon it.
Now the success of the result-in other words, the completeness of the compensation-depends upon several factors, the mest important of which are:

1. The amount of the reserve.
2. The suddenness and extent of the call: or, in other words. whether time is allowed for the realisation or derelopnent of the reserve.
3. Whether the demand is temporary or continuous: in other words, whether the lesion is stationary or progressive.

I may perhaps be able to make my meaning clearer if I make use of a financial illustration.

1 A paper read before the Border Counties Branch of the British Medical Asacciation at Carlicle on Fehruary 24th, 1898.
(in other words, than the presence of localised pain or tenderness on pressure, or of distinct enlargement of the organ), by which it is possible to ascertain the condition of the kidney which is to remain. The condition of the urine discharged per urethram, is an uncertain guide, for, representing as it does the products of both kidneys, any abnormal constituents which it contains may, of course, be derived from the diseased kidney. I would like to ask whether it may not be possible, by the aid of the electric endoscope which Mr. Hurry Fenwick has recently described, to catheterise the ureters in the male, nnd by obtaining the urine direct from either kiduey, to ascertain the functional condition of each organ individually.

The relative value of life after one of two bilateral organs, such as the lang or kidney, has been destroyed or removed, is a question of distinct practical importance, and one which, so far as know, has not yet received the attention it deserves. The subject is one which might 1 think be profitably taken up by the Collective Inrestigation Committee of the Association.
it is quiteobvious that the life of an individual who has lost one ling in consequence of an empyema or a long standing and one kidney pleurisy with effusion, or of $\Omega$ patient who has loat one kidney, either as the result of a pyelitis, or in consequence of
its having been excised by the surgeon because it was the seat of a tumour, or affected with hydro-nephrosis, bydatid or seat of a tumour, or aflected with hydro-nephrosis, bydatid or cystic diathesis or special pathological tendencies of which the by the disease was a mapator a limited pneumonia or a mall pleuritic effusion, which in a normal individual would be a comparatively trifling condition is, as we all know, attended with the greatest danger when the opposite lung is useless. But irrespective of such obvious and well-known risks, does not, I would ask, the increased strain and functional activity which is thrown apon the remaining sound organ, when its fellow has been defor instance, one kidney has been destroyed or removed, is not the risk of Bright's disease greater than it would be in the same individual, provided that he had two kidneys? I would ask the members of the Branch to give us their experience on these points-to detail, for example, the life-history of cases in which one lung has been rendered useless: by a previous pleurisy or ешруеша.

Compensation in Brain Lesions.-There is perhaps no organ in whioh the results of unilateral damage are more interesting, or require more careful observation than the brain. Consisting as it does of two hemispheres or halves, the different portions of which (areas or centres of grey matter) are, as modern investigation (experimental and clinico-pathological) has shown, endowed with special functional activities, it is a most interesting and important question to determine whether the corresponding centres in the two hemispheres are functionally separate and distinct, or whether they are so related that when one, say a centre in the right hemisphere, is destroyed, the damage may not be compensated, in other words, the function taken up and carried on by the corresponding centre on the opposite (Bay the left) side.
The question is a difficult and complicated one, and the facts which we at present possess are not sulficient to enable us to give a definite answer in all cases. The resnlt would appear to depend chiefly upon two factors, nanely (1) the function of the centre which is destroyed, and (2) the age of the patient at the time when the destruction takes place.
The motor centre for apeech in right-handed persons is, as we all know, located in the posterior end of the lower or third left frontal convolution. Destruction of this centre is followed by motor aphasia, but the permanence of the speech derangement depends, o a large extent at least, upon the age of the patient. In children the aphasia is usually of quite temporary duration, and in young adults the condition may be entirely or to a large extent recovered in many cases after thecovery is usunly due to shock, inflammatory ardema. and cerebritis have subsided, the aphasia which is due to the actual destruction of nerve tissue (that is, to the lesion itself, and not to the temporary disturbances in its neighbourhood) remains, and little or no improvement in the condition subsequently takes place.

Now in those cases in which Broca's convolution has heen deatroyed, and in which recovery from the aphasia takea place, compensation is in all probability effected by the corresponding centre volution) taking on the function of the part which has been de-
stroyed. That this is the manner in which compensation is effected in such cases seems proved by a case of great interest and importance which Barlow has recorded: the chief details of which are as follows. A boy, aged 10, affected with aortic disease, was suddenly seized with right hemiplegia and aphasia, the paralysis chiefly affecting the face and arm. The aphasic symptoms soon passed off, and at the end of a month he had apparently quite recorered. He was then seized with left-sided hemiplegia, which chiefly affected the face und arm. There was now complete aphasia, with paralysis of all the muscles of the face and tongue, reflex morements, such as deglutition, being, however, unaffected. The aphasia continued until the time of death, which resulted from the cardiac lesion. At the necropsy a lesion was found in exactly the same situation in each hemisphere, namely, a yellow softening of the posterior part of the middle and lower frontal, and of the lower end of the asceuding frontal convolutions. In this case, therefore, destruction of the left motor speech centre produced aphasia, which was soon recovered from, while subsequent dostruction of the corresponding part in the right hemisphere (destruction of which, it will be observed, does not as a rule produce any aphasic disturbances in right-handed persons) was followed by complete and permanent aphasia, and, in addition, by paralysis of the facial and tongue muscles (Journal, July 28th, 1877, p. 103).

In the case of the motor centres more strictly so called, the result (that is, whether compensation will or will not take place) seems to depend largely upon the fact whether the movements which are represented in the centre which is destroyed are in the halit of being performed bilaterally or unilaterally.


Fig. 1.-Diagram illustrative of the manner in which paralysis is compensated in the case of muscles which are in the habit of acting in association. The letter $\mathbf{B}$ points to the right, and $\mathbf{B}^{\prime}$ to the left, cerebral hemiaphere; $n$ and $n^{\prime}$ to the nerve nuclei in the spinal cord, for the muscles $m$ and $m^{\prime}$, which are in the habit of acting together. A lesion, in the position of 1, will arrest the motor nerve force, passing down from B to $m^{\prime}$ through $n^{\prime}$; and will therefore cause paralysis of $m^{\prime}$. Compenantion is effected, and the paralysis recovered from by the motor nerve force from $B^{\prime}$, passiag through $n$ and $n^{\prime}$ to $m^{\prime}$, as slown by the arrow.
The movements of the two eyes, of the two sides of the face, chest, and trunk are, for the most part, performed in concert. We laugh, for example, with both sides of our faces, and although some persons are able, hy means of a voluntary effort, to put each individual muscle of expression into separate and independent action, for most of us this is impossible without long practice. Many people even find it difficult to wink with one eye alone.

In short, there is every reason to suppose, from the observation of muscular action in the healthy man, from the results of experimental investigation on the brains of monkeys, and from observation of spasms due to localised cortical irritation in the human subject, that those muscles on the two sides of the body which are in the habit of acting in true association or concert may be thrown into action from either hemisphere.

Possibly this assoriated bilateral action is effected, as Broadbent has ingeniously theorised, by means of commissural fibres nnnecting the nerve cells of the trophic nerve nuclei in the pons Varolii, medulla oblongata, and spinal cord. (See Fig. 1). But be that as it may, there can be little doubt that when a cortical centre which innerrates muscles which. are in the habit of acting in coneert with corrosponding muscles on the opposite side of the body is destroyed, compensation is effected and permanent
paralysis prevented by the function of the destroyed centre being taken up and carried on by the corresponding centre in the opposite hemisphere of the brain.

The more bighly specialised movements, on the other hand, seem, so far as we at present know, to be represented only in one -the opposite-cerebral hemisphere. If this is so we should expect that complete destruction of the cortical centre, say, for the muscles of the forearm and hand, would be followed by permanent paralysis, and that such is actually the case seems proved by the experiments of Ferrier, Horsley, and Schafer, in the monkey, and by the results of disease (destroying lesions) in the human subject. In those cases. for example, in which hemiplegia results from a lesion in early life, though the leg regains a considerable amount of power-indeed, in some cases, almost completely recorers, the mnscles of the hand and forearm may, and often do. remain markedly paralysed. Such cases seem to prove conclusively that the motor centres for the mnscles of the hand and forearm of one side are only represented in one, the opposite, hemisphere; and that when the muscles concerned in the production of the highly specialised movements of the hand are paralysed, compensation cannot be effected by the corresponding centre on the opposite side of the brain taking up and carrying on the function of that which is destroyed.

Cases are occasionally met with which seem at first sight, at all events, to form exceptions to this law. The most remarkable case of this kind with which I am acquainted is one which I have reported in the Edinburgh Medical Journal for February, 1879. page 693. In it, a large sarcomatous tnmour, almost the size of the closed fist, had apparently destroyed the greater part of the motor area on the right side. So far as one could judge with the naked eye, the whole of the motor centres for the face and upper extremity were destroyed (see Figs. 2, 3, and 4), and on microscopical examination the grey matter in this region seemed to have completely disappeared. And yet there was absolutely no trace of paralysis.

Cases such as this suggest at all erents the possibility of substitution being in some rare cases effected, even when the movements paralysed are highly specialised and differentiated by the corresponding motor centres in the opposite hemisphere.

A more probable explanation is, howerer, that which supposes that the grey matter in the affected area was not entirely destroyed. In considering cases of this description, it must be remembered that the different cortical centres are not sharply defined and separated one from the other. that to some extent at all events they run one into the other. Such an overlapping has been clearly demonstrated by Horsley and Schafer in the case of those centres which are situated on the inner side of the cerebral hemisphere (that is, in the marginal convolution).

The importance of this orerlapping, and the possibility of compensation being effected by undeveloped or embryonic nerve-cells in the immediate neighbourhood of a centre which has heen destroyed has been clearly set forth by Victor Horsley. "Since." he says, "in a complete piece of mechanical apparatus we find that loss of function is in proportion to the amount and seat of the injury inflicted on it, analogy will surely lead us to imagine that unless it is specially provided with a reserve of embryonic tissue in every part, the nerrous system is no exception to this general rule. Althongh the purport of this paper is brietly to discuss the scientific value of the theory of substitution or compensation, it is impossible to go further without referring to the saving clause ahore mentioned, namely, the possible existence in the cerebral cortex at least of numbers of small nerve-corpuscles, connected with the veteran corpuscles of well-marked centres, but which have not yet themselves subserved psychical function. The existence of such corpuscles has been assumed by several writers at the present day, and with fair ground, seeing that in the first place the gradual accretion of knowledge by the child, and in the second place the intellectual acquirement of some new subject late in life, are both best explained theoretically on the assumption that fresh tracts are opened up with each nery and complete idea. The bearing that this riew has on the question of substitution is of course of fundamental importance. since. supposing it to be true, it is rery easy to imagine that if a centre be destroyed, the elementary corpuscles in the uninjured area around having within themselves a faint echo of the nerre disturbance which before was normally existent in their immediate neighbourhood can be cducated gradually so as to replace the part injured " (Lancet. July, 1884, p. 7).
In order to illustrate this theory of substitution, and to show
the important difference that there is between rapid and slow destruction of a motor centre. I am in tho habit of making use of the following simile: Supposing a peal of bells, each rung by a ringer especially trained to ring his own hell and that bell only the bell-ringers representing the discharging motor centres in
of whom may be able to establish lateral comnections, and to train themselves to carry on the mork of their disabled colleague. In the case of the sensory cerebral contres, compensation by the action of the opposite hemisphere scems to occur much more readily.


Fig. 2.-The outer surface of the right hemisphere of the brain in the case of M. D. (large sarcoma growing from the dura mater, which had produced extensive atrophy of the motor centres, but was unattended with paralysis) showing the tumour situ. (Copied from a photograph, and somewhat reduced in size.) The letter A pointr to the outer sarface of the dura mata page 11 .
over the centre of the tumour. The leading features of the ca pyramidal tract, and the bells tbe muscles); and suppose tbat one of the bell-ringers or discharging centres is suddenly disabledsay, killed or put hors de combat by an apoplectic seizure-paralysis of the bell or muscle, which he, and he ouly, has been trained

The tactile centre (which according to Ferrier is situnted in the hippocampal region, and according to Schafer in the gyrus fornicatus as well as the hippocampal lobe) appears in the adult, at all events, to be distinct and separate from its fellow on the opposite side; but it is doubtful if its complete destruction in the child is


Tig. 3.- The outer surfare if the right hemisphere of the braln in the case of M. D., showing the brain after the tumour was romoved. Cupied from a photograph, and sonewhat is
to ring, will necessarily result : but if instead of being suddenly destroyed, one of the ringers is gradually and slowly disabled by some chronic disease-say cancer of the stomach-he will be able to communirate his failing randition to his fellow ringers, fome
everfollowed by permanent hemianæsthesia; in other words, it would appear that the tactile centre in one hemisphere can, in the child, take up and carry on the function of its fellow on the opposite side.. The extensive connections which the tactile centre
has with the other portions of the cerebrum, and the important faet that when one sense is placed hors de combat, compensation may be effected ly one of the other senses supplying the place of that which is destroyed, are shown by the facts that blind persons may be taught to read and that they may be fargely educated by means of the sense of touch, and also by the most interesting and remarkable circumstance that in some cases in whieh there is eomplete word-blindness, in which the patient is unable to decipher a single word or letter by the aid of sight, he is able to read, when he writes the letters or even when be traces the letters with his finger in the air. In the latter ease the loss of vision is compensated by means of the muscular sense.

In the case of sight, destruetion of the posterior part of the oeeipitat lobe - the half rision centre as it has been termed--seems to be follorred in the adult ly permanent loss of vision towards the opposite side (that is homonymous hemianopsia). Whether this is so in the child, in other words, whether the half-rision centre in one occipital lobe is able, even in the child, to take up and carry on the funetion of the half vision-centre in the opposite oceipital lobe, has not been as yet ascertained.
Central vision seems to be bilaterally represented, so that complete destruction of the whole of the risual centre in one hemisphere need not destroy the acuity of rision, sinee central vision is bilaterally represented. It is said, however, by Munk, and bis observations on this point seem supported by Schafer, that destruction of the half visioncentre in both hemispheres is followed by complete and permanent blindness.

It seems certain that the special senses of hearing, taste, and smell are bilaterally represented, but the exact position of their respective eerebral centres is not yet definitely decided, Schäfer's reeently published olservations being opposed to some of Ferrier's observations on this point. Clinieo-pathological observation in man has as yet failed to throw any very certain light upon the subjeet. Loss of hearing, taste and smell, very rarely, if ever, result from a localised lesion sueh as a tumour in either eerebral hemisphere, ${ }^{3}$ though a peculiar form of loss of hearing, "word-blindness," does seem to result from a lesion of the first temporosphenoidal convolution in the left hemisphere. The fact too, that localised lesions in the temporo-sphenoidal lobe are in some eases attended with anauditory or olfaetory "aura" a noise or a smell, scems to support the view that the auditory and olfactory centres are situated in this region. It would appear, therefore, that the cartical centres for hearing, taste, and smell in one hemisphere can take up and earry on the function of the eorresponding centres on the opposite side.
As regards the mental and intelleetual defécts whieln result from loealised lesions in parts of the eerebral hemispheres other than those parts or centres which have just been referred to, our kuowledge is also somewhat indefinite; but there is reason to suppose that laealised destruetion of the prefrontal lobe on one side can, to some extent at least, be compensated by the action of the corresponding centre on the opposite side. In this, as in other cases, the compensation is more perfeet in those eases in which the lesion is slowly and gradually established, and in which the patient is young. The size of the lesion or the amount of de-
${ }^{3}$ Loss of hearing of course may result from a localised cerebral lesion, such as a tumour, which presses upen the aulitory nerve.
struction is also, of course, a most important faetor in determining the result.
Extensive lesions of the priefrontal lobe are probably, in the adult, attended with lasting alterations in the mental faeultits and dispnsition; small localised lesions may, in all probatility. he compensated to some extent; but in investigating such cases it is necessary to remember that slight mental defects and alterations are diffieult to detect, and may therefore easily pass unnotieed. In dealing with, purely niental symptoms in other words, with cases of localised brain destruction in whieb there are no motor or sensory derangements properly so called, the greatest caution is required. We can only determine whether any mental defeet has resulted from a lesion (in other words, whether perfect eompensation has resulted or not) Then we are in a position minutely to compare the mental condition after recovery. with the mental condition before the occurrence of the lesion; and it is unnceessary to ssy that in most cases we are not able to make such a comparison founded on our own personal knowledqe. We have in most eases to rely upon the statements of the patient's friends and relatires-in many cases an uncertain and unsatisfaetory method of ascertaining the normal mental condition of the patient, even when dealing with educated and intelligent people. That serere lesions of the prefrontal lobes whieh produce no obrious motor or sensory disturb-
ances do produce permanent mental alterations, in other mords, that such lesions are not compensated, in the adult, at all events-and the same also applies to the ehild-is abundantly proved by elinical observation. The extraordinary ease, whieh is known under the name of the "American crowbar case," shows how profound these mental symptoms may be; and at the same time illusB trates the enormous reserve which Nature possesses, and the marvellous recoveries which sometimes take place after the most serious injuries. The details of this remarkable case (I quote from Ferrier) are as follows:
"The subject of the lesion was a young man, Phineas P. Gage, aged 25 . While he was engaged tamping a blasting charge in a roek with a pointed iron bar, 3 feet T inelhes in length, $1 \frac{1}{4}$ inch in diameter, and weighing $13 \frac{1}{4}$ lbs., the elarge suddenly exploded. The iron bar, propelled with its pointed end first, entered at the left assed elean through the top angle of the patient's jaw, and passed caue frontal region, and was picked up at some distanee eovercd with 'blood and brains. The patient was for the moment stunned; but within an hour after the accident he was able to walk up a long tight of stairs and give the surgeon an intelligible account of the injury he had sustained. His life was naturally for a long time despaired of hut he ultimately recovered, and lived twelve years and a half afterwards. Lnfortunately, he died (of epileptic convulsions) at a distance from medical supervision, and no post-mortem examination of the brain was made; but, through the exertions of Dr. Harlow, the skull was exlumed and preserved. tepon tbis the exaet seat of the lesiou can be determined. The line of union of the cicatriees of entrance and exit, however, allowed a pretty aecuratc estimation of the track of the bar during life, and Dr. Bigelow did so with considerable accuraey.

Dr. Bigelow, who examined the man tiwo years after the accident, thus deseribes the appearances presented: ' $A$ linear cicatrix of an inch in length occupies the left ramus of the jarm near its angle.....The eyelid of this side is slut, and the patient is unable
to open it ; the eye considerably more prominent than the other. (Yision lost--Harlow.)...' Lem the head, and coverel by the hair, is a large unequal depression and elevation...... A pisce of the cranium of thout the size of the batm of the hamd, its posterior border lying near the coronal suture, its anterior elge low on the forehrad, was raisel upon the latter as a hinge, to allow the fgress of the har; it still remains ruised and prominent.'
"From his examination of the skull itself, Dr. Marlow thus describes the track of the bar: The missite entered, as previously stated, immediately anterior and external to the angle of the inferior maxillary hone, proceeding obliquely upwards in the line of its axis, passed under the junction of the superior maxillary and malar bones, comminuting the posterior wall of the antrum, entered the base of the skull at a point the centre of which is an inch und a quarter to the left of the median line, in the junction of the lesser wing of the splenoid with the orioital process of the frontal bone, comminuting and removing the entire lesser wing with one-half of the greater wing of the sphenoid bone, also fracturing and carrying away a large portion of the orbital process of the frontal bone, leuving an opening in the base of the cranium after the nntural efforts at repair by the deposit of new wone of one inch in its lateral, by two inches in its antero-posterior, diameters.' (See Figs. 5, 6, and 7.) Dr. Harlow does not describe the further track of the bar through the frontal bone, but you will clearly see from the figures that the whole lesion is situated anterior to the coronal suture. If. now, sou will compare the track of the bar through the skull and brain with the diagram before you (Fig. 8), showing the relations between the skull and the lirain, you will, 1 think, have no doubt in convincing yourselves that the whole traek is included within that region of the brain which I have describell as the prefirontal region, and that, therefore, the absence of paralysis in this case is quite in harmony with the results of experimental physiology. The only other region which the bar could have injured is the tip of the temporo-sphenoidall lobe and the outer root of the olfactory bulb. Respecting the condition as to smell, nothing is, howerer, said either by Bigelow or Harlow. This caseis generally quoted as one in which the man suffered no da mage bodily or mental, But hear what Dr. Ilarlow says as to his mental condition: ' His contractors, who regarded him is the most efficient and capable foreman in their employ previous to his injury, considered the change in lis


Figa. 5. A, and 7. - Iltustrations of Dr. Harlow's case of the prsange of an iron bar through the head. (Copled iram Ferrier).
mind so marked that they conld not give him his place again. The equilibrium or balance, so to speak, between his intellectual facultiea and animal propensities seems to have been destroyed. He is fifful, irreverent, indulging at times in the grossest profanity (which was not prerionsly his custom), manifesting but little deference for his fellows, impatient of restraint or advice when it conflicts with his desires, at times pertinaciousls obatinate, yet capricious and vacillating, devising many planis, for future operation, which are no aooner arranged than they' are abandoned in turn for others appearing more feasible. A child in
his intellectual capacity and manifestatious, be has the animal passions of a strong man. Previous to his injury, though untrained in the schools, he possessed a well-balanced mind, and was looked upon by those who knew him ns a shrewd, smart, business man, very energetic and persistent in expenting all his plans of operation. In thia regard, his mind was radically changetl, , decidedly that his friends and acquaintances said lie was "no longer Gage"." "
(To be continued.)

## ON A CASE ILLUSTRATING THE PROGNOSTIC SIGNIFICANCE OF THE BLOOD PRESSURE IN ACUTE RENAL DISEASE.

By W. H. BROADBENT, M.D., F.R.C.P.;<br>Physician to St. Mary's Hospital.

Ir is well known that kidney disease is attended with increase of tension in the arterial system. This is most marked in the contracted granular affection of these organs, but it is present in almost every form of renal disease. I have, however, met with cases in which the arterial tension has been much below instead of above the normal average, and all such I have watched with unusual interest. I have twice seen low tension when the character of the urine, the age, antecedents, and condition of the patient have indicated cirrhosis of the kidney; in both the disease proved fatal with unusual rapidity. In acute renal dropsy I hare found persistent pulse of low tension more frequently, and it has always. been associated with an intractable character of the disease. $\AA$ fatal case of this kind was the subject of a clinical lecture some years since.
In acute renal dropsy the artery is usually at first full between the beats, and rather large, but the beat is short and easily arrested. This corresponds to a period of temporary dilatation and weakness of the left rentricle. In the course of $a$ week or ten days, however, the heart recovers itself, and the pulse acquires the character of moderate tension, which, in a case ending favourably, is sustained up to the time of complete recovery. I have learnt, therefore, to look for the supervention of a certain degree of tension in the pulse as an indication of farourable progress: but as has been said,already, in some cases it is missing. The defect of tension may he due to persistent weakness of the heart, the capillary or arterio-capillary resistance being present, but the driving power on which the degree of pressure in the intermediate arteries ultimately depends being deficient. That weakness of the central organ of circulation is of unfavourable prognostic import is easily seen, but the low tension is not always so caused; there is sometimes diminished resistance at the periphery; the capillaries and arterioles are relaxed, and allow the blood to slip through them as in -pyrexia, and the pulse is not only weak but short. It is not so easy to underatand why this should be of bad sugury, and it is only by observation that this conclusion has been reached.
The case to which these remarks lead up is summarised in the following account.
J. L., aged 27, a carman, married and having three healthy children, of sober and steady habits, and prerionsly in the enjoyment of good health, was admitted into St. Mary's Honpital on October 29th, 1887, on account of acnte renal dropsi: His mother, still alive, was much addicted to drink, which brought her to the workhouse, where she then was. There was no other unfavourable family history.
The patient was born and had lived all his life in London, and had had no illness since childhood, when he had sm1s]l-pox. He underwent a certain amount of privation two years previously, when he was out of work for four months, hut difl not apparently guffer in health. For the last righteen months he had been a carman. Without any special exposure to cold, he had four days previously noticed oin rising that his face, arms, and legs were much swollen, and he had a bad cough. He remained at home for two days, and then returned to work, but on the day of his admission to the hospital the serotum beeame swollen, and with this the face was pale and swollen, the eyelids puffy, and the ex-tremities-the arms and hands more than the legs-affected by the characteristic firm, waxy odema of early acute desquamative nephritis. The urine was found to have a-speefic gravity of

[^68]1030, and was almost entirely converted into a coagulure of albumen on boiling and adding nitric acid. It was straw coloured, gave a very slight hlood reaction with guaiacum and ozonicether; no bloot-corpuscles were seen, but numerous epithelial cells. The temperature was slightly subnormal, the pulse 64 .
1 first saw the patient on November Ist, and found the pulse 60 , short and very compressible. The heart was normal in size, but the apex beat could only just be felt, and could not be definitely localised, and there was no right rentricle impulse; the sounds were everywhere weak and indistinct.
A week later the dropsy had everywhere increased, and there was a small amount of fluid in both pleural cavities. The pulse was still short, weak, and devoid of tension; the heart somewhat enlarged downwards, the first sound short, the interval between this and the second rather longer than normal, the second sound weak. The amount of albumen in the urine was still very large, the coagulum occupying seven-eighths of the volume; hyaline and granular casts were present.
The prognosis was at once formulated that the case would be of long duration, the basis for this heing the defective pulse-tension and weak blood-propulsion by the heart. It was at the same time considered probable that the large proportion of albumen was not due to any specially severe affection of the kidneys, but was in part the consequence of the languid circulation, which would almost permit of complete stasis in the capillaries ramifying between the convoluted tubes in the cortex of the kidneys, año, consequently, in the Malpighian tufts. It was anticipated, therefore, that if the circulation could be improved, the amount of albumen might diminish rapidly.
The patient was. of course, kept in bed. His diet was mainly milk. Tincture of iron with sulphate of magnesia was given at first, to which were added in a few days nux vomica and digitalis; dry cupping over the loins was practised.
At the end of a fortnight, on November $1+$ th, the dropsy had slightly diminished, and there was still much fluid in both pleural cavities. The pulse was short and compressible, the apex beat of the heart just perceptible in the fifth space slightly outside the nipple line. The urine had a specific gravity of 1018 , and the coagulated allmmen occupied half its volume
On November 17 th the albumen was somerrhat diminished.
On the 2 lst a, general improvement was noted in the pulse. The artery could easily be felt between the beats, and rolled under the finger, and was not so compressible. "' Simultaneonsly the amount of albumen had fallen, so that it was described as rather more than a trace. The dropsy and plentral effusion trere "much less.
On Norember 24 th the apex heat could be distinctly felt, in the fifth space, three-quarters of an inch outside the nipple line. The first sonnd was here inclistinct and rather prolonged instead of short, as befort ; the second sharp and louder thain normal, the interval still muel prolonged; the pulse was long, and not easily compressible ; albumen one-eighth ; dropss nearly gone.
Two days later the patieut appeared to be so nearly well, that he was allowed ly the resident surgeon to get up for a sloort time. There was at once, December 5 th, some return of swelling in the legs. The apex beat and heart sounds became weaker and the pulse more compressible, while the proportion of allumpa rose to one-thirl.
That this was not an ordinary relapse due to clill was clear from the rapid returin to the previons condition of the urine when he was sent back to hed. The explauation was that the heart. was not equal to the maintenance of the circulation in the erect position, and with the langnid movement of blood so caused came the increased amount of albumen.
He was now kept in hed. He took his food, slept well, remained free from dropsy, and had only a varying trace of allhumen. Before it was considered safe again to allow him to rise he had an attack of tonsillitis, in which the temperature rose to $103.8^{\circ}$ on January 23rd, and the urine was now of a dark blood-purple colour, and contained four-fifths of its rolume of a $b$ mmen. Under the microscope, however, there were scarcely any blood-corpuscles. The blood and albumen rapidly disdppeared, ind rere succeeded three clays later by uric acid crystals in large quantity.' The attack was, in fact, one of bremoglobinuria: The patient is still in hospital, but his subsequent history'possesses'no points of interest.
The imperfect development of blood pressure to which 1 have called attention in this case is not to be looked upon as the cause of the slow recovery or of the complications observed in the course
of the disease; it merely reveals the constitutional weakness to which they are to be attributed, and ahows that the patient is made of poor stuff. ln doing this, however, it fulfils a useful purpose, as it throws light on the prognosis. The occurrence of hæmatolysis and hæmoglobinuria in the course of an attack of tonsillitis was an interesting conffrmation of the opinion formed as to the feeble powers of resistance possessed by this young man's constitution.
The development or non-development of pulse-tension in the course of acute renal disease appears to me again to furnish some guidance in treatment. To raise the tone of the circulation is a help towards recovery when this is defective.

## CASE OF SO-CALLED "SPONTANEOUS COMBUSTION."

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1 was lately called to a case which vividly recalled the old tales of spontaneous combustion, and more especially an article that 1 had read on that subject by our late President, Professor Ogston. The term "spontaneous combustion" has been applied to two conditions: first, spontaneous ignitability, and, secondly, increased combustibility; and I need hardly say that it is to the second category that the present case belongs. As Dr. Ogston remarks on these cases, the subjects were all found dead, their bodies, their clothes, and the articles in their neighbourhood being partially or entiresy destroyed by fire, the only remarkable thing about them being that the bodies were burnt and charred out of all proportion to the neighbouring objects, and to an extent which seems incapable of being accounted for by the heat of the burning clothes and objects in the vicinity.
On the morning of Sunday, February 19th, I was sent for to examine the remains of a man, A. 11. , aged 65 , which were found in a hayloft off Constitution Street. This man, a pensioner, of notoriously intemperate habits. had been seen at 9 o'clock the night before to enter the stable below in an intoxicated condition, and he asked the lad and girl who saw him to slut the stable door after him, which they did. "They then heard him ascend the ladder leading to the loft above, and afterwards saw the skylight of the loft lighted, and later still the light put out. Bet ween 8 and $90^{\circ}$ clock next morning the wife of the propriet or of the stable, living near by, happening to look out of the window. observed smoke issuing from a hole in the roof of the loft. She informed her husband of the fact, and he, on entering the stable, was horrified to see through a hole in tle loft floor the remains of the old soldier perched on the joists abore, and leaning against the wall. The police were at once communicated with, and I was sent for to attest the accilent. On arriving 1 ascended to the loft, and found the charred remains of a man reclining against the stone wall, and kept only br one of the joists and the burnt remnant of the flooring under him from fulling through into the stable beneath. What struck rue especially at first sigirt was the fact that. notwithstanding the presence of ahundant combustible material around, such as liay and wood, the main effects of combustion were limited to the corpse, and only is small piece of the adjscent flooring and the woodwork immediately abore the man's bead had suffered. Several of the slates had fallen in orer the corpse, making a small hole in the roof above it. antl a small piece of the flooring had fallen through inmediately round lim into the stable below, learing the hole through which hic had been first secy. Tlie body was almost a cinder, yet retaining the form of the face and figure so rrell, that those who had known lim in life could rendily reeognise him, Botli hands ntid the right font had been burnt off and had fallen through the floor among the askes inta the stables below, end the charred and calcined ends of the right radius and ulna, 'the left humerus, 'and the right tibin and fibula were exposed to view. The hair and scalp were burnt off the forehead, exposing the bare and calcined skull. . The tissues of the face were represented by a greasy cinder retaining the cast of the features; and the incinerated monstacle still gave the Tonteid military expression to the old soldier. The soft tissues were almost entirely consumed, more especially on the posterior snrface of the body. where the clotlies were destroyed, and the pos-

[^69]
[FFom " Photograph by Mr. W. Rans, 100, Holburn Street, Aberdeen.]
terior surfaces of the femora, innominate bones, and ribs exposed to view. This, was doubtless in a measure caused by the falling of the slates on the body, and a more perfect cinder would have been fuund had we arrived earlier un the scene. Part of the trousers on the anterior aspect of the legs that had escaped the impact of the slates was still represented in cinder.
hegarding the condition of the internal organs, I regretted much having been denied the opportunity of investigating their condition, as wishing to have a photograpli taken of the remains prevented me at the time, and on my return from other work later on I found that the whole had been removed. The bearers told me that the whole body had collapsed when they tried to remove it en masse. From the comfortably recumbent attitude of the body it was evident that there had been no death struggle, and that, obfuscated by the whisky within and the smoke without, the man had expired without suffering, the body burning away quietly all the time.
So much for the condition of the corpse. The strange fact remains that while round about in close proximity were dry woodwork and hay, loose and in bundles, these had escaped, and the body of the man was thoroughly incinerated. The exceeding stillness of the night (for it was remarked by the policeman on the beat that there was not a breath of wind) would only in part account for the facts.
To return to Dr. Ogston's paper. That increased combustibility exists cannot be denied, though at first aight it is not so clear to what it owes ita existence. The question las given rise, as has been already seen, to numerous hypotheses, all of which, with one exception, are manifestly untenable, and it is owing to the wildness and illogicality of these hypotheses and deductions surrounding the subject that the whole question haa come to be treated as a lialf-forgatten fable. In the doctrine that increased combuatibility in bodies is due to excess of fat, Dupuytren has advanced the only explanation capable of setting the subject at rest, aud on a true basia explaining rationally and philosophically the caaes of so-called "spontaneous combuation."

When we consider the amount of fat some bodies contain, tho subject grows even clearer, and a review of the cases demonstrate that the incineration was always most extensive in the ekin and subcutaneous adipose tissue, and other places where fat is abun-
dant, and least marked in organs and regions with less fat. The fatty degeneration of various organs and structures, the intermuscular and subcutaneous adipose tissue, along with the masses deposited on other parts of the body, all present a body of oleaginous matter amply sufficient to account for the combustion, and which, once ignited, would tend ratber to burn in situ than to flow out, thus explaining the greater destruction of the corpse than of objects in the vicinity.
Regarding the influence of alcoholic indulgence in these cases, it has been conclusively proved that tissues soaked in alcohol do not burn more readily than others not so treated, and that it is only as a stupefying agent and in its tending to the deposition of fat in the body that alcohol aids in increasing its combustibility.

## THE DETECTION OF PROTEID BODIES IN URINE.

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The test ordinarily applied for the detection of albumin in the urine is, as is well known, that of boiling and acidulation. This test is taken as indicative of albumin alone; it does not distinguish between albumin and paraglobulin, and, moreover, docs not indicate the presence of those proteida which occur more rarely in urine, as for example, the albumoses and peptones. Of late years the methods for distinguishing and separating proteid bodies have greatly improved as our knowledge of their properties has advanced.
The object of the present paper is to discuss these more modery methods of the separation and detection of the proteids in the urine-methods which are not universally applicable in bedside clinical examination, but which are necessary for the elucidation of doubtful cases. The bodies which I shall consider are:

1. Albumin: serum-albumin, egg-albumin. 2. Globulin: paraglobulin (serum, fibrino-plastin). 3. Albumoses (globulin, hemialbumoae, propepton). 4. Peptones.
As was stated aborc, the heat test doea not distinguish between these bodies. This test may be applied in two ways aa follows: a small quantity of dilute acetic acid may be added to the urine.
in a test tube, and the upper stratum of liquid boiled; or the liquid may be boiled first and rendered strongly acid with nitric acid. The first method is more delicate, provided too much acid is not added so as to convert albumin into acid-albumin; it also preveuts the precipitation of phosphates. In the second method, phosphates, if present in excess, are precipitated by heat and redissolved by the acid. The picric acid test has no adrantage over the heat test carefully applied.
In ordinary cases these tests are quite snfficient, but when it is a question of the presence of globulin or albumoses or peptones, other tests are necessary.
In the first place, if the proteid is present in only small quantity, it ought to be obtained in a concentrated solution before tests are applied to it; aud even if present in large quantities in the urine, it ought to be separated and redissolved if its nature is of a doultful character.

Precipitation of Proteids in an Unchanged Form from the Urine.-This is readily done for most proteids by saturating the urine with neutral ammonium sulphate $\left[\left(\mathrm{NH}_{3}\right)_{2} \mathrm{SO}_{4}\right]$. After powdering the crystals in a mortar the salt must be added to the urine in a flask, and shaken well with the hand until no more is taken up by the liquid. This operation takes only a few minutes. By this means alhumin (serum and egg), paraglobulin, and albumoses are completely precipitated, whether the liquid be acid, neutral, or alkaline ; while peptones remain in solution.

The precipitate obtained is amorphous, and rises to the surface of the liquid; it is readily remored by filtration. When on the filter it may be redissolved by adding a small quantity of distilled water, or, if it is requisite to obtain the proteid in a state of great' purity, it may be washed twice with a saturated solution of ammonium sulphate before adding the distilled water. The proteid or proteids are now in concentrated solution containing ammonium sulphate, the presence of which does not interfere mith the ordinary test for proteids. The filtrate, after saturation with ammonium sulphate, may contain peptones, and these are to be tested for in the manner presently to be described. We shall new consider the tests for the individual proteids.
Albumin.-In the great majority of cases the precipitate obtained by boiling urine after acidulation is due to serum-albumin. But in a smaller number of cases it may be due to egg-albumin, paraglobulin, or to hemi-albumose. It is, therefore, not possible by this test to distinguish bet ween serum-, egg-albumin, or paraglebulin, even if the temperature of heat-coagulation be carefully taken, inasmuch as they are all preeipitated at about $75^{\circ} \mathrm{C}$. The behaviour of heat to the kind of hemi-albumose which has been found in urine is peculiar, and is suggestive of its presence. If urine be not acidulated, the albumose is precipitated on gently heating, but redissolyes on further heating, being reprecipitated on cooling. If the liquid be acidulated with acetic acid, it is not precipitated by heat. Further details of this reaction will be giren further on.

Egg-albumin is distinguished from serum-albumin by the additien of ether, which coagulates it. Before this test is applied, however, the proteids ought to be separated by saturation with nmmonium sulphate in the manner described. If it is a question of the presence of serum-albumin or paraglobulin, or both tagether, the tests for paraglobulin must be applied.
Paraglobulin.-This may be found in urine by itself (globulinuria) or in association with albumin when there is pus or blood present. It is indicated by the following tests:

1. Urine containing it gives a precipitate on acidulating and boiling, which precipitate is not soluble in an excess of acid; that is, it is coagulated proteid.
2. Saturation of the liquil with magnesium sulphate precipitates the paraglohulin. Before doing this test the urine must be perfectly clear. If there is a deposit of mucus, urates, or phosphates, the clear superstratum of liquid must be poured off, and if the urine is turhid it must be filtered till clear. Two or three drops of dilute acetic acid are then added to the urine in a test tube. and magnesium sulphate adied to the liquid, which is to be well shaken with the thumb placed over the mouth of the tube. The amount of salt that it is necessary to add is about equal to half the bulk of the liquid. Complete saturation at the ordinary temperature docs not occur unless the liquid be shaken three or four heurs, but for ordinary purposes simple hand-shaking for a few minutes is sufficient to cause the precipitation of most of the globulin. The precipitate is readily removed by filtration, and after dissolving it by adding distilled water the ordinary tests for proteius can be applied to the solution. This test distinguishes
paraglobulin from serum-albumin, which is not precipitated by magnesium sulphate; but it does not distinguish it from hemialbumose or any of the albumoses presently to be described. There is only one albumose which is precipitated by heating; this is called hetero-albumose, and this is the albumose found by Kühne and others in the urine. As has been stated, this body is precipitated at a low temperature, and is dissolved on further heating. Moreover, the precipitate by heat is readily dissolved by adding a drop of dilute acetic acid-an important point of distinction from paraglohulin, which when precipitated by heating is rendered insoluble in acid.
If this heat test is doubtful the clear urine must be saturated with magnesium sulphate, and the precipitate with the liquid poured off from the sediment of salt into a clean dry test tube. This precipitate and liquid must now he boiled and several drops of acetic or nitric acid afterwards added. If the precipitate dissolves it is albumose; if it does not dissolve it is paraglobulin. These tests may be confirmed by the following: To a small quantity of the original urine, or, better still, to the magnesium sulplate precipitate dissolved in water, a drop of one per cent. solution of copper sulphate is added, and then an excess of liquor potassæ; the albumose gives a pink colour (biuret reaction), while the paraglobulin gives a violet colour (ordinary proteid reaction). These reactions taken together distinguish paraglobulin from serum- and egg-albumen and albumose. Sodium chloride also precipitates paraglobulin and most of the albumoses, and it has been stated that saturation of the liquid with ammonium sulphate precipitates globulin, learing albumin in solution. But besides the doubtful character of this reaction, some albumoses, if present, would be precipitated with the globulin. It is only necessary to perform these distinctive tests between paraglobulin and albumoses when there is an indication of the latter being present. To the detection of these we shall now pass.
Albumoses.- These are bodies which are formed during peptic digestion, and are considered as intermediate between globulin and albumin on the one hand and peptone on the octher. To those derived from albumin the term "albumose" has been applied, and to those from globulin the term "globulose." These two classes, however, bear so close a resemblance to each other in their reactions and properties that, in the present state of our knowledge, it is more practical to use the term "albumose" for both. The reactions to be described apply to hoth alhumoses and globuloses.
Albumoses are of three kinds, and they may be considered as a row of bodies linked at one end by their properties to globulins or albumins (undigested proteids), and at the other end to peptones (digested proteids). They are named hetero-, proto-, and deutero-albumose. They differ in the following manner. Heteroalbumose is soluble only in saline solutions ( $I$ to 15 per cent. sodium clloride), and not in distilled water. It is precipitated from solution by heat, and hy saturation with sodium chloride or magnesium sulphate, but only partially; it is thrown down also by dialysis.
Proto- and deutero-albumose are soluble in distilled water, are not affected by heat, and are not thrown down by dialysis. Proto-albumose is, like hetero-albumose, partially precipitated by saturation with sodium chloride. but deutero-albumose only if 20 per cent. of acetic acid le added. All the albumoses are precipitated by saturation with neutral ammonium sulphate in the manner which has been previously described, and they all give a characteristic reaction with strong nitric acid. Nitric acid added to a solution of hetero- or proto-allumose causes a precipitate, which dissolves on heating, is reprecipitated on cooling, redissolves on again heating, and so on. Deutero-albumose only gives this reaction when a few crystals of sodium chloride are added to its solution in a test-tube. All the albumoses are precipitated by adding acetic acid aud the ferrocyanide of potassium to their solution. The precipitation by anmonium sulphate, and by acetic acid and ferrocyanide of potassium, and the peculiar behaviour of the nitric acid precipitate, serve to distinguish albumoses from all other proteids. Like peptones, they all give a pink colour with copper sulphate and potash.
All these albumoses have not beeu described as occurring in urine, very prohably because their distinctive tests hare not been applied.
The albumose first described by Bence-Jones, and later by Kuhne and others, as occurring in the urine, was probably beteroallumose. The specimen of urine examined by Kithne (" Ilemialbumose in Harn," Zeits. für Biologie, Bd, xix) gave a proteid precipitate between $43^{\circ}$ and $50^{\circ} \mathrm{C}$. ( $109.4^{\circ}$ and $120^{\circ} \mathrm{F}$.), the pre-
cipitate dissolving on further luating. If a small quantity of acetic acid were alded to the urine, no precipitate was obtained by heatiug. Sollium chloride to saturation gave a precipitate, and the precipitate with nitric ncid lehavel in the manner peculiar to allumoses. The sediment in the urine partly consisted of allumose. These reactions are similar to those gliven by heteroalbunose in wine, us I have ascertained by npplying them after disantving some of the proteid in normal urine. Further researches will show whether the other albumoses occur as abnorimal urimury constituents. At present it will be sufficient to state that an albumose is indicated in urine ly the following reactions.
3. The precipitate by heat comes down at a lower temperature than that of paraglobulin and albumin. The temperature of coagulation muy be accurntely taken ly means of a very simple apparatus. A portion of clear urine is placed in a test tube, in which an accurate thermometer is also put, and the test tube alHowerl to rest in the neck of a small flask containing distilled water. The water must he ahove the line of the urine. The flask is then gradually hated, while the urine in the tube is stirred byy means of the thermometer. The temperature at which the urine becemes cloudy is the lower limit of congulation; the liquid is then heatelf further until a precipitate occurs this is the higher limit of congulation. For paraglolulin and albumin the lower limit is athout $73^{\circ} \mathrm{C}$. and the higher $75^{\circ} \mathrm{C}$.: for hetero-albumose the lower limit is $43^{\circ}$ and the higher $50^{\circ} \mathrm{C}$. If hetero-allumanse be suspected, the urine must not he acidified previous to heating : but in the case of paraglobulin or serum-allumin, one or two drops of dilute acetic acid must ho added.
It is important to emphasise the fact that a specimen of uriue enntaining hetero-albumnse (without paraglobulin or sernm albumin) will give a precipitate with heat only when no acetic or other frue acid is addet.
$\xrightarrow{2}$ Nitric acid added drop by drop to the urine canses a precipitate if alhumoses are present, which behave in the characteristic manner already described. This reaction is distinctive of albumoses. It is not given, it must he remembered by deuteroallumose, unless solid sodium chloride be added to the urine.
Peptones are closely allied to albumoses, efpecially to denteroalbumose. A urine containing then alone would give no prerinitate on boiling, ank none with nitric acid, ceven if sodium chloride be added. Such a urine would, however, give a pink tion) would indicate the presence of pentones if the heat.onnd nitric acid tests proved negative. A small quantity of proto-nnd deutero-alhnmose would, howerer give the binret reaction, and be in such small quantity as to give a doubtful reaction with nitric acid. The liuret reaction cannot then be taken as alsolutely demonstrating the presence of peptones, even when applied ufter the heat and nitric acid tests. It is best to apply the following: saturate the urine with neutral Ammonium sulphate in the mamer described ahove, and filter off the precipitate, if any, which occurs. The precipitate will consist of globmlin, albumin, or albumose, if they be present, and the filtrate will contain the peptones, for these are nitt precipitated his saturation with ammonium sulphate. To the filtrite then add a dron'of 10 per cent. copper sulphate solution and a large excess of potash; if a pink colour is prodnced peptonts are present. Or add two or three drups of nitric reid, boil and addr- hquor ammonise after cooling: if the liguid turns lown peptones are present. This method of saturation with ammonium sulyhate is the only certain one of testing for peptones in arine.
A mot hod which las heen commonly applied is on thiter the urine after concentration into a lurge expess of alcohol: the peptones are thrown down, and may be collected on a filter and dissolvel in water. If such a solution gives no preinitate on heating, or with nitric acid, or with acetic acid and ferrocyanide of rotassium, or on saturation with immonium sulphate, and vot gives a brownish colour on heating with mitrle acild and adding ammonia, and a pink colour with copprer sulphate anel putash, the urine contains no proteid but peptones, and the case is one of kimple peptonuria. But in every case it is best to saturate the urine first with ammonium sulphinte, as lyy this meane all proteids are readily separated from peptones.

I'rofessor Cacciopoli recently performed extirpation of the larynx and six rings of the trachea for sarcoma on a woman, agell 50 , in the llespital for Incurahles at Ninles., This is the agirtennth case of laryngectomy in ltaly.

## ON. THE TREATMENT OF STERILITY IN WOMEN. ${ }^{1}$

BX TIOMAS MORE MADDEN, Mf.D., F.R.C.S.ED.,
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Gyuicological Sociel $y$; formerly Examiner

There nre few gynecological questions of greater practical interest, and none which have been more frequently brought under my notice in the course of a somewhat extensive clinical experience in hospital and consultation practice, than those connected with the subject of sterility in women: I therefore now venture to submit the following ohservations on this topic, not merely for the purpose of expressing my own riews, which I helieve to be well-founded, but also in the hope of eliciting the opinions of other practitioners on a matter of mucl importance, and one involving not only the physical health of our patients, but, moreover, in many instances also intimately affecting their social interests and the happiness of conjugal life.
Etiology of Barrenness.-As in every other morlid condition, so with regard to sterility, our first nim must be to ascertain its cause in each instance. Of the various factors in the causation of infecundity, some-such as the absence or arrested development
of any of the organs essentinl for Fallopian tubes, or ovaries-being beyond remedy need not here occupy consideration. In the great majority of instances, however. sterility, when occurring in women within the period of ovarian functional activity, ndmits of effectual treatment, provided that treatment be rationally directed to the special exigencies of each case.
For convenience of description, in the following olservations I hare followed the example of the majority of writers on female sterility, by whom, under this term, is also included the subject of impotency or sexual incapacity. Strictly speaking, howvever, the latter term should be restricted to those cases in which marital
intercourse is prevented sy some physical impediment, raginal or vulvar occlusion, imperforate hymen, vaginisinus, ete whilst sterility, or reproductive inability, is commonly the result of some structural lesion, malformation, displacement, or deficiency of either the uterus or its appendages, although it may also be due to certain morbid constitutional conditions, ne well a be occasioned by other causes, such as sexual incongruity or irrespondence of a moral rather than of a physical kind.
Stenosis of the Cervical Canal.-This is not only the most common of all the causes of sterility just alluded to, but is, more over, according to my experience, the one which proves mo
amen amenable to appropriate trentment. Until a comparativel
modern period, however, atresia, of the cervical rally regardo, however, ntresia. of the cervical canal was gen vail very generally for years, after the period when Dr, Mackin tosh, of Edinburgh, by his revival of the ancient but long-disuse method of dilating the ceryical canal when occluded, provec the curability of, that condition. 7 Practically, the modern trea ment of cervical stenosis was initinted a quarter of a centur, profession, and proved the feasibility of treating stenosis by cisiou with the metrotome, as well as by dilatation with spone and laminaria tents. This, howerer, is not the placo to trace th progressive history of the improved procedures by which th ermee operations resorted to half a century ago in the treatmen of olstructive tysmenorrhcea and sterility have been mow rn
placed. My present object is more practical one. Bevin as I do that, though both dilatation and incision of the cerv may be successfully cmployed in many cases, I also know the hoth these plans very otten fail in permanently overcoming
natural contractily natural contractility of the cervical structures, and that aft conlition, and Irequently from cicatricial contraction becomes st contition, and Ircquenty from cicatricial contraction becomes sti
less permeable than tefore the operation. Hence I now desire dircet attention to the advantage 1 liave observed in the trea ment of such cases from a method of procedure and the use instruments by which the parts are so forcibly separnted and tor

Rean In the Section of Ohstetric Medicine at the Annual Jecting of Britisil Mectical Astociation, held in inilin. Angust, B887.

## apart, rather than cut, as to rednce any risk of their speedy rennion.

Operative Treatment of Cervical Stenosis.-As the method which I employ in such eases differs in some respects from that generally adopted, I may perhaps be permitted to refer to the details of a plan of treatment which within the past session alone lias been employed in eighty-two of my hospital cases of stenosis, and in many of these with the co-operation of my friend Dr. Duke. The total number of cases on which 1 have operated during the past ten years now exceed five hundred instances in casés of cervical stenosis productive of obstructive dysmenorrhoa or sterility.

In such cases the operation should, if possible, be undertaken a few days after the catamenial period, and should be preceded by daily hot water syringing for some time previonsly. For its satisfactory performance the patient should be fully etherised, and placed in ordinary semi-prone position on a suitable gynæecological table. Then the cervir being exposed by a duck-bill speculum, the anterior lip is drawn down by a strong vulsellum as near to the vulva as possible. The sound shonld be now used, or, if this cannot be introduced at first (as happened in a case of stenosis on shich I recently operated in England), a very small flexible probe may be passed, and followed by a larger one, unti] the ordinary uterine sound can be introduced. This being remored, I then pass in, up to the fundus, my uterine director, which you perceive is a long probe-pointed instrument, witl ball and socket adjustment in handle, and rather less hulky than the common sound; and along its groove the button of the triangular guarded, blunt-edged knife, now exhibited, is forced, with the entting surface directed backwards into the uterine cavity. It is then rotated, and withdrawn in the opposite direction. The edge of this instrument is thick and blnnted, so as to crusli apart or tear, rather than sharply divide, the parts through which it is forced, and thus to diminish the risk of hæmorrbage at the time, and to prerent the subsequent reunion of the separated surfaces.
These instruments hare now been used with satisfactory results in npwards of a hundred cases in my hospital and private practice during the past session. But for twenty years preriously I have employed, and in many eases still use for this purpose, Simpson"s original metrotome, which I regard as a far better instrument than any of the more recent metrotomes, and in every respect superior to Sims's or Emmet's, or any other intra-aterine knife.

Whether the metratome or my knife be used, I think matters little, at least when compared with the importance of maintaining the permanent permeability of the passage by whatever-means this has been restored. This, I believe, may be best secured by the use of the dilater now shewn.


Immediately after the completion of the incisions I employ this instrument, not merely with the view of thoreughly expanding the canal and its orifices in tbe most effectual manner possible, but also for the purpose of tearing the divided tissues and vessels, and thus arresting auy excessive hremorrbage. The extent to which this dilatation may be carried mnst, of course, be largely determined by the special eireumstances of each ease. As a rule, however, in ordinary cases I pass the instrument well into the uterine carity, and then, by means of the screw adjustment, separating the points to their full extent (that is, one inch and a quarter, and then not redneible by any external pressure to less than three-quartors of an inch), I withdraw the expanded blades Corcibly through the canal, so as to expand the canal in the aatural direction from within downwards and outwards, and not, is most other dilators, which aet in the opposite direction : reinroducing it, and repenting the same manceurre in opposite lirections, until the passage is so expanded that 1 can readily pass my finger into the uterine cavity. which is ion. In the next place, I pack the cervical canal with a ong tampon of compressed absorbent cotton, saturated in dilute slycerine of carbolic acid, and fill the underlying vagina with a
large glycerine plug. The latter is remored in twenty-four hourg, and the former in sixty hours, if not sooner expelled, being then replaced with a large-sized, soft rubber stem, also previously well carbolised, or else by Dr. Duke's ingenious ball and socket intra-uterine stem, which causes ne irritation and requircy no additional support, and which I direct to be worn, if poasible, until the next monthly period passes over. For a fortnight or ten days after operation the patient should be kept in bed, and the uterine cavity daily washed out with hot water, plain or medicated. Before allowing the patient to leave ber bed I incariably secure the uterus in situ, and lift its weight off the ligaments by a properly adjusted Hodge pessary, which to a considerable extent obriates the occurrence of the possible after-troubles that might otherwise be eonseqnent on this operation. Moreover, I desire the patient to remain in bed during the next menstrual period, which is generally attended with some pain and increased diseharge. She should then wear a soft rubber stem unti] the approach of the subsequent period, after which, and never sooner, she may return to mamtal intercourse.
These precautions and directions may perhaps be regarded as superfluous after an operation which has been deseribed by some who onght to know better ns "one of the simplest and safest of all gynæcological procedures." This certainly is not ny opinion, and I ascribe the snceess which has attended my treatment of stenosis chiefly to their adoption. For although any tyre armed with a metretome may lay' open a contracted cervical canal easily enough, the operation may probably prove worse than useless if it be rashly and needlessly undertaken or carelessly performed. being extremely apt to be followed by ill consequences, such as hamorrlage, pelvie cellnlitis, endometritis, and abose all by permanent eicatricial acclusion of the canal. When abused by those who disregard those details and precantions which are essential for its snfe and successful accomplishment.

Faginal Aphoria or Incapucity--In reference to the eauses of sterility, the condition of the ragina also requires consideration, it being obrionsly essential that this canal should be capable of receiving, retaining, and transmitting the spermatic fluid. These requirements may be variously defeated. Thus the ragina mar be wanting, as I have seen in one instance, wherein the urethra opened on the perineum directly. The rulrar orifice may be occluded by morbid adhesions from rulvitis or congenital atresia: the raginal canal may be abnormally narrowed, or-and more fre-quently-it may be occluded by membranous septa consequent on former parturient injuries or inflammation, of which 1 bare recorded several cases, one of which is at present minder my care in the hospital.

Infecundity from Fayinismus.-Conceptive incapacity, or female impotency, is, according to my emperience, very frequently traceable to raginismus or excessive sensibility of the raginal arifice nnd adjacent parts, attenderl with suel spasmodic contraction of the sphincter ragine as to form an impediment to marital intercourse. This occurs chiefly in patients of a bysterical temperament, and is generally occasioned by neuromata, confined to the parts supplied by the superficinl perineal branch of the pudic nerve." In all such cases constitutional treatment by nerve tonice and sedatives should be combined with the simple pian of local treatment, whicl I have generally found efficient in relieving the most intense dysprremia thus caused, without any operative interference beyond the forcible dilatation of the vaginal canal, and stretching of the pudic nerve by a methed fully described in a recent paper of mine. In some instances, however, these mensures fail, and we mnst then fall back on Sims's and Emmet's operations for the cure of raginismus. It sometimes happens. that even in cases of vaginismus, so intense as to reader complete marital intercourse impossible, the discase is not necessarily a barrier to impregnation. Tluns, in one instance under my observation, so extreme was the local hyperresthesia as not only to prevent the possibility of complete cohabitation, but alse to prevent the patient submitting to any local treatment for relief of the morbid condition. Nerertheles conception oceurred, and I was subsequentlo called in to deliver her at full term, aud. in doing so, was obliged to incise the still unruptured hymen by Which delivery wis obstructed.

Sterilly from Uterine Flerions. - The various displacements of the uterus by which sterility may be occasioned lave been fuliy discussed by recent writers. For my own part. I am inclined to think that an undue degree of importance is nttached by Dr. Graily Ilewitt and lis followers to the inflnence of anteversion and anteflexion in the cauzation of infecundity. In my own
practice, at least, 1 have not often met with cases of sterility assignable to anterior deviations from the normal pesition of the uterus, and I have seen early pregnancy coexistent with marked anteflexions. On the other hand, I have often traeed sterility to retroversion, and again still more frequently to retrotlexion, by the latter of whieh not only is the permeability of the eanal mechanically constrieted at the point of flexion, but, moreover, as in cases of retroversion, and also of prolapsus uteri, the racinal retentive eapacity was necessarily interfered with. In each and all of these three latter conditions I have generally found that the reposition and maintenance in situ of the uterus ly a properly adjusted Hodge pessary sufficed, if the canal itself was perneable, to cure the sterility thns occasioned; otherwise the operation of opening, by incision and dilatation, the cervical canal is also necessary, more especially in cases of flexion with elongation of the eervix, where, from long-continued pressure at the augle of flexure, mulh absorption of tissues has taken place. In such cases the result of incising the cervix, which should always be divided backrards, is, as Dr. Emmet observed, to bring the neek of the uterus to a more natural length, and it then lecomes straighter, shorter, and thicker. This change in the neek is brought about, it is supposed, by the action of the longitudimal filres after the cirenlar ones lave been divided.
Endometritis and Sterility.-Chronic endometritis is ineompatible with fecundity, and as long as that disease exists to any serious extent the patient must remain barren. This fact, to Thich I called attention many years ago, is one of great practical importance, and is too generally ignored in practice. I have known many instances in whieh patients were subjected to aetive surgical treatment to orercome some supposed mechanical obstacle to impregnation, and who nevertheless remained childCless, ne attention having been paid to the existence of chronic cervinal inflammation, on the subsequent cure of whieh pregnaney has followit. In such cases not only is impregnation meehanieally obstruetered by the viscid glairy seeretion by which the os and inferior segmet the the cervieal canal is sealed in all cases of endocervicitis, but aiflin, as Mr. Whitebread long sinee pointed out, the inflammatory action , oroing on within the uterus may prevent the formation of the membrana decidua; and henee the ovim, even though impregnated, is nien nessarily thrown off without any manifestation of its existence in the fertikised state. Secondly, the diseased condition of the linind membrane of the aterus may be extended to the Fallopian canalst. obliterating for a time their internal orifices, so as to oppose an insurmountabie barrier to impregnation. Thirdly, the uterine seere tions, in cases of endometritis, may be inimical to the aetive existhe Whitebread's views, i

Hence, agreeing as I do with Mr. fur fions on this submay also recapitulate briefly the conclu tale first volume of ject which I published several years ago in ti. wr. have been conthe Dublin Obstetrical Transactions, and which ly have haten congesfirmed by my more recent experience, namely: ite . . cervix ateri, tive hypertrophy of the uterus, and especially of thif ditions are, is a very common cause of sterility. $\xlongequal{2}$. That these cou na anses, one in the majority of cases, oecasioned by constitutional coon anses, one of the most frequent of which is the serofulous diathesis. ios tment ; these diseases require constitutional as well as local trea, fment; and in this connection I therefore would again urge the bell , teras, derivable in such cases from certain mineral and thermal whri alth the uses of whieh are fully described in my work on The IIt a Resorts of Europe.
Ovarian and Tubal Sterility.-Ovarian inflammation is ons ' of the most frequent consequenees and accompaniments of en dometritis. In these cases the inflammation extends from tht a uterus along the Fallopian tubes to the ovaries, and this toleyts great extent accounts for the fact just mentioned, that patiendis. suffering from endometritis or endocervicitis are invariably steril!at ${ }_{2}$. In such cases the inflammatory action is generally atteniled by $o_{e}$ viseid exudation, by whieh the tubes, and especially their uterinyo orifices, are mechanienlly sealed against the possibility of imprega_nation. Independently. however, of its frequent sequence on ench. dometritis, tulbal obstruction, productive of dysmenortheen andof sterility, may also arise from thoso possibly graver, but, accordingle to my experience, comparatively exceptional diseases, namelyds idiopathic salpingitis an! pyo-salpinx, in the treatment of which oprative procedures, involving loss of all future conceptive $=$ alility by the complete removal of the uterine amma, are now $\overline{\text { he }}$ so readily resorted to by some practitioners. For my own part,tn. having in not a few eases seen all the supposed symptoms of pyo: h. salpinx subside completely without any surgical iuterposition
whatever, it would seem to me quite as rational to amputate th breast for an ordinary mammary abseess as to remove the Fallo pian tubes merely because they may be the seat of serous or puru lent exudations. In some eases of the latter kind there is, as can wouch from clinieal experienet, no absolute impossibility o reaching and removing such collections by nspiratiou or eren by catheterisation of the Fallopian tubes.

Many years ago, having oceasion to use the sound in a patien suffering from dysmenorrhoa and sterility, 1 was surprised, ther being no enlargement of the uterus, to find the sound pass in $u$ to the handle, and on palpation discorered that obvionsly it ha entered the right Fallopian tube. A year subsequently that lad gave birth to her first child, after eight years of married lifi Since then 1 have more than once suceeeded in aecomplishing b a little careful manipulation what in the first instance was but happy aceident. And hence I endearour to impress on those wh attend my hospital practice, the fact that the catheterisation ${ }^{6}$ the Fallopian tubes, when employed by a practised hand and wit due caution, is a feasible, and in some exceptional instances ma possibly prove an effectual, method of treating certain cases dysmenorrhoea, sterility, and other morbid conditions.
Sterility may also arise from eauses irrespeetive of any physic lesion; and although impregnation in no wray depends on th sexual orgasm, unquestionably it may be prevented by strou mental enotion or personal dislike. In some instances, hov ever, sexual incongruity productive of sterility coexists wit conjugal affection. Thus, 1 have more than once heen col sulted by sterile patients, happily married, desirous of offsprin, and not suffering from any physical dissbility, who informed ir that, though warmly attached to their husbands, not only wi there absolutely sexual indifferenee, but even positive repugnan! to coition, any attempt at which in one of these eases invariab produced nausea. In that case 1 may add that the last-mention symptom was allayed by the use of cocaine suppositories.
Still more commonly is sterility dependent on abuse or abnorm irritation of the sexual organs, and hence the general sterility prostitutes. It is hardly necessary to observe that in such eases long period of abstention from all sexual stimulation affords $t$ only hope of curing the impotentia generandi.
In the treatment of infecundity, independent of any loc disease, malformation, or displacement, or of any obvious derans ment of the general health. or other tangible cause, and in whi the mineral waters already referred to have either been tri without benefit, or are contraindicated or not available, a cour of sea-bathing, whatever may be its modus operandi, is a pr seription the oceasional effieacy of which in such cases I ba seen proved by experience.

## HEMORRHAGIC PHARYNGITIS.

## by Arthur jamison, m.D., <br> Loudon.

I WISII to draw attention to a condition I may call, from its eh symptom, "hæmorrhagic pharyngitis." It is not mentioned in o textbooks. I have found it rery obstinate to cure if its cause overlooked, and nlso because I have found amonigst patients
fering from it some of the greatest grumblers at medieal $m$ fering from, it some of the greatest grumblers at medical m
whom I have ever met. And no wonder. Five ont of eleven ve marked examples of this condition were thought to be, or were become, vietims of phthisis, had got no benefit from medical trei ment, and before they eame under my care had dritted, by adviee of friends, to the tender mercies of quacks, who promis to cure their consumption, and had made themselves worse poeket and digestion by swallowing many bottles of tarry em sions. Three other patients, whon 1 saw when at the Kiviera, to their work in life, and without any benefit to their ailme Let me give a case fairly typical of them all, as much as possi in the patient's own words.
Mr. D. came to sre me, and, almost before I had time to sas word, produced his pocket handkerchicf, and, with a voice pressing the deepest concern, said, "Doetor, what's this? Is serious? Is it a return of consumption?" I saw on the har kerchief several masses of dusky, red-stained expecteration. toht me that, preceding this attack for several lays, he had menting desire to elear it; and his throst felt dry and hurni and this burning feeling was greatly increased hy swallowi
anything pungent. ILe told me he generally got his first warning whenever sherry felt burning as he swallowed it. After about two deys of great discomfort he got relief by being able to hawk up rery frequently dark, blood-stained lumps of phlegm. This he kept constantly doing all day long for about a fortnight. Ife at the same time had a good deal of prosis and great mental depression. As the attack wore off the blood-staining got less and less; and, as he invariably examined ench mass of expectoration, he got cheered hy seeing it become yellow; then the yellow mixed with something clear and gelatinous, with what he called dark spots in it. IIe very strongly emphasised the fact that he got no bencfit from cougling; that only by hawking, in which he was quite an expert, did he bring the secretion up easily and quickly. This gentleman was of an intensely nervous, anvious temperament, seemed to be in fairly good health, not intemperate in any way-indeed, far too careful to keep up his tone, and had not got and in cold weather liable to attacks of extremely painful diarrhœa, passing many copious, offensive, white-coloured motions. An attack of this diarrhoea seemed to relieve his throat for some time fterwards, and the sanguineuus expectoration stopped for awhile. lle never had piles, and wlien a boy lad many attacks of epitaxis.
Another interesting case was that of a young gentleman, a Mr. Hck., aged 27, who was brought to me by his father, laving been ald by their family doctor that his son was suffering from an ittack of hrmoptysis, which indicated commencing mischief in his hest and urged him to take a long sea royage, or a stay on the Riviera. This young gentleman had had frequent free epistaxis when a loy, and was frequently bilious. Another case was that If a Mr. R., aged 52 , of portly size, and, being a man of leisure and
neans, had been to a fresh physician for each recurrence, and now neans, had been to a fresh physician for each recurrence, and now bonglit he would try me just to give me a chance. IIe had epiitaxis when a boy, and told me also that he remembered getting anumerable powders in childhood, as his liver was said to be perlet ually out of order, and his motions never pleased his mother or lurse elther in colour or consistence, being always called pasty. the least indulgence in the good things of life gave him a bilious leadache, and he had been told his heart was weak.
The diagnosis of all these cases rested on the fact of the entire bsence of Jung mischief, and on the microscopic characters of the putum. The clear portion of the secretion consisted of large quamons epithelium from the mouth, and many small round cells rom the entrance to the larynx, and a few pus corpuscles, the -ellow yortion of pus and fat cells, a few blood corpuscles, and in Teat abundance the large spheroidal cells from the pharynx, and ourse quantities of blood corpuscles and erystals of hematin. here were no elastic fibres nor any distinctive epithelinm from. he alveoli or bronchial tubes. Two of the cases came under my latice since the discovery of the tuberele bacillus, and I need hardly say I could not find it. I may mention that as most of lese cases were very nervons people the microscopic examination eemed to reassure them very greatly, and I would like to advise very practitioner as a routine thing the microscopic examination f the sputum. I lave found nothing equal to it in obtaining the natientis confidence. There wins uothing unusual to be seen in the harynx except that it looked frequently anmemic in the early tages with enlarged veins coursing over it. Afterwards there were atches, especially laterally, of a rery deep dusky-red colour. here were no signs of follicular disease, and the larynx was ormal in every casc. In nine out of the eleven cases the liver as slightly enlarged and tender.
Now what causes this condition? Is it catarrhal? I think not. am inclined to think it hepatic in its cause. The epistaris that last of these cases suffered from in childhood is, we know, assoiated with hepatic disturbance. There was a fairly contimmous istory of biliousness and liver engorgement, and as there wreno iles, it scems to me that pharyngeal hemorrhage of a passive haracter replaced the ordinary rectal leakage.
At first, thinking I had to do with a loeal disease, I used various eueflt whing pigments and sprays chiefly of iron and tannin, hut no eueflt was derived from their use. l lave found most relief in le irritative stage from painting the pharynx with a solution of arbolic acid and glycerine ( 3 ss to $z^{3} j$ ), and using Nl Men and Ilanarys pastilles of chlorate of sorla. As most of the cases were men f a flabhy condition in addition to their biliousuess, I hare found combination of nitric acid aud extract of hark of the greatest
alue if contimued for several weeks, adding a little tincture of
nux vomica if much flatulence troubled the patient ; also limiting the amount of fluid taken to about half a pint with each meal, and the avoidance of cold bathing or sponging helyed to maintain the gain deriverl from the mixture. The effect of alcohol was very marked in its positive injury. It was noticed by several that if they had been out to dine and had taken more mine-especially elampagne or port-than usual, they knew that next morning their expectoration would be bloody. One gentleman noticed that lie invariably lad a relapse when abroad after taking café noir and cognae the night before.

I found in obstinate cases when the nitric acid failed, the somewhat old-fashioned prescription of sulphates of magnesia and iron with dilute sulphuric acid of great use. The use of a saline aperient, especially if taken after a little blue pill the night before, was extremely useful, and latterly I have always started the treatment with it. Thus it will be seen that as I treated the throat less and the general condition of the patient more, and, to use an old medical phrase, "looked after his liver," the better the result. Many times I have lieard patients say that they could not get their medical men to do this. It seems to me that this important organ has gone out of fashion with the profession nowadays, and bacilli and endless neuroses absorb all its energies, greatly to the gain of the endless makers of pills and mineral Waters: the numbers of aloetic pills and glasses of waters containing chiefly sulphate of magnesia, that are swallowed-too often unwisely-by the public is hardly realised by medical men.

## THE COMMUNICABILITY OF TUBERCLE THROUGH COW'S MILK.

## Ev LOUIS PARKES, M.D., D.P.H.Lond.

Assistant to the Professor of Hygiene, University College, London,
That cow's milk is not uncommonly a rehicle for the tranemission of infectious disease to the human subject is now well understood. The evidence in support of such a mode of propagation is in many cases incontestable. Enteric ferer, scarlet ferer, diphtheria, and a disease resembling the foot-and-mouth disease of cattle are known to have been spread by means of the milksupply. There is one other disease, tuberculosis, in which cow's milk has not been definitely proved to have served as a carrier of contagion; but amongst those who have made a study of the subject the view in favour of such a mode of propagation is regarded as containing the elements of extreme probability.
Cattle are fery susceptible to tubercle, and stall-fed dairy cows in towns are not infrequently found to be affected. Indeed, Professor Fleming has asserted that at least 25 per cent. of all Jairy cows kept in towns are the subjects of this malady. These animals are stalled day and night in stables often uncleanly or badly rentilated, and they are perpetually being drained of largo quantities of milk. Prolonged lactation in the human female is well known to be a frequent precursor of phthisis, and it is not to be wondered at that, under such circumstances, and with the additional factors of confinement, want of exercise, and bad air, cows should suecumb to a malady to which they are in a high degree susceptible.
It has been found by experience that the best bred animals, Which are also usually the best milkers, are those which are soonest affected. In the early stages the symptoms of the disease are ill-defined, the health of the animal is apparently not interfered with, and the milk secretion is as abunfant as ever. It is not until the disease is well established that nutrition is interfered with; and even then, unless the amonnt of milk is seriously lessened, the dairy farmer continues to keep the animal in stock. So far as known at present, the milk of tuberculous cows is free from tubercle bacilli, unless there has been-as is sometimes the case-a deposition of tubereles in the glanis of the udder.

It would be extremely intercsting to know in what percentage of cases the mammary glands are involved in the process of tuberculisation, and at what stage of the disease such involrement usually commences. Milk which contains tubercle bacilli, When given to guinea-pigs and rabbits, causes tubercular deposits in the lymphatic follicles lining the intestinal walls, followed by tubercles in the mesenteric glands, peritoneum, liver, spleen, and general tuberculosis (Klein). Milk which is free from tubercle bacilli, although derived from undoubtedly tubereular cows, has
not so far beun found to be productive of tuberculosis in calves and viher anmals to which the milk was given.
It may be fairly assumed that in muny of those cases of primary tubercular uleeration of the intestines or of tuberculosis of the peritoneum and mesenteric wlanls (tabus mesenterica), which Decur in the human subject, the tubercular virus has been introducud with tho food, and the absorption of the virus has taken place through some part of the digestive tract. These diseases are usually primary in young children; in adults they are mostly secondary to tubercular disease of other organs, especially of the lungo, On referring to the Registrar-(ieneral's Summary it is seen that in the teu jears $1571-80$ tubercular peritonitis and its allied disease, tabes mesenterica, caused amongst children under 5 years of age an average mortality of 2.55 per 1,000 jer anmum, which approaches closely the average mortality from measles ( 2,57 per 1,060 ) in the sanie period, and is more than twelve times as great as the corresponding mortality from these diseases of any ather age-period of dive years, from the age of 5 up to 100 . Primary tubercular disease of the lungs in children under 5 years of age is a comparatively rare event. The average annual mortality from phthisis of children under 5 years for the decennium 1871-80 was only 0.77 per 1,000 , and possibly some of the cases so registered Tvera really secondary to primary tuberculosis of the abdominal organs. Thie extreme incidence of primary tubercular disease of the abdominal lymplatic system on young children is at once seen from these tigures. In the matter of dietary there is one great distinguishing feature between this age period and all others. U'nder 5 years of age, milk-usually unboiled-forms the staple fooll of children.

Whilst not denying that the tubercular virus may find other means of reaching the digestive tract than through unboiled cow's milk, it appears to me that there are no sufficient safeguards in the management of town dairies to warrant us in assiming that milk from cows in an advanced stage" of tuberculosis has no chance of being mixed with the milk of other healthy cows. In every dairy of any size there will probably be tubercular cows, some of them, perhaps, with tubercular deposits in the udders; and as it is the common custom with dairymen to mix together the milk yielded by different cows, it is not too much to assume that tubercle bacilli may be widely distributed in the milk supply of any tomi. It has been said that the tubereulosis of eattle is not the same disease as the tuberculosis of man, and that the absence of any proof of the human variety having ever been dependent upon ingestion or inoculation of the virus of the bovine rariety tends to strengthen such a belief. To this it may be replied that the bacilli of bovine tuberculosis are identical-according to all bacteriological methods at present known-with those found in tubercular formations in the organs of man, and that although the disease presents anatomical differences in man and cattle, these differences may be explained as being due to differences of soil in the human and bovine tissues, the hacilli ingrafting themselves in those tissues which present conditions most favourable to their growth and development. Secondly, absence of proof may only mean want of obseryation or recorded data, and cannot be held to imply that at no future time will satisfactory evidence of the dependence of the human disease upon a bovine source be brought to light.
Kaving regard to all these considerations, surely the time has arrived when a radical change in the present methods of milk production and milk consumption is urgently needed. In the first place it should be rendered illegal for cows known to he suffering from tuberculosis to be kept in stock by dairymen and farmers for milking purposes; and, secondly, in no household shonld unboiled milk be consumed, more especially by children. No other animal food is consumed by civilised nations in an uncooken state: and by the light of our recently acquired. knowledge it would appear that there is as much, or more, danger connected with the practice of drinking unboiled milk as of eating raw thesh.

Exposure to the heat of boiling water for five minutes destroys the life and action of the tubercular virus (Klein); and the same is true of the other specific disease poisons. By such simple means, then, is it possihle to guard against an ever present source of danger, as well as to obtain protection from those possibilities of the introduction into our bodies of the viruses of enteric fever, scarlet fever, and the like, which the experience of past epidemies has. taught us to be latent possibilities in milk, with powers of devilopment at the most unexpected periods. If medical practitieners generally recognised the importance of these views, and
were careful to enforce them upou those entrusted with the care of delicate children of serofulons diathesis or with hereditary tendencies to tubercle, a commencement wonld be made in the right direction, which would gradually extend itself through all classes of society.

## CEREBRAL ABSCESS IREATED SUCCESSFULLY BY OPERATION.

## By DAMER HARRISSON, M.K.Q.UP.J.,

Honorary Surgeon to the Liverpool Northern Hospital.
Tire case was one of traumatic origin, the injury, having beer received eleven years before urgent, and ten years before evel slight, symptoms appeareủ.
The patient, a hoy, aged 15 , was admitted into? the Northen Hospital, Liverpool, on December 22nd, 1887," with partial righ hemiplegia and severe pain in the head. His parents gare the fol lowing history : Eight days before admission, he received a blow upon the right side of the bead, which another boy accidentall. inflicted with a pair of tongs, Three days afterwards, he was sud denly attacked with convulsions of the right side of the body These appeared first in the arm, and then spread to the face an leg. When they had ceased, the patient found that he had los especially in the right arm. During the succeeding four days, $h$ had eight similar attacks. These conrulsire fits were accompanie by giddiness and pain in the head, but by no loss of consciousnes The pain in the head had increased in severity, and the paralys had also increased, especially in the face and leg. Vomiting ha occurred tro or three times.
On admission into the hospital, there was marked paralysis the right side of the face: and neck, the right arm and the rigb leg. In the arm the extensors of the wrist were principally a fected, the biceps next, and the deltoid ouly slightly so. In the le the quadriceps extensor and the long extensors of the toes were th muscles chiefly paralysed.
There was very severe pain over the top of the head, not $r$ ferred to one side more than the other, and the intellect was dul The tongue was protruded towards the right side., There was in pairment of vision in the right eje, but sensation over the surfa of the body was quite normal.
The reflexes on the right side were as follows:-Superficia plantar markedly diminished, abdominal diminished; deep: kne jerk much exaggerated, no ankle clonus. Numerous moist rall and sonorous rhonchi mere heard orer the right apex, and bron chophony was marked posteriorly on the right side.
Soon after admission all the paralysed muscles were convulse for about five minutes. Upon examination of the head no sp
tender to pressure or percussion tender to pressure or percussion could be definitely discovered, b a oicatrix was observed on the left side cevering a somewhat $u$
eren surface of bone, and a further inquiry from the patient friends elicited the following history; Eleven years before, whi between 4 and 5 years old, he had received a severe blow upon $t$ left side of the head, causing a wound from which hone was $r$ moved; this injury was followed by no severe symptoms. Duris the last twelve months twitchings in the right arm had been o already described.

From the history of the patient and the personal observations have related, my colleagues and I came to the conclusiou th there was probably an abscess of the brain, situated in the mot region of the cortex, and an operation was determined upon.

On mapping out the side of the head by Thane's methorl the cicatrix was found to correspond in position to the upper part the left ascending frontal conrolution, and the centre of cicatrix Was therefore chosen as the site of operation; and on $D$ cember 23 rd an inch dise of bone, was removed, the centre of $t$ trephinehole being three-quarters of an inch in front of the nissure
nolando. The bone remove Rolando. The bone removed was very adherent to the dura mpt and was found to be of rery unequal thickness, a ridge of bo occupying its centre, haring evidently pressed iu an alnorm manner upon the brain. The whole extent of the ridge not havi close to the middle line and remored, leaving an irregular openi an inch by an inch and a half in extent. Having removed wt
might possibly be a source of irritation, nnd as there was no bulging of the dura mater, I decided'to postpone further procedure, in the meantime keeping the wound open, so that lurther exploration might readily be made.
December 24th. The patient passed á quijet night, with complete relief from pain, and wàs more intelligent. The plantar and patellar retlexes had become normal. Pulee 60; temperature normal.
December 25 th. He had had slight pain in the head occasionally: The plantar reflexes were more marked, the limb beceming firmly flexed, and remaining so for some minutes.

December $26 t h$. He had passed a restless night, complaining of pain at intervals; the right lower limb was tonically half flexed, and could not be extended, the plantar reflex exaggerating this contraction for a few minutes.
December ${ }^{2}$ th. He was rather more apathetic, and inclined to be drowsy...The temperature during the night $97.2^{\circ}$ F., the pulse 45. Paralysis was alsolute. The contraction of the right leg was more marked, the patella tendon reflex was absent, and the plantar reflex delayed.
I now considered it necessary that a further exploration should be made.: This was effected by a crucial incision through the dura mater one inch in length; then, with a tenotomy knife, a puncture was made into the brain in a vertical direction for one imeh and a quarter in depth, until a drop. of pus was observed to have made its may along the blade; an incision was then made one inch in extent, througlh which nearly four drachms of feetid pus rapidly flowed, as if under the influence of considerable pressure. The abscess cavity was syringed out/,with corrosive sublimate lotion, and a horseluair drain inserted.

December 28th. He slept all night, and had no pain. The patella tendon reflex was just perceptilled.
December 30th. He had not been so drowsy. The drainage was unsatisfactory, one drachn-of pus having collected. The horsehair drain was removedr and a small india-rubber tuhe inserted.
January lst. The right leg had recovered somer power; the plantar reflex was much less marked.
January ?nd. The lamstring and quadriceps extensor muscles of the leg had recovered more power; facial paralysis was less marked. Odi January 3rd, slight morement was observed for the first time in the right arm, and on January 5th he was no longer drowsy; had no pain, and was quite intelligent and quick in answering all questions. The right arm could be rotated ontwards at the shoulder. The leg had power of flexion. extension, and adduction. On January 6 th, a hernia cerebri protruded from the wound an inch in height. On January loth he could flex the arm at the elbow.
Jannary 13th. Pressure having been applied, to the hernia cerelri, it was observed that upon relief of pressure during the dressing of the wound, the pulse would rise from 60 to 84 , becoming again 60 after two heurs of pressure.
From this time the listory of the case is simply an minterrupted progress towards recovery. The hernia cerebri, which atone time assumed the proportions of a Iarge walnut, entirely subsided under the influence of elastic pressure. The temperature was generally subnormal, and only reached $100^{\circ} \mathrm{F}$, upon one occasion.
The patient was allowed to get up on Jnnuary 29th, and could walk with some assistance; about a fortniglit-afterwards the drainage-tube was finally removed.
At the present time, April 15th, the pationt is perfectly wellthe only difference when comparing the opposite sides of the tody, being found in the grip of the haads, the right hand grip being 27 , the left hand grip being $28 \frac{1}{2}$ kilogrammes. Optic discs are nermal.
Remarks.-The duration of the latent period, eleven years, forms an interesting feature in this case, as I understand that here are not many recorded. The syimptoms of localised disease luring the latent stage, as shown by the twitchings of the right irm, and afterwards by the convulsions beginning in the arm jefore sprcading to the faco and leg; clearly point to the arm entre as the focal area of the abscess. The order in which reravery took place' also supports this view. 1. The face and ongue. ${ }^{2}$. Neck. 3. The leg. Lastly, the arm.
The localisation was much facilitated by the presence of a ciearix indicating the point of original injury, but, in the absence if this, the extensive nature of the paralysis, which implicated su apidly the face, tongue, and neck (the centre for the latter in nonkeys being the first and second frontal convolutions), would
have led to the choice of the ascending frontal, rather than the ascending parietal, convolution as the seat of disease.
In diagnosing abscess rather than tumour, the factors chiefly taken into consideration were the original injury and the prolonged latency, afterwards followed by neute symptoms, accelerated by a recent blow, the symptoms hearing the character of a rapidly increasing focus exerting great yressure on surrounding parts.
The operations and after-treatment of the wound were conducted with the most careful antiseptic precantions. 1 regret that no ophthalmoscopic examination was made on the patient's admission, but his condition at that time would have rendered any satisfactory examination extremely difficult." The horsehair drain was a complete failnre, but the india-rubber tube gave perfect drainage, slowing that drainage by silver tubes is not absolutely necessary.

## OPHTHALMOLOGICAL MEMORANDA.

## ENE OPERATIONS: BROMIDE OF POTASSIUML.

The Journal has recently contained several coutributions duscribing methods of employing cocaine in squint operations, the aim being to render the operation painless. Mr. Browne says: "Squint operation, even on nerrous, frightened children, can be done painlessly." Immunity from pain is not enough for the "nervous frightened" child, whose fear must be allayed. Cocaine will not banish alarm. We are all, however, familiar with the soothing influence of bromide of potassium in emotional disturl)ance, and yet the virtues of this drug do not appear to have been utilised in relation to operations. It is now my practice to gire to children who are to uadergo operation a full dose of the drug, and operate during the calm which ensues. I now speak not of squint operations merely, but of eye operations in general. The suggestion I make commends itself; it does not need mueh adrocacy. 1 shall mention only one recent case: C. H., aged 5 , had double congenital cataraot, a considerable portion of the lens being transparent. (For both eyes the jrocedure, was the sameneedling, and sereral days afterwards linear extraction. On each of the four occasious cocaine was instilled, bromide ( $t 0$ grains for, the extraction) administered, the operation performed without difficulty, and followed by sound sleep. I tried to tear the capsule of the second eye without bromide, but the boy was unmanageable.

Dırid Mckeqwin, M.D.
Manchester.

## TOXICOLOGICAL MEMORANDA.

TONIC ACTION OF EATRACT OF EUCALYPTUS.
A FEW drys ago, a male patient, aged 25 years, took by mistake abont five drachms of extract of etcalyptus, at 10.45 P.s., and laid himself down in hed again, after going to atteurl to a sick relative in the same room. Near 12 o'clock hé felt faint aud giddy, and as if be was heing lifted up liy the heels and his heels pulled up over his head. He also began to feel inclined to say all his thoughts aloud, and found some twitching going on involuntarily in his fingers. Thinking dreamily the might be poisoned, he drank a large glass of cold water, but did not vomit. His wife, aronsed to his condition, came for me, and at 1.20 A.M. I found him with weak, rapid pulse (120), but quite sensilule and com-: plaining of the above symptoms. Free vomiting (suelling and tasting strongly of eucalyptus) was caused by administration of mustard and water.
On page 840 of Dr. Latder Brunton's Materin Medica, he says:
Encalyptus acts chiefly ou nerre centres; depression of brain, medulla and heart; drowsiness, feeble respirution, lowered bloodpressure, and fall of temperature......Death from paralysis of respiration." At page 703 of the same book, cafteine is zaid to"stimulate medulla and cardiac contres, and rase the bloodpressure."

As 1 .was unable to tind in any book or remember an antidote for eucalyptus, I hastily prepared a hyporlermic injection (Afactiudale and Westcott) as follows: Uaffine. 20 grains; salicylate of soda, $17 \frac{1}{2}$ grains; water, I drachm. After the emetic had acted. I injected iuto the arm six minims of the solution. All unpleasant syniptoms speedily disappeared, and we sat talking till 3.30 A.m.s. when I left him apparently recovered.

He called upon me in the erening of the next day, said he was sleepless after 1 had left him, for a couple of hours, got up at noon: the urine had a peculiar odour, and there was some diarrhoe of a blackish colour; he had also pain in the end of the penis and the right testicle (which was drawn up). The dose of extract of cucalyTus is about fifteen minims.

Ervest Siffaf, M.R.C.P., F.R.C.S.Ed.,
IIonorary Surgeon to the Toowoomba IIospital, Toowoomba, Queensland, Australin.

## POISONING BY STRAMONLUM.

J. F., a strong and healthy young woman of eighteen, taok by mistake for herbs about half an ounce of stramonium leaves (which her father had left in the cupboard for smoking to relieve his asthma), and having made an infusiou with nearly a pint of boiling water, she drank a large teacupful of it off. Charaeteristic symptoms were developed within an hour, and I saw her shortly after they appeared. Brielly they were as follows: 1. She had no rash, yet ( 2 ) there was complete mydriasis, indistinctness of vision, and a staggering gait. 3. There was no stupor, but incessant "fussy" delirium and much "giddiness." 4. The mouth and throat were dry and the fauces insensible to the tonch, so that irritation of the pharynx produced no reflex action. 5. She chattered, laughed, and grasped at imaginary objeets, and had a tendency to fall over when endeavouring to rise. 6. The pulse and respiration were not seriously affected.
The treatment consisted in the administration of stinulating emetics and five-grain doses of caffeine, at frequent intervals, followed by a full dose of castor-oil. The symptoms subsided in about eight hours; and a partial explanation of their less than usual intensity after such a dose is probably to be found in the fact that the patient, feeling "giddy and queer," ns she described it, took a copious tea-meal immediately after the ingestion of the poison.
J. Holmes Jor, M.A., M.D.

Tamworth.

## Case of opium poisonivg in an infant one montii OLD: ARTIFICIAL RESPIRATION: RECOVERY AFTER FORTY-FIVE HOURS. <br> At 6 A.m. on February I6th I was ealled to an infant, aged one

 month, to whom a dose of three drops of laudanum had been administered by its nurse, on the previous night, at 10 p.m. The child was in a semi-comatose condition, from which it could with difficulty be aroused. Tro draehms of rin. ipec. had no effect as an emetic, but a hat bath, followed by a cold douche down the back, thoroughly roused the child for the moment, but the sleep subsequently. grew deeper and the respiration faiuter, till it gradually ceased altogether.1 at once resorted to artificial respiration, and after about an hour's work succeeded in inducing the child to breathe again. This was maintained by means of constant stimulation with hot flannel for an hour and a half, when another relapse took place. I acain had recourse to artificial respiration, and after another hour the child onee more opened its eyes. Another hot bath and cold douche had now a good effeet, and by dint of constant friction, patting on the back, application of hot cloths, and stimulation with the current of air induction apparatus, we kept her amake for a couple of hours. The effect of the drug, however, had not in the least worked off, though it was now eighteen hours sinee it had been given, but the infant seemed more under its influence than ten hours previously. Nutrient enemata had been given every hour and retained.
She relapsed for the third time into a comatose state, and artificial respiration was again kept up almost constantly for about three hours, by which tine natural breathing was agein established; but constant watchfulness was still necessary. The face was wizened, the jaw dropped, and the eyes glazed and heary; pulse and respination barely perceptible. In this condition she remained for nineteen hours, fed by nutrient enemata. At about $5 \mathrm{r} . \mathrm{m}$. on February 17th she seemed to wake up of her own accord, and gave a little cry. On being put to the breast she trok it and drank heartily. She made a rapid recovery. The child was one of twins, and premature by about a month.

Seaford, Sussex.
Willifas Pringle Morgan, b.a., M.d.
Lord Justice Bowrn will preside at the ammal festival dinner of King's College Hospital, which will be held in the Whitehall looms of the Hôtel Métropole, on Monday, April 30th.

## REPORTS <br> or

## hospital and surgical practice in the HOSPITALS AND ASYLUMS OF <br> GREAT BRITAIN, IRELAND, AND THE COLONIES

## MIDDLESEX HOSPITAL.

TWO CASES OF LARYNGOTOMY: A EUGGESTION AS TO THE applicabilitty of sutcres to the air-passages in cases of cut throat.
(Under the care of Mr. Henay Monris.)
[Notes by Mr. W. G. NASH.].
Case 1. A Large Recurrent Myeloid Sarcoma of the Face; Laryngotony: Removal of the Grouth; Recovery.-W. T., aged 45, a stonecutter, was sent by Mr. Lang into Braderip ward on January 16th, 1888, under Mr. Morris. He was suffering from a large recurrent sarcoma of the right side of the face.

History--Two years ago he first noticed slight pratrusion of the right eye and blocking of the right nostril, followed by a small swelling of the right side of the nose. There ras bleeding from the right nostril, the eye became more prominent, and the swelling mereased for a period of six months. The mouth was not inrolved at this time. He went to the Bristol Royal Infirmary, and Mr. Board removed the superior maxilla with the growth. As soonas the wound waa healed the tumaur recurred. During the next few months a large swelling formed and projected the eheek, but did not involve the eye, and six months after the first operation this recurrent growth was removed. Six weeks after the second operation a swelling formed below the right eye, from which the present disease has gradually developed. He had syphilis at 20 . Ulceration of legs for the last twenty years. Has been a great beer drinker. Father died of alcoholism, aged 60.. Mother died, aged 70 , of unknown cause. One sister died of phthisis. No family history of cancer or tumour.
State on Admission.-On the right side of his face is a tumour about the size of an orange. The skin over it is of a mottled ${ }_{r}$ dark-purple colour, and is uleerated, and there is discharge of sanious pus and blood. The tumour is firmly fixed to the surrounding struetures, and involves the skin from the orbit to the upper lip, infiltrating it for nearly an inch from the margin of the tumour. It spreads upwards as far as the upper margin of the orbit behind the eveball, and downwards nearly as far as the corner of the mouth. Internally the growth projeets against the nasal septum extending forwards to within half an inch of the anterior aperture of the uose. Externally it spreads to within an inch and a half of the ear. Its edge is ill-defined. It is not adherent to the roof of the orbit. The lower eyelid is everted, and the cye is pushed upwards and prominently forwards, thus producing diplopia. There is a very offensive discharge from the richt
nostril, and frequent hæmorrhage from the tome nostri, and irequent hermorrhage from the tumour. In the
mouth there is a large soft far as the middle line and backwards to the front part of thally as palate. There are no enlarged ardads beneath the jaw of the sofu paek. The patient was in a very distressing and loathome con-
net dition, and was quite willing to undergo any operation which afforded him fair hopes of relief.
Operation, January 24th.- Patient being anæsthetised, laryngotomy was performed and a llahn's tube inserted. After waiting a few minutes to allow the compressed sponge around the tuhe to swell, an ineision was made beyond the upper and outer margins of the growth along the free margin of the orbit a little below tho eyebrow and just over the external angular process of the frontal bone. The tumour and the eye were freed and pushed forwards and downwards with a raspatory; the deeper structures of the orbit were dirided with scissors, and the whale of the contents of the orbit thus enucleated. An incision was then made downwards along the outer border of the growth about au inch in front of the ear-hole to about half an ineh abore the angle of the mouth, and another incision in wards above the free border of the upper lip as far as the frenum of the nose. Lastly, a fourth in-
cision was cision was carried upwards to the inner end of the first incision
along the $r$. inner end of the right eyebrow. The bones were divided with
ind bone-pliers, and the growth was thns taken away en masese. A large chasm remained, the roof of which was formed by the roof of the orbit ; its inner wall by the septum of the nose; its outes
wall by the outer wall of the orbit, pterygoid processes, and ascending ramus of the lower jaw. The floor was formed by the tongue and a portion of the soft palate which was left intact. l'osteriorly it communicated by a wide opening with the pharynx. The internal maxillary artery bled freely, but was easily controlled. The cut end of the parotid duct opened at the lower and outer margin of the chasm (seen as a dark spot in the woodcut). Paquelin's cautery was freely applied to the stumps

of the muscles and the optic nerve at the apex of the orbit. The mucous membrane of the cheek was'sutured to the skin at the edge of the wound. The wound was stuffed with a large soft antiseptic sponge; the canmula was easily withdrawn from the air-tube; and the wound over the crico-thyroid membrane was dressed with carbolic gauze, but no sutures were inserted either into the crico-thyroid membrane or the external wound in the neck. The Haln's tube acted very well, and allowed of the operation being rapidly proceeded with, without any interruption from hæmorrhage, or difficulty in the administration of the anæsthetic.

Course.-For the first trenty-four hours the patient was fed by nutrient enemata. The subsequent progress was, on the whole, most satisfactory, although it was interrupted on January 27th, and on two or three subsequent days, by swelling and tenderness over the parotid region, and on February 13th, I4th, and I5th by severe headache on the right side. On January 3Ist, just a week after the operation, the laryngotomy wound was quite healed, and the patient sat up. There was never at nny time after the operation either air or mucus discharged through the wound in the larynx. The patient has been greatly bencfited by the operation. The onter and lower parts of the chasm have much contracted; the line of the upper lip is perfect. There are no signs of recurrence in any part of the structures; he is quite well, and ready to wear the artificial face with which he will be provided. The microscopic examination showed the growth to be a very vascular myeloid sarcoma.
Case Ir. Papilloma of Larynz. : Extra-laryngeal Exciston: Tmmediate Healing after Suturing the Wound in the Larymx.-W. G., aged 38, a board-school teacher, was admitted under Mr. Morris on January 24th, lsse, suffering from loss of voice due to a yolypoid tumour beiow the anterior extremitics of the vocal corls.
Mistory.-lle has had gool health until cightcen months ago, when he lost his roice and was treated for laryngeal catarrh. He recorered his voice until October, 1887, when he lost it again. IIe cume to sec Mr. Iensman as an out-patient, who has kindly furmished the following account of his case at that time: "W. A . was first seen by ne in the out-patient department of the hospital en October 4th, 188\%. Patient was a strong, healthy man, though
looking somewhat old for his years. Had for more than twelve months past complained of huskiness and weakness of voice. Latterly he had been obliged to relinquish his duties on this account. Previous to this, however, he had experienced several attacks of 'sore throat,' which had passed away without affecting his voice. He was able to swallow and breathe without difficulty. and had at no time suffered from laryngeal pain. On examining his throat it was clear he was at this time suffering from an attack of catarrhal nharyngitis extending into the larynx. Patient was ordered an inhalation and a throat paint, and was advised in come the following week with a view to a more complete examination of the laryin. On examining the fauces on the following Tuesday (Octoher IIth) the catarrhal attack had subsided. but the roice remained as before, thick and lusky. The larynx was apparently healthy, and the rocal cords moved frecly and looked quite normal. On placing the mirror far back in order to bring into view the anterior portions of the cords-previousls hidden by the epiglottis-a reddish, smooth growth about the size of a pea was observed below and apparently midway hetween them. In phonation this was observed to be freely movable, a portion of the growth appearing momentarily above the cords. but slipping below them during inspiration, and remaining there during ordinary breathing. The patient subsequently came into the hospital, and remained some weeks under treatment. With the aid of a IO per cent. solution of cocaine brushed over the parts and the intelligent co-operation of the patient, in spite of a very low isthmus of the fauces, every chanze was afforded of dealing by intra-laryngeal methods with the growth. I was, however, unable to remove it or reduce it materially by crushing. The upper portion of the growtll was seized and crushed on several occasions, and at one time the roice materially improved. Mackenzie's forceps were used (those with the antero-posterior blades being most easily managed), also Schrötter's forceps (very much curred in order to pass round the pendant epiglottis). As it became evident that a further operation was desirable the patient, aifter a considerable interval, during whish he was under obserration as an out-patient, decided to come into the hospital under Mr. Morris to have the growth removed through an external incision."

On Admission.-Patient is a healthr-looking, Well-nourisherl man, complaining of great hoarseness and occasional attacks of difficulty of breathing. On laryngoscopic examination there is seen a small pinkish-white pedunculated growth below the vocal cords at their anterior extremity.

Operation, January 25th, 1888.-Chloroform being administered, 31 r . Morris made a vertical incision over the centre of the crico-thyroid membrane and cricoid cartilage, about an inch and a half in length. Several transverse and oblique veins had to be divided, and the isthmus of the thyroid body was found much eularged. The bleeding being controlled, a rertical incision was made through the crico-thyroid membrane and cricoid cartilace and membrane above the first tracheal ring. The edges were held apart by blunt hooks. A good deal of mucus was expelled by conghing; and then, by the aid of an electric light, a small pedunculated polypus, about the size of a large pea, was very plainly hrought into view immediately below the anterior extremity of the rocal cords, a little to the right of the median line. A fine wire smare was passed around it, and, on being tightened up, it brought the tumour nTray casily. Th** spot at which the pedicle was attached was touched with the fine point of a I'aquelin's cautery. The edges of the wound in the air-tube were brought together by five catgut sutures, passed so as not to perforate the mucous membrane. Two were inserted in the crico-thyroid membrane, two in the cricoid cartilage, and one in the membrane below the cartilase. The upper half of the skin incision was secured with two silk sutures, but the remainder was left open. The wound was dressen! with carbolised gauze.

Growth remoced from the laryme was examined microscopically by Mr. Ilndson, who reported as follows: "This growth iz in simple papilloma. It is of roughly spherical shape, and consists of a central portion, from the surface of which spring numerons papillary processes. The central portion is composed of firn tibrous tissue, with numerous muclei of irregnlar shape. It contains some dilated blood-ressels, and towards the free convex outer part a leposit of pigment has taken place from these. The epithelium covering it is of the stratified squamous variety, and arranged in a thin layer like that on the normal true cord: the papilliform projections have for the most part broad bases, ant is?

Another advantage of primary elosure of the wound in the trachea or lacynx-is the impossibility of stricture or narrowing following; union of the wound whieh occurs when sutures ar" used is immediate and not followed by contrnetion.

In cases of cut throat I think we shall often do well to eroplny sutures on the nir-pasage, and close the externul wound also using drain-tubes if they are indicated. In the only ease of cul throat under my care this year the air-tube was not opened, anc the superticial wound after being sutured healed by first intention But at the first opportunity in a case where the larynx or trache is opened, I intend to put this practice to the test of experience If the edges of the divided air tube be accurately sutured, emplay sema would not oceur, and there would be no danger of the pas sage of discharges from the surrounding tissues into the lungs liut throat wounds, being usually clean inciscd wounds, ough to heal by immediate union.

## KING'S COLLEGE IIOSPITAL.

OUNBHOT INJURY OF RIGHT KNEE-JOINT: RECOVERY WITI Faid MOVEMENT. (Under the care of Mr. William, Rosm.)'
[Notes by Mr. G. L. Cheatie, llon'sé-Surgeon.]
C. C., aged 31, a coachman, has always enjoyed good healtb, an been moderate in tle use of stimulants. He was out shooting November $16 \mathrm{th}, 1887$, near Caterbam, and about 5 p.M. he wi holding his gun in his right hand by the muzzle, and ramming ti butt end down a rabbit hole. It was an old fushioned muzz. loader. He states that the hammer was at balf cock, the gu Went off, and the charge passed through the outer side of his rigl
knee. He did not suffer much pain at the time, and managed knee. He did not suffer much pain at the time, and managed walk a dist by Dr. Eady, who wrapped up the limb in a towel a plied a temporary back splint, and sent him up by train to King College Hospital.

Condition on $A d m i s s i o n$. -There had heen profnse hemorrha on the journey up, the dressings being completely saturated. T patient was seen by Mr. Rose at 10 P.M., taken into the operatit theatre and placed, under an annesthetie. There 3 whe outher aspect of the knee measuring $3 \frac{1}{2}$ inches tro before backwards, by $2 \frac{2}{2}$ inches wide. The tissues and slin arom were blackened by gimpoweler. On examination with the fingy the outer third of the patella was found to be shot away, learit a rangh and comminuted surface, and the upper and onter porti of the external condyle of the femur had a portion of the cartila carried away, and tho eancellous tissue oxposed about the size
 wrere intact.
A careful examination of the interior of the joint failed to tect the presence of any foreign substance therein, neither si nor portions of wad; and, from the direction of the fire, there $\overline{\text { w }}$ every probability that the main portion of the joint had escape
Mr. Rose proceeded the

Mr. Rose proceeded to clip away the ragged and blackened sues, and smoothed off the irregular surfaces of the patella
external condyle. The whole cavity of the joint ${ }^{\text {as }}$ well as wound, was next washed out by means of a Jliggiason's syrin with a solution of carbolic acid ( 1 in 20) and corrosire sublim ( I in 500), and one or two articular branehes were secured. washing was most thoroughly carried out for upwards of half hour, as there was still some oozing. The opening in the
erurul pouch was extended downwards to insure complete dra age from the cavity of the joint, which otherwise wonld have a tendency to pocket. A medium-sized drainage tube was serted into the pouch, the wound dressed with lodoform salicylie wool, and the limb placed on an ordinary back sple In consequence of oozing, the dressings had to be changed fir times in the first twenty-four hours. Temperature $99^{\circ}$ : pulse
On the 18 th the temperature rose to $101.2^{\circ}$, and the pulse 132; face fushed; tongue white fur. He complained of throlit pain in the knce, but, on examining the wound, it lookel and there was no effusion or tenderness of joints

The drainage tube was removed on the third day, and the li plaeed on a carefully-padded Gooch. splint, with a side flap opposite the wound, so that the dressings could be changed wi out disturbing the rest of the limb.

On the following day the knee felt hot and painful, and th was some redness and swelling, for which an ice-boc. was appl
is suggusteal by the sense of dragging and effort expuriconced at tha woind during gwallowing.
their centre is a prolongation of the fibromatous structure from the central yart of the growth. The epithelium both of the ceutral part and of the papillo everywhere preserves a regular lime, alld does not transgress the hasement membrane."
dfter the operation nothing escaped throngh the wound in the vearynx, the closure of which was quite perfect. danuary - 7 th. l'atient says he feels " as if lae had a tery large Imwind Ie has a little pain on swallowing, and the fowces hare cangested. Urdered inhalations of steam and a spray of a sanition of chlorate of potash. Liquid diet.

Innuary 2sth. Better: got up for an hour.
dinuary 3]st. There is a good ring in his voice today. Much las hoarseness and soreness of throat. Wound looking well. - Traperature $98^{\circ}$.

If Hebruary 2nd. Silk' sutures in external wound removed. Honnt healed at the upper balf, but not at the lower.
Hficuary 14th. Laryngoscopie examination by Mr, llensman. conglottis is quite normal, vocal cords are still very slightly
con action is perfect. The voice is stronger and ente ctenr. Nothing can be seen below the vocal cords except a gested appearance. There is still a feeling of effort when swallowing saliva." The external wound presented exuberant granulations, which were rubbed down with nitrate of silver.
February 2lst. Mr. Mensmnn again examined patient, and requrted "the whole larynx appears normal; the vocal cords are an of their normal eolour, and act perfectly in phonation. There rent growth gestion below tho vocal cords, and no sign of any recursome difficulty in the higher notes."
rebruary 2sth. The voeal cords now act perfectly; the voice is stronger. Patient is able to resume his duties as a teacher.

March 23ral. Seen to-day. There has remained a minute graumlation mass in the middle of the sear from which a slort piece of twisted silk was presenting. It was the deep part of the silk suture the knot of which only had been cut off and removed on Hehruary 2nd. The wound closed immediately after this,

Jhwanks by Mr. Henry Morris.--These two cases, which liappened to come under my care about the same time, are repirsed together because they afford some evidence as to the value of stitching up the opening in the air-passage when made for it hrief temporary purpose. In Case I the erico-thyroid membrane was divided transversely as usual in such operations, and it. was found impossible to close the wound by sutures. This was huc, partly to the very small external wound not allowing the evgen of the divided membrane to be seized, partly to the narrowness of the crico-thyroid membrane, and partly to the comtrawal of the edges of the divided membrane, by the with was left unstitcherl sponge-covered cannnla. Tlougli the wound le'p structures were completely united in a week.

In Case II the incision of the air-tube was much larger and in a vertical direction through the crico-thyroid membrane, cricoid cartilage, and the meml rane between the ericoid and the first ring of the trachea. This wound was completely and accurubely closed by sutures, and its healing was by inmediate union. The portion of the external wound which whs sutured anited immediately. and there is no doubt the whole of the wound Would lave as readily healed had sutures been inserted in the lowor half also. Still, eren then healing would not have beea nooce rapirl than in Case $I_{\text {. (The protracted gramulation growth ia }}$ the auperficial wound may be ignored in a comparison of the two cosen, as it was elearly due to the fragment, of silk auture naed for the external wound, and lad no reference to the catgut sutures employed on the larynt.)

Allowing for the difference in length and direction of the wound in the air-passage of these two cases, wo may at least draw this conclusion: that a simple incision in the crico-thyroid mombrane, noch as is made for convenience and affety in operations on the tongue and mouth can close at once without sutures. It is masp protable, however, that a vertical wound will close more rapidly and perfectly by being sutured, and that if sutures are also introxtuced into the superficial qoft structures, the patient will be fuicker well than when the tracheal and external wounds are left to granulate. In the vertical alivision of the cricoid cartilage it would seem that sutures prevent the lnteral gaping caused by the inferior constrictor muscles. That this was so in my patient
outside the dressings. These symptoms quickly disappeared, and therafter-progress, of the case was most satisfactory. After a , small.superficial slough of fibrous tissue had separated, the wound -olowly granulated over, cicatrisation being assisted ly occasional -skin-grafts. Therpatient left the hospital on February 9th, with a parp-plastic splint fitted to the knee, so as to limit the movements. of the joimt, which then admitted of slight flexion. The ladherion of the cicatrix to the external condyle rendered it necessarry to control the movements of the joint for the present, to prev, thi the possibility of the wound being torn open.
Nin -The patient was shown to the Fellows of the Medical society of London on March 26 th.

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## REPORTS OF SOCIETIES, <br> <br> Tiq\% REPORTS OF SOCIETIES,

 <br> PATHOLOGICAL SOCIETY OF LONDON. Túesdat, April $17 \mathrm{th}, 1888$.}

Sir Jínes Paget, Bart., F.R.C.S., F.R.S., President, in the Chair. "Pedunculated Body in Knee-joint.-Mr. Shatrace showed a specimen of a rare form of foreign body removed from the kneejoint. The lower and other structures were quite healthy except for some fibrous metaplasia. Projecting into the joint on the right side, and immediately below the patella, was a discoidal body 4 centimètres in its transrerse diameter, 3.2 centimètres in a yertical direction, and 7 centimètres thick. It was invested by a thin capsule of connective tissue continued into the falciform synovial fold on, the right side, which fold was lost on the adjacent borders of the patella in the general synovial membrane. It rested on the posterior surface of the bone, and its upper border iras. adapted to the lower margin of the articular surface. At first sight it looked. like an orergrowth of fat such as often eccurred in the alar, ligarnents. There was an example of such a lipoma in the museum of St. Bartholomew's Hospital. Mr. BarWell had had a case of inter-articular lipoma on each side of the patella. Further inspection of the hody showed blotches of ornpge red, charaoteristic of extravasation. It was of compact feel and consistency. Histological examination showed, a faintly stained structure, with collections of reddish broma granular pigment in trabecule, rariously, arranged. The size of the coagulum placed it beyond the pale of organisation. It, was evidently due to an old hxmatocele into the alar ligament from contusion or other injury. He mentioned that one form of foreign body was constituted by unorganised substances, suoh as the ordinary melon-seed bodies. These consisted sometimes of blood; in part, as in a specimen in the University College Museum. The best collection, numbering fiftecn, was in the museum of. St. Thomas's Hospital. They were laminated in structure, and of a reddish-brown colour. A distinct nucleus was found in these bodies, easily. distinguishable on account of its white colour. These laminated bqdies might become calcified, and then resembled phleboliths.-Mr. Bowlby alluded to a specimen in St. Bartholomew's IIospital Museum of a hematocele which formed a lose body and was remored from the kaee of a strong healthy man who had wrenched his knee. The injury was followed by an sttack of acute synoritis, which left a chronic synovitis. Three months afterwards the patient, a surgeon, detected a loose body in the joint, and. this was removed by direct-incision. It was found to be attached by a small pedicle to the synorial membrane. After reporal it was scen to consist of a torn portion of syborial membrane, and between its two surfaces there was a considerable extraysasation of hlood. Ie then showed another speimen from oue of Mr. Morrant Baker's cases, of a loose body starting from a torn fringe of synovial membrane. There was a history of injury to the knee a considerable time prior to the admissiou of the patient. He had the usual symptoms. It was removed, and consisted of a torn portion of synovial membrane
thickened by inflacumatory effusion. Another specimen shored suppuration of portions of semilumar cartilages removed a few days before. The paitient, an athlete, after a football match found his kuees swollen and painful, and was umable to play for a time. Subsequently, while phaying cricket, one of his knees gare way with a crumching, sensation, which disabled him. He recovered fram this, but aiterwards hins left knee gave way in the sume body in the left knee. It turned out to bo a torn pertion of the internal semilunar cartilage, which was torn about balf-rray from
its posterior attachment. Lle had also brought down two other specimens, one of which was shown by their P'resident to illustrate his Bradshawe lectures on certain rare diseases. The interest in that case was the numher of the loose bodies (415) remored from the knee-joint of a man who, six years before admission, had suffered from chronic swelling and pain. He had had three attacks of rheumatic ferer. The synovial membrane was rough and rascular, and the joint was packed full of these bodies, only four or five of which bad pedicles. The other specimen, which he had already shown to Professor Ilumphry, was interesting in connection with the possibility of separation in connection with damage to the cartilages of the knee. The patient was a lad, aged 18, with no history of any injury to either knee. On admission a loose body was found in the left knee, and incision revealed a small detached portion of cartilage from the surface of the femur. He made a good recovery. A year later he returned with a similar body in the other knee, identical in its nature with the other.Mir. Lediard sent a dislocated and loose semilunar cartilage- - Mir. Rickman Gonlee mentioned that he once had the opportunity of removing a very peculiar body from the knee-joint, diagnosed as a loose cartilage, which turned out to be a broadly pedunculated mass, growing from the internal ligament.- Mr. CLuTtox said that in his case the cartilage did not suggest that it was articular cartilage. The interest lay in the fact that the specimen was symmetrical. In 1885 he removed a body from one knee-joint in a boy, and two years afterwards he had remored another from the other joint.-Professor Humphry said that Mr. Shattoch's and Mr. Bowlioys specimens were singularly interesting. The specimens, also, of detached, or partialiy detached, inter-articular cartilages were not quite new; a similar case was reported in the S.S. George's Hospital Reports. They were generally more or letz attached. The specimens showing the large detached portions, loose in the joint. like articular cartilage on one side, and fibrous tissue on the other, had caused him to ponder a good deal, and be had been unable to gire any satisfactory explanation of the manner in which they were formed. He discussed the possibility of quiet necrosis of the cartilages leading to separation, and added that the presence of calcareous matter was a dificulty in connection therewith. IIe said that up to the present time no instances had been adduced of a portion of bone or cartilage being chipped off and forming a loose body in the joint, except the case reported by Mr. Simon, in which, three weeks after a wrench which gave rise to no immediate symptomis of consequence, Mr. Simon had removed what appeared to be a piece of cartilage and bone. considered to have been detached from one of the articular surfaces. It was very difficult to understand how that could be. They must bear in mind that these loose bodies might lie for years snugly hidden in the joint, causing absorption of the bone with which they were in contact, and then in some sudden strain they became detached, and gave rise for the first time to the symptoms of a loose body. That was certainly a very frequent condition. -Mr. Howarn Marsh said that the only criticism he was disposed to make on Professor Humphry's letter was, that he assumed that there was an adequate explanation, and therefore that there was no necessity to go further in search of one. They ought not, however, to prejudge the case, but form an opinion from the eridence. Ile thought that Professor Ilumphry was still unconrinced that a piece of articular cartilage could be chipped off, but he could only refer him to the specimens of Mr. Simon. There was the authority of Mr. Shattock for saying that. however it was produced, there it was. They also bad the statement of Mr. Simon of its presence in the joint three weeks after the injury. He was quite conrinced of the fact, and did not presume to offer any explanation. Professor Humphry, moreover, eridently did not belieye in quiet necrosis, though of this there wtre at least two specimens. It was perhaps a rare process, but certainly did take place. Me thought of all the structure* articular cartilage would be the most likely site of quiet necrosis. Ile referred to the cases of Cline and Teale (of Leeds). The second one he had illustrated in the JocrNal of April 1fth; he alluded to the fact that this drawing in the Medico-Chimurgical Transactions had been mieplaced, and probably overlooked. The history in that case was almost the prophecy of what their President had described as quiet necrosis. A brewer's drayman had an injury, and a year later a loose body was found in his knee-joint. The man died. and on being enabled to compare this loose cartilage with the hole in the femur, they exactly corresponded. Clines [case was inter-
inflammatory changes being intense in the phreuic, pneumogastric and popliteal nerves; there were inflammatory changes also in the muscles supplifed by those nerves.-Dr. Ormeron observed that, as a rule, alcoholic neuritis got well when the cause, was remored, but some eases did suceumb quite suddenly. Ie mentioned a case which bore on the subject of sudden death through the pneumogastric from the post-mortem room at St. Bartholonew's. It was the case of a child under Dr. Andrew, who had just recovered from diphtheria, and was apparently well. Being a weakly child she developed abscesses in the neck, but she was going on well when suddenly she died, and at the post-mortem examination it was found, on dissecting up the pmeumogastric nerre on one side, that it was involved in the eapsule of an abers.. when presed upon and flattened it. Nothing else was found to aecount for the sudden death.

Tumour in Xeck, invading Jugular. Feins--Dr. G. Griffitios showed a specimen ohtained from a man who was admitted on befober 23 ni, 1886 , and died in January, 1887 . Three months the posterior border of the left sterno-mastoid muscle. It grew gradually downwards in the neek. On admission, there was nothing particular to observe, except that he had certain lung symptoms, with intensely fotid expectoration, pointing to gangrene of the lungs. Post mortem the growth was found to have mooved the upper third of the sterno-mastoid muscle, extending which, and the internal jugular vein, it followed towards the root
whe of the neck; thence it extended into the right side of the root and into the right ventricle. There was a small, shrunken-like growth, free in the interior of the ventricle, consisting apparently of small masses of fibrin. A similar growth extended along the pulmonary arteries into both lungs, passing along the lumen of the vessels, and giving rise to coagnlation of blood. There was large cancerous cavity in the right lung. Nothing was found in
the superior vena cara, nor in the right auricle. Nieroscopically the growth consisted of fibrous tissue, which did not admit of being classed, in various stages of degeneration. Ile mentioned that a similar case had been reported by Sir James Paget.-Mir Rowlby suggested that the growth slould be referred to the Morbid Growths Committee.

Cases illustrating the Pathology of Gangrene from Embolism ana Arterial Thrombosis.-Mr. BowLbi brought before the Society a series of specimens illustrating the pathology of gangrene from emholism and arterial thrombosis.. The first was a gangrenou. hand from a manl, aged 63, who was admitted in $188 \pm$. He hac always been healthy until just before admission, when he hac symptoms of heart disease. A fortnight before, while cleaning his hoots, he was seized with pain in the thumb, Which became numb and cold, and this condition shortly afterwards extended t the fingers. There was evidence of advanced heart disease. Th thumb was black and shrivelled, and the fingers blue and eold. Ther was no pulsation in radial or brachial arteries.' The gangrene slowl spread, and he died a few days later. Post morten the heart wa found enlarged and fatty. The mitral orifiee very muel dilated arteries atheromatous. The brachial artery was normal as far a the bend of the elbow, where it was blocked. The specime showed exceedingly well a multiple embolism. The second cas was that of an old and feeble man, admitted on November 7 th Hed a history of henderness in the left leg. He had rheumatic and n 0 pulsation could be felt in the arteries of the left leg, not eve in the femoral artery. This slowly cleared up. On December $12 t$ the patient was suddenly seized with pain in the right leg belor the knec. The limb became cold, and pulsation eeased in the righ days later le had right hemiplegia, soon after which he and in showed the plugging of the arteries of the brain, and the righ fumoral was blocked; the left fomoral, the first to be affected, wa clear. Another case was that of a man who had rhey matic fever forty years previously. There tras evilence of hear disense On December 9 th, 1880 , he was suddenly seized wam
cramp-like pain in the left groin, and the left leg becam cold. Gangrenous patches showd themselves on the outcr sid of the thigh. On December 13th the leg and foot becam gangrenous, and the patient died. The heart was found to $b$ extremety discascd, and the right femoral artery was hlocked by a
embolus. The fourth case was n woman aged 37 , who was sud denly seized with pain in the left groin, followed by coldness an numbness of tlie foo, and ultimately by gangrene. There was r
cular chances throuchout the whole central ncerols system,
incinting fhe motor convolutions and spinal cord, though the chages were trivial exeept in the lumbar frlargement. The

esting in several winss, partly as showing the kind of injury that was necessary to set it going. A young man, aged 36 , in perfect loang on the ground. The injury was followed by some inflammation of the joint, and ten months afterwards a loose body was found. Cline remored this, and, unfortunately, the patient got pyomia and died. A vacuity was found in the surface of the femur, into which the loose body aceurately fitted. In reference to Professor llumphry's suggestion, Cline speeially mentioned that the vacuity in the femur could not be accounted for on any such luypothesis, because the body fitted so aecurately into the vacuity, and the surface of the tibia which faced the cavity, although a little degenerated, was not in any way worn. That case was very thought Mr. of their President's cases in a boy at necrosis.-Sir Janes Paget said the eredit of the suggestion of quict necrosis as applied to articular cartilages belonged to Mr. Teale and not to himself. Ile thought the specimens accumulated showed that they were right in thinking that it was possible that a piece of cartilage might be so clamaged by injury as to undergo slow necrosis and scparate. SIe was glad the subject had come up or more likely to cause evidence to be fortheoming. IIe referred to a point which he thought ras generally accepted in relation to cartilage or bone. Had time allowed he would have strain in paper to show what he called periostitis from strain. IIe said that many of tbe consequences of a strain or jolt were attributable to the periosteum, which became inflamed. There were two or three eascs in which the strain upon the muscles had been followed by well marked necrosis at their attachments. He mentioned the case of a young lady who took violent exercise with her arms in a gymanstic institution. Some more than usually violent feats were followed by neerosis of the accomion attachment of the deltoid without any other sign of inflammation of the adjacent parts or shoulder. ile had seen several cases of this kind.-Professor llumpunr explained that he had not intended to express a doubt as to the possibility of the oceurrence of necrosis.-Mr. Shatrock, in reply, said that certain loose bodies simulated very closely detached pieces of eartilage.--Sir structure in the section whether there was any definite cbange or articular cartilage.-Mr. SHattock replied that he had not observed.

Alcoholic Paralysis of Phrenic, Pneumogastric, and other Verves. - Mr. Shankey showed some microscopic sections from the case of a woman who was admitted on August 29 th, and died on for what her husband ealled "liver complaint with yellow ferore" She had been a hard drinker, principally of whisky and beer; had suffered from diarrhcea and hromoptysis (one attack). She had becn losing flesh and strength, and was very weak in her legs. She had also complained of numbness and cramp in her legs. On admission she could undcrstand well enough what was said to her, but was incoherent in her replics. Respiratory sounds harsh, but no evidence of pulmonary disease. Liver enlarged and hard. No albumen in urine. Legs wasted, especially in front of tihire. She could ncitler walk nor stand. The legs were tender both superficially and on deep pressure. Temperature normal. Tremors of the tongue and lips. A fer days later she had a rigor; her temperature went up to $102.5^{\circ} \mathrm{F}$. On September 13th she had $t$ wo severe attacks of dyspnoea, and it was then noticet for the first time that the diaphragm was completely paralysed. Tinere Was a difficulty in swallowing. Respirations 40 to the minute. On the morning of the 15 th she hegan to spit blood. The average pulse-rate 143. On Septrmber 23 rd the apiees of the lungs showed signs of breaking down, and on the 25th she died in a sudden access of dyspnaa. Pust mortem the diaphragm was found on a level with the fourth rib; slight hemorrlage beneath pericardium over right ventricle. Tuberculosis of apices, Liver hard and firm, in early stage of eirrhosis, Kidneys normal. Spinal and rereliral membranes healthy: brain normal throughont. which semped to be pathologienl and not a post-mortem change. The microscope revealed slight general inflammatory vascular chaneres thronghont the whole central nervons systen,
evidence of heart disease. These were specimens of embolic gangrene. It was rare to sre sueh large ressels blocked by emboli. An embohs generally blocked the artery at a bifureation, thus occhuding two vessels; and secondary emboli were common, in all the cases except one the heart was diseased. He then showed two cases of gangrene from arterial thrombosis, though one of the cases was complicated by embolism. A woman aged 56, admitted in 1885. She was seized, while walking, with pain and numbness in the left leg. She had heart disease, and sank and died. The aorta was completely filled with a large clot, and, on washing this away, a raw pateli was found, on which the blood had clotted to the extent of complete ocelusion. Plugs were also carried into the arteries of both lower extremities. The otleer specimen was the hand of a comparatively young woman. Her general health had been fairly good. In December, 1883, she "caught cold," and never recovered from it. Weakness was the prominent symptom. Her legs, feet, and hands were liable to become cold, blue, and swollen, all together. In the first week of February the left hand became more numb, and gangrene set in. No pulsation in the vessels of that arm, which was the seat of a burning pain. The patient gradually became weaker, and the circulation almost impereeptible. She becime comatose and died. The heart was found quite normal; in fact, no disease was found anywhere except in the left npper extremity, the arteries of which were completely and evenly hlled with clot. This case was unique. It was difficult to assigu any definite canse for the thrombosis, yet the history pointed rather to a general than a local cause.

Card Specimens.-Mr. Bowlby : An musual Form of Loose Body from the Knee-Joint.-Dr. Lediard: Enlarged Bursa Patelle with Outgrowths from Walls.-Mr. Dalton: Gummata in Liver of Infant.-Mr. Turgett : Bony Tumours of Buttock.-Mr. Percy KIDD: (1) Mitral Stenosis with Pulmonary Phthisis; (2) Tubereulosis of Bladder and Urethra.-Mr. Cuutron : Symmetrical Loose Bodies from Knee-Joint.

## CLINICAL SOCIETY OF LONDON. <br> Fridat, April 13th, 1888.

W. II. Diceinson, M.U., F.R.C.P., Vice-President, in "the Chair.

A C'ase of Acromegaly.-Mr. Rickman J. Godlee described the case. The patient, a lady, aged 41, had applied to him on account of a great eulargement of the thyroid body, of about nine years' duration, in which a cyst formed which caused neuralgia by pressure on branches of the cervical plexus; this eyst Mr. Godlee opened and drainel, with relief of the symptoms. The patient, who had previously been of a slight figure, and the possessor of a good roice, first noticed the disappearance of her high notes, then the swelling of the neck, and then the sudden stopping of the menses at the age of 36 . Since that time there had occurred a gradual increase of the thyroid, accompanied by enlargement of tbe hones of the face and limbs, and especially of the lower jaw and of the hands and feet. The patient came of a gouty and rhenratic family, and had been the subject of rheumatism before the illness developed itself, but not afterwards. The present state Was then described. Bones: The lower jaw was mueh enlarged, so that the teeth, which spread out, could not adapt themselves to those of tho upper jaw. The head lines were little if at all affected, so that the face had the shape of an egg with the large end dawnwards, thus differing much from that of osteitis deformans. The claricies and ends of the ribs were massive, so that the sternum seemed sunk in a hollow. The bones of the limbs were not generally thickened, but all the natural prominences were mueh exaggerated, and the suall bones of the hands aud feet much enlarged, so that the extremities had become broad and spadelike. Spine: There was marked kyphosis, suggesting caries, and cunsing cousiderable dimimution of height. The cartilages of the ears, and probably of the nose and larynx, were thick and stiff. The skin was coarse, and with large sebaceous glands in the face, but was natural elsewhere. The subentancous cellular tissue was normal, but deficient in amount owing to emaciation. Perspirution was profuse, the skin laving been previously not abnormally moist. The muscles were intuch wasted. Senses: llearing was normal. Smell was much inpaired, especially for delicate odours. Tasting was also much impaired, especially for delicate flavours; the tongue was very thick and large. Vision remained good. Touch was normal, the patient being still able to play the organ as well as ever. The roice was harsh, metallic, and monotonous. liespiration: There was some dyspnoa, partly due, no doubt, to the
thyroid enlargement. The general condition was one of marked and increasing weakness; she "shuffles about like an olu wroman." The appetite was poor, but thirst excessive. Pulse rajid. Temperature normal. The urine contained no albumen or sugar. Ifer intelligence was perfect, and disposition placid. Mr. Godlee then referred to: 1. The connection between this remarkable condition of the bones and the abnormal state of the thyroil noted in most eases, comparing it with eases of serons malignant tumours of the thyroid, which had a tendency to recur in bones. -. The relation between the abnormal state of the thyroid and the parly stoppage of the catamenia, also apparently a common symptom o? the disease. 3. The resemblances and differenees between acromegaly and osteitis deformans. 4. The superficial resemblance but wide difference between acromegaly and myxalema.

A Case of Acromegaly--Dr. Hadden and Mr. Ballance brought forward another ease. The first observations respecting it hal been published in the Cilinical Society's Transactions three years previously (rol. xviii). Fifteen months later the attention of the authors was again drawn to the subject by a paragraph in the Lancet, headed "Acromégalie," and uuder this head it was found. that Marie had deseribed a condition which tallied with the authors case (Revue de Mfedecine, April, 18*i). Dr. Madden's patient was a woman aged 37 , and the disease dated five years back, when she had rheumatic swelling of the knees, following probable scarlet fever. But previous to this she had suffered from a tingling sensation in the liands, and the catamenia had ceased and nerer reappeared. The face became enlarged, the nose broadened from hypertrophy of the nasal cartilages, the cheek-bones pruminent, the lower jaw equare, massive, and protruding, the lower lip thick and ererted. There was some fulness beneath the eyes, but no pallor or translucency, and no circumscribed redness over the cheeks. The eranium was not affeeted. The thyroid gland was distinctly atrophied. There was no indication of enlarged thymus, as shown by dulness over the manubrium. The claricles were hypertrophied. The hands and feet were enlarged, but not deformed. The enlargement was general, but the subeutaneous fatty tissue was disproportionately thickened. The skin of the extremities, as elsewhere, was in every respect natural. Previously she used to wear 7 gloves, now the circumference of the hand was $9 \frac{1}{3}$ inches. The feet were even more enlarged in proportion than the hands. At one time slie wore large 4 boots, now she took large $8^{\prime}$ s. There was no loss of muscular power, and the woman could use her hands as well as ever she did. The forearm and legs were not hypertrophied. The arm was natural. The speech was guttural, not slow. The tongue was hypertrophied. The viscera were natural, and there was no albumen in the urine. The arteries of the extremities were apparently natural. There was complete blindness of the right eye, due to optic nerve atrophy, probably following neuritis. Sensation was yood, the muscular power unimpaired, and the museles not wasted, the intellectual processes were good; there was no excessive perspiration, no undue thirst, and no curring of the spine. The authors then gave an account of the literature of the affection, and among other cases quoted one ly Dr. Wilks, mentioned in Fagge's Medicme. It would appear that rheumatism was a possible canse, and in four cases at least the eatamenia were suppressed at the onset of the disease. Both the sexes might he affected. The disease received its name from the charaeteristic enlargement of the hands and feet, but the bones of the face become hypertrophied, as also the cartilages of the nose, ears, and eyelids. The long bones, unlike in osteitis deformans, usually remained unaffected. Blindness had been noted in three or four cases, and the authors mentioned that this might depend on lypertrophy of the pituitary body exerting pressure on the optic chinsma and tract:. Enlargement of this body bad been found in two or three fatal cases. The thyroid gland also always scemed to be abuormal. Attention was called to the chief points of difference between acromegaly and myxadema and osteitis deformans. The differences in the shape of the face were rery obvions. In addition there were many important features absolutely characteristic of acromegaly:Dr. Hirks congratulated Dr. Hadden on having so well parsued the investigation of this remarkable malady that now, after four years. he was able to bring the case again before the Society. No doubt many instances of the disease hal been observed befors Marie had christened it; not only was there Dr. Hialien's own case, but the one he had alluded to as deseribed in Fugge's work on Medicine. Dr. Wilks said this was the case of a young lady, aged 2n, who visited him for the first time on February 9 th, 1869. She had been a tolerably good-looking girl, but lier face had be-
come now frightfully distorted. She had been ailing six years with nuenorrhea, pain in the face and baek of head, and gradual loss of sight. Her appearance was so disfigured that people would stop in the street to look at her; her ears, nose, and lips having become enormously enlarged, aud the whole face eloncated. Her hands and feet also had become gigantie, so that she could with dificulty get gloves to fit her. Dr. Wilks saw her several times during the following year, and preseribed arsenie. The pains in the head became less, and she expressed herself as altogether better. She then went into the country, and died shortly afterwards in a state of coma. He believed she had an intracranial tunour. Dr. Wilks said he thought we were right in giving this disease a distinct appellation, as it certainly differed from myxoedema, osteitis deformans, and other maladies to which it had been compared. He remarked that these cases of overcrowth were of very great interest, as they were quite removed from ordinary examples of disease, which depended upon morbid changes in the structures and organs of the body. They lhad rather a plysiological than a pathological bearing, and by their very exceptional occurrence emphasised the great fact so well enforced by l'aget, of the necessary exact relation of the different organs of the body for the due fulfilment of the natural functions. These overgrowths showed that from some unexplained eause this relationship might be broken up, so that the bony skeleton might grow enormously, or the fat of the body increase until the patient became of preposterous size, or the lymphatic gland tissue develop to an extraordinary extent, or as in the present instance a sudden sprouting of the extremities take place. In a very interesting case described about a year ago in the Berliner Klinische Wochenschrift, the patient, a musician, was obliged to give up a wind instrument, as well as his riolin, owing to the enlargement of his hands and lips; he also had headache, and had partially lost his vision. IIis thyroid also was diminished in size. The writer alluded to other cases, and said that where an opportanity oceurred of a post-mortem examination, the pitnitary body was found much enlarged by new growth. Dr. Wilks said he could quite beliere that his patient might have had a tumour of this kind. Virehow had remarked on the resemblance between the thyroid and the pituitary body, and Sir W. Gull, many years ago, had been struek with the similarity of structure between the pituitary body and the suprarenal capsules, and had asked Dr. Wilks to look at these organs in all cases of Addison's disease. He had done so, but never found them affected. It was very interesting, however, to remark on the possibility of "acromegaly" being associated with the pituitary body, since it had a structural resemblance to the alrenals and the thyroid, both of which organs were admitted to have a marked influence on nutrition.Mr. Godnee, in reply, said that in three cases of acromegaly he had found, post nortem, some enlargement of the pituitary body. In one case it was as large as a walnut. Erb's paper collceted eleven cases of the disease, which, with the two now reported, brought the number up to thirteen. They had occurred between the ages of 15 and 50 . The cases recorded by him were very interesting. The first case was in a wontan, aged 58. The disease came on at the menopause. This patient suffered from migraine, a not nncommon symptom in this disease. In her case the disease progressed for three yeara, and then remained stationary for six. The loss of vision in several cases seemed to have been due to opacity of the cornea. Friedreich had described two cases. With regard to the temperature, it was normal in his own case, except just subsequently to the removal of the thyroid borly. The long bones were distinetly affected. In aeveral cases the marked enlargement of the lower jaw was absent. In connection with the nails, Erl had pointed out that in his eases they were much affected, as in other recorded cases.-Dr. IIAdDen, in reply, mentioned that Dr. Ord liad examined his patient, and had said distinetly that it was not a case of myxcedema, the disease with which it was most Jikely to be confounded.

Acute Periosteal Sivellings in sereral Young Infants of the same Family, probithly Rickety in Nature-Dr. S. Wess read this paper. A child, aged five weeks, was brought by its mother, with the statement that its left arm had "dropped." A swelling, apparently periosteal, occupied the middle third of the shaft of the left humerus. It was exquisitely painful and tender. The movements of the arm were perfect, but the child kept the arm still on account of the pain whieh movement cavsed. Similar swellinga were found on the right humerus and on the left femur. There were some slight bosses on the rihs, but no other signs of rickets, and the' child was well developed
and well nourished, and except for the pain of the swellings scemed in good health. The treatment consiated in the adminis-
trat tration of some cod-liver oil and a little iodide of potassium, and the mother's milk was supplemented with corr's milk. In a fortnight the pain had almost gone, and the awellings were smaller. In the course of three months they were hardly to be made out, and they ultimately entirely disappeared, leaving the bones straight. The patient was the fifth cliild, born at the eighth month, and fed upon the breast only. The firat swelling came on the ninth day, the fecond in the fourth week, and the last two days before it came under observation. Of the other children the eldest was similarly affected at the age of a week. The child, now a lad aged 9 years, was seen, and showed no traces of the old bone affection. The second, a boy aged 7, was never so affected. The third, a girl, aged $5_{2}^{2}$, and also the fourth, a boy aged $3 \frac{2}{3}$ years, were both affeeted; the former regovered completely, but the latter had considerable rickety deformity. There was no history of syphilis, or evidence of it in the family. The second ease was seen in a child of the brother of the father of the previous children. It was a girl infant aged 3 weeks, and had developed a swelling of the left humerus a. week, before being seen. It was also suckled, and as the mother was strong no medieine was given and no treatment adopted except to keep the arm
still by a tirely disappeared. This patient was the fourth ehild The first,
a a girl aged 6, and the third, a girl aged 2, were and had been always well. The second, a boy aged 4, had had both arms and
legs affeeted in the same way at the same age, but had covered. In this case also there was no evidence of syphilis TVest believed that all these cases were rickety in ay nature, elosely allied to acute rickets, if not aetually cases of that disease. From the cases of aeute riekets recorded they differed in respect of age, acute rickets being rare iu so young children; also in the fact that more than one member of the family was attaeked; and lastly in the mortality. That these were cases of early rickets conld not, however, be doubted, on account of the evidence of rickets in the family, and of the absence of any other
assignable
 also referred to another case seen by him, and recorded by Mr. Herbert Page, which was an undouhted case of acute rickets, and that seemed to him to differ from those here described only in degree. The element of scurvy had been supposed to enter into the causation of acute rickets, but that condition was certainly not existent in the present cases.--
Dr. Bariow censidered Dr. Samuel West'g cases of great valuc, and conld not remember any quite similar group of cases on record. The closest parallel that he could recall was the late Dr. Ormerod's case of a man who was the anbject of combined mollities and rickets, with remarkable proneness to fracture, and who transmitted his bone proclivities to two of his children; but the
children were, aceording to the listory, healthy-born, and did not manifest the tendency to bone fracture until they were a ferr years old. The special features in Dr. West's cases seemed to be (1) the very early appearance of bone lesions (within a week of birth in one case), and (2) the repented occurrence in the same family. Dr.
Barlew had, Bres had, by Dr. West's kindness, seen one of the children when
these lesions tion given of them. He present, and he quite agreed wath the descripeongenital syphilis, but he was unable to accept the vierv that the cases belonged to the group called "acute rickets" by the Germans, and which group Dr. Cheadle and he had given reasons for believing was a combination of rickets and scurvy. In contrast
ing Dr. West's cases with the scorbutic cases, he pointed out that the latter had severe cachexia, with much sallowness and pallor and great proneness to hremorrhage, especially slowing itaelf ir spongy bleeding gums or ecchymoses in the gums, but also in sub
conjunetival and other ecchymoses were very severe, and that the local bene lesions were dependent of hæmorrhage between bone and periosteum, commencing at thi area of junction of shaft with epiphysis, and sometimes sepa. rating the whole length of the diaphysis, or leading to fractur just above the epiphysial line. In none of the recorded acut rickets (that is, scorbutic) cases liad the infant been breast-fed a the time of the appearance of the aymptoms. In Dr. West'8 case
the cachexia $\pi$. rhage; there was no suffering, except on pressure; the lesion were in the middle third of the shaft of each long bone; th infants were actually breast-fed at the time. Into what category
then, should Dr. West's cases be put? Dr. Barlow thonght the most proballe explanation of the lesions was that they were greenstick fractures with some callus round them. lle 8115ested that the infants lad been the subjects of intra-uterine ckets from some faulty nutrition of the mother during presancy, and that the results of the intra-uterine rickets made bones easily liable to yield after birth. The ease with which multiple greenstick fracture might aceur was sometimes very remarkable. The question might be asked, Was thers any reason to believe that true rickets oceurred as an intra-uterine disease? No doubt many cases described as lotal rickets were quite distinct from rickets, and depended on an error of development in which the cartilage cells did not proliferate, but the bone was formed entirely from periosteal outyrowth, etc. Thus a inalformed feetus was: developed, presenting eatures stuperficially resembling rickets, but differing fundamentIly from that disease. Nevertheless there seemed reason to beieve that $a$ true rickety ehange in the foetus. was sometimes resent quite comparable in anatomieal features with the disease io commonly found in hand-fed ehildren. Some years ago Dr. Barlow had found in siveral fotuses a slight but definite beading the anterior ends of ribs, and some reeent extensive investigaions by observers in Naples and in. Tienna Lad shown the existnce of true congenital rickets to be by no means rare. Dr. 3arlow had hrought to the Society that evening a child aged 9 nonths who had been under his observation sinee she was ten reeks ald, and whose case, lie thoight, had some bearing upan or. West's paper. This infant lad been delivered with head preentation, but the legs were found considerably bent. The lower imps were fotind to present an extreme eurvature convex forrard, the curve affecting both femora and both tibix, whilst the ibia were also flattened from side to side. The appearance was racly like that of many museum specimens of extreme rickety leformity. "The lower limbs for some weeks after birth were very ender, but the tenderness gradually passed away, and the curvaure lad undergone a certain amount of involution. When the nfant was one month old a swelling appeared in the middle of he right arm, and for this it was brought to see Dr. Barlow. The welling wias in the middle third of the humerus, was very tender in pressure, but-did not yield erepitus. There was subsequently similar swelling on the left humerus, but it was a little higher The swelling referred to gradually subsided, and now'a light' bony projection was present, marking, as Dr. Barlow heieved, the vestige of a greenstick fracture. Thus in the case n question there was probably intra-uterine riekets, giving ise to deformation of feniora and tibix, and eausing these ones to be tender for some time after birth, and the riekety Wacrasia still showed its continuance from the foetal into he infantile life by the oceurrence of the greenstiek fracture ff first the right, then probably of the left humerus. Dr. Barlow uggested that Dr. West's group of cases might admit of a similar xplanation.-Dr. Dickinson said be had seen several instanees facute periosteal swellings in infants and young children, and onnected them especially with riekets and scurvy. He formerly upposed them to lrave same assaciation with syphilis, but inrensed experience had convinced him that this was not the ease. he association with scurvy was very striking. A child of about our months old wiss brought to him from the country in a miser? ble state of pallor and chelexia; it had a large hard swelling round each femur, evidently connected with the periosteum nd it was passing hoody urime. At an early period of its life it had been deprived of fresh milk, which was not thought to arree rith it, and fed chiefly on Swiss milk. Under a complete change f diet, fresh Alderney cow's milk being substituted for the Swiss ills, the hamaturia ceased, the swellings disappeared, and the hill got perfectly well. A little iodide of potassium was given or a short time, and in some doubt. . He did not think this did ny good, and now never gave it in such eases. Whatever seorbutic esults presented themselpes in infants-hrematuria was frequent a this relation-fresh milk was the one thing needful. The benefit vich ensued in such a case upon its taking the place of less suithle diet was very striking.-Dr. Giover mentioned a rery similar ase which puzaled him very unch fer a time. The patient was child a few years old, with painful swellings of the legs and light lixmaturia. Syphilis being suspected, the iodide was iven, but with unsatisfactory result, but the child rapidly recoered with l'arrich's food. Dr. Gee, who saw the case with lim, Fas of opinion that the child was scorbutic, a condition which ould ke athilated to the use of Swiss milk.-Dr. Wrimpranonce

Smint pointed out that strumous periostitis almost always weret on to suppuration, which this disease never did.-Dr. Ormerol, drew attention to the fact that in Dr. West's interesting series of cases the disense affected relatives, and not merely the choblren of one family, but the children of two hrothers. He thonght that this fact, unless it were explained as a mere coineidence, did not liarmonise with the view that the disease was due to rickets ror syphilis-Mr. R. W. Parker was pleased to hear Dr. Ormerod draw attention to a very speeial feature in the eases rclated, namely, the multiplicity of the lesion, as well as to the fact that the lesion occurred in the families of two brothers; in seeking for a name for the disease, this multiplicity was of considerable importance. 1 In the course of the debate scurry, riekets; and syphilis hed been referred to. As regarded scnrry in this and kindred cases, lie would only say this: that, were a hundred sailors exposed to the conditions which were formerly known to prodnce scuryy, in the classical sense of the word, probably not a single one would escape; on the other hand, notwithstanding that many thousanls of elildren, predisposed to malnutrition both by inheritance and by bringing np, had for years and years past been exposed to what had been deseribed as a scurvy diet. yet these cases of so-called scurry rickets belonged to the greatest of pathological rarities. Under such eireumstances, he (Mr. Parker) could not agree that scurry, in the classical sense of the term, had anything to do with the disease under consideration. Then, as regarded riekets: it 'was quite new to him to hear of periosteal complications; the bones suffered quite commonly, but only at the epiphysial parte of the diaphyses. In Dr. West's eases the stress of the diseam fell on the middle of the shafts, a most unusual plaee for rickety manifestations. To come next to sypbilis, the incidence of syphilis Was quite the rule during the earliest weeks of life, while rickets. as regarded the long bones, was infinitely rare at this period; the shafts of the long bones, moreover, were the" "seats of election of syphilitic disease, while the multiplicity and uniformity of the lesion were most suggestive of a syphilitic origin, the absence of a syphilitic history notwithstanding. The eases were doubtless peculiar, but the peeuliarity was due to some rery special personal or family idiosyncrasy of the subjeets attacked.-Dr. West, in reply, said that be adhered to his original opinion in the absence of any serious reason for altering it. Ite said he had failed to find the slighest bending of the bone in Dr. Barlow's case. He had only noticed eacheria in a case where there had been a good deal of hamorrhage. He observed that Mr. Parker begged the question. If the swellings were to be aecepted as proof of syphilis, there was an end of the matter, but there were no other signs of its existence, though they had been enrefully looked for. With reference to the parentage of the children, he mientioned that none of the brothers were stroug, and one was actually enfering. from some stramous aftection of the ankle-joint.

Iiving Specimens.-Dr. Barlow showed a Case of (Partly) Congenital Rickets; Mr. MurpHy, an Infant Recovering from Bromide Rash, the Bromile having been taken by the Mother: Dr. Handen und Mr. Baliance, a Case of Acromegaly.

## MEDICAL SOCIETY OF LONDON. <br> Monday, april IGth, 1888.

Edmund Owen, F.R.C.S., Fice-President, in the Chair.
Cerebral Abscess treated successfully by Operation.-Mr. Danerr
Habrisson read a paper on this subject, which is puhlished at pacro 848.-Mr. Barker alluded to the immense difliculty of examining the eyes of patients just at the time when it possessed the greaterst interest. In some cases there was papillitis, and in others this symptorn was gbsent. In neitber of his eases was there any tendency to hernia cerebri. He recommended the use of a metallic drainage-tmbe, such as a silver eatheter split and bent to form flanges, as better caleulated to farour a free discharge. Ile meutioned that cerebral abscess might remain latent for years-Dr. liewvor thought that the tendeney of all these cases of eerebral abscess was to confirm Dr. Ferrier's viem as to the cerebral centres. Ile observed that the site of the lesion was evidently the upper part of the arm centre, but it was of large extent, as evideneed by the parts inrolved. He asked Mr. Harrisson in what part of the arm the fits began, whether in flexion or extension, and in what sequence, as this was essential to the localisation of the lesion. INe pointed out that abscess, being of rapid growth, might not give rise to optic neuritis, whereas in tumours this was generally present.-Dr. Angel. Money asked what. Was. the.
condition of the superticial as compared with the deep reHexes. In brain lesions the deep retlexes were generally increased and the superficinl lessened. He mentioned a case at rresent under his care in which he had diagnosed a tumour in the middle lote of the cerebellum, evidently pressing upon the pons, interfering with the function of the pramidal tructs when they passed through the pons. In this case there was practically no cremnsteric reflex on the right side.-Dr. Machagan asked whether the absence of pyrexia was common after such operatious. - Mr. Jessor asked what was the extent and the degree of the usual lesions.-Dr. Mosex added that their experience at University College llospital was that the temperature, in cases of suppuration in the brain, was inrariably subnormal.-Dr. Herringinam confirmed Dr. Money's remark ns to the subnormal temperature in cases of supjuration in the brain.-Mr. Marmisson, in reply, acknowledged that he had a prejudice against using metallic drainage-tubes, and said that although the horsehair drain had failed, the india-rubber tuhe had answered every purpose. He made the trephine hole as far forward as possible on account of the extent of the paralysis. The wound was absolutely aseptic. The first operation relieved the patient's symptoms, probably by reduciug the pressure. The first symptoms on the arm began twolve monthis before the urgent symptoms showed themselves, and he was very careful to elicit the minute history of the case. The first sign was the contraction of the flexors of the wrist and hand. The patient was carefully examined on April 15th, and both eyes were found to be normal.
small and Moderate Valuular Lesions.- Dr. Milner FotheraHLL said that in the consideration of valvular lesions of the heart little or no attention was paid to the discrimination of large and small injuries; all were grouped together, and usually the prognosis of the gravest lesions was giren to small injurics producing very little effect upon the organisation. In order to grasp tho subject properly the facts of comparative anatomy and of embryology must be borne in mind. They savw the primitive heart a inere pulsatile, muscular sac. It was not till the ganoid fishes were reached that imperfect pouch-valves were developed in the bulbus arteriosus. So in the foetus. At first the heart had no valves: then imperfect valves appeared, and became more complete as the embryo grew. A valvular lesion was the undoing of evolution precisely to the extent of the valve mutilation; and there was all the difference in the world betwixt a small lesion well compensated, and $a$ large one which could not be efficiently compensated. IIe added that Nature compensated a valvular injury by falling back upon the primitive form of heart-the muscular sac. As in evolution ralres conomised muscular energy, so in dissolution an injury to the valvular mechanism of the higher heart was compensated by muscular growth-a development of the early lower heart-spoken of as "compensatory hypertroplyy." When they detected a valsular injury they realised that thiey could do nothing for that; their hopes were centred on the primitive muscle. If by rest and good food, with cardiac tonics, they could aid Nature's attempt to derelop the primitive heart, so far so good. A small lesion was easily compensated, and the compensation was well maintained for many years. Where the injury inflicted was large, complete compensation was unattainable; and such compensation as was possible, wore out comparatively soon. Consequently it was of great importance to measure the extent of valve-mutilation in each case, and from that to calculate the chances of the patient. A murnur revealed the cxistence of valvular injury ; but it was damib as to its extent. For that they must examine the case physiologically, especially in mitral lesions, and test the effect of effort. With a small lesion the patient could run, hut not very far; with a moderate lesion he could walk on the flat, but could not get up liills very well, or run ; with a large injury all cffort was distressing. In strict proportion to the extent of the lesion the organism was crippled and life shortened.-Dr. Moner said that the nodules whicla formed in rheumatism offered some idea of what was going on in the heart.

## ROYAL ACADEMY OF MEDICINE IN HELAND. Section of Pathology.

Friday, Marchi $23 \mathrm{rd}, 1888$.
Samuel, Gompon, M.D., l'resident, in the Chair.
Gareinoma of Iiver.-Dr. Walter Smith exhibitell a specimen of earcinoma of the liver Irom a woman, aged 35 . Three months before admission to lospital she complained of dull pain in the right side and posteriorly. In about a month jaundice super-
yened, increased from day to day, and lasted until her death. At first she vomited, but not subsequently. The motions were white, and the urine was free from albnmen, and not rery deeply tinged with hile. No increase in the size of the liver could be detected, and there was no ascites until within a few weeks of her death. While in hospital she cmaciated rapidly, and later on slic vomited blood on several occasions, oedema of the legs and ascites developed, and she died alout six weeks after admission. During ncarly the whole of her illness the temperature was alove norma -on one occasion as high as $102^{\circ}$. On post-mortem examination no diffuse peritonitis was found ; the spleen was adherent, the lives not materially enlarged. On the upper surface of the left lobe there was a canccrous node about the size of a florin, anc numerous other prominences, some of them cupped, on the uppes surface of the right lobe; there were a few nodules on the lowe surface. The gall-bladder prosented itself as a hard, pyriforn tumour, and upon incision its coats were found to be greatly thickened and calcified, except at the fundus. It contained som white gall-atones, and a yellow, grumous pulp composed o cholesterin. The cystic and hepatic ducts were enormousl? dilated. The pancreas was adherent to the liver, and was fuser into a mass along with enlarged glands. The kidneys and stomacl were healthy. Microscopically, thie disease was proved to b polygonal-celled carcinoma.- The Chairman said it was rathe an unusual circumstanca to have so muclu malignant disease with out a good deal of enlorgement of the liver, and from tha peculiarity arose the question whether it was not originally a cas of cirrhosis of the liver, in which carcinoma supervened. A mos interesting fact was the absence of any disease of the stomacl from which carcinomatous lisease so often proceded.-D ocarroll mentioned a case wish, during eleven months, pre sented all the signs of continued erteritis, the number of motion having gradually increased to sometring like twenty a day, whil they varied between fifteen and twenty-five during the last fiv or six months of the patient's illness. The motions came on ver suddenly, and were fluid and foetid. The patient never had an jaundice, save a passing tinge in the conjunctive during som two or three days, which was merely sugsestive of it. He had n ascites or vomiting, and it was more or less constantly a questio whether there was any hepatic trouble whasever. The symptor always pointed to enteric trouble. Hle arrived at a diagnosis i the case rather by the exclusion of other diag ooses than from th actual symptoms, and that diagnosis was aftelwards confirmed t the post-mortem examination. The liver was found to be simpl a mass of encephnloid tumours, which had crushed out all tl normal liver tissue. The cancer was primarily in the liver, as $f_{i}$ as he was able to make out, for he found no trace of any oth tumour in the abdomen.

Acute Pulmonery Tuberculosis.-Dr. C. J. Arxan exhibited ts lungs of a man, aged 29 , who died after an illness of five week in which a deposit of miliary tubercle was distribyted uniform throughout both organs. The patient had been in good healt five weeks before his death, when he was seized with a shiverii fit. He became feverish, and gradually developec symptoms
gastro-enteric disturbance, which led to his being sreated outsi the hospital for enteric fever. The chief symptons during t) progress of the case were high temperature without any mark depression; dyspucea with greatly increased respintory rate, t respirations areraging 48 in the minute; marked cyanosis, esp cially about the finger-nails and alee of nose; a pulse varyi between 132 and 148 ; tendency to profuse sweating; tongue clet and red. The physical signs, on examination of the chest, $s$,
minute crepitating ralles, heard best at the bases of the lungs, $b$ before death extending over the whole of both $1 \mathrm{u}_{\text {ags }}$; occasior friction sound heard posteriorly; no alteration of sound on pt cussion. From these symptoms the diagnos; of pulmona tuberculosis was made.-Dr. M'Kee thought that in almost : cases of tuherculosis-even the most acute-t would be fou that there had been some old tocus of thiedsease in the boay.
Dr. Mixon, in reply, said the point raised ly Dr. M.Kee was important one. In the present case there $r_{a s}$ no evidence whi ever of caseation in the bronchial glands. There was caseation two or threc places at the base of the lungs, but it was an act caseation brought about by the clustering of the tubercles; a in one of those centres the caseation wa $a_{3}$ evidently a recent pl. duction, and the lung was broken down.
Chronic Dright's Disease.-Dr. Jamps Litrile submitted following case of chronic Bright's disesse. The kidneys weigh rather more than $2 \frac{2}{2}$ lbs. The patient was 38 years of age at I
death. Thirteen years previously he had had an attack of acute nephritis. Afterwarls he came under his (Dr. Little's) care in the Adelaide IIospital for acute renal dropsy. Ile did not know whether it was justifiable to connect the state of his lidneys at the time of his deatl with that past illness, because they all knew that acute nephritis usually ended either in death or a complete cure ; and the man appeared to have recovered from that former illness. After five or six years he became subject to winter cough, of which he had attacks every year; but these were nerer severe enough to oblige him to seek hospital relief uutil the winter of 1886-85. Ile then came under his care for dropsy and general brouchial catarrh, his urine being markedly albuminous. After being four or five weeks in hospital, he went home apparently quite well. There was no record as to whether his urine was free from albumen at the time he left the hospital; but the man limself said that he heard the clerk who had charge of his case say that it was entirely free from albumen before he went away. The matter was one of consequence, because an important point in the case was as to the age of the renal changes that were found after death. About three months ago he came again to the hospital, suffering from extensive anasarca with dyspncea. At that time le generally passed between 30 and 40 ounces of urine daily; it was highly albuminous, and had a specific gravity of 101\%. The diagnosis made was that he had some chronic form of Bright's disease, with general bronchial catarrh. His pulse was always exceedingly soft and weak, his heart-sounds very feeble. There was no evidence of the cardio-rascular changes that were found in some forms of Bright's disease. He fought off death for more than two months in hospital, and the day before he died appeared as if he might recorer. 4 On the day of his death he arroke in the morning, after a fair night's rest, with a riolent pain low down in his left side. He remained in great suffering during the day, and died in the middle of the night. On a post-mortem examination the cause of intense pain was found to be, as they had guessed, acute pleurisy affecting a small portion of the lower lobe of the left lung. It Wes also found that, in addition to general catarrh with highly 1 emphysematous lungs, he had small cavities in both lungs, and miliary tubercles all through them. His heart weighed 9 ounces, - and was soft and flaccid, presenting no sign of enlargement. One of the kidneys weighed 19 ounces and the other 21 $\frac{1}{4}$. They were jomooth and rather pale on the surface; the capsules peeled off rery readily, and when each kidney was divided the cortical porion was of a dull, yellowish-white colour, and the pyramidal porLioa had a vivid red staining. The question was, were these kidaeys affected by parenchymatous nephritis since the affection of :hirteen years previously. All their knowledge, however, forbade uuch a conclusion. They must conclude that the last disease was of about a Year's duration. The kidneys showed distinct evidence of amyloid change.-Dr. Bewhex said the kidneys were an exmple of chronic Bright's lisease, every constituent part of the organ heing more or less affected. The renal tubes were in some jlaces dilated, and in others diminished; and the epithelium was a most parts fatty, aud in many parts low and with jagged edges. Che connective tissue was increased in several places, but not to tny great extent. The glomeruli were a good deal diseased, being he parts chiefly affected by the amyloid change. The ressels sere also affected by amyloid change. The spleen, with its reins, uteries, and capillaries, was affected in the same way; and the dalpighian bodies were also similarly affected.-The CHairmas emarked that the absence of cardiac pain indicated that the disase was not of very long standing.
Chronic Bright's Disease with Cerebral Hemorrhage.-Dr. AMES LITTLE submitted a case of cerebral hæmorrhage. About hree weeks hefore a man aged 45 was admitted into the Adelaide laspital in au apparently unconscions state. The story told of im was that, about a week before, he had violent couvulsions, Iter which he remained in a more or less stupid aud confused tate in bed. Two days before his admission he had another fit, ad then he was brought to the hospital. When first seen he was ring in bed with his eyes open, the pupils being equal in size, nt moderately dilated. If spoken to, he made some attempt to nswer, but could not speak; but when a little drink was offered 3 him he swallowed it. He could move hoth amms and legs perzetly, and there was no sign of paralysis of any of the facial uscles, eyes, or cranial nerves. The only thing of that kind ccasionally observable was a rery slight twitching of the left ngle of the mouth, and of the left occipito-frontalis muscle. On ramiming lis reflexes they found the knce-jerk extremely well
marked in both lower extremities, and also ankle-clonus developed in as high a degree as he had ever seen. On listening over the heart they perceired a deficiency in the first sound, and also a well-marked systolic muscular murmur. He (Dr. Little) concluded that he had to deal with a case of uramic conrulsions, judging by the pulse and cardiac action. Ilis urine had been passed involuntarily in bed, and by means of a catheter a few ounces were drawn off, which were found to be rather highly coloured and densely albuminous. He was carefully observed from that time until his death, and it was noticed that he had no hemiplegia, but mored his arms and legs on both sides; and, beyond the twitchings of the corner of the mouth and of the occipito-frontalis muscle, there were no indications of paralysis. Early the following morning the man jumped out of bed, put his hand to his head, and went into a violent tit of convulsions, in which he died. On post-mortem examination the kidneys were found in a shrivelled condition, one a little less and the other a little more than three ounces in weight. The capsules were thickened, and when peeled off, left a rough granular surface. The heart showed very distinctly hypertrophy of the left rentricle. They found nothing to account for the muscular murmur. The whole of the arterial system was very much diseased. A portion of the aorta showed in a rery highly marked form the changes that used to he called atheroma, but which were now called endarteritis deformans. The circle of Willis at the base of the brain was the seat of patches of similar change. On the right side of the brain was an enormous hiemorrhage, the right lateral ventricle being full of blood; and the hemorrhage appeared to hare taken place in the frontal lobe just outside the right lateral ventricle. There had evidently been two hemorrhages-namely, one that must hare occurred at the time of the seizure a week previous to his admission, and a second one that, he presumed, occurred at the moment of his death. There was a clot, which had the appearance of being a week or ten days old; and there was also a large quantity of what appeared to be recentlyextravasated blood. The man had been a soldier, and a rery hard drinker at one time of his life. The case presented a specimen of a chronic form of Bright's disease occurring in a person of intemperate habits, and accompanied with the cardiac rascular changes that were conspicuously absent in the preceding case.Dr. Dixon believed that most of the hremorrhage now seen in the specimen must hare occurred at the time of the final convulsion. So far as he could make out from the specimen now, the hemorrhage seemed to hare come from the posterior lenticulo-optic artery; and that was just the situation where there would have been the least amount of pressure on the motor part of the internal capsule. A small hæmorrhage might have occurred there for some days without its being attended by any paralytic phenomena; but at the time the man sprang out of bed in convulsions there was most likely a disturbance of the clot, followed by the fresh hamorrhage and large amount of blood now visible, which could not possibly have existed previously during the man's life without producing paralytic phenomena.

Corneal Tumour.-Dr. Stors exhibited, jointly with Mr. Scorr, a corneal tumour. It was removed from the eye of a bov aged I6 or 17, about ten days before. About four years previously the lad had been in St. Mark's Hospital, under his care, and the growth in the comea was then in exactly the same state as it was when recently removed. It was a small opaque, yellowish-white body, situated at the upper margin of the cornea, of oral shape, of five or six millimètres in its long, and three or four in its transverse diameter. The colour was somewhat the same as that of the Neibomian glands when seen through the conjunctira. The tumour was rascular, as blood-ressels conld be seen running up to it and orer its surface. It occupied nearly the whole thickness of the cornea, reaching from the anterior coat to the posterior surface. The epithelium of the cornea ran smoothly orer the tumour, which was not the least raised above the surface of the cornea. He removed only a portion of it, because he believed that if he had removed the whole he would lave gone into the anterior chamber.-Mr. Scorr said the specimen, when examined under a high power, practically represented the whole of the cornea. Inder the conjunctiva there was a mass of undoubtedly flbrous tissue, containing a quantity of small round cells, and this had a very large supply of blood-ressels. In one of the specimens seen under a high power, the supply of round cells was greater than in the rest, so much so that if that specimen alone were looked at, they would think the structure more like sarcoma than anything else. It was very difficult to make out how the fibrous tissue
came there. It might have been cither a eicatrix from an old ulcer or an old pannus. Mr. Bessox. remarked that in a somewhat similar case which he brought before the Section last ycar, the tumour, which was present in the cornca, was entirely remunning into it, nor any eridence of blood-vessels baving ever gone into its neighbourhood. The pannus theory would therefore not apply to this case. The growth would rather seem to be a hyperplasia of the corneal tissue itself.- - Mr. Srory, in reply, said the tumour in Mfr. Benson's case was almost in the centre of the cornea, and there was a perfectiy clear cornea between it and the aclerotic. In the present case the tumour was situated at the junction between the cornea nud the selerotic. The case was one in which there had been at one time granular ophthalmia, but not of a very severe character. He had come into the hospital for the state of his other eyc, which had entropium conseguent on the granular ophthalmia. The slice which he took of the tumour to the posterior surface of it except in particular places, and there was left a circular depression in the tumour as if a little piece of it had been scooped out. The way in which the healing progressed was remarkable. It progressed from the periphery of the little ulcer equally all round toward its centre, and a fresh little collection of bload-ressels and a fresh pannus sprang up, running not alone from the sclerotic edge, bat from the cornea towards the centre of the tumour, which was now the deepest part of the ulcer.

## SOUTII INDIAN BRANCII (MADRAS). <br> Fhiday, December 2nn, 1887.

Surgeon-General G. Bidie, l'resident, in the Chair.
Syphilitic Keloid.-Drawings of a remarkable example of widespread keloid. associnted with syphilis, was shown by SurgeonMajor E. F. Drake-Brociman. The patient, a Brahmin ryot, aged $\because 7$, Was admitted into the Eye Infirmary, Madras, with corneal ulceration and prolapse of the iris in both eyes. He contracted primary syphilis at the age of 22 ; he had a secondary rruption, in several crops, with fever. The only other illness he had had was variola when aged 3 , bit no marks of that disease were visible. When admitted the whole body was found to be covered with disseminated, indurated, eleated growths, which were distinctly keloid in character. Some parts of the lody were more affected than others-namely, the trunk on its ventral and dorsal aspects, and the upper extremities. The lower limbs, as far as the insteps, were also covered with growths similar to those on the trunk, thongh in a much less aggravated form. In the vicinity of some of the nodules scar-like patches might be seen, in which situation also the skin was in an atrophic state, and had lost some of the natural pignent of its structure. In reference to these atrophic patches the patient stated that they corresponded to the sites of former similar nodosities which had disappeared by a process of shrinking. besides these markings there werd also evidences of a former skin eruption in the form of pigmonted patches, rarying in size from a small pea to that of a hazel nut. The patient stated that the keloid had made its appearance on the sites of these patcles. The etiology of keloid was discnssed in reference to this case.-Surgeon-Major BnanFoor mentioned a case in which keloid growths formed at the site of vaccination. -The l'resident thought that keloid was more often scen amongst convicts, especially lurmese convicts, than in the clvil popalation:-Brigade-Surgeon Fox had frequently. Feen the growths in convicts, and Brigade-Surgeon Sibthomes in scpoys, especially Telugu men, who were frequently burnt on the abdomen when children.

Filaria Sanguinis' Mominis. - Brigade-Surgeon Sibtiorpe showed two patients in whose hlood filariæ Banguinis hominis were present; in one of the cases there was chyluria, and the filarise were only discorcrable at night. The blood contained in bugs (acanthia lectularia) from the cots occupied by these patients contained flarim, in much larger numbers, moreover, than the blood taken from the finger. Reference was made to Dr. Mancon's ohservation that the intermediato host of the filaria was the female of a specie. of mosquito.-Brigade-Surgeon Porten had had threo cases of chyluria under his carc early in 1887; in ona case filarix were found in the blood both by day and night, in another during the night only, and in the third none could be found.- brigade-surgeon SibTHorpe, in reply, observed that cases of cliyluria fiften terminated spontaneously.

Scrofulous Kidney: Uterine Fibroids: Colluid Cancer.-Surgean J. Smyth, M.D., related the casc of an unmarried lady, aged 40 , was a smodmitted into the Civil Mospital, Vizagapatam. There Was a smooth globular thmour on the right of the abdomen, below the umbilical level; the tumour was not connected with the liver or uterus; the urine was acid and free from albumen. The patient was also suffering from phthisis, and to it her death appeared to be attributable. At the necropsy, the ascending colon sions and intestines were found matted logether by frm adhevery friable new growth, resembling the roe of fish in appearance and consistence, affected the meso-colon, mesentery, and capsule of right kidney, affecting especially the pelris of the latter, hinding them all together in a solid mass. On tearing open this mass the ened, its capsule enormously thickened, yet fairly separable from its surfacc. The pelvis and infundibula of the kidney were from distended, and full of a urinous purulent fluid. The interior of this dilated cavity was studded over with granulations in several parts. The parenchyma of the organ was softened and infiltrated in several places with caseous deposits of small size; several large calculi, like masses of dried ginger, occupied the dilated infundi-
bula and pelvis. The uterus and small'tumour with the ovaries were removed together. They were not involyed in any way in the large tumour. This small tumour, about two inches in diameter, was a suh-peritoneal uterine fibroid, and three other small ones about the size of a grape were now also seen. The nterus, small, only two inches long, was otherwise quite healthy. The right ureter was obliterated about two inches from its pelvis, just at the margin of the mass of new growth. The left kiduey was quite healthy:

Infantile Hydrocele - An adult patient with infantile hydrocele was exhibited by Brigade-Surgeon-Sibthorpe, who' stated that where appeared to have been an encysted hydrocele of the cord, which had extended down along the cord into the scrotum.

## NOTT1工GHAM MEDICO-CHIRURG1CAL SOCIETY.

 Frtday, April 6th, 1888.
## W. II. Ransomr, M.D., F.R.S., President, in the Chair.

Treatment of Uterine Displacements.-Mr. 11atherly read a paper on this sulbject, advocating more attention to conştitutional treatment by rest and tonics, with local treatment of accompanying conditions, and less reliance on purely mechanical treatment. He held that in recent displacements, especially such as followed parturition, and were due to deferred involution of the utcrus and a relaxed condition of its normal supports, treatment by pessaries was not only unnecessary but sometimes mischievous. It was very often some accidental complication which first directed attreatment an anteflexion or anteversion, and in such cases the treatment, should be chiefly directed to the removal of such com-
plication. Fosterior plication, Posterior displacements were more amenable to mechanical treatment, but even in them a pessary might be coming a useful support to a weak part whilst Nature was doing her work. 1 fe fonnd pessaries often very useful in procidenting her extreme cases of prolapsus after the menopause, advised the uarrowing of the vagina by operatise methods. In conclusion, he enumerated briefly the conditions which contra-indicatcd the use of pessaries, and the general principles which should govern their ase.-A discussion ensued in which Dr. Ransom, Mr. Geraty, Dr. Collins, Mr. Wolierson, Dr. Miokif, Dr. Metch; Mr. Whity, Mr. Boonbyer. and Mr. liurnifa toek part.
Swelling of Scrotum.-Mr. CnEw showed a case of swelling of the scrotum presenting unusual symptoms.

Proposed IIorse Tax:-Upon the initiative of Drs, Motor and Wolverson, the following resolution was passed: "That in the opinion of this Society the proposed tax upon horses would yreas unduly upon medical practitioners who use horses in the practice of their profession."

## MIDLAND MEDICAL SOCIETY. Wednesday, Marcil 21 st, 1888. <br> Surgeon-Major Turten in the Chair.

Amputation at Shoulder-joint.-Mr. Jomian Lloyd showed case of amputation throngh the right shoulder-joint, with clear cinoma cinoma. The subclavian artery was tied as a preliminary step; an
no blood was lost at the operation. The wound healed in three weeks.
Abortion after Renoval of Ovaries. - Dr. Leslar l'hillips showed a remarkable abortion. Two months before aborting, the woman, aged 30 , had had a large, pedunculated, uterine myoma, as well as both ovaries, removed by abdominal section. The feetus was of the fourth or fifth month. Pregnancy was unsuspected at the time of operation.
Fixtra-uterine Fotation.-Mr. J. W. Taylor showed an extrauterine pregnancy of three or four months successfully removed a fortnight previously.
Amputation by Berger's Method.-Mr. Bennett May showed an upper extremity, with the attached shoulder-girdle, which he had removed a few days before by "Berger's method," from a boy aged 17 , for sarcoma of the humerus. The patient's condition was inevery way satisfactory.
Uterine Myoma.- Mí. Lawson Tait showed an enormous uterine myoma, weighing nearly forty pounds, removed from a woman, aged $56 . \triangle$ great part of the tumour had formed a hernia in the abdominal wall, and the overlying skin was ulcerated. The patient was doing well.
Abdominal Section for Peritonitis.-Mir. Lawson Tait read a paper on a series of cases of acute peritonitis treated by abdonimal section.
deute Peritonitis successfully Treated with Saline Purgatives.Or. Suckling showed a man, aged 21, who was admitted into the Forkhouse Infirmary on Jannary 6th, suffering from acute perionitis. He stated that he had had the "bowel complaint" two cears previously, but had been well till three days before admission, when he was taken ill suddenly in the early morning with nin in the abdomen and vomiting. IIe had been constipated beore this attack, and had had no motion since. The abdomen was ense and tympanitic, and the abdominal respiratory movements were abolished. There was extreme tenderness all over the abdoaen, the legs were drawn up, the pulse small and frequent, und the expression anxious. He had retention of urine and ever. No tumour could be discovered in the right iliac fossa. iomiting was incessant, and pain about the umbilieus greatly omplained of.'. (Dr. Suckling thought that the peritonitis was set ip by typllitis, due to fecal retention. Opinm and belladonna vere first given, but the vomiting and pain continued, Then halfLrachm doses of sulphate of magnesium and sulphate of sodium. rith ten minims of tincture of belladonna, were administered very four hours. Improvement soon followed this treatment, everal liquid motions being passed. On January 9th the vomitng, pain, and tympanites had passed off, and a distinct fulness. ould be observed, with increased resistance to pressure in the ight iliac fossa., The medicine was continued, with the 'result hat the motions became more and more solid, till on the 14th the natient was apparcntly quite well, and free from fever. Only mall quantities of peptonised milk and beef-tca were given. The latient continued to complain of drarging pain in the abdomen or some time, but in about three weeks he was able to get un, nd, five weeks after his admission, was allowed solid food. He ad since had two or three slight relapses, which at once yielded - purgatives and proper dieting, and at the prescnt time there was distinct indurated swelling in the right iliac fossa. Dr. Suckling pas of opinion that in this form of peritonitis, and in typhlitis due ofacal retention, suline purgatives, in moderate, doses and with henty of water, were of great value.

## MANCHESTER MEDICAL SOCIETY.

## Whdnfedax, April 4th, 1888.

James Rose, M.D., LLL.D., Vicc-President! in tho Chair. Comptication in $r$, Case of Femorat Hernia.-Mr. Stocks derribed a peculiar complication in an operation for right femoral ernia, where a large mass of omentum aicoinpanied the prouded bowel. The bowel was returned, and the omentum tied ad cut off. The patient did not rally, and died three hours after 1e operation. On examination it was found that the stranguited howel was ileum, and that the omentum had been tied so lofe to the colon as to include a small piece of the bowel. The ansversc colon had so nearly recovered its normal position that re ligatured stump ras found above the level of the nubilicus. (Esophiageal Forceps.-Mr. Stocks also exhibited an cesophageal reeps made by Krohne and Sescmann, by means of which a reign body could be removed almost from the lower extremity
of the outlet without the danger of pushing it further down, as must be the case when using an ordinary probang.

Erythromelalgia.-Dr. Mongas made some remarks on a case of erythromelalgia, and showed a patient suffering from this affection.

Malarial Fevers.--Dr. Basil made some olservations regarding imported malarial fevers.

The Action and ITves of Nitro-glycerine and the Nitrites.-Dr. Leech and Dr. R. B. Wilit read a paper on this subject, the firow portion of which comprised an account of experimental researches to determine the action of various nitrites on the contractile tibsues, and the extent to which this could be modified by different bases. The latter portion of the paper discussed the therapeutic uses of the nitrites, the indications for their administration in various diseases, and more especially the danger attending their use in certain conditions of the heart and circulatory system.

## REVIEWS AND NOTICES.

The Pathology of Intra-Uterine Death. By Whitamil O. Priestley, M.D., F.R.C.P., éte., Consulting Physician to King's College 1lospital. Löndon: J. and A. Churchill. 1887. T THe - lectures included in this volume comprise the Lumleian Lectures delivered at the Royal College of Physicians of London ${ }^{2}$ in 1887. The references to the literature of the subject are numerous, and will be found of special value to the student.

In Lecture I the author compares his statistics of abortion with? the well-known tablés drawn up by Whitehead. An analysis of 400 cases shows that 152 , or 38.00 per cent., had not aborted; while 248 , or 62.00 per cent, aborted. These statistics are almost exactly the reverse of Whitehead's, and are explained by the difference in age. Whitehead's analysis was made from women under thirty years of age, Dr. Priestley's from women over forty. Ten pages of this lecture are devoted to the effects of high temperature as a cause of abortion, and the results of a series of experiments carried out in the Physiological Laboratory in King's College are shortly recorded. The "heat theory" of Runge' is? probably the correct explanation of the death of the foetns iii.: utero: Houlier's theory of degeneration of the myocardium being: untenable. The forcible uterine contractions so frequently ohserved in cases of ahortion during high temperatures are bronght* abont by an accumulation of dark venous blood, charged with carbonic acid, in the uterine sinuses. Undue distension of these sinuses will canse contraction, while the excess of carbonic acid present will bring about a still more vigorous contraction of the uterine muscles. This action of carbonic acid upon contractile tisfues was first proved by Brown-Séquard in 1851.
Lecture II treats of the diseases of the feetal appendages, and is full of valuable information. Dysmenorrhoeal membranes, resembling "both in external appearance and minute structure" a decidual cast from the impregnated nterus, are capable, as is now known, of being expelled quite independently of pregnancy. Extravasations of blood in the decidua and decidual inflammation are fully considered.
Considerable attention is paid to the morbid changes affecting the chorion; the etiology and pathology of cystic degeneration of this body being specially discussed. The views of Yirchow and Ercolani upon this interesting and somewhat rare disease are discussed at 'some length, with the result that the author confesses: himself unable to accept the tenets of the latter authority. Excent in exceptional instances, it may bo laid dorn as a rule that cystic degeneration precedes and is the cause of the death of the foetus. To the question: Can eystic or vesicular chorion ever occur in women withont conception? a negatire answer is given.

In Lecture III the varions diseases and anomalies' of the placenta are studied fully and adequately. The experience and teaching of the author are opposed to those of Charpentier, who holds that the placenta undergoes only one morlid change. It is now admitted that the placenta may be affected hy various discases, and many obstetricians will he found who entirely agree with Dr. Priestley when he says "the placenta is, in trutb, as liable to be affected hy a rarietr of diseases as the liver or the lnng." Under the term "plithisis of the placenta," we find described a low form of inflammation, not associated with bacilli as phthisis of the lung is, hut characterised by a tendency for exudations to be thrown onti into the parenchyma of the placents.

This exudation may either become organised, and so form fibroid nodules scattered in the organ, or it may break down, and destruction of the phacental tissur take place. In eithre case, if the disease adrances berond a certain point, the result will be the same, and the life of the fortus will be destroyed. With regard to the changes produced in the placenta by syphilis, our present knowledge scurcely entitles us to uttribute any specific lesion to that disease alone.

In conclusion, we must note the numerous diagrams and several coloured plates of microscopieal sections. The volume is of yery handy size nid neatly got up. Mueh of the material contained in it is original, and all of it is extremely valuable, especially to the student of obstetrics. Hitherto no book, so far as we know, has erer been published in which this subject is treated of in the same systematic manner; indeed we believe no attempt has ever been made to collect so much material into one volume. There is still much to be learned, and the author is eareful to point ont the paths by which many more facts may be gathered. The book should be in the library of every obstetrician.
First Aid in Accident and Sudden Illness. By George Black, M.B.Edin., C.B. London: Ward, Lock, and Co.
This book is very well arranged and excellently written, but it almost reaches the requirements of a manual on minor surgery, rather than of a plain, practical guide to the rendering of help in cases of accident and sudden illness, and a manual for the instruetion for ambulance students. The anatomy and surgery of the nose, eye, ear, and larynx cannot be usefully comprised within the teaching of an ordinary ambulance class. No doubt many who take an interest in the work of the St. John Ambulance Association will read this book with interest and profit.

## NOTES ON BOOKS.

Modern Theorles of Chemistry. By Lothar Meyen; translated from the German (5th edition) by P. P. Benson, D.Se., and W. Canleton Williams, B.Sc. (Longmans, Green, and Co.)This rolume is a translation of a work which has gained for itself a world-wide reputation, as heing undoubtedy the most successful attempt to present to the student a complete survey of the theories of chemistry which have been built up from the vast array of experimental data. The work is one which from its nature appeals mainly to the pure chemist, to whom for a number of years past the German original has formed nn almost indispensable companion. The present translation will be welcomed by all whose German scholarship is too limited to enable them to pursue such hard reading as a study of the original entails. We can thoroughly congratulate the translators on the faithful and conseientions manner in which they have performed their task. We notice, howerer, that some of the matters treated of have not been quite brought up to date; thus, in dealing with the laws governing the incomplete combustion of gaseous mixtures, no reference is made to the important researches made in this country, and published as long ago as 1884 .
FoThe Royal London Ophthalmic ITospital Renorts. Vol. xii, Part 1, January, 1888. (J. and A. Clurchill.)-Notwithstanding its extremely emaciated appearance, this number of the Reports contains matter for instruction. Mr. Lawson contributes an interesting case of Sarcoma of the Optic Nerse Sheath. Tumours growing from the optic nerve are extremely rare, although several cases have, however, been recorded in addition to those mentioned by Mr. lawson, and a few monographs have been written on the subjeet. The value of the case under consideration is increased, however. by the fret that a thorough examination of the tumone was made. Messrs. Lang and Barrett contribute a paper on Convergent Squint which gives evidenee of systematic work extending over a considerable period. We hope to consinler this paper in detail on a future oceasion. It is sullicieut to say here that it shows that in young subjects squint can be completely cured by glasses in about 10 per eent. of the eases, and that the occurrence of squint can we prevented while the glasses are being worn in 33 prr cent. No loubt, as suggested hy the suthors, many in the latter class wouhd ultimately be coanpletely cured; on the other hand, it is not unlikely that some of the eases of complete cure would relapse if the glasses were discontimed for long. The authors promise a furtlier communication on the subject. The
same anthors make another short communication on the frequency with which cilio-retinal vessels an? retinal pulsation are seen. As the presenee of venons julsation has been not infrequently mentioned as a symptom of glaucoma, it is important to note that it was found in 73.8 per cent. of the eyes examined. It would have heen interesting to know whether age has any influence on the frequency of its oceurrenee. Mlr. Conlins, the house-surgeon, contributes a paper on Suppuration, Glaucoma, and Corneal Opacity following Cataract Extraction. The facts given are valnable, hut when the writer launches into statistics he is unsafe. The eases of complication are collected from several years, while the tables showing the average age of patients, the number of operations in different months, etc., are compiled from one year only. 3lr. Collins attributes suppuration to general conditions rather than to local infection; nearly all the faets, however, that he adduces would be equally consistent with the view that such conditions only rendered the eye more susceptible to the influence of septic organisms. Five cases are giren in which the injection of a solution of biniodide of mercury ( 1 in 25,000 ) was followed by corneal opacity, a matter which is of interest in its hearing on the subject of intra-ocular injections, on which a correspondence recently appeared in our columns. It is diffeult to see with what object inserted. On the strength of a solitary case, of which the been history is obriously unreliable, and the result admitted to be unknown, and which the writer oniy observed for twelve days hu has the temerity to found a theory of pathology in support of which he does not produce a single piece of evidence. In propounding this theory, he entirely ignores the pathological eviLence which has been collected by others at considerable labour, and on which the commonly accepted riew of the pathology of this kind will, we cannot but think, do mueh to damage the higl reputation which the Reports of the Royal London Ophthalmic llospital hare always enjoyed.

## REPORTS AND ANALYSES

DESCRIPTIONS OF NEW INVENTIONS IN MEDICINE, SURGERY, DIETETICS, AND THL ALLIED SCIENCES.

## ANOTHER BINAUTAL STETHOSCOIPE

Thrs is a stethoscope which I venture to think is worthy being brought into notice. Its form was suggested to me by tha of an instrument for one car which was described by .lr. .h. Combes. I hare employed it now for about two ycars, and find both efficient and exceedingly convenient in use, more especial in comparing different portions of the chet in children. portability is a great recommendation, as it ean be easily carri in any coat pocket without any case to contain it. It is also chea, The old-fashioned wooden stethoscope excels it for auscultatin but for all others, especially of women and children, it is entire satisfactory, contributing greatly to the comfort of both patics and auscultator-of the former by largely diminishing the ne for change of position, and of the latter by the avoidanee of awl ward and constrained attitudes. It is good to carry both instr ments, this in the pocket, the other in the lat.

This stethoscope has the chest-piece like that of the comm hinaural instrument, but about an inch shorter. The tubes a abont 14 or 15 inches in length, made of rubber tuling somewh larger in ealibre and firmer than that used for infants fecdia bottles. The ear-picees are tipped with rubber tubing to ma them fit comfortably in the ear, and should be selected so as to fairly well the ear of tho auseultator. The ear-pieces are retain with quite sufficient firmness, without any ail hy a spring other contrivance, if they are gently pressed into the meat giving them at the same time about half a turn of a screwi motion.
The stethoseope is sold by Joung, Frorest Road, Edinhurgh, 3s. 6d., and also by the Argyle Rubher Company. Filasgow.

Dundee.
J. W. M1LLER, 3.D

Successful Viccinatios:-Mr. Willimu Cuoper, of Widnes, received the Government grant: for successful raccination.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

SUBsCRIPTIONs to the Association for 1888 became due on January Ist. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Office, High Holborn.

## The British ftedical Journat.

SATURDAY, APRIL 21sT, 1888.

## SANITARY ADMINISTRATION AND THE LOCAL GOVERNMENT BILL.

A somewhat remarkable feature of the debate on the second reading of the Local Government Bill has been the inadequacy of the attention that has been given to the public health aspect of the Government proposals. Mr. Stansfeld opened the debate in a very clear and carefully-reasoned speech, in which he pointed out various matters in respect of which the Bill falls short of completeness as a measure of local government reform affecting the health and prosperity of the nation. But, with the exception of Sir Lyon Playfair, the subsequent speakers directed their remarks almost exclusively to those other phases of local administration which, although matters of vital importance, do not stand in such great need of reorganisation as does our system of sanitary administration.

Sir Lyon Playfair, in his able speech, very forcibly exposed the insufficiency of the proposals in the present Bill to secure a removal of the hindrances to sanitary progress which at the present time are in full operation in many localities. Chief amongst these hindrances must be reckoned-as we hare on many occasions pointed out-the unsatisfactory system under which medical officers of health are appointed and hold office. At present, as Sir Lyon Playfair observed, the plan of appointing a medical officer of health for a small, insignificant area results frequently in a practitioner being chosen who has had no special training in the science of public medicine, and who, in exchange for a trifling remuneration, gives some fragments of his time to sanitary duties and to preparing reports to the Local Governnent Board. The less such an officer does the better will his mployers be pleased.
"The people would rathor have their dunghills and nuisances eft alone, as in the time of their fathers, than have them stirred $p$ by the stick of a parish doctor. The officers are paid to do othing and they do nothing. What is the result? That while ur towns have largely improved under sanitary legislation, as hey generally possess well-qualificd medical officers of lealth, he rural districts, as a whole, have not shared in this rate of nprovement, and their disease and death-rates remain mucli hat they werc."

In contradistinction to this picture Sir L. Playfair points to Cheshire, where much has been done to improve the organisation of the sanitary service, and where the duties of the medical officers of health have been consolidated in respect of large areas. One of these areas has 280,000 acres and a population of 135,000 persons. It has the entire services of an able officer of health, who has a salary of $£ 800$ a year. Another consolidated area in the county has 139,000 acres and a population of 84,000 persons, and the medical officer of health has a salary of $£ 635$. But the rest of the county has not shown this intelligence, and there remain 213,000 acres, with a population of 420,000 persons, split up among 28 health officers, who, if Stockport be excluded, have salaries ranging from £10 to £75. Combinations exist in other parts of the country where sanitary matters are properly supervised and controlled with benefit to the public health. But, on the other hand, many combinations have been broken up or have crumbled to pieces through the jealousies or quarrels of constituent authorities or individual members. It is clear, therefore, that in practice the system of voluntary combination of districts cannot always be secured, whilst the use of compulsory powers by a central anthority is, for obvious reasons, not satisfactory.
At the present time, according to the last report of the Local Government Board, there are some 1,300 medical officers of health throughout the country, and the salaries of these officers range from $£ 3$ a year to $£ 900$. In Sir L. Playfair's opinion there would be far more efficient sanitation in the country if the number of health officers were reduced to 180 , each of these officers having a larger area than at present, and haring public health as his sole duty, instead of regarding it as an accidental adjunct to his private practice. If London, and the larger towns that are to become counties in themselves, be excluded, a population of some $18,000,000$ remains, and this would form 180 health officers' districts of 100,000 each. Undoubtedly the £130,000 annually spent on medical officers of health would, under an arrangement of this sort, secure infinitely better results than at present. Instead of this considerable sum being frittered away in small honoraria, a thoroughly effectise method of sanitary administration would be built up.
The means proposed for putting this matter on a satisfactory footing is to make all officers of health oflicers of the County Councils, and not, as proposed in Mr. Ritchie's Bill as at present drawn, to make them officers of the District Councils. Each County Council shonld be required by the Act to appoint a duly qualified Superintendent Medical Officer of Health, who should be responsible for advising on all public health matters in the comty, should he debarred from private practice, should be paid a reasonahle salary, and shoukl lee secured in his office so long as his duties aro adequately and faithfully performed. Only under such circumstances eau tho most useful and unfettered skilled advice be secured, which a county authority must have, if it is to fulfil properly the functions transferred to it from the Local Government Board. Sulsidiary health officers would be necessary for special areas or towns in the comsty, or in order
tion, pulse, and temperature were unaffected, and it is curious that'no atazy of any degree or kind was present, whereds'this was the most prominent' symptont in raogs aftor large doses. The ordinmy dose for man' is two grammes (half a drachma), Professor Fries has examined the effect of sulphonal of tho blood-preksure, and hass established the fact that in dogs, even aitor very large doses, the blood-pressure, is not lowered. Poisonous doses in dogs, the dgtermine the node of death, caused serara convulsions, then, after a few hours, a heary sleep, deepening' to coma and ending in death in about-ten hours. Spectroseopic and microscopic examination of the blood revealed no alteration its elements. Sulphonal appeared most efficacious in cases o sleeplessness in nervous subjects, but was giren with boncfit it all kinds of cases, including eren cardiac valvalar disease.

## ELECTRICAL TREATMENT 'OF DISEASES 'OF'O 'THE <br> 

At the next meeting of the Brighton and Sussex Medico-Chirul gical Society on Thursday, May 3rd, a paper on the above subjec will be read by Sir Spencer Wells, Bart. Dr. Apostoli will t present'énd take part in the discussion. The meeting will be hel at the Dispensary, 112, Queen's Road, Brighton; at 8 P.ar. Membel of the prefession are admitted on the introduction of a member the Society.

1 il orlt

Medical officers of health have consistently and persiṣtently su ported the moyement now on foot for the reform of plumber work. The medical offieer of Liverpool (Dr, Taylor) has recent brought the subject prominently before the Health Committee the city, and heis, wo learn, now taking steps to obtain such su part from the architects and plumbers of the locality" as w secure the formation of a district council to oarry out in Lir poal the examination and registration of plumbers on a nation system inaugurated by the Worshipful Plumbers' Company, Le don. The medical officer of Birkenked.'(Dr.' Vacher); who h evinced an active interest. in the movementt from the?outset, ro a paper on Defective Plumbing at the Royal Institution; Liverpo on Monday, April 16th, illustrating it by some of his own sketcl of cases coming under his abserration.

THE BRITISH
THE RESEARCH SCHOLARSHIP OF THE BRITISH MEDICAL ASSOCIATION,
an earch Scholar
Dr. RALPH STOchмÁn has been appointed Research Schola the British Medical Assaciation. Dr. Stockman js assistant to Professor' of 'Materia' Medica in the University' of NEAnBurgh, received aspeial training in the modern methods of yharmo logioal and physiological research in the laboratories of Jrofess Schiemedeberg and IIoppe-Seyler. He proposes to continue undertake researches on the following subjects:-1. The chem changes which nenthol, camphor, and simflar bodies und after absorption; how far these metabolic producte affect organism, and whether they still act as antiseptics: - 2, The 1 , mode of action of the camphar group an the heart and circulat 3. The pharmacology of a new body which acts Iike digitalis, The problems comected with the absorption and excretior glycerine' ani of fats. 5. On the connection thetween chem constitution'and physiologicnl action of some alcohols.
NEW WARDS AT THE SUSSEX COUNTY HCSPIT Larae detacted wards hare been built ou the site of the musc The wards? are intended to be used for violent patient3., or cases of eryaipelas, etc., and a special featurc is that thosej on
top floor constitute almost a :separate establishenent; 'having a separate entrance and staircase, as well as bath rorm and offices. Here there are two large wards-28 feet by 16 -and four smaller16 feet by $12 \frac{2}{2}$ all 13 feet high; a corridor 52 feet long and 5 wide separating north from sonth rooms. The middle fioor has six wardB, which are cither 16 feet by 16 , or 16 by $12 \frac{1}{2}$, separated by a corridor nearly 90 feet in length. On the ground floor there are four wards, with kitchen, laundry, and other offices. The internal walls of the building are covered with loortland and Keene's cement, trowelled to a smooth face, and all angles of walls and ceilings are rounded off, so as to lessen deposit of dust, etc. The floors are fireproof, and laid with pitch-pine; the grates are "Economisers," and the general appearance of the wards is very bright and pleasant. The closets are fitted with "Unitas" pans, and the ventilation through the window-sills and over the doors is on an improved plan. In the lower rooms are two large beds; with movable sides, for refractory patients, constructed on the model of those at St. Bartholomerv's. The' museum has heen rebuilt, and is well arranged in its new quarters; the post-morten rooin is equal to the best in light and convenience. Ntogether the huildinge are an extremely advantageous addition to the professional resources of the institution, and reflect credit on the Committee and the staff, as well as on the architect, Mr. Seott.

EXTENSION OF ST. MARY'S HOSPITAL, PADDINGTON. Wry are informed that at a recent:Board meeting of St: Mary's llospital a resolution was unanimously passed arranging for the purchase of twenty-three honses on the north side of Praed Street adjoining the hospital, giving an entrance to the bospital in Praed Street. The new buildings will include a residence for nurses, special wards, and wards for lying-in women. The latter department will obvieusly be of great valne to the clinical work of the hospital as well as an immense boon to the many poor women who frequently, suffer at their own homes for the want of the advantages of a special treatment and careful nursing, whicl they would receive the wards of the hospital. In adopting this resolutlon, the Board passed also a vote of thanks to Mr. Fifeld, the Dean of the school, to whose energy and warm interest in the hospital much of the success which has attended the preliminary arrangements for this enlargement is due.

## A NEW MEDICAL JOURNAL.

A New medical journal, the Wiener Klinische Wochenschrift, appeared in Vienna on April 5th. It is to be published weekly, under the cditorship of Dr: G. Riehl. The first number contains an article by Professor Billroth on the Treatment of Goitre by Ligature of the Thyroid Arteries, an abstract of which was given in the letter of our Vienna correspondent last week; and"other important papers by Professors yon Bamberger and E. von Hofmaun.' The journal is well printed, on good paper, and is altogether more satisfactery to the eye than the majority of foreigu journals, whether lay or medical.

DEATH OF PROFESSOR DE CHAUMONT.
He deeply regret to have to announce the death of Professor de Chaumont, who succeeded the lato Professor. Parkes as Professor of silitary Jlygiene at the Royal Army. Scloool, Netley Hospital. Dr, de Claumont was amougst the most able and accornplished members of the Army Medical Department: His scientific acquiremente, especially in chemistry and physics, and his valuable contributions to the Army Bline , Books on the subjects of dietary, hygicne, and ventilation, early marked him out for special employment as a teacher. Ite assisted Professor Parkes for some yenrs at Netley, and his appointment in succession to that eminent man was recognised as one which did much to fill the void. Professar de Chaumont was also employed by the Privy Council and
the Local Government. Board to carry but special inquiries in public health matters. His social accomplishments were hardly less notable than his scientific acquirements, and his personal character was so agreeable, his bearing so courteous and considerate, that he was universally beloved. Professor de Chaumont. whose weak state of health has caused his friends much anxicty for some time past, died suddenly of failure of the heart at his residence at Woolston.

THE 'SUMMER SESSION.
Tradition in medical schools disparages the summer session. The first of October is the student's New Year's Day.! At once he begins his work in the dissecting room, and, with the exception of a few days' holiday at Christmas, his labours are continned till the end of March. The new requirements of the Conjoint Examining Board will give greater importance to the summer session. The medical schools are shaping their arrangements in accordance with the new order. 'When the student enters in May, he will enjoy the advantage of getting nsed to hospital life; and will be able to spend part of his summer vacation in learning osteology. At the end of September he will know how to ensure a "part" in due season. It is, therefore, satisfactory to learn that the Warden of the College at "St." Bartholomew's. Mospital has issued a notice encouraging the entrance of freshmen in May. The notice adrisés a student who has passed a preliminary cxamination in arts early in the year (and has not commenced medical study) to enter in May, and to pursue his studies as follows:

1. In his first summer session to attend chemistry lectures and practical chemistry, with lectures on chemical physics: At the end of this session to pass the examination of the Examining Board in England of the Royal College of Physicians and Royal College of Surgeons in these subjects. He thus goes from his chemistry lecture to the practical study of the subject, and has the direct stimulus in his work of a public examination at the end of the session. 2. In hisi first winter session to attend anatomy lectures and dissect; to attend physiology lectures and practical physiology classes. At the end of his first winter session to pass the examination of the Examining Board in elementary anatomy and plysiology. 3. In his second summer session to attend materia medica lectures and practical pharmacy. At the end of this summer session to pass the examination of the Examining Board in materia medica and pharmacy. 4. In his second winter session to dissect and to study practical physiology. and to attend the adranced course of lectures on anatomy. He may with advantage also attend a second course of phyiology lectures. At the end of his second winter session to pass the second examination of the Examining Board in anatomy and physiology, Although systematic clinical work is necessarily deferred until after a.strudent has ; passed his examinations in anatomy, physiology, and the other elementary subjects, be should. from the becinning of his career take every opportunity of learning the rudiments of practical medicine and surgery by attendance as opportunitics occur to him in the wards, out-patient rooms, and the post-montem rooms
We understand that other medical schonls intend to follow the example long ago set by Univerity and King's Colleges, and more recently by St. Mary's, and to encourage the entry of neptistudents in summer.

## UNFOUNDED "CHARGES AGAINST MEDICAL?MEN.

Medrcal practitioners are, as onr readers know too well, hiable to have unfounded charges of negligence brought against them, and are consequently are often put to a great denl of unuecessary trmble and expease for their owa protection. Tho fact of charges haring been made is soruetimes remembered, and perhaps mentioned against a man behind his back, while the more important fuct that they were shown to berunfomaded is forgotten or ignored. We think it well, therefore, to give publicity to a casp in which a member of the professiou was enabled recently to rindicate his character successfully. In' the Connty Court at : Yarmouth in

March last, a Mrs. Arief brought an action against Mr. C. A. Mayo, a medical practitioner of good standing in the town, to recover damages for injury to her health consequent on abusive and violent language used by the defendant, and on his negligent treatment of her case. In the winter of 1886 she was ill, suffering from rheumatism and pneumonia, and attended by Mr. Mayo. She wanted to call in another doctor, a Mr. Collier, but Mr. Mayo objected to meet him, as he was his junior, and Mr. Meadows was called in instead. The plaintiff alleged that on the morning after the consultation, Mr. Mayo, on paying his regular visit, accused her of having been attended hy Mr. Collier, strore at her, using disgusting language, and went violently out of the room, banging the door after him; and that the effect of this conduct was to cause her to spit blood and confine her to her bed for six months. The story on the face of it appears improbable, but the plaintiff took no steps against Mr. Mayo for nearly a year, when she consulted several solicitors successively, and at last found one to bring her case into court. Tbe demand in the first instance was for $£ 20$ and an apology for violent conduct and brutal language, and the charge of negligence was subsequently added in order to make a legal course of action. The plaintiff and her witnesses contradicted themselves and each other as to the language alleged to have been used by Mr. Mayo; and Mr. Meadows said that he was satisfied with Mr. Mayo's treatment when he was called in. The jndge, Sir F. Roxburgh, decided that the plaintiff"s case as to negligence failed entirely, and paid that "having heard the witnesses called for her, and also the defendant himself, he was satisfied that no such conduct as alleged took place. As a question of character was involved, he had thought it right to hear the case out, but even if he had considered that the words alleged had been used, he should have decided, in point of law, that they mould not support an action. In justice to a medical man, he had preferred to decide upon the facts, and he considered Mr. Mayo had vindicated his character most completely." The result is satisfactory, and should be generally known. That the defendant should have been put to considerable expense and more trouble and annoyance in repelling an unfounded charge is less so. But English law, in its anxiety to refuse justice to nobody, is unwilling to prevent actions being brought where there may possibly be a good claim. It is not till a case gets into court, and the evidence is tested, that its value or worthlessness becomes apparent. Hard though it may be on defendants to have to resist extortionate or unfounded claims, we do not see any probability of the law in this respect being altered, and members of the medical profession, when thus attacked, must be content with the knowledge that they are only under the same liability as other respectable Englishmen, though the consequences of an adrerse decision are to a professional man more serious than to others.

## INDIVIDUALITY OF CHILDREN AND RESULTS OF TEACHING.

Constant and urgent complaints are made by teachers that, in judging of results, inspectors and managers do not sufficiently take into account the individuality of children. This feeling found strong expression at the annual conference of the National Union of Elementary Teachers. The work of teachers paid by the Government and ratepajers must ever be estimated by results: those who pay must have some security as to what they get for their money. If we visit schools for the blind, the dumb, or the feeble-minded children, we see that different criteria are looked for in each case as indicating "results" of training. The individuality of children differs greatly, consequently the objects and methods of training must be various. The attainments which we desire to see in children of 11 years old are not simply such as are indicated by examinations in grammar, writing, arithmetic, etc., but also the signs of physical growth and healthiness, the
signs of tidiness, intelligence, quickness, and happiness. It is, an important but a difficult and complicated question how to estimate "results" of education ; the teaching profession might do well to try and give some practical definition of "good results." An assessment of the results of school work must take into"account individual differences among children; it is very undesirable that the age of childxen should in any large degree be taken to indicate What standard in the school a certain child ought to occupy late developments often make rery good growth. In framing a statement of results of educational work, allowance onght to be made for the variations of indiriduality in the children, and this can only be done by those trained to obserre individual children, and able to estimate their condition and progress by what they see in them. The results to be sought in a child that is feeble, or one of poor development, differ greatly from those to be expected i children of average growth; a very moderate amount of knowledge, but fairly quick brain action, well under control, iseperhaps all that can be expected, but a "good result" has been obtained if such a dull child is made to like the school, if he attend regularly, and is active and obedient. We protest that school results should not be estimated by mere scholastic work, and should not much depend upon lesson wark in relation to age. The individuality of children differs immensely, so also does the special character of different teachers. Some method of estimating results must be employed, but it is lighly desirable to leave considerable freedom of action to teachers, and they in their turn will be glad that the results of their work should be known and estimated. The real question at issue is not that any of us doubl the varying individuality of children and teachers, but how are we to apply tests as standards of results? This difficulty is les felt in secondary schools, where the parents' opinion of progres: and later successes of former pupils in part form a standard:0 school success.

## AWARD OF THE MARSHALL HALL PRIZE.

Fifteen years have passed since the Marshall Mall Fund ma instituted, with the twofold purpose of commemorating th late Dr. Marshall Hall, and of encouraging research in that branc of natural science which he did so much to develop. The trus provides "that a prize shall be given every fifth year for th best original work done and recorded in the English languas during the previous quinquennium in physiological or pathologic researches relating , to the nervous system, and that the pri shall consist of the simple interest derived during the preceding.fin years from the amonnt of the capital fund." The first award was,ma to Dr. Ilughlings Jackson, the second to Dr. Ferrier ; and this ye the Council of the Royal Medical and Chirurgical Society, whose hands the fund was placed, have awarded the prize to I Walter Holbrook Gaskell, F.R.S., Lecturer in Advanced Physiolo in the University of Cambridge. The Council have invited I Gaskell to give some account of his work before the Saciety, a a special meeting will be convened for this purpose, which will duly announced.

THE LATE MR. MATTHEW ARNOLD.
The life and death of Mr. Matthew Arnold have a lesson of he and a warning for the large number of persons who suffer fr heart disease. Twenty-five years ago he consulted Dr--now Andrew-Clark, and was told that he had valvular disease of heart, but advised that if he exercised reasonable care it ned at all interfere with his carcer. For many years he rigidly hered to the recommendations as to regimen and exertion wh were giren to him, and it is interesting and encouraging to re that nearly all his serious work in criticism, education, theology was done within the last twenty-five years. His repo and essays on middle-class education, the Tissays in Critici Literature and Dogma, all belong to this period. Such a lifoi
striking proof that heart disease, even of a type generally accounted serious-for Mr. Arnold had disease of the mitral and aortic valres-need not interfere with the lahours or the enjoyments of a successful career, prorided only that the limitations and moderate restrictions to which the individual must submit are frankly recognised. Emboldened by long impunity, patients are disposed to come to beliere that the precautions hare been unnecessary, and to relax their vigilance at the very time when the approach of old age renders all more or less liable to weakness of the heart. The Arnold family are a remarkable instance of family predisposition to disease of particular structures; the father of Dr. Arnold of Rugby, Dr. Arnold himself, and now two of his sons, hare all succumbed to chronic heart disease.

## THE EMPEROR OF GERMANY.

We learn, by special telegram from Charlottenburg, that at the end of last week inflammatory swelling of the loose tissue surounding the windpipe was obserred below the tracheotomy wound in the Emperors throat. His Majesty had a slight shivering fit on Saturday evening, and this was followed by symptoms which made the medical attendants fear that the lungs were becoming affected either by the derelopment of a fresh centre of the disease which has so long existed in the larynx, or by inflammation excited by the trickling of irritating discharges into the bronchial ubes. So far, howerer, we are pleased to know that no race of any pulmonary complication has been discorered ifter repeated careful examinations by Professors Senator ind Leyden, whose scientific attainments and practical skill ire as fully recognised by the medical profession in this :ountry as they are in Germany. The Emperor's temperature ose to $103^{\circ} \mathrm{F}$. on Tuesday, but came down to $101^{\circ} \mathrm{F}$. in the rening. On Wednesday it reached $104^{\circ} \mathbf{F}$. for a short time, hut quickly. fell again. Sir Morell Mackenzie belieres that. His Iajesty is at present suffering from pyæmia, a form of bloodwisoning which is, under any circumstances, extremely dangerons, nd which, in a patient whose rital powers hare been slowly apped by a lingering and painful illness, must gire rise to the corst apprehensions. Ilis Majesty's physique, however, is so exeptionally robust, and his life has been so entirely free from xcesses of any kind that could weaken or ritiate the natural ounduess of his constitution, that there may still be some room o hope that the present crisis-threatening and almost desperate sit undoubtedly is-may be successfully gotorer. The worst feature f the case, however, with regard to the ultimate prognosis is the inernal condition of the air-passage, which,it appears,became suddenly o much narmower at a point opposite to the wound that it was ound necessary to introduce a new tube long enough to reach elows the obstruction. We hare pointed out more than once that ne of the most perplexing features of the case is the extraordinary uldenness with which the disease, after prolonged periods of uiescence, starts into renewed activity. Whether the invading lass be an offshoot from the original cancerons formation in the uryx, as the German physicians are said to be unanimous in beeving, or an abscess depending on destructive inflammation of be cartilaginous structures, is now, we consider, a matter of comaratively little practicai moment. Probably a patient would ave a chance of a longer lease of life with undoubted cancer han with perichondritis of so midesprcad and severe a character $s$ is postulated in the present case.

## SCOTLAND.

The honorary degree of LLL.D. was conferred upon Sir Tilliam itken, JI.D., and Dr. W. 11. Walshe, by the Unirersity of Edinurgh at the anuual graduation ceremony on Wednesday last.

GLASGOW UNIVERSITY EXTENSION SCHEME. The town of Paisley has taken the lead in adopting the extension scheme recently announced by the Lniversity of Glasgow. A largely attended public meeting, convened by the Prorast, was held on April 13 th, and after the details of the scheme liad been Lully explained, the meeting unanimously agreed to its adoption. A large and strong committee was appointed to make the necessary arraugements.

## SOUTHERN MEDICAL SOCIETY, GLASGOW.

Dr. Eben Duncan introduced a discussion on the modes of disposal of the dead, and after reviewing present modes of burial, he pointed out rery fully the adrantages of cremation. He illustrated this subject by the accounts of experiments made on the bodies of animals, and then discussed the various precautions taken to prevent, at any time, a miscarriage of justice by cremation.

## CHOCOLATE CHEWING GUM.

Two confectioners in Glasgow have been fined £3 each under the Adulteration of Foods Act, for selling a sweetmeat called chocolate chewing gum, and containing 42 per cent of paraffin wax. It was stated for the respondents that the confection was manufactured in Lincoln, and that it was bought by children for the purpose of chewing and then making crackers. Dr. Russell stated that the paraffin wax was insoluble in any of the fluids, and indigestible, and might so irritate the stomach as to cause conrulsions in children of tender years. The sheriff said the article had a misleading name, and as children might purchase it for eating the trade must be put down.

## DALBETH CEMETERY, GLASGOW.

The Archbishop of Glasgow has replied to the communication made to him by the local authority in regard to the condition of Dalbeth Cemetery owing to the custom of pit burial. He expresses the willingness of the committee in charge of the cemetery to make such regulations in the method of interment as are indicated in Dr. Christie's report, and intimates that instructions to that effect have already been given. It the same time he states that the Committee, while willing and anxious to meet every proper and reasonable requirement, cannot see that there is any eridence that the methods hitherto adopted have created, or are likely to create, a nnisance. He refers to the exceptionally good health enjoyed by the inmates and attendants of the reformatories on each side of the cemetery, the low death-rate, and the farourable reports of Her Majesty's inspectors as supporting this riew, andexpresses the opiuion that the offensire odours complained of arise from the Tollcross Burn. He, therefore, thinks it a hardship that Dalbeth Cemetery should hare been singled out for animadversion, and the managers of it alone called on to alter their method of interment.

FRESH AIR FORTNIGHT FOR CITY CHILDREN. The Committee who so successfully carried out last year the idea of giving the poor children from the slums of Clasgow a fortnight in fresh country air, are again taking steps to carry on this important work during the ensuing summer. Their plan consists in boarding the children in the homes of cottagers in healthy country districts. The Committee, however, found last year that children with open sores could not be so boarded ont, although they required fresh air even more than the others, and, consequently, nothing was done for them. An attempt is to be made this year to get orer the difficulty by proriding a special home for such children. We wish the attempt all success, as the work is most mecessary, and will assuredly be followed by excellent results.

PATHOLOGICAL AND CLINICAL SOCIETY, GLASGOW. At the mecting, on April 9th, Dr. Meighan showed a man who had had a piece of metal embedded in his left eye for ten years. The metal was now making its way ontwarls through the comea. Dr. Reid showed microscopic specimens from a case of mycosis of the eychall, in which mycelium tuhes and spores were found spreading from the deeper layers of the conjunctiva into the substance of choroid and interior of the eyeball. Dr. Joseph Coats showet specimens of fat-embolism of the lung from a case of simple fracture of the femur. Dr. Fleming showed a portion of ascending colon containing a large concretion, which had caused the formation of an abscess in the right iliac region. Dr. Newman showed a perforating ulcer of the anterior wall of the stomach communicating with an abscess cavity of old standing. Recent rupture of abscess into the peritoneum had occurred.

## EDINBURGH UNIVERSITY COUNCIL AND THE UNIVERSITIES (SCOTLAND) BILL.

AT the statutory half-yearly meeting of the General Council of Edinburgh University, held on Tucsday, April 17th, the text of the Universities (Scotland) Bill came up for consideration. The Business Committee presented a report on the Dill, which in large part was accepted by the Council. The Committee held that the proposals for afliliation and incorporation of other colleges were needlessly vague. It appeared to the Committee that the term affiliation might be accepted as sufficient. The Committee insisted on their previous contention as to the impolicy of transferring the Botanic Garden to the Unisersity, and as to the inadequacy of the proposed grant to the Scottish universities. In other respects the Committee, believing the measure to embody much for which they had long contended, expressed the apinion that, subject to such minor alterntions as had been suggested, it should be passed.

SCARLET FEVER AT GARNET HILL, GLASGOW. Scablit fever is very prevalent at present in the, Garnet lill district of Glasgow. It appeared first in a dairy in the district, the proprietor of which atonce communicated with the authorities. All the other cases have been tracel to this dairy. Immediate investigation of the sanitary conditions of the farms whence the milk supply of 'the 'dairy was obitained led to the discovery that at one of them-a farm near Eaglesham-there were two cows suffering from sores on the teats and other symptoms resembling the recent Hendon cow-disease. It was accordingly resolved to bring these cows into the city for further and more careful obserration. I'rofessor MCCall kindly offerel accommodation at the Veterinary College. During the last fortuight careful observations have been made as to the condition of the cows, and some young calves and pigs fed with the milh. bacteriological observations are also being made, and in due course a full report of the whole circumstances will doubtless be given.

## IRELAND.

SANITARY CONDITION OF NAAS.
The Local Government loard have receised a report from their inspector, Dr. luurke, in reference to.the sanitary state of this town, which they forwarded last week to the Nans guardians. The report states that the sewerage is in a defective condition, and the Board havo rermested that the matter may receire the attention of the guardians, who are the sanitary authority. The latter, however, aro of opinion that they have done all that is necessary, and refuse to have a main drainage scheme for their town. That up to a recent period the sanitary condition was positively disgraceful is shown by a report of the medical oflicer
of the district, who somo time since stated that considerably less than one halt of the entire number of houses had any sanitary accommodation whatsoever.

## CASE OF HYDROPHOBIA.

in January last, a workman employed in Guinness's stores, at Limerick, was bitten on the hand by a rabid animal. The wound was cruterised at the time, but symptoms of hydrophohia supervened last week, and he died in Burrington's llospital, two days after almission.

SIR PATRICK DUN'S HOSPITAL.
A deputation of the governors of this hospital waited en the l'ublic IIealth Committee on April 17th in reference to the proposed fever hospital in connection with that institution. Ifter some discussion, the deputation stated that their board would aequiesce in the wishes of the Public IIealth Committee. A deputation of residents in the neighbourhood of the proposed fever hospital also waited upon the Committee. The following resolution was then agreed upon unanimously :-" That this Committee cordially thanks the Board of Governors of Sir Patrick Dun's Hospital for their pnblic-spirited conduct in agreeing at the request of this Committee and at material cost to abandon their original intention of using the new wing of their hospital for the reception of fever patients, and to devote that wing to the treatment of non-infections diseases, and that the Committee regard as entirely satisfactory this concession freely made by the Board of Governors in deference to the desire of this Committee."

## ULSTER MEDICAL SOCIETY: DISCUSSION ON MEMBRANOUS LARYNGITIS.

A VERT interesting discussion upon the diagnosis and treatmen of membranons laryngitis, occupied the attention of the Clster Medical Society at its last meeting, upon April 1lth. The discussion was opened by Professor Cuming, who devoted his remarks mainly to the therapeutic aspects of the question. He depre cated the excessive use of steam, and especially the erection of a tent around the patient's bed to concentrate the vapour, but thought that a warm and somewhat moist atmoswhere was desir able. He had seen no adrantage from the use of emetics, whicl were of acknowledged efficacy in simple laryngitis. Sprays $0^{\text {a }}$ lactic acid, sulpho-carbolate of soda, lime water, and glycerine might be employed, hut he did not rely much , upon them. regards internal medication, he had a leaning in farour of mer cury, but thought that prohably he hack seen most benefit fron iron and chlorate of potash. Nutrients and stimulants were, course, most valuable. The important question of tracheotom was fully considered. He drew attention to the remarkable dis crepancy between the results of the operation in different hand and in different localities. Although his own experience of th suficiently early it materially improved the very gloomy pro nosis usually necessary in membranous laryngitis. Fle thoug dennitely diagnosed, tracheotomy should be at once proposed, lo tubation, he had no persous. As regards the new procedure of is there was a rapidly accumnating exience of it, but thought th l'rofessor Sinclair, l'rofessor Dill, Dr. M"Parland, Dr. Byer,
In as a Wales, Dr. Lindsay, Dr. Venupsey, Dr. M. Comell, Mr. Fagas, the President, Dr. -Fsler, tonk part in the discussion followed.
Tus twenty-second annual report of the liristol Ilospital Sick Children and Women states that, owing to the system whi requires some payment towards the cost of medicines-althou 780 women and 2,327 children made 8.113 and 16,029 atteadanc respectively-the net expense to the hospital was less than £l

PARLIAMENTARY BILLS COMMITTEE.
Lunacy Acts Amendment Eill.-- Tax upon Horses.- Irish Iunacy Laws.-Notification of Infections Diseases.-Public Health Prevention of Infeetious Diseases (Mastings) Bill.-Relative Mank. -Pharmacy Bill.-Curoners Lill.--Durials Lill.-Local Government Bill.
1 meeting of the l'arliamentary Lills Committee of the British Medieal Association was held on Thursday, April 12th, at the offices of the Association, 429 , Strand. The following members were present:

## Mr. Ernest Mart in the Chair.

Dr. Bridgwater, Harrow
Dr. Ifolman, Reigate
Dr. Alfred Carpenter, Croydon
Dr, Langdon Down, London
Dr. Mịckle, London
Dr. Grigg, London
Mr. Enstes, London
Dr. C. Orton, Newcastle-under-
Lyme
The minutes of the previous meeting, of which printed copies had been circulated among the members, were confirmed.
Dr. Bridawatar proposed and Dr. Holitan seeonded the reappointment of Mr. Ernest Hart as Chairman, which was carried unanimóusly.
Letters of apology for non-attendanee were received from the President and the President-elect; Dr. Deas, Exeter; Dr. Duffey, Dublin; Dr. Meadows, Market Drayton; Dr. Bruce Goff, Bothwell; Mr. Harrison, Liverpool; Mr. Jeaffreson, Framlingham; Dr. Philipson, Newcastle-on-Tyne ; Dr. Ritchie, Edinburgh; Mr. Sibley, London; Mr. Watkins, Towcester; also from Dr. Esler, of Belfast, who sympathised with the efforts made to prevent the taxing of horses of medical men.
The Chamman said he had asked the Committee to meet at that time, lecause it was the time at which they usually met to consider the Bills before Parliament, and to consider specially any points in respect to particular Bills or any matter affeeting the medieal profession. They had a long list of Bills before them, and he suggestei that, with respect to any Bill requiring detailed consideration, it might be convenient to appoint a subeommittee to consider the specisl points, and to refer the conclusions arrived at to a future mectiug.

Lunacy Acte Amendment Bill.-This Bill, which had been twice before the Committee had, the Chatrisan pointed out, now passed the House of Lords, and he asked Dr. Mickle to report on the further proceeding 3 desirable.
Dr. Mrekue said the Bill was eonsidered by the Committee last year in its amended form, and the present bill scemed to be very much the same thing. There had been a shufting of the elanses, still the provisions were very much the same. Some matters in the former Bill had been omitted and a few new matters introduced, but these, he thonght, were not important from a medical poiut of view. He had drawn np a report upon these which he would read if necessary. With regard to registered hospitals, as to which they made representations last year, some of the clanses had been omitted und others retained, anh he would be glad to know if Dr. Deas (who had interested himself in this question) was satisfied. He (Dr. Mickle) had also noted the points to which the Cornmittee were committed in previous years, and which still applied in the preseut bill. The first was Subsections 1 and 2 of Seetion 4 , which had been introduced, partly in modification of, and partly in substitution for, elauses existing in a former Bill. Tho provisions, as they had already argued, left it optional with the judge, nuagistrate, or justice to consider whether or not he was satisfied with the evidenee appearing by the medical certificates, etc.; and, if not, le slould make sueh further inquiries as he thought fit. But, if he thought the evideuce sufficieut, he might make an order forthwith. This was counected with a differeut section, namely, Section 2. pages 6 and 7, where a number of provisions were made for cases in whieh the magistrate had not seen the alleged lunatie ; and in that case the alleged lunatic night, if he had not beeu previonsly seen by a julge, magistrate, or justice, demand, at any time within seven days, an interview with judge, magistrate, or justice. This left room for a grood deal of delay; so that he might be certified and yet his case only decided upon a forninght later ; and though wheu certified he night be extremely
insane, when examined by a magistrate he might liave recovered It was most desirable that it. should be made compulsory for a magistrate to see the alleged lunatic before siguing an order for his admittance. Then there was the question of the remuneration of workhouse medical offeers, as to which there was some little doubt whetber the Bill really meant that the workhouse medical officer should receive any remuneration. They recommended that the workhouse medical offieer should receive remuneration. They ulso made a recommendation in respect to the serere penalties attaching to the workhonse medieal officer for not reporting cases, whieh might easily happen from oversight. Dr. Mickle called attention to Section 36 , page: 22, as to which it had been suggested by their Committee that "the person making application for the discharge of a patient under this section, shall give seeurity for the payment of all expenses." The clause in the Bill read as follows: "in order for the examination by two medical praetitioners, authorised by the Commissioners, of any person detained as a lunatic in any asylum, hospital, or lieensed house, or as a single patient, may be oltained from the Commissioners upon the application of any person, whether a relative, or friend, or not, who shall satisfy the Commissioners that it is proper for them to grant sueh order; and on production to the Commissioners of the certificates of the medical practitioners so authorised, certifying that after two separate examinations, with at least seven days interrening between the first and the second examination, they are of opinion that the patient may, without risk or injury to himself or the publie, be discharged, the Commissioners may order the patient to be discharged at the expiration of ten days from the date of the order," It was to be anticipated that under this seetion rexatious and wholly unnecessary proceedings trould be instituted, likely to lead to the diseharge of patients anfit for diseharge. Any person, whether a relative or friend of the patient or not, might apply and get an order from the Commissioners for the patient to be seen by any two medical men, who, after two examinations, may certify that the patient should be discharged. There were, he thought, "black sheep" in the profession who would make it their business to see patients, and certify for their discharge. A patient so discharged would have, primá facie, a very strong case if the certifying was reeklessly done" by persons who were not acting bonit fide.
It was also suggested that service of medical officers in public asylums should count aceumulatively towards pension, etc.
It was proposed that Dr. Mickle's report be accepted and referred for consideration to a subeommittee consisting of Dr. Bridgwater, the Chairman (Jir. Ernest Hart), Dr. Alfred Carpenter, Dr. Langdon Down, and Dr. Mickle, with power to act.
This resolution was seconded and adopted.
Dr. Laxgion Down thought it very desirable that the Bill should be carefully watehed through Committee.
The Chimmar said the Committee were greatly indebted to Dr. Nickle for the trouble he had taken in drawing up his reports.
Tax upon Horses.- The Charmans said there had been, as they knerr, a considerable feeling raised throughout the profession on the subject, and he had receired a large unmber of communications, practically unanimons, from persons feeling it to be a grievance that such a tax should be imposed. Oue or tro persons howerer had taken a different riew, feeling it undignified on the part of the professiou to protest against the imposition of a tax of E1 per year. He (the Chairman) felt that the question of £20,000 or £30,000 a year was an important matter for the profession as a whole, and that there was an obvious objection to taxing horses employed in medical business as pleasure horses. Te had liad himself some private communication with the Chancellor of the Exehequer, and he (the Chairnan) had adrised medical men, individually, to address communications to Parliament. They had seen the statement made by Mr. Goschen in the Ilouse, which he thought they might accept as praetieally indieating his willinguess to make some considerable exemptious. Ile did not think. from the tenour of the communieations whieh had been reeeived. that it would be quite abolished, but he thought they might gather from what had been said, that probalbly one horse would be exempted, and in the same way exemptions would be made as to the carriage tax, which would considerably lighten the existing burden of medical men in that respect. The Chancellor of the Exchequer had intimated that he did not think it necessary that he should receive a deputation from their Committee, beeause he was already yery fully in possession of the riews of medical meu on the subject, from a great variety of sources, and he was doubtful whether it would add to his information. 1le further pointed out that the actual provi-
sions of the lill had not yet been passed. He (the Chairman)thought that, taking the tonc of that letter, and seeing they had already a censiderable body of l'arliamentary assistance in the matter, that it would perlizps be hardly necessary or dignified that, under
the circumstances, they should put further pressure on Coschen, but wait until the actual provisions were introluced in the ineasure, and if then no concessions were made, lie should be allowed to eall the Committee together to make a collective representation. A namber of petitions had been presented, and inembers generally had receired instructions from their medical constituents.
Dr. Holmax called nttention to the threefold nature of the undue burden of taxation upon the medical man. There was the increased taxation on his income, upon his horses, and upon his carriage wheels. The arerage earnings of a medieal man in the country were under $£ 300$ a year. He could not enrn more than that with one horse, and to earn ${ }^{5} 500$ he had to keep two.

Mr. Balding agreed with Dr. Holman.
The Crairyan thought the statement made by Dr. IIolman would be an important element in any further statement they might hare to make. The ineome of medical men was n precarious one; they Trould have the wheel tax to pay, and the honse in which they carried on their business was taxed as if it were a pure dwelling house: so that medical men were hit in every possible way.
Dr. Canpenter suggested that a letter should be written to Mr. Goschen, stating the views that had been expressed had had that day the suppori of the Parliamentary Bills Committee.
Mr. Balding said he knew two or three medieal men with a thousand a year praetices, who required the use of three horses.
Dr. Bmdanster agreed with the suggestion of the Chairman that it would be well that the Chairman sloould address a further letter to Mr. Goschen, and then they might wait and see the prorisions as introduced into the measure before taking further action. This course was decided upon.
Irich Lunacy Laws.-The Chamman read the following resolution of the Psychological Section of the Dublin meeting, which had been referred to the Parliamentary Bills Committee by the Council.
"It was mored by Dr. Yellowlees and seconded by Dr. Sarage:-
.- That this Seetion of the British Medical Association, having had under consideration during the meeting in Dublin the Irish lunacy laws and their practieal working, and having strongly felt their grave defeets when compared with those of England and Scotland, conclude to bring this subjeet under the consideration of the Council, in the hope that they will take sucl steps as to bring under the attention of the Gorernment the urgent need of better regulations and further legislation in regard to this matter. The chief defects are the following:
" 1 . The modes of admission of patients into asylums, which often involre injustice and injury to the patients, and great danger to the public.
"... The defective powers possessed by the medical superintendent for the proper and efficient management of the asylums, for example, his having no power to engage or to dismiss the attendants, on whose loyal disclarge of duty the welfare of the patients so greatly depends.
". $\$$. The want, in the majority of asylums, of assistant medical nficers, so that the medical superintendent is unable to gire the necesary time to his strietly medical duties, and large asylums containing some hundreds of lunatics may he left entirely withnut reaident medical supervision when the superintendent is absent.'"
The Ceurman said he had ebtained the opinions of the gentlemen who mored and seconded the resolution, and also of Dr. Nickle, who had drafted in report, as to the necessary reforms. The state of things there disclosed was obviously one which was far behind that of which they complained in England and Scotland.
The following resolution was mored by Dr. Drxor, R.N., seconled by Mr. Eastes, and earried nem. con.:
"That the foregoing resolntion, together with the memorandum now handed in by Dr. Miekle, he referred to the subcommittee already appointed, with directions to frame a report on the subjeet, and to cirenlate it in type before the next meeting." Subsequuratly, being found to deal fully with the subject, this memorandum was accepted as the report to be so printed for consideration by the Committec.

Notification of Infectious Diseases.-The Chamasen reported the receipt of a letter from Dr. Liddle, of Kingston, aecompanied by a memorial signed by a number of medieal men rssiding in that
town, calling attention to the fact that in the Kingston town, calling attention to the fact that in the kingston mprovement sill a clause had been that was requiring concurrent notilihonseliolder and by disease; that was to say, notinieation by the jeeted to the latter.
Dr. Lasgdon Down explained that there was a very strong feeling in Kingston on the subject, the medical profession being practically unanimous in opposing the dual notifieation, the feeling being that their practices would be worth nothing if they were put in the light of common informers.
The Chamman nointed out that it had long ago been legally deeided that their Committee had no locus standi before a Privato Bills Committee in respeet to any private Bill, and this had been reyeatedly stated in the Journal. The local medical men must themselves apply to be represented. The proper course was to instruct a solicitor. They were the only persons who could oppose.

Dr. Alfred Carpenter said the question was one of some interest and some importance, thongh of eourse he agreed that they had no locus standi. In his neighbourhood dual notification prevailed, and modical men, as a rule, did notify; but there were medical men in Croydon who objected to it, and the authorities were just then proceding against Dr. Dalton to reeover a peoalty beeanse he refused, and would still refuse, to notify, but would do as he had done in the case referred to, instruct the householder and occupier. And in the abore case the houselolder did notify, and the house was cleansed, but the local authority, for some reascn or another-not, he thought, suggested by the medieal officerthought it best to proceed against Dr. Dalton. A second ease oc-
eurred soon after. The authority recovered, but there was the principle involved that though there was dual notification thero had been no notification by the householder, nor could proceedings be taken ngainst the lhouselolder because he did not notify, but immediately they got a complaint against a medical man they proceeded against him. It showed the way in which the Act was being worked was not exactly the best to promote the repression of disease, beeause at that moment in the parish of
Croydon Croydon there were cases of infeetious disease which were being
attended by hertolice atended by herbalists, who were not called upon and could not
be compelled to disclose. The consequenee was that disesse being spread because they were not under the eare and ma was ment of qualified medical men, and no proper measures were taken for preventing the spread of disease. If the law said the medical man was to act as agent of the patient there would be no difficulty whatever, and where there was a determination not to be a so-called informer, he would request the houselolder to give the notice, and the houselolder would probably do it.
Dr. Langdon Down was requested to inform Dr. Biddle that the Committee sympathised with his views, but that, as had sereral times been determined and announced in the Joursac, the larliamentary Bills Committee had no locus standi before a private Bill Committee.
Public Ilealth Prevention of Infectious Diseases (Hastings) Bill. -The Charman said Dr. Carpenter's observations might he considera an introduetion to the consideration of the above Bill. It
was a general measure introducel by Mr. Hast Marson Mr. Francis Powell, Mr. Wharton, and Mr. Marlcatle The object of the Bill was to make universal the notification of infections disease which now existed in about forty-eight cities or towns of England, and the Bill proposed the method to which Dr. Carpenter objected, and to Thich so many pepple in the
Association Association objeeted, namely, the method of dual notification. It
was a bill which he supposed had very little If the Committee proposed to take any sueh steps as Dr. Carpenter would suggest, it might, he thought, be well for them to appoint a subeommittee to draw up reasons to submit to the promaters of the Bill in favour of or against the prorisions of the Bill.
Dr. Gingg called attention to the faet that in the list of in fectious diseases given in the Bill as to which notifieation was to he made, puerperal ferer was included.

The following subcommittee was appointed to draw up renson for opposing the Dill:-Dr. Bridgwater, Dr. Alfred Carpenter, Dr Langdon Down, Dr. Grigg.
Relative Rank.-The Cuamman said he had to report on the question of rauk that for the moment they might consider $i$
taken out of their hands, inasmuch as it was still before the Council, who were dealing with the subject. As they would have seen, he was not seeking to give the matter attention, and various questions had been put to Mr. Stanhope. The answer given as to the interpretation of the Warrant was more conciliatory and promising. A considerable nomber of military members of the llouse of Commons had sympathised with them. He was sure it would be pleasing to the Committee to know that the conrse taken thus far by the Committee was exceedingly satisfactory to the Service, and that they were constantly receiving letters from oflicers of all classes giving their most sincere thanks. One officer, as a testimony of his sense of the great services of their Committee, had forwarded the names of no less than forty new members during the year.

Dr. Alfred Carpenter said he thought they owed Mr. Hart a rery cordial vote of thanks for the ability and energy which, as their Chairman, he had shown in dealing with the matter of rank.

Dr. Bridawater proposed a cordial vote of thanks to their Chairman, Mr. Ernest Hart, which was seconded, and unanimously accorded.

Pharmacy Bill.-The Cifairman said they would remember that he bronght before them certain points connected with the Pharmacy Bill which indicated that, under that Bill, there ras a possible tendency to encroach on medical rights, especially in including among the courses of instruction materia medica, and to examine therein. The Committee had directed him to write letters to the Privy Council and to the General Medical Council. The General Medical Council adopted their views, and Mr. Marshall and Dr. Quain, on behalf of that hody, had an interview with the Prixy Council. The Bill as now introduced had been expressly modified to meet their views, and it was satisfactory to know that the resolution of the Committee had had so good an effect.

Coroners Bill: Coroners Election Bill.-The Chatraxan explained that the Coroners Bill of the Lord Chancellor proposed to put the election of coroners in the hands of the Lord Chancellor, and the Coroners Election Bill proposed otherwise to amend the Act. The Committee would remember that they had, some years previously, a very elaborate series of reports on the amendment of coroners' law prepared for them and by it, with the assistance of the late Dr. Taylor and other eminent persons. They were all in farour of the abolition of the election of coroners by freeholders, and thonght it would lead to great abuses. The objection seen to the Bill as drawn was that, if the Lord Chancellor appointed, he wonld probably appoint a lawyer and not a doctor; otherwise the Bill seemed to he a good one. The Bill might, he thought, be printed in the Jounval, and suggestions asked for.

Dr. Canpenter said if there was to be an alteration with regard to the law of coroners, they should endearour to get a plan by which medical assessors to coroners should be appointed, and he suggested for this purpose medical officers of health where their whole time was devoted to their duties. If the Bill Was to be seriously considered in this Parliament, he would suggest that a committee should be appointed to deal with the Bill, and to press the question of the appointment of medical assessors upon the attention of the Government.

Mr. Ealnivg thought if the Bill passed it would be very much to the disadrantage of the medical profession. There were from 400 to 500 coroners in England, and it was proposed to revolutionise a system of appointing coroners which had existed formany huadreds of years. How was the Lord Chancellor to decide on the proper men to hold the office of coroner? Ife contended that the duties of that office were, in some respects, better performed by the medical man than by the lawyer. One of the most difficult points for a coroner to decide was when to hold an inquest and when to order a post-mortem examination. These questions could be much better solved by a medical man than by a lawrer. It was compulsory upon a borough coroner, whatever his profession, to appoint a lawyer as his deputy, but that did not apply to county coroners. Ite was in favour of a medical coroner being bompelled to appoint a lawyer as his deputs, and a legal coroner being compelled to appoint a medical man as his deputy. Me thought it would work much hetter than appointing assessors.
The Chainman suggested the appointment of a subcommittee, O consist of Mr. Balding, Dr. Danford Thomas, Dr. Carpenter, Ind Mr. Sibley, with power to call in the assistance of gentlemen lot members of the Committee, for the purpose of cousidering the

Burials Bill.-The Chairmas called attention to the fact that in the Burials Dill, which was otherwise generally approved, there was no provision for supplying a zone around cemeteries or burial grounds. It had frequently come to the notice of sanitary authorities that they were quite op to the very verge of highways. It was decided that the Committee should urge the insertion of a clause providiag for a zone of unoccupied ground around cemeteries and burial grounds as being important in the interests of public health.

A resolution in accordance with the above was proposed by Dr. Holman, seconded by Mr. Spaston, and adopted.

Local Government Bill. -The Charpman, in calling the attention of the Committee to this Bill, said it had always been maintained by their Committee and ly the State Mledicine Committee of the British Medical Association and by the Council that it was of the utmost importance, first of all, that an intermediary authority, such as the County Boards, should be established for health purposes, and theyknew that when the I'ublic Health Bill was framed, they fonght very hard to have such County Boards created. Fow that intermediary anthority had been created, it answered in many respects the desire of the Committee. Although large sanitary powers were given to its Conncil, it had no sanitary staff, and the medical officers of health were in no relation to it, and the County Boards in cases of epidemies wonld have no means of communication with the Local Government Board. They had always contended that medical officery of health should be apponted over large areas and have large jurisdiction, and any* reduction in their numbers would he more than made up by the efficiency of having officers over a large area. Ife was glad to see that the Council of the Society of Medical Officers of Health also considered that they should be attached to and should be appointed by the County Councils. He thought that would have the entire concurrence of their Committee. It was entirely in accordance with their traditions, and the only objection that could possibly be raised would be the objection of cost, and he did not think that would be any obstacle. Supposing there were 200 appointed and they were paid $£ 200,000$ a year, there would be little or no increased expenditure, with considerably increased efficiency.

Dr. Carpenter said those were the views which had been so often expressed by the Association at various times, and the time seemed to he at hand at which it would be right to urge those views upon the Government, especially in conaection with the Local Government Bill. Dr. Carpenter also called attention to suggestions made at a meeting held at Croydon, to consider the treatment of a medical officer at the hands of the Holborn Guardians, and suggested ther should be considered in connection with that matter.

A resolution was passed to the following effect:-
"That an endeavour be made to introduce into the Local Government Bill a clause attaching the medical officer of health to the new County Councils."

The subject was referred to the same subcommittee as that appointed to consider the Coroners Bill.

## SEVENTH GERMAN MEDICAL CONGRESS, HELD AT WIESBADEN. <br> [FROM OCR SPEGIAL CORRESPONDENT.]

Tur seventh German Medical Congress was opened by the President, Professor Leube (Fíirzburg), on April Oth. He gave a short historical view of the advance in medicine during the century, and pointed out that in future me must endeavour to find means of treatment corresponding to our progressing porers of diagnosis.
Treatment of Heart Disease.-Professor Oertel (Munich), whose method has attracted so much attention, both at home and abroad, since the cure of Prince Bismarck by Dr. Schweninger (hence falsely "Schreningercur"), opened the discussion on the trcatment of chronic diseases of the heart-muscle. After stating that, in his opinion, Stokes, who first introduced this method, had not found any followers, he said that it had first been employed in Germany by himself, with great success on a relative of his own, who suffered severely from weakness of the heart-muscle in 1875. During the following nine rears he endeavoured to gire a scientific basis to this mode of treatnent by experiment; on animals and obserrations on men, which are to be found in his book Therapie der Kreislauf Störungen. He had, horerer, reconsidered his position, and recognising that his
treatment was not equally suitable for all cases, he would exclude from it adranced atherema and grave incompetence of the heart-muscle, liy a combination of an appropriate diet
(animal food containing little water) und exercise obtained lyy the gradual ascent of mountains (Terraincur), he ebtained the following results: 1 , dimininution of the quantity of dluid in the body, and removal of the condition which he had termed "serous plethora:" 2 , oxidation of the fat; 3 , compensation between the arterinl and venous system ; 4, strengthening of the heart-muselc. The method hesaid ought not to be employed when the dyspncea was increased by it-and the flow of urine diminished.-Professer Licirtherm (Berne), his opponent in the discussion, denied the existence of a serous plethora, and cited the recent publications of Bamberger, and of one of his own pupils, showing that the relative amount of red corpuscles and sermm was a constant quatity. He considered the method only snited (although then rery effectual) for cases of fatty heart in persons of sedentary habit who lived high, and for the removal of dropsical swellings. The chief danger lay in acute dilatation of the ventricles; several of the cases of sudden death recorded were thus brought about.Dr. Kisch (Prague) mentioned that in enses of general obesity, with or without dropsical swellings, he had found that the proportion of red corpuseles was always constant.
Alcohol as a Remedy.-The discussion of the secend day on alcohol as a remedy was opened by l'rofessor Binz (Bonn), and Professer von Jakscie (Graz), who considered that recent observations had preved that alcohol was an excellent remedy in febrile diseases (diphtheria, typhoid fever), owing to the multiplicity of its effects in lowering the temperature, stimulating the heart's action, and diminishing metabolism. A healthy man, however, needed no alcohol.- Frofessor Nothnagel uttered a warning word belief employment of alcoliol in childood, and expressed the effects.
Prevention and Treatment of Cholera.-The third discussion was on the prevention and treatment of cholera. Dr. Pfeiffrar (Wiesbaden), who gave expression to contagionist views, without, however, bringing forward further evidence, agreed generally, with the results arrived at by the Vienna Cholera Conference. Prevention was to be effected by isolating the patient, and disinfecting every-
thing coming from him.-Professor CANTANI (Naples) spoke in German on the treatment of eholera. He confirmed the results laid down in his recent publications by new experiments on animals and new statistical material. The idea that tamin might prove potrerful originated in his mind from seeing that tanners were exempt from cholera in the recent epidemics. After expericlyster" (injection of 5 to 10 grammes tannic acid dissolved in 1 to 2 litres $38^{\circ}$ to $40^{\circ} \mathrm{C}$. warm water into the reetum) fulfilled the following three chief indications: (1) weakening and destruction of micro-organisms; ( 2 ) excretion of Brieger's ptomaine by the removal of anuria; (3) removal of the inspissated condition of the blood. Ile helieved that his injections reached the ileo-ceecal valve and even the stomach, for they were sometimes vomited. Ile warmly recommended also a 6 in 1,000 solution of chloride of sodium as a hypodernaic injection.-Drs. Heeppe and Buchner, both well-known bacteriologists, gave expression to the view that even the reeent epidemics had shown the existenec of what Pettenkofer called local and periodie influences. 'While considering the comma bacillus as the cause of the disease, they believed that We were jet far from recognising the whole etiology of cholera.I'rofessor Briwger mado some observations on choler ptomaines. -lor. Rosenau (Wieshaden) urged that the investigations brought forward by a large body of English and Indian epidemiologists, tion in Germany, Mentioning the recent Dilroy Lectures of SurgeonGeneral Lawson, he (Dr. Rosenau) thought it possible that by dust winds, so often experiencerl by ships at sea in tropical zones, which carry an immense amount of organic matter, cholera germs might be widely spread. As prophrlactie means ho would advise a enmbination of pepsine with muriatie acid.
(isophageal Cathetpr. - I'rofessor Lirmen (Berlin) showed a permanent catheter (Dauerande), resembling that of Symonds, for enses of stricture of the œesophasus. In one case of cancerons stricture the sound had remained during ten months without any altrration of tissue.
l'athology of Epilepsy.-Professor Binswataer (Jema) reported a new series of experiments confirming those made by Nothnagel foarteen years ago, and showing that epileptic fits might originate
from a centre in the medulla ollongata; both, however, agread with llughlings Jackson on the origin of the epilepsy from the motor area of the cortex.

Lanthelasma.-A very remarkable case was shown by Professor Leube (Würzburg), of general xanthelasma of the skin, where growths wero also met with in the aorta and the substance of the heart.

Local Ancesthesia and Local Ancsthetics.-Professor Liebreicis read a paper of high interest, demenstrating that the most heterogeneous substances, even distilled water, might produce amesthesia on rabbits when injected subcutaneously; this might serve as a caution against the toe ready acceptance of the recent experiments on erythrophleein.

Diagnosis of Ciastrie Diseases.- Professor Dehro (Dorpat) described a method of examining by percussion the area occupied by the stomach when fasting and when gradually dilaterl by measured quantities of water, which might prove, useful for the difficult differential diagnosis of atony and ectasia.
Pasteur's Prophylactic.-Professor Cantani reported a large number of experiments after Pasteur's method, which went to disprove the views of Professor von Frisch (Vienna), ile
showed that the poison of rabies might propagate itself along the course of the peripheral nerves in both centripetal and centififugal directions.

Many ather interesting papers were read and largely discussed. Some were shortly reported in the Journal of April Itth. The meetings lasted daily from 9 to 12.30 A.N., and from 3 to 5.30 P.M.
By a large majority Wiesbaden, the Queen of German wateringpiaces, was chosen as the place of the next meeting, in spite of a

ROYAL MEDICAL BENEVOLENT COLLEGE.
The twenty-fourth festival of this College was beld on Tuesday at the Hêtel Métropole, when about 300 guests assembled under the Presidency of the Right Ilon. the Lord Mayor. Amongst the guests were His Royal Highness the Duke of Cambridge, K.G.i Che Earl of Dartmouth; Sir A. Clark, Bart. ; Sir Trevor Lawrence, Bart., M.P.; sir E. 11. Siereking; Sir A. 'I. Watson. Bart., etc.
The usual loyal toasts having been duly honoured,
The Lond Maxor, in proposing the
The Reserve Maxor, in proposing the toast of "The Army, Nary, and Reserve Forces, said was on matter of necessity that the state of efficiency. It was not the place for him to mention the grent services rendered to the army by the Medical Staff, but they viers rendered in some cases with the most heroic devotion.
The Duke of Cambridgt, in responding to the tonst, said: Mly Lord layor and gentlemen, the Lord Mayor has done me the and Reserve Forces." I am always pront of "The Army, Nary, responding in a large assembly for tho serrices generally, and for my own service in particular. I believe that, as far as possible I mean that, as far as has suggested is at this moment the case efficient as they can he. But there is a difference in that, becnuse though the services are as eflicient as they can be as far as nos sible. I do not menn to imply by that that they are a efficient as they ought to be. We are a very powertul and a rery influential mation, and evers individual, whether should be, interested in the condition of those services, for it is a the power of this country that its prosperity must depend, an unless you have that power in these days always more or lea in a gatisfactory condition. This is the great question that is no occupying very much the public mind, but not.a bit more than believe me, it ought. "The fact is, we live in times of great did to foresee from day to day, I might anxiety. It is impmomen from hour to hour, what the next morning mas produce to us news from distant parts. It is not a moment in which shut our eyes to our own ospecial condition. We live in at a When ererything progresses most rapidly. Nobody is more ase of that than the large borly of scientific men which I am addres. ing on this occasion, and who know that in their own professie in a derg changes, everything progresses, everything advance have been thought impossible. 'But it is possible now, rou lino it, you appreciate, you see it, and aro obliged to deal with it whe the moment arrives; and just as in your profession these chang
improvements, and adrances take place, so it must be, and is, with other professions, and so is it with the great military profession of the army and navy, for which I hare at this moment the honour to respond. This is, perhaps not the occasion when 1 ought to indulge in my thoughts on this subject, but $f$ can assure you I feel so impressed with the importance and the anxieties which are anrrounding this subject, that I never like to get up and speak for these bervices without bringing to your notice what ought to be done, what might be done, what should be done, and what would be done if we look into this subject, whieh is not to be thought of or dealt with in a party spirit or a political spirit; for, to my mind, it has nothing on earth to do with politics whatever. What it has to do with is the existence of this grand country, which every one of you, here or elsewhere, is ready to defend with your life, if necessity arises. That being so, I nerer can shrink from bringing this to your notice in the most forcible manner that I can. Now, gentlemen, I have said my say as regards the special toast to which I have been called upon to respond, and I now will turn to the faet of my being here tonight, not in the chair, but most delighted to support the Lord Mayor, who, with that good taste which is conspicuous on these occasions in all the Lord Mayors of London, is always ready to come forward to do what he can for works of benevolent charity. Gentlemen, I am here to-night at your invitation, also, I hope, with your full concurrence. I think I may claim, to a certain extent, to have a right to be here in this respect, that there is a great affinity between the important-service that I represent and the great corporation which you represent here upon the present aceasion. The fact is that we army men could not exist without the medical service. I have always felt that most fully. I have alreys deplored the possibility of occasional little rubs and grieds, which I hope have now entirely passed away, and I sineerely trust that that cordiality and good feeling which ought to exist, and which I hope exists, between the military and naval professions and the great medical profession in all parts of this couutry is so strong that nothing possibly can shake it in the future. Well, now, gentlemen, when you come to isee what have seen, and what others have seen more than I have, of what military bervice is, I can assure you that if, it was not for the medical profession armies could not exist in the field. And not only in the field but even in daily life, in ourdaily arocations. If it was not for the great assistance that we have from the medical profession of the army, which emanates from the great colleges and medical schools which are so largely represented here tonight, it would be impossible to keep our forees in the condition in which they ought to be. Therefore, I think I have a right to claim that 1 , representing those services, may be assumed to have great sympathy for those institutions which are connected with the profession many of whose members I am at this moment addressing, and therefore 1 appreciate the compliment that has been paid to me in having been invited to support the Lord Mayor on the present occasion. Gentlemen, there can be no difference of opinion that in every profession there is need of help -l speak absolutely now of help not in a professional sense, but, 1 am sorry to say, in an economic sense; that is to say, there are members of every profeesion, who, by circumstances, either by death or accident, or some iveans, are not in a position to leave their families and friends able to look after themselves. Well. gentlemen, it is right that there should be great institutions, such as the one that we are assembled to support to-night, in which these incidents should be considered; and I am glad to think that there is a feeling of sympathy amongst medical men, as there is amongst all right-thinking professions, that one man ought to eupport the other when he is in difficulty. That has beeu the foundation, no doubt, of this institution, which, I believe, owed its origin to Mr. Propert, and the first Treasurer, the late Mr. Hancock. Now you are represented, by Dr. IIolman, and you have a most iniluential supporter in Dr. Jonson. It lias alno heen very much aided by the great liberality of Mr. Fry, and though there are many others. I think I have named suthicient :o show you that I have taken that interest in the institutiou which it is right that those who come to support it should appresiate and he ahle to give to those whom they are addressing. I can only assure you that I for one, and every member of my profession, have the greatest regarl and esteem for their medical iriends of the army. Sometimes it is said that we do not appreciate you, that there is no cordiality. I can assure you there is aothing of the sort, and if ever there is anything of the sort, tepend upon it there is some individuality in the matter which in
every land will occur, and which we all appreciate overy day that we exist. There is another point; we in the army are called upon to go to every portion of the world. We have great difficulties of climate to contend with, we have the adrantage and the knowledge and experience which you possess and which jou acquire in the medical profession in mitigating the clangers, the risks and the anxicties of military life in bad climates. There again we have your valuable assistance. As to war, I need not say that that carries with it its consequences: they are deplorable, but jet they are inevitable, and but for sou they would be detestable; your assistance enables, that to be passed orer with less distress, with less pain, with less anxiety than rould be the case otlerwise. 1 believe that there is no profession in the world so ready to do its duty, not only for the sake of its profession, but for the spread of humanity throughout the world. We have men like my friend Sir Joseph Fayrer and others, who have been in India, who have studied all those climatic differences that me hare to contend with, and who hare given us the benefit of their advice and assistance, and the consequence has been that we have passed through difficulties which other nations hare never been able correctly to face. All this justifies me in feeling that I am no intruder amongst. you; that the army is not an intruder amongst jou; and, as a result, I trust that the cordial feeling which I have endeavoured to express on this oceasion throughout the medieal profession is reciprocated, and will be more and more reciproeated year by year. In my opinion it is the bounden duty of every man, whaterer position he may fill, to try to bring together every element that can produce results beneficial to the great State to which we belong. It ought to be our bounden duty. I can assure you it is my anvious endeavour and desire always to try to be in accord with all my neighbours, under whatever circumstances I find them. I can only say that, if at any time there are differences, they certainly are not created by me, and I do my utmost on all such occasions to mitigate and to assuage, and to try to bring cordiality where there ought never to have been any question of anything else. These are the sentiments which I on my own part and on that of the army entertain towards this great profession; and, having that feeling, I could have no hesitation in at once coming forward and accepting with satisfaction the compliment that you have paid me, and I thank you ou the part of the army and of myself for the honour you hare done me on this occasion.
Sir Edward Sievering, in proposing the toast of "The Houses of Parliament,": Axpressed the debt of gratitude which all who Trere connected with the Medical College owed to Earl Manvers, its first president.
The Earl of Dartarouth, in responding for the House of Lords, claimed that, with any amendment of the House a gentle treatment would be preferable to more drastic treatment.
Sir Trefor Lawrence, M.P., on behalf of the House of Commons, expressed the belief that the House was doing its duty in a satisfactory manner. He was glad that a Medical Bill having been brought in year after year, the House had at last had the good sense to leare to the medical profession the management and settlement of its own affairs.

Mr. C. G. Wheelhoose: At the request of those who hare organised this banquet, I have been entrusted with the proposal of a toast which I know. you will. receive with enthusiasm. If I pass over those impolitic and illogical restrictions by which experimental research is hampered and hindered, I think I may yeuture to say, without fear of contradiction, that at no time and in no other country in the world hare the opportunities for the study of medicine and the allied sciences been more abundant or more perfect than they are in our own. Corered as each division of the kingdom is with ancient universities, ancient corporations, and great schools, deroted alike to the study and to the teaching of medicine, and flooded as the country is with zeal on all hands for the promotion of scientific knowledge, it would be marvellous indeed if British medicine and British surgery did not stand in the foremost rank all the world over; and, whether as pioncers or as practitioners of our profession, Great Britain may certainly point with pride and satisfaction to the achievements and reputation of her sons. And if we regard that reputation as it was iu ancient days, and only a generation or tro ago, aud as it is in these present times of ours, where are we to look for the springs and sources of its present improvement hut in the training insisted on by our great corporations? Without the guiding hands of our Colleges of Physicians and Surgeons, and of that most excellent and useful corporation the Society of Apothecaries.
on the books at the commencement of the quarter, gives a present a vailable membership of 855 . Neither of the two members whose deaths were notlfed during the quarter had effected life assurances with the Society.

The following is a-summary of the operations of the various funds:-

Sickness Fund.-The premium income of this fund has been $£ 1,22^{-2} 4 \mathrm{~s} .6 \mathrm{~d}$., ngainst $£ 1161 \mathrm{l} 8 \mathrm{~s}$. 10d. in the previous quarter, and $£ 1,09148,2 d$. in the corresponding quarter of last year. The expenditure for sickness pay is $£ 383 \mathrm{5s}$., as compared with $£ 423198$. in the preceding quarter, and £ $£ 387128$, in the corresponding period of last year. The number of members claiming is 30 , and the aggregate period of sickness, 115 weeks 6 days, an average of 3.86 weeks for each claimant. The number of claimants in the preceding quarter was 40 , and the aggregate sickness, 123 weeks 6 days, while in the corresponding quarter of 1887 there were 32 clamants, and an aggregate sickness period of 123 wceks 4 days. The claims, which are chiefly on account of affections of the throat and air-passages, include also 2 cases of fever, and 2 accidents. It will be noted the sickness rate continues below the average assumed in the data on which the tables were calculated, and, so far, has not shown the expected tendency to increase as the Society grows older. On the contrary, the ratio of sickness is less now than it was some time ago. If the expenditure be treated as a charge on income, it will be seen that this quarter the proportion is 0.302 of the total, while last quarter it amounted to 0.364 , and in the corresponding period of last jear to $0.3 \overline{5} 5$.

Annuity Fund.-The net preminm income to this fund is
$£ 6019 \mathrm{~s}$. 1 d . as compared with $£ 57418 \mathrm{~s}$, in the preceding quarter. From this the only expenditure is $£ 14$, the surrender ralue of a membership withdrawn. As a number of members will be entitled from March 31st, 1889, to have a proportion of their annuity premiums returned to their representatives in case of death before the age of 65, a larger expenditure from this fund may then be expected.

Life Assurance Fund.-The premium income to this fund has heen $£ 21613 \mathrm{~s}$. 4 d ., compared with $£ 2136 \mathrm{~s}$. Td. in the preceding quarter, and $£ 197$ 11s. 11d. in the corresponding period of 1837 There is an expenditure of $£ 200$ on acoount of the death of a member at Norwich, reported last quarter. Payment of this was delayed while the representatives procured letters of administration, and was made immediately on their having done so.

Management Fund.-There is an income to this fund of £256 4 s . 6 d . From this the expenditure for management, etc. for the quarter is $£ 972 s .2 d$., leaving nearly $£ 160$ to be added to the amount accumulated to the credit of the fund as the result of care and economy in the administration of the Society, and the honorary services rendered by the officers and the committees The defined and limited proportion of 10 per cent. of the premius income for management purposes has thus proved more than su ficient, the amount expended during the quarter under review being only $£ 315 \mathrm{~s}$. per cent.

General Position.-The position of the Society and the amoun standing to the credit of the various funds is now as follows

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sickness Fund |  |  |  |  |
| Annuity Fund ... |  | 8.428 |  |  |
| Life Assurance Fund | .. | 1,984 | 15 | 0 |
| Management Fund .... |  | 1,85 | 3 |  |
| Interest (not yet divided) |  | 145 | 3 |  |
|  |  | 22,602 | 10 |  |

This, the aggregate present worth of the Society, represents increase on the quarter of $£ 1,760 \mathrm{j8s} .10 \mathrm{~d}$., and on the year C6,594 18s. 3 d . Of the abore total, $£ 21,635$ 0s. 10.s. is invested the names of the trustees at an average, and a furthpr sum the remaining amount ( $£ 267$ 10s. 1d.), and a furthpr sum
fir 14 s ., to meet outstauding cheques, being with the Union lan fot lis., to ment outstauding cheques. berng ano cash balances eve remaining in the hands of any of the officers. The investmon are all of a trustworthy and seeure nature, and are here statard $\varepsilon$ the price actually paid for them by the Society. This, howeve is considerably under their true value, as the f5, $5: 33$ invester? saleable stocks with fluctunting values is, at the present pric worth nearly es $^{2} 00$ more than cost price, and this profit realised should a sale and reiusestment be thought adviso n capable of increase or depreciation in value.

## THE PROPOSED TAX ON PLEASURE HORSES.

The following letter has been forwarded to the Chancellor of the Exchequer from the Metropolitan Counties Branch

82, Brook Street, Grosvenor Square, London, W.,' April 17th. 1888.
To the Right IIon. G.J. Goschen, M.P.P., Chancellor of the Exchequer, etc.
Sir,-On behalf of this Branch, which includes upwards of one thousand members of the British Medical Association, we venture to draw your attention to the hardship which will be inflicted upon members of the medical profession, particularly those resident in conntry districts, whose work is of necessity largely unremunerative, if the proposed tax on pleasure horses be applied to those horses which are necessarily used by medical men in their daily avocations and practice. We, therefore, respectfully beg that you will take into your farourable consideration the justice and practicability of making an exception in favour of such horses so used.

We have the honour to be, Sir, your obedient servants,'
'1"1
(Signed)
arthuir e. Durham, President.
C. Brodie Sewell, President-elect.
Septimus W. Sibley, Hon. Treasurer.
Gedrge Eastes, $\}$ Honorary
Nohle Smith, $\}$ Secretaries.

The following petitions against the Horse Tax have been presented from proinclal medical men : By Sir J. Pease, from William Robinson', M. D., Stanhope; sy Sir W. Foster, from medical practitioners of Ripley, Derbyshire; by Sir J. Pease, from Reginald and Maurice Kcttlitz; by Mr. Rankio, from medical men a the Leominater Division of Herefordshire i,by Mr. E. . R. Wodelouse, from U. T. Biddulph Goss ; by Mr. C. W. Gray; from the medical profession of Brainree; by Viscount Newark', from Epperstone; by' Mr. W. Lowther, from Dr. Pairer, Hirkby-Stephen: by Mr. C. Hall, from the district medical ofticers of Jottenham, WtHiugham, and Swayesey; by Mr. L. Fry, from G. D. T. Willett nd others; by Mr. Morrison (2), from medical men ; by Mr. W. Sidebottom, rom medical practitioners at Hadfield; by Mr. F. B. Milldmay, from medical niceers of health of Plympton St. Mary Union; by Mr. H. J. Irotter, from meUlal men of Colchester and neighbourhood; by Mr. Hobhouse, from medical
nea, of Caatle Cary; and by Sir J. Whittaker Ellis, from Dr; George Cowen ned. of Catle Cary; and by Sir J. Whittaker Ellis
dso e petition fron the medical men.of Shrewsbury.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS

wy qualified medical practitioner, not disqualified by any by-law f the Association, who shall be recommended as eligible by any bree members, may be elected a member by the Council or by any ecognised Branch Council.
Meetings of the Council will be held on July 18th, and ctober 17th, 1888. Candidates for election by the Council of be Association must send in their forms of application to the leneral Secretary not later than twenty-one days before each reeting, namely, June 27 th, September 26th, and December 28th,

Candidates seeking election by a Branch Council should apply to ie Secretary of the Branch. No memher can be elected by a ranch Council unless his name has been inserted in the circular ammoning the meeting at which he seeks election.

Francis Fowre, General Secretary.
COLLECTIVE INVESTIGATION OF DISEASE.
ar Report upon the Connection of Disease with Habits of iteapperanof, which was presented to the Section of Medicine the Annual Mceting of 1887 will shortly be published in the Mrxal.
Reports upon the two remaining inquiries, namely, that into iphtheria, and that into the Grographical Distribution of brain Diseases, are in preparation, and will be published as on as ready.
The following inquiry only of the first series remains open, mely, that on the Etiology of Phthisis.
a fresh inquiry into the Oriain and Mode of Propagation of PDemics of Diphitheria has been issued.
Memoranda upon these subjects, and forms for recording observams, may be had on application to the Secretary of the Collective vestigation Conmittee, 499, Strand, W.C.

## BRANCH MEETINGS TO BE HELD.

North of Exgland Brasch. The spring meeting, will Le lield at the Iafirmary, Sunderland, on Wednesday, April 25th, at 3 P.M, Members intending to read papers or show specimens are requested to communicate at once with the secretary. "The dinner after the meeting will take place at the Queen's Hotel, at $50^{\circ}$ clock. The following papers are already promised:-Dr. Hume A Case of Congenital Fistula of the Stomach, Cured by Operation. Dr. Coley On the Treatment of Effusion into the Pleura In Children. Dr, Murphy A Man 229 Days after Gastrostomy. Dr. Oliver: Notes on an Ubusual Case of Aæmaturia. Mr. Morgan will move a hesolution on Quack Adsertisementa. Mr. Itutherford Jiorisoun will read Nutes of two cases of Gall-Stones : (1) Operation on Dilated Gall-Bladder: Remoral of Stones: Drainage: Cure, (2) Abdoninal Section for Intestinal Obstriction: Discoverr of Gall-Stone, Inclsion and Sutore of Intestine and Removal of Stone, Specimens exhibited. Mr Morgan will show (1) a Girl disfigured by Cancrura Oris; (2) specimens from a case of Tabercular Peritonitis simulating Cystic Disease of the Orarr. D1. Drummond will exhibit some Pathological specimens. Dr. Lindsay will ahow a patient suftering from Paralysis Agitana.*G. F. Williamsox, F.R.C.S., 2? Eldon Square, Newcastle-on-Tyne, Honorary Secretary

Border Colftirs Branch.-The sping neeting of this Branch will be held at Cockermouth on Friday, Hay 4 th. The chair will be taken by Dr. Seleod. at 3.15 p.M. The following papers will be read: Dr. Campbell (Garlands): On Three Cases of Recovery after a Lengthened Duration of Insanity, with remarks. Dr. Highet (Workington) : Notes on a Case of Puerperal Eelampsla. Dr. Biach (Keswick) : Notes on a Case of Suppurative Peritonitis. Dr. Highet will open a discussion on the subject of Fees Paid to Witnesses. The Secretary will be glad to receive intimation of papers for readlng or specimens fur showing prior to the 2-th.-H. A. Lediard, 43, Lowther Stréet,' Carilisle, Hogorary Secretary.

Sotte-Eastery Braxce: West Kevt District.-The next meeting of this District will be held at the Hospital, Gravesend, on Friday, April 27 th, at 4 P.M. R. J. Bryden, Esq., in the chair. The dinner will take place at the New Falcon Hotel at 6.30 P.M.; charge 6s. bid., exclusive of wine. Gentlemen tho intend to dine are particularly requested to signify their intention to the Chairman. R. J. Bryden, Esq., 21. Harmer Street, Gravesend, not later than April 25th Papers atready promised:-Dr.'P. Horrocks: On Puerperal Fever. Dr. Tanna-
hill: On Symmetrical Gangrene. All members of the Sonth-Eaistern. Branch, are entitled to attend this meeting and to introduce friends.-A. W. Navbivenk, F.R.C.S., St. Bartholomew's Mospital, Chatham, Monorary Secretary".

Oxford and Distaict Branch. - The next meeting will be held at the Radeliffe Intirmary, Oxford, on Friday, April 27th, at. 3 P.s. Notice of papers to be read must be sent to W. Lewis Morgan, 42, Broad "Street, Oxford, on or before Aprll 18th. A dinner will be provided for those members who sigoify or before Aprll isth. A dinner will be provided for those members who siguify Darbishire and W. Lewls Morgay, Honotary Secretaries.

Southern Bravce: lskf of Wight District.-Annual meeting. Pelfis Hotel, Ryde, Thursday, April 26th, 1858, at 4 P.M. J. M. Willianson, Esq., M.D., President, In the chair. Proposed new district member, Edward Fawcett M.D.Dub., M.Ch., East Cowes, Agenda: 1. The President : Report of the proceedings of the District during the past year. 2. Election of ofticers and statement of accounts. 3. Next place of meeting. 4. T. A. Buck, M.B. An address by the President-elect at 4.45 P.M. 5. Charles Frrer, Esq. : Cerebral Aneurtsm Gentlemen who are desirous of latroducing patieats, exhibiting palhological speeimens, or making communications, are requested to siguify their intention at once to the Honorary Secretary. Dinner at 5.45 P.a. ; eharge os., exclusive of wine. Please return postcard Lefore Tuesday, 2th. Trains leave Ryde for of wine. Please return postcard belore Tuesday, 24th. Trains leave Ryde or
Sandown, Shanklin, and Ventnor at 7.45 ; and for Newport at 7.41 . [By-law.When a member cannot attend whose paper is upon the ageuda, it. should be sent hefore the meetiag to the Secretary for the purpose of being read and dis-eussed.]-W. E. Greex. Honorary Seeretary.

## WEST SOMERSET BRANCH: SPRING MEETING.

The spring meeting of this Branch was held at the Railway Hotel, Taunton, on Thursday, April 12th, at 5 p.M. In the absence of Mr. Edward Stephens, the 'resident, who was professionally prevented from attending. Mr. J. B. Sincock was voted to the chair. The minutes of the last meeting were read and confirmed.

Cases.-Mr. W. B. Cosexs exhibited a man suffering from Charcot's disease of the kuee-joint, and gave a listory of the case.-An infant, a year old, suffering from blindness after conrulsions, was sent by Mr. Stephexs and seen by the meeting.
Instruments. Mr. Wran (Taunton) exhibited some instrments and an electric light for surgical purposes.-Messrs. Lxach and Co., London, also exhibited an assortment of surgical instruments.
Bone-setting.-After dinner, at which fiftcen members and tive visitors attended, Mr. W. J. Pesny, of Bristol, opened a discussion on the subject of bone-setting. He described the various affections which were often successfully treated by bone-setters, and by means of drawings and the narrative of typical cases he showed that, for the most part, the pathological condition existing in these affections was that of adhesions in and about joints, by the forcible rupture of which a sensation was given as if a bone which was out of place had been reduced. He pointed out that this practice was much neglected by the profession, and, in conse.
quence, many cases were cured by quacks to the discredit and disadiantage of medieal men. He pointed eut that the proper cases were healthy subjects, who some months before had sustained an injury, learing them with a stiffencd joint; in such cases the part was usually colder than normal, and there was a good deal of spasm. Cases of a strumous or syphilitic diathesis reyuired great caution in being treated, and, as a rule, were best left alone. The subject was discussed by the members and visitors present, and Mr. Penny replied.

Fote of Thanks.-A hearty rote of thanks was given to 3 fr. Pemy for his interesting and instructive paper.
Specimens.-Mr. Linnon exhibited a specimen of Epithelioma of the Tongue, which he bad removed by splitting the tongue in the middle line, and removing each half geparately with the ecraseur. The patient made a good recovery, and could talk fairly well : but now, five months after the operation, there were aigns of recurrence. Mr. Liddon also exhibited a specimen of a very large Uterine Pelypus which he had removed from a middle-aged unmarried woman.-Mr. W. B. Cosens exhibited a specimen of Fractured Femur amputated after a gunshot injury.

## SPECIAL CORRESPONDENCE.

## BERLIN.

[FROM OUR OWN CORRESPONDENT.]
The Illness of the Emperor.-The German Einperor and Sir Morell Mackenzie.
Tue disease from which the Emperor is suffering has, I am sorry to aay, made further progress during the laat few days. Increased difficulty of breathing suddenly came on. On removing the cannula, Sir Morell Mackenzie made a laryngoscopic examination, and "observed that the disease had extended downwards into the trachea, so that the tube had become too short. It is ene of the special features of this singular case, that after long pauses the tumour suddenly begins to grow again with great rapidity. Where even the day before the lnmen of the trachea was distinctly aeen to be quite free, it was nown blocked by a large mass. It was necessary therefore to introduce a longer tube. Sir Morell Mackenzie sent a mounted messenger for Professor von Bergmann, Who immediately proceeded to Charlottenburg. Professor von bergmann aucceeded in intredncing the new tube, and the dyspnoea was reliered. The most remarkable part of the whole matter is, that the
worse the local symptoms are, the better His Majesty seems to Worse the local symptoms are, the butter lise (t) give up his daily
fecl. Ile still (April 13th) absolutely refuse to walks and excursions.

Sir Morell Mackenzie's professional brethren, not only at home but in the colonies and in America, where he has numerous frienda and pupils, cannot fail to be gratified by the confidence placed in him by the Emperor Frederick, and by the extraordinarily warm appreciation of the English physician's services which His Jlajesty has expressed both by word and deed. In conferring en Sir Morell Mackenzie the honours and decorations which he has so well earned, the Limperor added immensely to their ralue by a letter written with his own hand, of which the following is the full text:

## "Charlottenbarg, April sth, 1888.

- My dear Sir Morell.- You were called In to me at the unanimous desire of my Greman ilcetors who were treating me. As I ilid not know you perbonally 1 had contidence in you in consequence of that recommendation, but soort 1 had contidmere in from personal experienep how to value yon. 'You lave rendered me lenrned trom persmat exper recognition of these services, and as a souvemir of most valuable services. In resognition of thesenfering upon you the Comthur my accession to the throne, I have plasure in confering upon will disposed Crosy and Star of my liogal Order of IIohenzollem,-10ur wetl "Ehifnater. "To sir Morell Markenzie."
One dons not need te "read between the lines" of this letter to perceive its significance. The first sentence fully disposes of various mythical accounts of the way in which Sir Morell Mackenzie was called in to the case which have been current in the profession and in society. Hefore subjecting the heir to the lmperial Crown of Germany to a formidable operation-which might jossibly be attended with disastrous conspquences, not only to the angust patient but to the whole of Earope-Professor von Bergmann natarally wished to have the ganction of an expert whose authority would bo gencrally recognised. The choice lay between the leading Einglish laryngologist and Professor Rancifuss, of.St. Petersburg, and the former was selected, as the Emperor says, "at the unanimous desire of my German doctors.". The concluding words in which the Emperor speaka of his acces-
sion to the throne prove beyond all donbt that His Majesty believes that it is to Sir Morell Mackenzie's "masterly inactivity"
that he owes his present pesition, with all that it involves. We are pleased to see that the people of Germany are beginaing to judge Sir Morell Mackenzie's conduct of a most difticult and anxious case in a fairer spirit than some persons there reemed at first inclined to do.


## SHEFFIELD.

Decline of the Small-pox' Epidentic. New Wards at the Children Hospital.-Donations.
It is gratifying to notice that the small-pox epidemic, which for 8o long has hung over this, town, and has serionsly interfered with trade, is now fast, declining. The number of cases admitted to the borough hospital and to the two workhouse hospitals is greatly lessened. In March the number admitted to the borough hospital was 790 , whilst in February there were $1,26 t$. The
present month has thus far shown still reater rednction, it was predicted, that the effect of the numerous revaccinations wonld begin to tell about the middle of March, and such has been the case. The public spirit and"energy with which the public vaccinatora undertook their greatly increased and, in some instances, very arduous labours is worthy of all praise.

The new wards, at the Cbildren's Ilospital were opened on April 5 th by Lady Alice Fitzwilliam, in the presence of a large and influential gatbering. Beds have hitherto only existed for 14 patients, but in future there will be accommodation for 34 little aufferers. On the ground fleor of the new building are two wards, each 40 feet by 21 feet, and containing between them 30 beds. On the upper floor is an operating theatre and a-small ward for 4 beds. The total cost, inclusive of alterations in adapting the old building tor administrative purposes and out-patients, is aboul £2,000. The medical staff and the subscribers may be well con gratulated on the success that, has attended their efforts to add th the comfort of the little patienta, and the usefulness of thi charity.
The Committee of the Sheffield and ILallamshire Football Asso ciation has handed over the following donations to the Sheffiel medical charities: General Infirmary, £50; Public Hospital an Dispensary, £40; Jessop ILospital for Women, £25; Nurses' IIom
£5.-Mrs. William Cutts. the danghter of a former resident a E.-Mrs. William Cutts, the/danghter of a rorn funds of the Beckett Hospital.

## CORRESPONDENCE.

TIIE HORSE TAX

- Sir,-Acting on your advice, I have obtnined the signatures nearly all the medical men in this district' to a petition acgain the horse and carriage tax, which the Hon. Gathorne Hardy promised to present before Parliament. I would advise medic men still to petition, so that as the Bill comes on in Commlttee strong feeling may be shown by the medical profession again the tax.

A simple plan to get signatures is to send the petition to 0 medical man, asking him to get those in his neighbourhood sign, and post it on to another to do the same, and so on:-1 a etc.,
Ilayward's Heath,
PERICIIONDRITIS AND CANCER OF THE LARYNX.
Sir,-Dr. Norris Wolfenden, in his paper en perichendritis the larynx published in the Jcurnat of April 14th, sbys: second case of extensive perichondritis of the larynx has occur in my practice recently, arising out of chronic laryngitis, and which there was no question of syphilis.' In this case the cric cartilage was extensively affected and formed a large abscess
ternally, on opening which a large quantity of sero-sanguine ternally, on oped ont. The stenosis of the laryax was extra
fluid was poured fluid was poured out. heen performed many months hefore I the case hy a surgeon at the Cape of Good Hope."

It being arowedly the object of Dr. Wolfenden's paper to cor the opinions generally held on the etiology of laryngeal perich dritis, I consider it, in the interest of acientific truth, my dut, atate that the above-quoted case is not well chosen for suppor
his views. The patient in question, whe is at this moment an inmate of St. Themas's Ilospital under the care of Sir William Hac Cormac and myself, suffers beyond doubt from laryngeal cancer; and this disease, not chronic laryngitis, has caused the perichondritis. What Dr. Wolfenden censidered to be a large alscess and incised was tumour-mass spreading externally. Hence no pus, but sero-sanguineous fluid, was poured out. The incision wound nerer healed, the tumefaction rapidly spread, and at this moment the tracheal tube is sticking in an utcerating mass of cancer. A fragment of this mass has been removed for the purpose of microscopic examination, and the latter, made by Mr. Shattock, has placed the diagnosis of carcinoma beyond dispute. I am ready to give Dr. Wolfenden the oppertunity of personally verifying the actual state of matters. -1 am, etc.,
39, îimpole Street.

## ST. JOHN'S HOSPITAL.

Sme,-I will ask you to give me space for the following facts respecting the behaviour of the Board of Management of St.John's Hospital for Diseases of the Skin. Since my connection with the institution I have taken, or have dictated, notes of every case which carme before me. After my dismissal by the Board of Management, I wrote to these in anthority and asked them to let me have these notes, offering at the same time to defray the expenses incurred by purchasing new books. To this request I received a peremptory refusal from the secretary. I wrote again, asking that some of the netes, which I was anxious to refer to, might be copied by the gentleman (Mr. Jones) who was acting as clinical clerk at the time of.my elimination. The answer I received was, that I might send Mr. Jenes to select those cases I was anxious to refer to, but they must be copied by an official of the Hospital, for whose services I was to pay. I appealed against this vexatious decision, and in reply received an impertinent letter from the secretary.
I make it a rule of my life not to complain, but surely the facts which 1 have stated must demonstrate the harshness of the treatment which the Board of Management mete out, and when we remember that on this Board sit two members of our own profession, Mr. Melton and Dr. Dow, I hope 1 shall be censidered to be justified in bringing this before the profession.

It is most irritating to hare the labour of some years snatched awray from ns: it is doubly irritating to knew that those who must ralise the full ralue of that labour should be instrumental in supporting the conduct of those whese action might be put down to metires which I do not care to find in my vocabulary.-
am. etc.,
t. Robinson, m.d.

9, Princes Street, Cavendish Square, W.
Sur,--Pray allow me to correct an inaccuracy in an annotation publislied in the Joirrnal on April 14th. It is not in accordance with fact that "charges were brought against the alministration of St. John's Hospital, following upen rarious secessious in the staff:" Such a loose version of what really occurred is not fair to myself and my colleagues, who were the first to bring those charges to the notice of the governors, the president, and finally the public; and who, for thus doing our daty as lonourable men, were vindictively dismissed by a Board, whose behaviour, beth before and since, has amply proved that we were right in prolesting as we did.- 1 I an, , etc., $\quad$ C. M. CAMPBETL, M.D. 37, Queen Anne Street, Cavendish Square, $\mathbf{W}$.
braxci practices in cilarge of unqualified men. Sir,-It is hoped that the General. Medical Council will letively enforce their momorandum in regard to the employment If unqualified assistants; and net, as has hitherto been the case, Llow it to remain practically a dead letter. The memornadum uppears to me to be rather vague, and to afford many a loophole of ssape fer the delinquent.
In Section C it is stated that irregular practice will probably lot long continue to exist, because the practitioner cannot reoover or services rendered by his nnqualified substitute; this argument ifallacious, inasmuch as these gentry take pretty good eare to nsure ready money, A censure, pure and simple, even from the tencral Medical Council, will mean nothing whatever to many ffenders unless followed up by more active measures. Who cares
or a censure? As far as I have been able to gather, the General or a censure? Ats far as I have been able to gather, the General
Iedical Council have as yet only struck off the Register those who ad already been convicted by a jury-there is nothing at all wonerful in that. What we want thom to do is to go a step further -to judge and to punish those who are guilty of professienal mis-
conduct. The law provides fer those who offend against public morality.
I believe the Incerporated Law Society has power to strike off the rolls any of their members who are guilty solely and simply of professienal irregularities, and by no means infrequently make use of their power. Let the General Medical Council do the same if they have the power; if they have not, it is quite time they took means to procure it, in order to rid the profession of the great blot that we all know exista in our midst.
The General Medical Council must do their own "dirty work," for they cannot, for obvious reasons, expect a medical man to take the initiative against an offending brother. Many of us, no doubt, know ef cases ef irregular practice; but if we take the " law into our own hands," we immediately incur the slur of private malice and prefessional jealeusy. Besides, individually, the "game would not be worth the candle."
If the General Medical Council will only follow up their words by action (on information received, or otherwise), they would gain the great thanks of the profession-be respected and revered, a veritable Alma Mater, which they ought to be At present one hardly knows what they exist for-- 1 am , etc.,

Walter Fowler, M.'., M.B., F.R.C.S.

## 145, Bishepsgate Without.

## COMPULSORY NOTIFICATION OF INFECTIOUS DISEASES.

Sir,-Dr. Philpet's letter dees not touch the points which are raised in mine, except so far that he accepts a responsibility for which I did not give him credit, and which I even now think that he has done chivalrously and not instinctively.
How can he reconcile his duty with his acts? He puts a clause of an Act of Parliament in force against one delinquent witheut having been able to show the least ill consequences from the "lâches," while he allows the 999 other persons, who, as a class, altogether ignore the previsions of the Act, to escape; be condenes their disobedience to law, and makes the dual notification a farce. Infections disease can enly be stamped out by the peeple themselves, yet Dr. Philpot and the' supporters of the dual notification clause are publicly telling them that, in spite of the Act of Parliament, it is a matter with which they have nothing to do, that it is the doctor who has to do all. By what right can he prosecute a professional brother and yet allow the whole class of nen-professional persons who ought to notify to ignore the Act and neglect its provisions? He shows that it is not from a desire to compel a compliance with its provisions, otherwise he would he impartial. He is satisfied with a single notification, he prores. by his own habit that a single netification is sufficient, then on what ground can he claim a right to presecute a professienal brother, and not take note of the whole class of non-professienal delinquents? The law is no respecter of persons, but Dr. Philpot singles out his professional brother and lets the rest alone. If there is a duty cast upon Dr. Philpot then he has failed to do it,
for dual notitication is not enforced. Dr. Philpot cannot show for dual noticication is not enforced. Dr. Philpot cannot show that dual notification is efficient in stamping out scarlatina; it is not diminished in one town mere than another. The Act is nowhere in existence as a dual performance; medical notification is as beneficial when reluntary as it is when it is compulsory, provided a fee is paid for the notice. The cases are at times is numereus in all districts as before notification was observed. The house in question had been disinfected by Dr. Philpot's agents after notice, immediately before the case occurred, about which Dr. Philpot has taken action.
Dees Dr. Philpot or anybody else suppose that a 40 s . penalty will overceme a man's determination to remain a free agent? Dr. Dalton is not likely to change his condnct at the bidding of a professional rival; he will continue to ignore the Act, and until medical officers of health are prohibited from being in private practice such action as that taken by Dr. Philpot ought not to be. I am not intending to charge Dr. Philpot with having taken this course on account of professional jealousy ; it is not his nature, of that 1 am assured : but it is open to the charge, and it is a false mere on his part which all medical men must regret that he has made.
It will he soon enough to put the penal clanse in ferce against the profession when it can be fairly shown that repression cannot be forthcoming without it. ,This has not hitherto been done.-1 am, etc.,
Duppas IIouse, Creydon, April 16th.
** Ouing to pressure on our space, several long letters are un-
avoidably held over.

## NaVAL AND MILITARY MEDICAL SERVICES.

CHINGES OF STATION.

Ture following changes of station among the officers of the Medical Staff of the Army have been oflicially notitied as having taken place during the jast month:-

Brigude-Surgeon J. Jameson, M.D. Surgeon-M ojor T. S. MacAdam W. 11. Clino, Mi.D.
J. Flemlng, M.. T. Babington J. I. M. Hoileat. M. B. J. G. W'illiamson W. J. Charlton W. A. May

Surgeon 3. K. IRyan, M. D. 31. R. Man,
J. G. MarNer
Jeec J. G. MacNeece
F. H. Marker, M.B
T. Dorman, M.D.
T. B. Moftitt.
C. A. Webb
J. G. S. Lewis

If. Martin, M.B.
R. O. Cusack.
F. F. Smith .

Fi. D. A. Cowen S. J. Flood
Q. W. Robinson
G. F. A. Smythe

1. P. O'Contror
J. M'M. Bolster
M. J. Macnamara, M.i).
J.O. G.Sandiford, M.I.
H. W. Murtay, M.B.
M. W. Keria.
A. Peterkin, MI.B.
W. lleffernan
J. G. W. Crotta
A. P. Hart, M.B
A. P. Hart, M.B.
G. Coutts, गI.B.
E. Butt
S. Townsend, М. Г
J. Gibson, M.B
L. W. Swabey
J. Porter, M.B.
J. W. Beatty, M. D
W. Brbtie, IL.B.
J. M'Laughlin, M.D

WV. L. Reade.
F.T. Wilkinson S. F. Longheed F. W. Reid, M. 3 F. W. Reid, M.B. T. W. O'H. Hamilton, M. B G. M. Dobson, M.B. F. J. W. Stoney


## THE NAVY

TEE following appointments have been made at the Admlralty: S. W. VasEy. Surgeon to Griton temporarilv. Garlavi W. L. Harbison, Fleet-Surreon, to Bive It Mapiv. Fleet-Surgeon, to the Boadicea: BREN P.S. M'DERNOKT, Flect-Surgeon, to the Britanna, aduitional EDWARD J. Szaroon Fleet-Surgeon, to the Sulian. Charlis W. MaGrane, Staff-Surgeon, to the finpregnable: RicEard D. White, Staff-Surgeon, to the Duncan; JichaEl. Fitzorraind, Stafl-Surgeon, to the Stoiftsure: HENRY HarRifs, Surgeod, to the Roadice; Charles F. NEwLaND, Surgeon, to the Calypso; feod, to the Roadicec; Crarles F. Pevs, Surgeons, to the Suciflsure.

THE MEDICAT STAFF
THE following appolntments have becn made in the Madras command: Brgade-Surgeon J. Y. Dosinoson, M.D., to be Senior Nedleal Officer, Bellary station hospltal; Surgeon-Major J. A. Smitr, to do duty at the atation hosplal, Bellary; Surgeon J. Asiverson, M.B., to do general duty in the Eastern district: Surieon P. J. Nirazos, A.D., to do duty at the gtation hospital district; Surgeon P. Surgeon J. Doneoan to do duty at the station hospital, Belganm.
Bellary: Surgeon J. F. Doneaan to do duty at Bembay command, Is appointed Brigade-Surgeon W. GRaVEs, gerving io the Bombay
o the medlen charge of the station hospital at Mhow. Surgeon W. G. Birreil, also serving in the Bombay command, liavinge re
urnedfrom tield gervice in Burmah, is posted to general duty in the Presidency turneifrom dield gervice in Burmah, is posted to general cinty in the Presifency district.
Tho undermentioned gentlemen, who are aerving in Bengal, have leave of absence as apeclfled: Surgeon-Major T. O'FARRELL, for alx months on urgent urisate affalrg Surveon-7sjor R. F. BuCHABAN, on private affalrs, pending retlrement from the service ; and Surgeon If. C. Dest aod C. O'DoNkL each for utr months on medical certificate.
Surgeon-Major $O^{\prime}$ Donovis died in Dublin on the 13 th ultimo. He entered the Service as Aabistant-Surgeon. July 14 th, 1854 ; and became Surgeon, August the Service as Aabistant-surgeon, Diber 21st, 1879. He was in medical charge of 6th, 1807 : retiriag on half pay, October $21 s t, 1879$. He was in medical charge of the Sfll Regiment during the burning of the atean transport sarah sanas at sea, on November Ilth, 1857. He alao Berved nit
Loatle Indians of Yucatan, in April and May, 1881.

## THE INDIAN MEDICAL SERTICE.

SURGEON-MAJOR G. IIfTCHFsov, M.D. Bongal Hstablishment, is appolnted oftichate a Statistical Ontecr to the Governnent of India in the Sanitary and Wilkle, M. 13 .
Brigade-Surgeon E. Bosavia, II.D., Bengal Establlahmeut, has been jurmiled to retine from the service, which he entered as Assistant-Surpenu. iughst Enigade-Surgeon, January 17th, 1885, Ite 4th, 1851 ; he attai
The undermentioned gentlemen, all of the Bengal Fstabllshment, have been ap nointed to the ofielating medicat charge of the regiments named :-Surgeon is. fimilton, 5th Bengal Cavalry, vice Surgeon- Major G. S. A. Ranking, M. U., appointed officiating Medieal Storekeeper at. Caleutta; Surgeon W. Ir. Clakk, oth Benual Cavalry
 M.D., ranted leare: Surgeon A. WV. Jawsos, M.B., $18 t h$ Bengal Lancerg, vice Surgeon-Major G. Grifith, gransfered civil employ; Surgeon A. C. Younak Surgeon-irjor G. Infantrv, vice Sierred to crigur, M. D. ordered on field M.B., 4th Bengal Infamry, vice Surgeon T. Gramger, Light Infantry wicu Sur sersice; Surgeon W. H. B. Robissos, 43rd Goorkha Light Iniantry vice Sur geon-Major K. M. Downie,
the 2ath Punjab lnfantry. Surgeon-General J. Pink ERTON, M.D., of the Bom
The promotion of Deputy Surgeon-General J. Pink erton, Brigade-Surgeon P. S. bsy. Establishment, to be Surgeon-Generablishment, to be Deputy Surgeon-
 General, already announced in this JOURNAL, havereceived the appronal oi The undermentioned gentlemen hase leave of absence for the periods apee fied:-Surgeon R.J. Marks, Bengal Establishment, for Fiblishment, Oph fied :-Surgeon c . certifcate; Surgeon-jajor , of Ophthalmic Surgery. Medical College, Cal cutta, for $2+5$ days on private affairs

THE VOLUNTEERS.
Messrs. Samutel Beattife M. B., and David Aeting Surgeons to the 1 st Forfar Artillery. hr. D. R, Reks is appointed Ast Brecknockshire).
Hon Honshre Regiment (late the lst Lincoln), has resigned his commission, which waa dated May llth, 1880.

FXAMINATION OF VOLUNTEER SURGEONS.
. Can vou kisdly inform me what the exambation for pro SURORON wrolunteer surgeon consists of? When and where are such examina ticiency vol
tions held?

* See Proficiency Examination Ior Yolunteer Officers, Journal, Jume th 1887, and Yolunteer Regulations, 188:, Part I, Sectlon II, para. 144.


## MEDICO-PARLIAMENTARY,

## HOUSE OF LORDS.-Monday, April 16th.

Smoke Abatement.-Lord Stratheden and Campbell pr sented a Bill for the abatement of smoke in the metropolis. was, he said, the same Bill as that of last year, with some modi fications suggested by the report of the Select Committee on th subject.-The Bill was read a first time.

HOUSE OF COMMONS.-Thursday, April 12th.
The Leasing Powers of Sanitary Authorities.-Mr. Ritcure, i answer to Mr. Cozens-Hardy, stated that a sanitary authorit could not compulsorily acquire land upon lease instead of pul chasing the fee simple; and for the reasons which were stated the debate which arose on this question when the Allotments Bi was in Committee, it was not the intention of the Government introduce a Bill conferring this power on sanitary authorities.

Honorary Surgeons to the Viceroy.-Sir G. Hunter asked tl SEcretary of State for India whether honorary surgeons the Viceroy of India had been prohibited from wearing the aigu lette heretofore used by them.-Sir J. Gonst replied that, und the dress regulations of the army, honorary surgeons to $t$ Viceroy had no authority to wear such a decoration. If they h been in the habit of so doing, it had been an irregularity.

## Friday, April 18th.

Local Government Bill.-Sir Lion Playfarr, in the course a long speech, in the discussion on this Bill, said he was anxio that the President of the Local Gorernment Board should ec sider carefully whether the clauses of the Bill dealing with sal the acts of the sufficiently preserved the controling powers on the acts of the District Councils, which the existing law gavi he suggested that they should be servants of the County Counc and not of District Councils. The moment that was done, County Councils would soon be able to consolidate areas; and would make that compulsory upon them. The beneficial res would be to bring County Councils into touch with the com
nent District Councils. That could not be accomplished as the Bill stood. He fancied that hy a single clause considerable improvement might be effected in the measure. At present about 1,200 medical officers were employed throughout England, with :alaries amounting in the aggregate to $£ 130,000$. But if, instead of the 1,200 , something like 180 medical officers were appointed in zonsolidated areas, onitting the sclieduled towns, immensely vetter results would be obtained without any extra expensé. Uness medical intelligence were brought to the aid of the County -ouncils in the way he suggested, public health would largely leteriorate, instead of improving. Sanitary science had given enornous benefits in preventing deaths, and in keeping up the living n health and productive ability. Diseases which formerly pre-
cailed in this country had almost disappeared since the adrance of anitary science.

Monday, April 16th.
Burgh Police and Mealth (Scotland) Bill.-The Lord Advocate nored the second reading of this Bill with a riew to its being reerred to a Select Committee.-Mr. Buchanay asked whetler the ommittee would be composed wholly of Scotch members, and vhether the large towns at present mentioned in the Bill as dlaces which woutd be exempted from its operations were really a be exempted. -The Lord Adrocate replied that the Comuittee veuld consist largely, but not exclusively, of Scotch members. t would be contrary to nisage to nominate only Scotch members a the Committee. To the second question of the hon. member he eplied in the affirmative.-The Bill was then read a second time od ordered to be referred to a Select Committee.
Sale of Foreign as Einglish Meat.-Sir Michael Micks-Beach, reply to Dr. Ccark, said he believed, although he could not ive an anthoritative opinion, that the sale of foreign meat as inglish when English meat was demanded was an offence under ection 6 of the Sale of Food and Drugs Act, 1875.

## Tuesday, April $1 \%$ th.

The Public Safety and Theatres.-Mr. Tatton Egertor moved he second reading of the Metropolitan Board of Works (Theatres) iill, the object of which was to continue to the Board the powers iven to them in reference to theatres.-Mr. Dixos-Hartland noved the rejection of the Bill, mainly on the ground that the oard was threatened with extinction by the Local Government ill.-Mr. Mattuers took the same view, and, after a short conersation, the Bill was thrown out by 144 to 18.
The Medical Staff Corps.-Dr. CLark asked the Secretary of tate for War whether the new general order restricting the enstment of men for the Medical Staff C'orps to three years' army ad nine years' reserve service had been considered or approved $y$ the Director-General; and whether he had considered that the sult of the new regulations might be that the men of the corps -ould scarcely have become skilled in their nursing duties as rderlies when they would he remored and replaced by raw, uncilled men.-Mr. E.. Staxhope, in reply, said every army order ns issined on the responsibility of the secretary of State after msultation with his professional adrisers. The importance of aving a large reserve of trained men of the Medical Staff Corps railable io war time was so great that the disadrantage of a wewhat curtailed training must be faced.
Irish Prison Surgenms.-Mr. Mraphy asked whether the Irish rison Regulations (Rule 10.5) provided that the ourgeon might, in ise of danger or difficulty, call in medical assistance: whether lere was anything in the rules to limit the discretion of the sur:on in selecting the medical assistance he would call in: whether circular had been sent from the Irish Prisons Board to governors gnols requiring thm to submit a list of names of medical netitioners whom they might consider suitable in their disicts for the purpose of heing called in consultation; and whether le Prisons Board weee jnstified in attempting to fetter the disetion of the prison surgenns in this matter.--Mr. A. I. Balfoct plied that the rule was as stated, and a circular had been issued mentionel. The appointment of medical officers of prisons renired the sanction of the anthorities, and it seemed to him to be rtainly within the spirit of the rules that some effective conol should be exercised as to the election of consulting physians.
The Architects' Registration Rill.-Cnlonel Duscan, in moring e second reading of this Bill, said that its principal oljeect whas throw olstacles in the way of impreper and unqualitied perns acting as architects.-Sir W. FosTer asked the House not to cept the second reading withont haring more information upon
the subject.-Sir L. Playparr said that the Bill was drawn exactly in accordance with the Medical Act, 1886. It was only after consultation with all the examining bodies and the practitioners that he was able to get sufficient support to pass such an Act. The Bill now before the House was framed on exactly the same principle - that was to say, there were certain qualified bodies who were to go upon the General Council. Then there were to be certain representative members elected for the three parts of the kingdom. But who were the representatives in this case? There were no regularly qualified and registered people who could become representatives at the present moment. They were to be constituted by the Bill. The architects, and engineers, and suryeyors were not at present identical, and the Ilouse could not in justice pass a Bill which met with so much opposition as this Bill did, and which was not founded upon the same conditions as enabled the House to pass the Bill relating to the medical profession.-The Bill was by consent withdratw.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

COVERLNG UNQUALIFIED PRACTICE.
Fair Play had better commualcate with the Clerk to the Soclety of Apothe carles, Blackfriars.

NATIONAL MEDICAL AID COMPANY.
Pro Bono Publico.- We have already more than once expressed a decided condemuation of the proposed arrangements and proffered terms.

## REGISTRATION AND FEES

Mr. Grame.-In the case of Leman v. Fletcher. L. R., 8 Q. B., p. 323, the Court, in putting a construction on the 31st section of the Medical Act, 1 cis, held that a practitioner must register his qualification, and can only recover according to it, and that in a medical case, in order to recover for medicines supplied, he must be either registered as an apothecary or as a plysician. In a surgical case a surgeon, if duly registered, can recover for medicines.

## PROFITS OR ARREARS.

3I.D.Lonnos.-The division of profits must depend on the exact words used in the partuership agreement. Unless words having a different meaning have been used, protits of a practice during a certain period must. mean pmfits earned during that period. Money received then in respect of fees due previously would not be earned during the period. and would not ordinarily to divisible as protits of the practice uuder the agreement. On the other band, an outgoing partuer would have a right to his share of fees paid subsequently io respect of work done while he was a partner. A alivision of receipte. irrespective of the matters for which the money is paid, is not a dirision of profits. The partners may, however, have agreed to treat it as a proper disision under their agreement; and if so, the account could not properly be reopened.
If the division has been made under a mutual mistake as to the meaning of the agreement, the lapse of four years is no bar to a proper account beiug taken.
If further information is wanted, the agreement and a precise statement of facts should be sent.
"TIIE GREAT ROYAL STAFF OF FRENCII, BRITISH, AND GERMAN
Dr. W. J. Mck.-Although we are at all times desirous to respond to the reasonable requests of our Antpodean and otber colonial correspondents, we are constrained, owing to the erer-iacreasing demands on our space, to restrict insertion to matters of practical interest. to the profession: for which reason, as will be patent to Dr. Mck., we are unahle to accede to his request that the circular and extracts from the colonist might appear in the Jotrixal. since they merely tend to establish the too-erident fact that quackery and illegitimate practice, in conjunction with a like gulliblity y the public, are as rife in the colonies as in the old country: a regrettable condition of things which may, we think, not unfairly be aitributed to the unrestricted facilities for charlatanic advertising afforded by the newspaper press, the proprictors of which are naturally unwilling to forego such lucrative advert isements, highly prejudicial though they be to the trme intereats of the public.

PAYMENTS FOR POST-MORTEM EXAMIXATIONS.
M.D. asks if he is entitled to claim a fee for makiug a post-martem examination without presiously having receised an order from the coroner for so doing. althongh at the inquest he gave evidence as to the results of the post-moriem examination.
** Sectlon 4 of the 6 and 7 Will. IV, c. s9, prorides as follows: "That wo fee or remuneration shall be paill to any medimal practitioner for the performance of any post-mortem examination without the presious direction of the coroner."
We should advise "M.D.," in similar cases to the one he describes, to commumicate at once with the coroner and delay the making of post-morten exaninations until he has received an order from the coroner for so doing. It may happen that the frtends of a rieceased person might accuse the medlcal attendant of geglect or improper freatment. or indeed he may himself be implicated In causing the death. Under either of these circumstancea it is obrious that the post-mortens examination should be placed in other hands than hls. otherwise the ends of justlce might be defeated. Wo are arare of the rifficultips surrounding a cane where there mas be a strong belief in the
mind of tho practitionee that the death did not arise from natural canses, and his reluctance to call for a public inqulty unless the post-nhortem evidence contirns any suspicion he may entertain. Iu "M, D.s enato the post-ntortem examination was of the utmost importance, and in making it he did not act contary to the law or unwlsely, but unfortumbely, he is deprived by law of the fee whleh he might well expect to receive, being, we presume, previously unawnec of the daw on the stibject.

PARTXIRSHIP WITII AN UNQUALIFIED PERSON
B. writes: Xy brother is at present on mectical student, but unqualified; 1 am M.B. writes: Ay a qualitied medical practitioner. Can of a whil which requires us to enter with me so as to satisiy the condition of a" before we can receive a certain into partnership as " meckital pr
. The Medical Acts prohibit unqualified persons from acting as medical practitioners. But the Court of Appeal, in the year 1885, in the case o Davles $v$. Makuna, intimated that there would be nothing illegal if an un quallfied person carried on business as a surgeon or apothecary entirely by means of qualified assistants and not personally. There seems therefore to be nothing to prevent an unqualified person entering into an agreement of prit nership with a qualified one, so as to share the profits; but he must take care, while unqualitied, to confiue his practice to such matters as do not re quire to be performed by a qualitied practitioner

## MEUICAL ETIQUBTTE OF SUBSTITUTES.

I.B.Ents, writes : A. and B. are neighbouring practitioners, residing within less than hall a mlle of ench other. A. was engaged to attend Mrs. C. in her confurment in August last, and remained in town until September 13th; then, as the case had not cone, off (and as $A$.s partner did not undertake midwifery), A. asked B. to attend for him, which he consented to do, and Mrs. C. Was confined on September 21st. B. received the iee, which A. reMrs. C. Was confined on Sh his return, $A$, attencled the family from October quested him to keep.
27 th to December I4th.
27th to December lith. thet B, was in attendance. and on calling at Mrs. C.'s residence iound that B. had lately given surgical advice to Mrs. C.'s hushand, and afterwards was called in to attend the baby. This he did without informing A., although he knew $A$. was their usubl medical attendant.
B. writes A., snying, "I saw ne reason Ior refusing to attend him (Mr. O.), inf fact it never oceurred to me to do so. Thave not atterb's. Since that as far as I could see, he was as much my patient as anybody's. tince he has called mer anyone else, I did not besitate."
** A carelul consideration of the correspondence between A. and B., in roference to the case submitted by "M.B.Edin.," leares no doubt upon our mind that B., having gained an iutroductiou to the family in, question through the medium of his attendance on Mrs. C., as the ufherating friend of A., it was (as we vilow it) clearly his duty to have declined to take charge of fither case, and to have referred Mr. C. to the nsual family medical attendant A. We may add that although B., in assenting to sttend Mr. C. and the baby may possibly have acted within the strict letter of the law, he certanly faited to fultil the moral nbligation of doing unto others as he woald wish to bedone br, ant therefore hy such omission contravened the true spirit of medical etules.

DETENTION OF CLRTIFICATES.
M.IRC.S. writez : A wetk ago apples to a cor man residing in the north of Fingland for an appointment to take charge of a calliery practice, and enclosed bim my testimonials. A few days ago I received information and enchoser himm my was filled. i wrote to himm requesting him to kindly that the appointment was which he has not done. 1 bave written to him three return my testimonials, which he has not done. for an appointment to take letters and can get no reply. I am now in treaty for an appointment what steps I charge of a branch practice. I will thank you to advise me what oper man to deliver ought lo take in this up my teatImonials.
". If "M.IR.C.S." commences proceedings for the recovery of his lestimonials, and in such proccodiugs ask for damages against the person detainIng them, this would soon lead to their ret urn.

## UNIVERSITY INTELLIGENCE.

## UNIVERSITV OF ABERDEEN. <br> Graduation in Medicine.

It the graduation, on April IIth, the following candidates received degrees in Medicine and Surgery.
The degree of M.D.:
P. A. Benoett, M.A., M.B., C.M., Victoria, Australia; J. Glaister, M.B., C.M., Purney, London: J. Jenkyns, M.B., C.M., Belize, British Honduras; W. L.awson, M.B., C.M. West Bromwich, Staffordshire © Co. Durham ; A C.M.. Arbroath: W. R. Toughi M. A.,

The degrees of M.D. and C.M. (The awarding of honours hes been deferren until the graduation in July.):
G. Allan, Fife-Keith: J. Barclay, Dunceht: K. Cumming, Duthil, Strathspes: A. Diagwall, M.A., Aberdeen ; J. Don, Cults; A. L. Duke, Arbroath: H. Batough, Briadle, Lancashire; A. I). Ellts, Aberdeen: J. G. A. Forsyth, Abrnethy; A. R, Galloway, M.A., Inverure; G. Gibb, M.A.:

Scarborongh; J. Joss. M.A., Huntly ; A. Keith, Turriff ; D. A.F. Kyda, Pollokshields, Glasgow ; A. Leach, Lonen W. K. C. Middleton, M.A., Alness; R. G. M'Kerron, M.A., Abemeen: Abedeen; T. M. Rne, M.A., Udny: J. S. Rid Woodside; W. St. John Skeen C. Ilussell, Orkney; A. M. Samaters, M. Colony: A. M. WVill, Aberdeen Aberdeen : R. M. Townsend, cape examiuations for the degrees of J. Grant, Tomintoul. has C.M., but will not graduate until he has attained the necessary age.
The diploma in Public Ilealth was conferred on the following gentlemen: A. C. Ferguson, M.A.,

The following candidates liave passed the First Division of the First Professional Examination for the degrees of M.B. and C.MI.:
W. Astin, R. N. de Beaurals, J. Bell, W. L, Collie, D. Crichton, It. Cunliffe, W. W. Forbes, W. L. Heaton, A. Lamont, A. B. Mscartney, J. A. Mar. kintosh, F. IJ'Leod, E. L. Mansel, W. S. Park, B. Saunders, W. J Sorsa.
The following candidates have completed the First Professional Fxamination:
G. Black, ${ }^{\dagger}$ W. Bulloch, S. H. Burnett, $\ddagger$ H. G. Cowie, E. J. Cox, W. Davidson J. A. Davie, R. C. Duthie, J. Fraser. A. Geddes, J. Gray, T. Lang. J. B Hunter, J. R. Keith, C. A. B. Lyon, W, Macbain, F. P. N'Lennan, J Lendrum. J. R.Levack, A, Brk, A. Tickles, \#J. Rannie, A. H. Rideal, G Robertson, A. C. Ross, C. R. Selbie. J. M. Skeen, J. Smith, 'H. L. SutherWilliamson, J. Wilson.
The following candidates have passed the Second Professional Examination :
A. Barber, J. F. Black, J. A. Bruce, H. F. Cameroa, IA. R. Cushny, "G. Dean, W. Diack, S. S. Dunn, J. G. Durran, C. F. Fearnside, D. W. Geddic, K . Grant, A. G. Jolnston, *A. Little, F, W. Millivay, T. Mardy. J. M. Mackay, A. R. MackinMacdonald, "A. M'Gillivray, Reid, J. Keid, W. R. Reith, D. Rennet, P. non, F. Noble, Jose I. M. Scott, G.J. Silver, D. M. Smith, J. F. Soutcr, A. Roden, JA. Rose iV. T. Stephenson, J. A. Sutherland, W. C. Taylor, R Thomson, J. Troup, J. Valentine.
Indicates that the candidate has passed the evamlnation with "credit." Indicates that the candidate has passed the examination with "much credit."

## UNIVERSTTY OF GLASGOW

THe following gentlemen have passed the first professional examination for the degrees of M.B. and C.M. (subjects-Chemistry, Botany, and Natural History):
H. C Anderson. J. W. M. Buick, D. G. Carmichael, A. Chalmers, D. Christie W. Craik, W. Crichton, J. Falconer, A. Higgie, J. Johnson, 1. Kerr, Mae Lane, H. Lang, C. Lavery, E. L. Marsh. J. W. Mathes, Ah: M. I. Mardonald, J. A. Macintosh, N. Macintyre. J. M'Kay, Rellshill; R, Mnamh, kay, G. M'Lauchlan, W. A. Neísh, D. W. Reese. R. Reid, J. G. Ronshite R. H. Rothery, C. Symington. W. T. M. Wallace
J. W. White, J. Whitehouse, B. Wians, professional examination The following have passed the secoud
P. II. Abercrombie, H. H. Adam, M.A. C. Bannatyne, J. W. Bord, R. Brownridge, J. M. Bryce, M. Csmeron, J. Caskie. W. Colvin, A. Fairlle, A. F. C. Gilmour, J. Hunter, J. II. Jones, C. F. Laiug. J. Munro, Nacaulay, M.A. ; D. M. Roy, J. Swaneon, M.A. : A. W. Taylor, J. S. Wallace, J. R. Wortabet.
The following lave passed the third professional examination (subjects-Regional Anatomy, Materia Medica, and Pharmacy)
J. Abbott, *J. Adsm, "J. Aitken, W. M. Alexander, "J. B. M. Anderson, M. Boyd, J, David, J. T. Bjemacki. "M, Blair, H. M'D. Borland, *V. M. Boyd, J, Mraser, M.A.; J.
 N. Glaister, G. Gordon, A. W. Miller, A. Morton, *W. Muir, D. M Callum, D. M`Intosh. K. C. Mackenzie, J, B. M•Lean, "D. Revie, J, Robertson, J. Rowan, H. S. Kussell, "W. P, B. Sandilands, W. J. Walker, M. Whyte, W. ${ }^{\text {WJ}}$ J. T. Smith, "G. Steele *II. G.
M'G. Young, M.A. : H. H. Park, in Pathology.

## UNIVERSITY OF ST. ANDREWS.

Medical Graduation, Session 1887-88
THE following gentlemen, having passed the required examinations, had the degree of Doctor of Medicine conferred upon them on April 18th, 1838:
J. J. Bingham, M.R.C.S.Eng., L.S.A.Lond., Alfreton; W. N. Elder L.R.C.P.Ed., L.R.C.S.Ed., Hedinhurgh: A. Hirst, F.R.C.P. Fd.. Prent wieh: A. Molr, L.R.C.P.Ed.. L.R.C.S.E., Reading : J. J. Hutherford L.R.C.P.Ed., L.F.P.S.Glasgow, L.M., Shipley; F. I. Scott, I.K.Q.C.P.Irel. L.R.C.S.Irel., Bracklcy; W. W. Smith, L.R.C.P.Ed., L.S.A. Loak. Thorme bourne: S. stirling. F. and L.R.C.S.E
L.R.O.P.Lond., M.R.C.S.Eng., London.

Deodorisation of tire Metropolitan Sewact.-The Metro politan Board of Works have resolred to appoint Sir Henr lloscoe, M,P., consulting chemist to the Board, in connection wit the deodorisation of the sewage and the purification of the Rive Thames, for a period of twelre months.

# torr PUBLIC HEALTH <br> POOR－LAW MEDICAL SERVICES． 

## the true death－rates of london districts during THE FIRST OUARTER OF 1888.

in the accompanying table will be found summarised the vital and mortal statistics of the forty－one sanitary districts of the metropolis，based upon the Registrar－General＇s returns for the first quarter of this year．The mortality figures in the table relate to the deaths of persons actually belonging to the respec－ tive sanitary districts；and are the result of a complete，system of distribution of deaths occurring in the institutions of London mong the various sanitary districts in which，the patients had previously．resided．By this means the precise number of deaths of persons actually belonging to the respective sanitary districts 8 known，as all deaths occurring in institutions of persons who lad previously resided in another district have been excluded rom the total number of deaths in the district in which the in－ ititution is situated，and credited to the districts from which they ame．By this means alone can trustworthy data be secured pon which to calculate reliable rates of mortality．
The，births registered in London during the first quarter of the anrent year were equal to an annual rate of 32.2 per 1,000 of the ropulation of the metropolis，estimated at $4,282,921$ persons，and howed a further decline from the rates recorded in the correspond－ ng periods of recent years．The birth－rates in the various，sanitary
districts last quarter showed the usual wide variations，the age and， sex distribution of the population differing greatly．In St．James Westminster，Kensington，London City，and Hampstead the birth－ rates were considerably below the average，while in East London， St．Luke＇s；Southwark，and Fulham，where the population con－ tains a large proportion of young married persons，the birth－rates showed a marked excess．

The 23，16t deaths of persons belonging to London registered during the quarter under notice were equal to an annual rate of 21.7 per 1,000 ，which，although it exceeded the low rate recorded in the corresponding period of 1857，was below the mean rate $\mathrm{in}_{1}$ the first quarter of the teu preceding years，1878－8i．The lowest death－rates among the forty－one sanitary districts last quarter， Tere 13.9 in Hampstead， 16.7 in Kensington， 17.5 in Plumstead， 17.8 in，Battersea，and 18.1 in Camberwell ；in the other districts the rates ranged upwards to 23.3 in Bethnal Green， 28.0 in Lon－ don Cit $5,29.9$ in St．George－in－the－East， 30.2 in Fulham，and 32.8 in Holborn．During the quarter under notice 2,365 deaths resulted from the principal zymotic diseases in London；of these， 1,617 were referred to whooping－cough， 412 to scarlet fever， 307 to diphtheria， 238 to measles， 238 to different forms of＂fever＂（in－ cluding 4 to typhus， 224 to enteric or typhoid ferer，and 10 to simple and ill－defined forms of fever）， 149 to diarrhcea，and 4 to small－pox．These 2,265 deaths were equal to an annual rate of 2.8 per 1,000 ，which exceeded that recorded in the corresponding quarter of any year since 188\％．The lowest zymotic death－rates during the three months under notice were recorded in Hamp－ stead，Strand，St．Giles，Plumstead，Marylebone，St．George Sonthwark，Woolwich，St．George Hanorer Square，Ken－

Analysis of the Vital and Mortal Statistics of the Sanitary Districts of the Metropolis，after Complete Distribution of Deaths occurring in Public Institutions，during the First Quarter of 1888.

| ．Sanitary Areas． |  |  |  | Annua $\qquad$荡 | Rate Living |  |  | $\stackrel{*}{\underset{\sim}{6}}$ |  |  |  |  | $\frac{\dot{\otimes}}{\underset{\Xi}{E}}$ |  | $\begin{aligned} & \text { Simple and Unde- } \\ & \text { fined Fever. } \end{aligned}$ | $\begin{gathered} \text { E. } \\ \\ \hline \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ONDON | 4，283，821 | 34，368 | 23，164 | 32.3 | 21.7 | 2.8 | 2，965 | 4 |  | \＄12 | 307 | 1，61\％ | 4 | 224 | 10 | 119 | 143 |
| West Disiricts I |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| addington ．．．．．． | 112．781 | 753 | 582 | 26.8 | 20.7 | 2.6 | 72 | － | － 9 F | 19 | 126 | 22 | － | 9 | － | 3 | 137 |
| ensington ．．．．．．．．． | 183，247 | 1，016 | 803 | 2 L 1 | 119.7 | 1.9 | 92 | $=$ | ［ 13 | 11 | 8 | 48 | \％ | 9 | － | 3 | 147 |
| ammersmith | 98，823 | 730 | 520 | 29．¢ | 21.1 | 3.4 | 83 | － | ＋ 3 | 6 | 5 | 60 | － | 7 | － | 2 | 181 |
| ulham ．．． | 62，555 ${ }^{\circ}$ | 787 | 471 | 50.5 | 30.2 | 5.0 | 78. | － | ， 13 | 7 | 4 | 41 | 1 | 5 | － | 7 | 173 |
| thelsea | 102,106 | 793 | 543 | 31.2 | 21.3 | 2.3 | $53^{\circ}$ | － | － 5 | 9 | 5 | 32 |  | 2 | 1 | 4 | 151 |
| －George，Hamover ${ }^{\text {E Square }}$ | 88,081 | －1480 | 川以 455 | 21.9 | 20.7 | 1.8 | 39 | － | 93 | 6 | 5 | 16 | － | 3 | 1. | 5 | 127 |
| －estminster＊．．s ．． | 55.406 | 417 | 359 | 30.2 | 26.0 | 4.1 | 57 | － | － 3 | 12 | 7 | 33 | － | 1 | － | 1 | 149 |
| 1．James，Westminster | 27，528 | 137 | 156 | 20.0 | 22.7 | 2.5 | 17 | － | 15 | 2 | 2 | 3 | － | 5 | － | － | 146 |
| North Districts ． |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| arylebone ．．．＇ | 150，053 | 1，113 | 837. | 29.8 | 22.4 | 1.7 | H2 | － | 6 | 12 | 8 | 26 | － | 4 | － | 6 | 159 |
| ampsteud b．e． | 56,565 | 343 | 196 | 24.3 | 13.9 | 0.9 | － 13 | － | 4 | － 2 | 4 | － | － | 2 | － | 1 | 93 |
| Pancras | 241．703 | 1．895 | 1，284 | 31.1 | 21.1 | 2.2 | 134 | － | 18 | 17 | 15 | 62 | － | 19 | $\cdots$ | 3 | 127 |
| lington．．．．．．．．． | 332，163 | 2，468 | 1．629 | 29.8 | 19.7 | 2.9 | 244 | － | 23 | ． 21 | 13 | 154 | － | 15 | 2 | 9 | 132 |
| mekney ．．．．．．．．．． | 238,374 | 1，688 | 1.102 | 28.4 | 18.6 | 2.8 | 169 | － | 27 | 18 | 19 | 82 | 1 | 13 | － | 9 | 155 |
| Giles | 40，001 | 329 | 258 | 33.0 | 35.9 | 1．7） | 15 |  |  | 3 | 5 |  |  | 2 | － |  | 100 |
| Martin－in－the－Fields | 15，125 | 93 | 101 | 24.7 | 20.8 | 3.5 | 13 | － | 2 | 4 | 2 | 5 | － | $\overline{1}$ | － | 2 | 129 |
| rand | 29.309 | 204 | 201 | 27.9 | 27.5 | 1.4 | 10 | － | 2 | 1 | 1 | 3 | － | 2 | － | 1 | 182 |
| alborn ．．． | 30，489 | 263 | 249 | 34.6 | 32.8 | 2.0 | 15 | － | － | 1 | 1 | 11 | － | 2 | － | － | 163 |
| erkenwell | 70.308 | 627 | 436 | 85.8 | 24.9 | 3.4 | 59 | － | － | 8 | 5 | 39 | － | 4 |  | 3 | 161 |
| ．Luke＇s | 52，000 | 533 | 329 | 40.4 | 25.4 | 3.6 | 47 | － | 1 | 2 | 3 | 37 | － | 2 | － | 2 | 151 |
| nidon City | ＋38，528 | 210 | 277 | 21.9 | 28.9 | 2.0 | 19 | － | － | 4 | 2 | 10 | － | 1 | － | 2 | 129 |
| orediteh | 125，398 | 1，25b | 839 | 40.2 | 26.9 | 3.6 | 114 | － | 6 | 8 | 11 | 84 | － | 2 | － | 3 | 153 |
| thasel Green | 131．347 | 1，308 | 926 | 40.0 | 28.3 | 5.6 | 182 | 1 | 10 | 29 | 6 | 127 | － | 4 | － | 5 | 179 |
| hitechapel | 67.389 | 693 | 480 | 41.3 | 27.4 | 8.0 | 51 | － | ． | 9 | 4 | 23 | － | 4 | － | 6 | 143 |
| －George－in－the－East | －48，229 | 479 | 3.4 | 41.6 | 29.9 | 2.8 | 32 | － | 2 | 3 | 2 | 21 | $\cdots$ | 3 | － | 1 | 159 |
| epney | 58.802 | 577 | 393 | 39.4 | 24.8 | 4.0 | 58 | － | 3 | 12 | 5 | 36 | － | 2 |  | － | 149 |
| le Eid Old Town ．．． | 114．444 | 1.123 | 641 | 39.4 | 23.5 | 4.3 | 124 | 1 | 11 | 22 | 2 | 72 | － | 10 | － | 6 | 125 |
| plar | 186，200 | 1，595 | 991 | 34.4 | 21.4 | 2.9 | 136 | 1 | 11 | 15 | 9 | S0 | － | 15 | － | 3 | 140 |
| South Districts |  | 1，51， |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| －Skviour，Sonthwark | 27，230 | 254 | 190 | 37.4 | 28.0 | 1.9 | 18 | － | － | 4 | 1 | 5 | － | 2 | － | 1 | 142 |
| Gcorge，Southwark | 59，864 | 573 | 387 | 33.4 | 24.6 | 1.7 | 26 | $\cdots$ | － | 6 | 5 | 8 | 1 | 2 | － | 4 | 134 |
| wington | 121，123 | 1，049 | 616 | 34.7 | 20.4 | 2.2 | $80^{\circ}$ | E | － | 17 | 4 | 37 | － | 4 | － | 4 | 130 |
| －Qinve，southwark | 10.053 | 101 | $6 \cdot 4$ | 41.5 | 25.5 | 3.6 | 9 | － | － | 2 | 1 | 4 | － | 2 | － | － | 144 |
| rmondsey ．．．b．．＂i．． | － 89.802 | 811 | T 511 | 36.2 | 392．8 | 2.0 | 45 | － | 2 | 10 | 4 | 19 | － | 10 | － | － | 142 |
| therhitlie | 43，072 | 355 | 246 | 33.1 | 22.9 | 2.7 | 29 | － | 2 | 3 | 5 | 9 | － | 4 | － | 6 | 1.2 |
| mbeth ．．． ．．$^{\text {a }}$ | 284.809 | 2，298 | 1.440 | 32.4 | 20.3 | 2.0 | 140 | － | － 13 | 27 | $21)$ | （2） | － | 8 | 2 | 8 | 128 |
| ttersea ．．． 1 ．t．．．．．．．＊ | 160，37\％ | 1，404 | 712 | 35.1 | 17.8 | 3.0 | 120 | － | 4 | 15 | 7 | 76 | － | 9 | － | 9 | 127 |
| adeworth | 128．448 | 1，024 | 633 | 32.0 | 19.8 | 3.0 | 97 | － | 1 － | 12 | 19 | 49 | － | 6 | 1 | 10 | 125 |
| mberwell | 256，404 | 1，825 | 1，159 | 38.6 | 18.1 | 2.6 | 165 | 1 | 5 | 41 | 24 | 80 | 1 | 12 | 1 | 10 | 134 |
| senwich | 156，169 | 1，341 | －897 | 34.5 | 23.1 | 3.6 | 141 | 1 | 18 | 15 | 16 | 76 | － | 8 | 2 | 5 | 151 |
| wishent | 59，837 | ． 432 | 353 | 29.0 | 23.7 | 4.8 | 71 | － | 9 | 1 | 19 | 38 | － | 3 | － | 1 | 16.9 |
| rolvich $\quad . . .2$－ 1.20 | －＋37，098 | － 356 | 240 | 38.5 | 26.0 | 1.8 |  | －． | 3 | 2 | － | 10 | － | 2 | － | 1 | 169 |
| Imbtead \＆．．．．．．．．． | 80，739 | － 612 | 351 | 32.1 | 17.5 | 1.6 | 33 | － | 12 | 1 | － 3 | 23 | － | 1 | － | 3 | 129 |

singtom, and St. Saviour Southrark, in each of which it was below 2.0 per 1,000 . In the other districts the zymotic death-rate ranged upwards to 4.0 in Stepner, 4.1 in Westminster, 4.3 in Mile End Old Town, 4.8 in Lewisham, 5.0 in Fulham, and 5.6 in Bethnal Green. Compared with the preceding fuarter, the fatality of each of the principal zymotic diseases, except whooping-cough, showed a decline. Only 4 deaths from smalt-pox were recorded in London during the birst three months of this Year, of which 1 belonged to Bethal Green, 1 to Mile End Old Town, I to Camberwell, and I to Greenwich sanitary districts. The number of small-pox patients in the Metropolitan Asylums 1 lospitals, which had been 7 at the beginning of the year, had increased to 17 in the middle of March, but declined to 9 at the end of the quarter; the admissions were 38 during the quarter, against 37 in the last six months of 1887 . Measles showed the highest proportional fatality in Greenwich, Lewisham, Fulham, and St. James Westminster ; scarlet fever in Mile End Old Town, Westminster, Bethnal Green, Camberwell, and Greenwich ; diphtheria in Westminster, St. Giles, Paddington, and Lewisham; whooping-cough in Fulham, Shoreditch; St. Luke's, and Bethnal Green: and "Fever"in Poplar and St. James Westminster. The numer of scarlet fever patients in the Metropolitan Asylums Hospitals, which had been 2,049 at the beginning of the year, steadily heclined to 1,087 at the end of March; the admissions to these
hospitals of persons suffering from this disease, which had risen from 531 to 2,186 in the four quarters of 1887 ; declined to 1,416 during thie three months ending March last.
lufanty mortality last quarter, mensured by the proportion of deaths under one year of age to births registered, averaged 143 per 1,000 , against 133,149 , and 131 in the corresponding periods or the three preceding years, $1885-6-7$. Among the various sanisteard, St. Giles, Wandsworth, Mile End Old Town, and Lam-
ther heth: whereas they showed the largest excess in Lewisham, Woolwich, Rotherhithe, Fulham, Bethnal Green, and IInmmersmitb.

Health of Exglish Towns.-During the week ending Saturday, April 14th, 6,477 birthe and 3,952 deaths were registered in the twenty-eight largest English towns, including London, which have an estimated population of $9,308,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had been 21.5 and 19.9 in the tro preceding weeks, rose again to 21.9 during the week under notice. The rates in the several towns ranged from 16.8 in Portsmouth, 17.7 in Huddersfield, 17.8 in Sunderland, and 18.4 in Norwich to 26.2 in Plymouth, 28.1 in Blackburn, 30.0 ia Wolverhampton, and 34.9 in Mancliester. The mean death-rate in the twenty-seven provincial towns was 23.1 per 1,000 , and exceeded by 2.5 the rate recorded in London, which was 20.6 per 1,000 . The 3,952 deaths registered during the week under notice in the twenty-eight tisenses. agad 358 which were referred to the principal zymotic these, 172 resulted from whooping-cough, 46 from scarlet fever, 38 from diarrhoen, 33 from diphtheria, 33 from measles, 21 from "fever" (principally enteric), and 16 from small-pox. These 3.58 deaths were equal to an annual rate of 2.0 per 1,000 : in London the zymotic death-rate was 2.2, while in the twenty-seren provincial town it areraged 1.8 per 1,000 , nd ranged from 0.4 and 0.5 in Sunderland and Preston to 3.2 in Salford, 3.4 in Plyhouth and in Sheftield, and 3.5 in Blackhurn. Measles cansed the lightst proportional fatality in Nottingham and rymonth; in lomdon. Levicest+r, Blackburn, and Salford ; and "fever" in Drrly. The in deathy from diphtheria in the twenty-eight tornis included 19 in London, 4 in Liverpool, and 2 in Sheffeld. of the th fatal cases of small-pox recorled during the week under notice, 11 necurred in Sheffield, 3 in Blackhurn, 1 in 1 ricistol, and 1 in Manchester. The Metropolitan Asylums Inspitals hained 15 smull-por patients on Saturday, April 14th, of whom Thain bean admitted during the week. These hospitals nlso con- 1,002 scarlet fever patients on the same date, slowing a
tain further decline from recent weekly numbers: there were 92 admissions during the wreek. The death-rate from diseases of the ruspiratory organs in London was equal to 5.4 per 1,000 , and was sligbtly below the arerage.
Heslete of Scotch Towns.-In the eight principal Scotch towne, st? birthe ant 52 h deaths were registered during the
week ending Saturday, April 14th. The annual rate of mortality, which had been 23.7 and 21.8 per 1,000 in the two preceding weeks, further declined to 20.8 during the week under notice, and was 1.1 per 1,000 below the mean rate during the same period in the twentyeight large English towns. Among these Scotch towns the lowest rates were recorded in Leith and Greenock, and tho highest in Aberdeen and Perth. The 526 deathis in these towns during the wech under notice included 49 which were referred to the principal zymotic diseases, equal to an amnual rate of 1.9 per 1,000 , which almost corresponded with the mean zymotic The hithate during the same period in the large English towns. The highest zymotic rates were recorded in Edinburgh, Glasgow, occurred in Glasgow and Edinburgh. The three deaths from diphtheria included 2 in Edinburgh; and 5 fatal cases of "fever" were recorded in Clasgow. The mortality from diseases of the respiratory organs in these towns was equal to 5.1 per 1,000 , against 5.4 in London.
Health of Irish Towns.-During the week ending Saturdaj; April 14th, the deathe registered in the sixtcen principal town districts of Ireland were equal to an annual rate of 26.3 per 1,000. The lowest rates were recorded in Sligo and Galway, and the highest in Kilk enny and Lisburn. The death-rate from
principal zymotic and was highest in Lisburn and Lurgan, The 187 deaths registered in Dublin during the week under notice were equal to an annual rate of 27.6 per 1,000 , which showed a slight further decline from the rates recorded in the twio preceding weeks. The 187 deaths included 15 from the principal zymotic diseases (equal to an annual rate of 2.2 per 1,000 ). of which 7 were referred to
whooping-cough, 3 to measles, 3 to "fever," 1 to scarlet ferer, and 1 to diarrhea.

BELVIDERE YEVER HOSPITAL, GLASGOW
Furturr improvements are proposed at Belvidere llospital, with a riew to increase the administrative department, it is proposed to erect new washing housea, with all necessary appliances, and
so arranged as to isolate officials, patients, and hospital clothing. a point strongly urged by the medical staff. The present washing houses would then be reconstructed for the accommodation of the house steward's department, stores, etc. The total cost of the new work is estimated at $£ 10,000$. It will also provide for the erection of dwelling-house accommodation for the employce other than the nursing staff, who should reside in the hospital.
the margarine act in operation.
A second prosecution under this Act has occurred in Glasgow, i which a penalty has been imposed. The shopkeeper was fine for having lumps of margarine exposed for sale unticketer Beside the margarine there was butter labelled as such. The suf gestion was that the lumps of margarine were meant to he covere hy the butter label.

## THE GOVIVNNENT SANITARY SUHVEY

Mr. J. Darifs. - The sanitary gurvey in question was made by the Medical Ma. part, when cholera first began to threaten us from the Continent. and area coneinned until the close of 1886 . It तld not include every sanitary ardace continned the kingdom, but that districts, and such of the inland areas as were opecial however, all he limportation of infection, or lad shown by their sickness an lable to the importation of andind fanitation. The results of the surver hat in ther of
 Bupers on Cholera, puhlished as a supplement to the Fifer Session 1686, pri of the Local Goverunirit Bexrd (Conimand Paper 4.8 , 2s.), and in the Report of the Medical Departnent, published as it Supion 18 to the Sixteenth Koport of the Board (Conmand Paper s,i, Rem, or fre price 7 s.). These reports ran be obtained from the Queen Printers, or suble any of the agents who sell Pariamentary pupers. An artich
will be found at page 787 of the Jounsal for April 9th, $188 \%$.

DUTIFS OF MEDICAL OFFICFRS OF HEALTII WITU REGAKD T
NUISANCES.
Pruage. What is my duty wlth regard to nuisances if the inspector nuisanfes Is under the control exclusively of the
Am I resionsible for the rrporting of nll nuisances?
** It is your duty to report gerierally as to the necessity for remors nuisances in your district, and you would necessarily call attention to special causes of ill-health, but the duty cannot be performed hold jou have responsibility for reporting all.

## OBITUARY.

SURGEON-MAJOR R. Il. GARDNER, M.S.
THE death of Surgeon-Major farduer nccurred at Cheltenham on March 19 th of fever contracted at Dune Dune. The deceased officer was in his thirty-seventh year. The following is an account of his public services.

He was gazetted Surgeon September 30th, I874. He served in India (Madras Presidencr) and Burmah from 1875, and in the first Egyptian campaign of 1883, and was at the engagement at El Magfar, in two actions at Kassassin, and at Tel-el-Kebir (medal with clasp and Egyptian bronze star). On his return he was in medical charge of the Station Hospital, Sheerness, when he was again ordered to Egypt for duty during the cholera epidemic of 1883. Returning to England in 1881, he did dnty in the Station Hospital, Dover, and at the end of the year he was again ordered to India, and did duty in Fort William, Calcutta, till November, 1885, when he left for Burmah in medical charge of the King's Liverpool Regiment, and was present at the capture of the Ninhla Forts, and when King Theebaw was taken prisoner, and accompanied him in medical charge from Mandalay to Madras (Burmah medal with clasp). In March, 1886, he returned, and took over the duties of Staff-Surgeon at Fort William, and on May 10th, 1887, was appointed to the medical charge of the Station Hospital, Dune Dune. During his service he had many severe illnesses, which so undermined his constitution that he never recovered from the effects of the fever attack, though a change first to Ceylon and then to England was tried.

HESRY JAMES DWELLY, L.R.C.P.EDIN,, M.R.C.S.E. [HE death of Mr. Dwelly occurred at his residence, Rye Lane, Peck1am, on Sunday, April 8th, at the age of 45 . The deceased gentleman was born in London, and had been in practice at Peckham for the ast twenty-three years. He took an active part in the Volunteer norement, and at the time of his death held the office of major of he Ist City of London Artillery. The immediate cause of his leath was inflammation of the lungs, to which he succumbed after ire days of suffering. IIe was widely known in his district as a Jusy practitioner, and highly esteemed for his pleasant social jualities. He was buried with military honours. Ie leaves a sidow and three children.

## MEDICAL NEWS,

"Examining Boarn in England by the Rofal College of 'hysicians of London and the Royal College of ScrEons of Exgland.-The following gentlemen passed the Second ixamination in Anatomy only at a meeting of the Board of ixaminers on April 1Ith, namely :-
F. A. Field, C. M. Whiteford. R. A. Walter, F. Johnson. J. B. Anderson, G. F. Rensley, W. W. Nutalı, R. S. MeD. Pullen, F. C. Bridges, M. Swabey, W. W. Smith, A. W. Tidbury, and J. H. Tootal. students of St. Bartholonew's Hospital; K. G. Renny and P. C. Phillips, of St. Thomas's HospitaI ; E. K. Goodwin, of Kings College; M. C. Langiord, of London Iospital: W. F. Passmore, of Westminster IFospital; W. K. Bell, of Charing Cross Mospital and Mr. Cooke's School of Anatomy.
Passed in Physiology only.
J. M. Rogers-Tillstone, R. F. Wickes, F. W. Wille, and A. W. Lemarchand, of St. Bartholomew's Iospital: M. F. Agar and A. W. Sturdee, of London Hospital; T. S. Byass and F. S. Colton, of University College: C. Lichel and H. G. Biddle, of Guy's Hospital: T. Prescott and J. R. M. Kennedy, of King's College : W. D. Lockhart, A. R. Chater, and H.J. I. Bullen, of St. Mary's Hospital: W. White, of Middlesex Hospital : W. F. F. Milton and J. J. Seot t. of St. Thomas's Hospital.

Passed in Anatomy only on April Iizth.
C. W. Grant, E. W. Everett, A. O. Hibbari, and J. F. S. Frazer, of St. Bartholomew's Hospital: C. F. M. Ley, A. F. F. F. Huntsman, and E. M. Knott, of St. Mary's Hospital; E. J. Macfirath and J. C. Ellis, of St. Genrge's IIospital; G. Padmore, of St. George's Mospital and Mr. Cooke's Schmol of Anatomy : E. B. Smith, F, Dove, and C. T. W. Mirsch. of Iondon Hospital: F. M. ilooke, F. A. Osborn, and W. A. Higgs, of finv's Mospital: J. Yeomans, of University College; $\mathbf{H}$, C. UacLeod, of Westminpital: J. Yeomans, of University College; E, C. Jacleod, Mi Westmin-
ster Hospital : A. R. McFarlaue, of Middlesex Hospital; and E. D. Dunn, ster Hospital : A. R. McFa
of St. Thonias's Hospital.
Passed in Physinlogy only.
S. A. Ord-Mackenzie. A.S. Joies, and A. C. Black, of UniversitF College: B. F. Parish, 1. A. Francis, F. G. Boon, and G. H. M. Giden, of St. Mary's Hospital: J. Wells and S. K. Strouts, of London Hospital: J. H. Joberts and C. F. Pollock, of Gus' Hospital; S. Gresswell aud A. R. Radger, of St. Bartholomew's llospital; J W. Williams, of Middlesex Mospital.
Passed in Anatomy and livisiologs on April I3th.
J. Grimshaw, of Lonclon Hespital.

Passed in Anatomy only.
E. Henry and H. F. Luckic, of St. Bartholomew's Hospital; C. E. Salter, of Guy's llospltal; E.C. Walter, J. S. Bradish, E. P. Isaacs, and A. S. Gelge of St. Thomas's Hospital; G. F. Gillett. H. Jaekson, P. A. Green, J. E. S. Passmore, E. J. F. Moore, and C. H. Hemming, of London Hospital; H.C. Nicholls, of Charing Cross Hospital; A. J. Latter. H. W. Roberts, and G. X. C. ILunter, of st. George's Hospital; H. G. Beville, of St. George's Hospital and Mr, Cooke's School of Anatoms; C. S. Bowker, of Middlesex Hospital.
Passed in Physiology only.
11. Hodgson, of Guy's IIospital ; H. E. Burch, A. C. Durbam, W. Watkins, and A. Plumbe, of London Hospital ; J. H. Harlaway, of Middlesex Hospital; R. M. Collins, of Claring Cross Hospital; H. J. Curtis, of University College.

King and Queens College of Physictans in Ireland. At the nsual monthly examination meeting of the President and Fellows, held on Friday, April 13th, I888, the following registered medical practitioners, having passed the necessary examinations, were duly admitted Licentiates of the College.
For the Licences to Practise Medicine and Maduifery-W. G. Rutheriord, L.R.C.S.1., Tipperary.

For the Licence to practise Medicine-A. D. MacLeod, L.R.C.S.1., Portarlington, Queen's Counts.
For the Licence to Pruclise Midu-ifery,-E. A. C. Barlor, M.B.VKiv. Dub., Fermor, co. Cork: J. W. Gallagher, L.R.C.S.1., Strabane; E. J. Jacob, L.K.Q.C.P., Maryborough.

At a special examination for the Licence in Medicine of the College, held on Thuroday, March $-3 n d, 1888$, the undermentioned candidate was successful.
c. Westbrook, L.S.A. Lond.
C. Westbrook, L.S.A.Lond. President and Fellows, held on Friday, April 6th, IS88, the following candidate was elected a Fellow of the College.
G. P. LEstrange Nugent, M.B.Unir. Dub. 18i8, L.K.Q.C.P.1. 1885, M.K.Q.C.P.1. Issi. Physician to the House of Industry Mospitals, Dubliu.
Stray and Rabid Dogs.- We glean from the report of Mr. Charles Colam, Secretary of the Dogs' Home at Battersea, that the number of stray dogs which entered the home during last year was considerably smaller than during the previous twelve months. This is regarded as the natural result of the rigorons enforcement of the police orders respecting stray dogs issued in I885 and 1886. During the year $\mathrm{I} 2,881$ were brought into the home. It is satisfactory to learn that during the past year only one dog in the whole of the metropolis was afticted with rables, a fact which seems almost incredible when it is remembered that three vears ago there were no fewer than sixty so attacked, and a year later fourteen. This points to the practical extinction of this dreadful disease. It is a matter for regret that this institution, which has done so much to stamp out hydrophobia, has not received more substantial support. An unsuccessful application has been made to the Government for an increase in its subscription, which amounted only to $£ 10$ per annum, and an appeal to the Metropolitan Board of Works for a special donation has also been made in rain. There is still a deht of $£ 1,000$ upon this institution.

The Hospitals association-The next evening meeting of the llospitals Association will be held in the Governors' Inall of St. Thomas's Ilospital, Albert Embankment, S.E., on Wednesday, April 25th, at 8 P.M. The President of the Association, Dr. J. S. Bristowe, will preside, and a paper will be read by Mr. W. BurdettCoutts, M.P., on "Contributions by Patients in relation to the Financial Conđition of London Hospitals." Cards of admission can be obtained on application from Mr. Howard J. Collins, Secretary to the IIospitals Association, Norfolk Ilouse, Norfolk Street, W. C.

A Cinarge of Neglecting to Notify.-A charge which created a good deal of local medical interest was brought a few dayssince by the Jarrow Corporation against Mr. W. M. Jennings, M. R.C.S., a medical practitioner of the borough, of neglecting properly to notify cases of infectious disease to the authorities. Mr. Jennings had, it appears, informed the mother that the children were suffering from scarlatina, and that scarlatina was one of the diseases mentioned in the Act. The Town Clerk eventnally admitted his inability to carry the case any further, and it was therefore dismissed, as were three nther charges of a similar character. Fach party lad to pay their own costs.

Dr. James Iftcuison, Paisley, has just been presented with a purse containing lo( sorereigns, and a gold alhert, by gentlemen in l'uisley and neighbourhood, on the attainment of his jubilee as a medical practitioner: A short time ago Dr. Ifutchison also
received a prisentation, with congratulations on his jubilee, from ais profersionul brethren in Paisley.
Tins St. Thucras Vinstry liave docided, by a latge majority, to contribute $\mathrm{f}=30, \mathrm{MO}$ to the fund for the acquisition of l'arliament Ifill.

A whol, batat provision deater at Shrewsbury has been lined E20 for supplying to the Salop intirmary margarine containing eighty parts of foreign fat, for butter.
Dr. II. F. BrRnes, of Walmpny llonse, Tufnell lark Road, has been elocted a guardinn for the Lower Holloway Ward, on the Islington Board of Cuardians. The saperannuation of medical officers will emrly occupy the attention of the board, and Dr. Burnes promises to be at jlrm friend of frofessional rights on the ward.

## MEDICAL VACANCIES

The following Vacancies are announced:
BIRMINGILAM GENFRAL DISPENSAKY:-Redident Surgeon, Salacy, Elfo, and £30 extra lor cab hire. Applications ly May 10 th to A. Forrest, Esq. Secretary.
HIKMINGHAM GENERAL HOSPITAL.-Assistant HouseSurgeon. Residence, board, etc. Applications by April Lsith, to the House Gevernor. RMIVGIIM GENERMI HOSPITAL.-Resident Surgical Officer. Salary bIRMINGILAM GENERAL HOSPITAL.-Resident Surgical Officer. Salury, cl30 per annum, with
the House Gevernor.
BOROUGH OF BRIGITON.-Medical Officer oi Health. Salary, friou pe annum. Applications by May 2nd to F. J. Tillitone, Esq., Tnwin Clerk.
BRISTOL IBOYAL INFIRMARY.-Hoarary Assistant Physician (to untpatients). Applications of May 5 th to the Secretary.
DURHAM COUNTY HOSPITAL.-IHonorary Surgeon. Applications by April 30th to the Secretary.
DUMIIAM COUNTY HOSPITAL.-Ilonerary Surgeon-Dentist. Applications by April 30 th to the Secretars.
HEMTFORD BRITISII HOSPITAL. Paris.-Honse-Surgeon. Applications to the Secretary, Rue de Villiers, Levalluis, Paris.
HOSPITAL FOR THE PAHLLYSED AND EPILEPTIC, Queen Square,
 dence. Appliativns lyy April Both to B. Burfuril hawlings, Esq., SecretaryDirector.
LIDDELL PROVIDENT DISPENSARI, Jarrow-on-Tyne.-Medical Officer. Salary, £200. Applitations to John Christie. Eqq., 23, Cobden Street, Jarrow.
LIVERPOOL INFIRMARY FOR CMILDLREN- Assigtant House-Surgeon Board ad residence. Applimations by May and th the Honorary Secretary
CONDON SKIN HOSPITAL, 4T, Cranburn Street, W.C.-Asistant, Medical Officer. Applitations by May 1st to the Secretary
london thlloat hospltal, Great portland sitreet, W:-Surgeon. Applications by May 1st to W, R. 11. Stewart, 13si., 11onoraty Secretary of Medical Comnnittee.
YRWPORT AND COUNTY JNFlUMAKY.-1Fouse-Surgeon. Silary, £looper ananm with board and residence. Apllications to J. K. Stone, Esq. The lefrmary, Newport, Mon.
VORFOLK COUYTY ASYLUM, Thorpe, nesr Norwich.-Junior Assistant Medical Offeer. Salary, £100, with board, etc. Applications by April 21st to Dr. Thompson, Medical Superintentent.
NORTH-WEST LONDON HOST1TAL, Kentish Towa Road.-Senior Resident Medical Officer. Applications by April 23 ril to the Secretary.
İOTHERILAM HOSPITAl,-Assistant House-Surgeon. Board, etc. Applications by April 2 ith to the llouse-Surgeon.
GUYAL SOUTH HANTS INFIMMABY, Southampton--Assistant to House-
7o. Surgeon, Boand and residence. Applications by Mlay 5th to Dr, Thorais.
Angleea Place, Southampton.
Sgaman's hospltal society. -Yiaiting Physician. dpplications by P. May 5 th to P Mlehell, Secretary, Scaman'a lospital, (ircenwieh, S.E.

5T. LUKK'S HOSPITAL.-Resident CHniral Assis1ant: Bnarlamil lodging. :Applications by April $28 t 11$ to tbe Secretary
WARWICK COUSTY IUNATIC ASYLIMM, IHEton, near Warwick.-Asslstant

"the Superintendent.

## MEDICAL APPOLNTMENTS.


 ? Highud.
Whintrow, Wm. Moss, M.J.C.S.Fing., LaS.O.P., LaH. Fd..ifate Chhoroformist io
 I Seacombe: IIosjitial, Birkenhemy.
 for the Northera Wirision of the Newarh Jnion.
Brooky, Samurt John, M.R.C.S. Eng., L..S.A.Lond., appointed Merical Ofticer on Urian and Pamal Samitary Anthority: Medimal onfer to the Lannceston Workhonse to the No fi sid No. 8 bistricts re spurtively; l'ublic: Vaccinator fo the Jorough of Libulaceston, vice (G. Sargont, M.le.C.S., L.S.A.. resignal.
bom, Thomas Anthony, L.U.G.S'E.E., 3I.J\}.C.S.Kng., appointed Consulting Hedical Ofherr to the Sewrastle-on-Tyre Workhouse Iospitabl.

 -ce lof. Ifonrager flabom, ralgaed.

Jonks, Robert, Henorary Surgeon to the Liverpool Stanley 110 ppital, appointend pool.
HeLian, Allan, M.R., C.M., appointed Mediml Officer of Mealth to the l'ort land Urban Sanitary Authority.
Janning, L. S., M.B., C.M., appoiated Honse-Sargeou to the Central houdon Ophthalmle Hospital, Gray's Ion Road, W.C.
MURRAY. II. M., M.B., C.M., appointed 1Louse-Surgeon to the Infirmary for Children, Liverpool, vice E. L. Fox, M.B., M.M.C.S.Fng., reatgned.
Cathef, A. W., L.R.C.P., L.B.C.S., I.M.Ed., L.S.A., appointed Bedleal Officer of Health for the Margate Urban Sanitary District, vice W. K. Treves, F.tl.C.S., resigued.

## MEETINGS OF SOCIETIES DURING TEE NEXT WEEK.

## Monday.

Mridical Soctety or London, 8.30 E.M.-Mr. J. Astley Bloxam: On the Treatment of Syphilis by the Intra-Mnscular Injection of Meranry. Dr. Faadford (Nottingham): On Albunianria in Enteric Fever.

TUESDAY.
Rofal Memical and Cerremgical Society, 8.30 p. M.-Dr. Archibald R. Garrod: A further Contribution to the Study of Rheumatoid Arthritis. Dr. Haig: Effects in Diseases conaected wric Aeld, ia Acid of some Drugs which cause retention of Uric Arevioun Acld of sorne the Action of Salicylates, as shown in a previoun Paper.

## WEDNESDAY.

Roval Uroopmogical Soctati, 7 F.M.-Papers:-Mr, James 13. Jordan Jordan's aew pattern Photographic Sanshime Recorder. William Doberck, Ph.D., F.J.Met.Soo.: On the Meteorology of South-Eiastern Chins in 1886. Professar A. S. Jerschel, Smin, F.R.S.: Lightning in Snowstorms. M
M.Inst.C.E., F.R.Met.Soc. : Insolation. cological Society, 8.30 P. M.-Specimens will he exhibited by Dr. Parcell, Dr. Fincourt Baraes, Mr. Lawson Tait, he Ahed of deat, and others. Dr. William Alexander: A new Uriae in treating hitherto incuralale, cases of Incoatiueace of Uriae Yomer. Connell, 8 P.M.
Hesterias Society. 8 p.m.-Dr. A. D. Davies : A Case of Pamlysis Agitans Dr. Stephea Mackenzie: On the Skin Affections eonaechec Dr. Dumdas Grant: (1) Cancer of tha Larynx benefited by Tracheotorny: (2) A Nasal Trephine. Dr Carpenter (for the President) : Hereditary Absence of the Iris associated with Talipes.
IIOSPITALS ISsociation, 8 P.N.-Mr. W. Hurdett-Coutts, M.P. (at St. Thomas' Hospital): Contributions by l'atients in relation to the Finau cial Condition ol Loadon Hospitals.
ROIAL Microscopicat Socifit, 8 p.ar.-Coaversazione.

## FEIDAY.

Clinichi Society of Lonpon, 3 p.M.-Mr. 13. Wainewright: Case illastratin Advantage of early Incision witl Drairiage as opposed heas cision of Joints. Dr. Male Whita: On Periliepatitis. Mr. Lucas Case of Tumour of Kight Ovary in a Clild aged 7 , associate with Frecocious Puberty: Ovariotomy: Cure. Mr. Symonds Case of H
Sutured.

BIRTHS, MARRIAGES, AND DEATHS
The charge for inserting announcements of Burths, Marriuges, and Deaths is 3s. 60 which should bc forwarded in stamps with the annorencement.

## martiages

BHISTOW-MCVEAGE.-Oa April Ilth, atSt. Osburglis Churth. Covenirs, hy ti liev. A. Pereira, O.S.B.: Rector, Williant rrederick, serond son of Willa Bristow. "Woodlands," Blackheath, to Catheriue Stuart (Kate), daughter of Dr. McVeagh, J. P., Coventry.
Clfiland-Balfour.-At St. Giles' Cathedral, Mdinhurgh, on April 18th, by t Very Rev. Prineipal Caird, LL. D. assisted, by the Rev. W. Lockluart Coll ton, John Oleland, M.I., F.1R.S., Professor of Auatony in the Univershty, Glangow, to Acla Marion Spottiswood, eldest daughter of the late J. Ballour, M.D., F.J.S. Professor of Botany in the University of Edinburg BOFT-STOFFY.-On April 18th, at St. Mathew's, lightcliffe, Yorks, Edwa
CROFT-STOFFY.-On Aprif Octavius Croft, M.R.C.S.. L.R.C.P., of Clarendon hoad, Leech, elghan Londoa. of the late Charles Iderton Croit, No. Jolin Siorey, Kaq., of Nowcastles Hheanor Annic, second danghter of Jolm Slorey, Naq., of NowcashleTyue.
 Rev. J. G.. Ifolnes, Vicar. Itenry Wllliam Godirey, M.B., M.J. Cout Ventnor, only son of Charles Godfrey, of Colcheater, lligh Batiu of Cugh Courtand Official Hecelver in
of the lata.A.J. Fowell, Fisq. 1888 st Mark's Charch, Peterboriou
IoLmFs-WalkFR.-On April 17th, 1888, at St. Mark's Charch, Feterborno by the Very Jiev, the Dean of Peterbornagh, assisted by the Jov, vicar lielmes, fither of the hridegroonn, and tho Rev. J. II. Molesworth, vian of Longthorpe it the parish, the liev. Willian 1 'erowne Ifolmes, vicar of Longhor, minor canon nf Peterharengh Cathedral, to Ethel Margaret of Thomas James Walker, of 1eterborongh, M.D. and J.P. 'mintp-SapDon.-At Bridge of Allan, et April 19th, by the Rev, Gec Phllip, M.A., Free St. Jobn's Church, Edinburgh, iather or the
Rohert William Philip. M.A.。M.D., F.1.C.J.E., Ediaburgh, to Bua
 voungest danghter of the late Joha F. Motherwell. Cultibar Melbourne.

## OPERATION DAYS An THE LONDON HOSPITALS.

MONDAY,......... 10.30 A.M.: Roybl London Ophthalmic.- 1.30 p. $\mathrm{M}_{\mathrm{o}}$; Guy's (Ophthalmic Doxartrnent) ; and Royal Westminster Ophthal-mic.-2 p.м.i Méropolitan Free; St. Mark's : Central London Ophthalmic; Ropal Orthopxdic; and Hospital for Women.2.30 P.M.: Chelse Hospital for Women.

TUESDAY.........9 A.M. : St. Maria (Ophthalmic Department).- 10.30 A.M.: Loyal London Cphtlalmic.-1.30 P.M.: Guy'b; St. Rartholomew's (Ophthalnic Department) ; St.Mary's ; Royal Westminster Ophthalmic.-3 P.M. : Westminster; St. Mark's; Central London Ophthalnic.-2.30 P.M.; West London; CancerHospital, Brompton, -4 P.s. : St. 'Thomas'a (Ophthalraic Department).; 10 A.M.: Natioml Ortlıopadic.- 10.30 A.M. ; Royal London Ophthalmic.-I P.S. : Middlesex.-1.30 P.M.St. Bartholomew's, St. Thomas s : Dyal Westminster Ophthalmic.- 2 P.M.
London: Univessity Collego ; Westminster; Great Northern Condoa; University College; Westminster; Great Northern Free Hospital for Women and Children ; St. Peter's. -3 to 4 P.M. : Kint's Colleye

THOBSDAY....... 10.30 A.M. : Royal London Ophthalmic.-I P.M. : St. George's -1.30 P.M.: St. Bartholomewis (Ophthalmic Departmeat); Guy's (Ophthalmic Department); Royal Westminster Ophthal-mic.-2 P.M. : Chaing Cross; London; Central London Oph-mic.-2 PaM.: Chaning Cross ; London ; Central London Oph-Women.-2.30 P.Ms:- North-West London; Chelsea Hospital for Women.
FRIDAS ...........9 A.s. : St. Mary's (Ophthalmic Department). -10.30 A.M. Royal London Ophthalmic.-I.15 P.M.: St. George's (Ophthal-
mic Department).-I. 30 P.M. Giuys : Roral Westminster Oph-thalmic.-2 p.M. Kin P.M. College: St Thomat Ophthalmic Department): Ceatral London Ophthalmic; Royal South London Ophthalnic; East London Hospital for Children.2.30 p.s. ; West London.

9А.m. : Royal Free.- 10.30 A.N. : Royal London Ophthalmir. I P.M.: King's Csilege.-1.30 P.m.: St. Bartholomew's; St. Thomas's: Inyal Westminster Ophthalmic.-2 P.M. : Charing Cross; Londou; Middlesex: Royal Free: Central London Oplithalmic.-2.30 p.M. : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON hospitals.

Cearing Cross.-Medical and Surgical, daily, 1 ; Obstetric, Tu. F. I. 30 ; Skin, M. Th., 1.30 ; Dental, MI W. F.. 9.

Guy's.-Medical and Surgical, daily, 1.30 ; Obstetric, M.Tu. F., I. 30 ; EJe, M. Tu. Th. F., 1.30 ; Ear. Tu. F., 12.30 ; Skin, Tu., 12.30 : Dental, Tu. Th. F., 12. Kivg's College.-Medical, daily, 2; Surgical, daily, 1.30 ; Obstetric, Tu. Th. S 2, o.p., M. W. F., 12.30 : Eye, $\frac{J 1 .}{}$ Th. 1 ; Ophthalmic Department, W., I London- Medical, Thily ; Throat, Th., 3 ; Dental, Tu. F., 10.
London-Medical, daily, exc. S., 2; Eurgical, daily, I. 30 and 2: Obstetric, M. Th.. 1.30 ; o.p. W. S., 1.30 ; Fye, W. S., 9; Ear, S., 9.30 ; Skin, Th.. 8 ; Dental, Tu..9. Midpleser. - Medical and Surgical. daily. I: Obstetric, Tu. F., I.30; o.p.,W. S., 1.30; Eye, W. S., 830 ; Ear and Throat. Tu., 9 ; Skin, Tu., $4 ;$ Dental, daity, 9 . ST. BaFtholometrs.-Medical and Surgical dails, 1.30 Obstetric. Tu. Th. S., 2; o.p. W.S., 9; Eyc, Tu. Th. S., 2.30 ; Ear, Tu. F.. 2 ; Skin, F., I.30; Larynx, F., 2.30 - Orthoparic, M., 2.30; Dental, Tu. F., 9 .

St. GEorge's.-Medical and Surgical, M. T. F. S., 1 ; Obstetric, Tu. S., 1 ; o.p., Tu., 2; Eye, W. S. 2; Ear, T
3; Dental, Tu., S., 9, Th., 1 .
Sr. Mary's. Medical and Surgical, daily. 1.45; Obstetric, Tu. F., 1.45; o.p. M. - Th, 1.30 ; Eye, Tu. F. S., 9 ; Ear, Mr. Th., 3 ; Throat, Tu. F., 1.30 ; Skin, M. Th., -9.30; Electrician, Tu. F. 3 ; Dental, W. S., 9.30 ; Consultations, M., 2.30 ; Operations, Tu.. I.30: Ophthalnuic Operations, F., 9.
Зт. Thosus's.-Medical and Surgical, daily, except Sat., 2; Obstetric, M1. Th., 2; o.p., W., 3.30 : Eye, M. Th., 2; 0.p., daily, except Sat., I. 30 ; Ear, M., 12.30; Skin, W., 12.30 ; Throat. Tu. F., 1.30; Children, S., 12.30 ; Dental, Tu. F., 10. MIVERSIT CoLLEEGE. M Medical and Surgical, daily, It to 2; Obstetrics, M. Tu, Throst, Th., Eye, M. T11. Th. F., 3 ; Ear, S., 1.30 ; Skin, W., 1.45, S. 9.15 ; Mesmmster.-Medical atid Surgical; daily, I.30; Obstetric. Tu. F., 3; Fye, Th., 2.30 ; Ear, Mr, 9 ; Skin. Th., I ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Somuinications respecting editorial matters should be addressed to the Editor; 429. Straal, W.C., London: those concerning business matters, non-deliver of the Jourval, etc., should be auldressed to the Manager, at the Office, 439 , Straud, W.C., Loadon.
sonder to avoid delay, it is particularly requested that all letters on the editorial business of the Jourvar, be addressed to the Editor at the office of the Jourval, and not to bis private lionse.
Jours desiring reprints of their articles publishet in the British Medicat Jouryal, are requested to conmmulicate beforehand with the Manager, 429. Strabi, W.C.
Oarespondents who wish notice to be taken of their communications, should suthenticate them with their narnes-of course not necessarily Ior publication. orresponDents not answered are requested to look to tise Notices to Correspondenta of the following week.
CIRCUMIPTS FORWARDED TO THE: OFFICE OF THIS JOURNAL CANNOT USDER ANY CIRCUMSTASCES BE RETURNED.
'LBLIC HFALTE DEPARTMFAT.-W' shall be much obliged to Medical Officers us with Duplicate Will, on forwanding their Annual and other Reports, favour

## qUERIES.

Smbilf. of lonixf: in Bedroom
Tomink: wiohes information from members as to the lent way to remove the smell of iodine frons a bedroom, inhabited during the winter liy a patient who has freely used the same.

Practick in Amprica.
Stars ard Stripes begs to return his thanks to the gentlemen who kinully answered his queries, and to ask further: 1. What are the most suitable Americau and Canadian States Ior rheumatics to live in? 2. Can a medical man who is without friends or private means hope to be able at once to make a livelihood by his profession. 3. The usual way of starting in practice: whether as assistant, house-surgeon, dispensary doctor, or in a private capacity? 4. In the event of a medical man being unable to support bimsevf by his profession, would he be able to leara a livelihoad by teaching, writiog. acting in the capacity of clerk, etc., or sre all these offces (as in the olit country) overstocked?

Naso-PHarysgeal Ulcemation
A MEMBER asks for aulvice in the treatarent of the following case: Miss-aged 19 , has suffered for two gears from superficial ulceration (not syphilitic) of the naso-pharyngeal surface. There is no ozana, no paio, no fotor. Some mernbranous fragments mixed with mucus and pus, but no blood, constitut the discharge. She is anæmic and strumous-looking. The lungs are bealthy. Remedies hitherto used : cod-liveroil, Fellowes's syrup. ferri iodid, and other tooics ; inhalations of chloride of ammonium ; gargles of borax, Condy, and Sanitas ; brushing with boro-glyceride, iodine, iodoform, arg, nit, dilute carbolic acid; snuffs of diluted hydrastin, etc. ; rapour of terebene; generous diet, and residence by the sea. So far I can only say that she is no better
 pharyngeal cavity.

Medical Heroism.
Dr. D. Mitchfll (Reuton) asks whether any publications exist which contain the records of instances of heroism displayed by medical men, both civil and military. If no such publication exists, whether there is any information regarding some such instances as may be found in a scattered form in many publications

Climate for Rhelmatisu.
C. M. asks for the best places in England for a person suffering Irom rheuma tism in the winter to reside in. A large town preferred, suld one where rents are low and living cheap.

## ANUWERES

-7 Ilupthred Perineum.
Provincial Subgeon asks: Having, during a period of over twenty years prac tice in midwifery, met with about eight cases of ruptured perineum, I would like to ask through the medium of the Joursis if any of your contributors would inform me whether, in their experieuce of such cascs, it is abrys acnearly 5,000 cases, a great number of them being instrumental, in consequence of a peculiarity in this district of most of the midwifery being at tended by midwives, and the ase of the forceps is so frequently called for in their difficult cases; but the cases of perineal laceration that I have met with have in every case happened where no instrumeots have been used; the perinenm having been well supported, but the force of the pains has driven the child's head through, and lacerated right up to, but not through, the sphincter, and in each case retention of the urine has followed, necessitating the use of the catheter, in some cases twice a day Ior a month, in others for shorter periods. All the cases were rigid perineums of primiparx. I have looked in half a dozen works on midwifery, but cannot find any statement about this being one of the sequelre, and therefore shonld like to have the opinion of some more experienced obstetriciaas than myself, and any suggestious as to the future treatment to prevent the use of the catheter, which to ladrypatients is most njjectionable. I know that it will be said that these accidents should not occur, but 1 think from my haviag only had eight cases in 5,000 , I shall have the credit given me of usiag every needful care.
** Retention of urine is most frequent when the patient is a primipara There can be no direct rclation"let ween"t hat complication and rupture of the perineua.

Post-partem H. morrhage.
D. II. Cr. writes : "Felix" asks for the experieuce of others as to the efficary of ergotin. A few weeks back 1 also askell for an expression of the expe riences of members in Burroughs and Wellcome's ergotinin ( 1 in 150) tabloids, which I have found most satisfactory and rapid in their action, given hypo dermically. Ergotin either in pills or solution I hare not found reliable.

## NOTES, LETTERS, ETC.

A Case of Distrfas.


The donations already revived, thanks to the generosity of the donors, will aluable one of the chlldren to obtain an imnediate presentation to St. Annes School, in complance with the offer of asentleman to give half the amount necessary for that purpose.
Any further donations witl be applied to the relief of the famaly, and to wards providing for the equeation of the other children.
Erkatum. -The donation frons "Two Friends at si. Bartbolonew's Hos pital "should have been entered as fe 0 , instead of as printed in part of our edition.

Erytheva Nodostm.
Mr. Beamish Ilaminton (Tenby) writes: I have recently treated two cases of ersthema nodozum by perforate rubber bandages with most gratityiog re sults. The'first, an anxemic young woman aged 30 , who could not stay in bed
and on whom toncs of various kinds seemed to have no effeet, gnt immedinte relief from pahs, mat male a smedy recovery, The secomi, a very stont





The: Chifton luvact Casf,
Ur. W. II. Marvayt (Clifton) writes: Wjil yom be kind elangh to give publicty to the avoompanying additional list of subscriptions to the Marshall anct shaw funci

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## BOOKS, ETC. RECEIVED.

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# is <br> REMARKS <br> BRASSWORKERS' DISEASES: BEING A TIIESIS FOR THE' DEGREE OF M.D. IN: TIE UNIVERSITY OF CAMBRIDGE. <br> BY BOBERT:M. SIMON, M.D., M.R.C.P.Lond, <br> Assistant Physicinn to the Birmingham General Haepital, and Visiting Phyeician to the Jaffray Suburban Hoypital, If 

THis subject is one of the greatest interest to those who live in manufacturing towns, such as Birmingham, where large numbers of men are employed in the brass trade. That hrassworkers are exposed to unluealthy conditions is fully recognised by the men themselves, as well as by their employers, who speak of the trade as a most unhealthy one. Brassworkers rarely attain old age, and formerly provident sick societies either altogether refused to enroll them on their lists, or accepted them as miembers at greatly increased rates.
The recognition of working in and making brass as causatire of disease is due to Dr. Headlam Greenhów, who, in 1862, read before the Royal Medical and Chirurgical Society a paper on Brassfounders' Ague. This was based on his experience gained while paying a brief holiday visit to Birmingham in 1858, in connection with his investigation of trades injurious to health. It is curious that he should have selected for his title the name of a disorder which undoubtedly occurs, but which, as I shall endeavour to'show, is only an acute expression of a chronio disease, and one which raraly:or never comes within the range of experience of practising physicians.

In the out-patient departments of the Birmingham hospitals one meets with an enormous number of brassworkers complaining of rarious pulmonary and gastric disorders; but in over eight years' experience among over 30,000 patients, I have never yet been consulted by anyone in the matter of this so-called ague, although questions will very frequently elicit the:statement of its occurrence.

The literature of this subject is very scanty; but Greenhow quotes Thackrah's, essay on the Effects of Arts, Yrades, and Professions on Health and Longavity, published about 1830, as well as the writings of a few Frenchmen, who have not, however, materially advanced onr knowledge of the disease. Thackrah's obserrations were clearly inaccurate and imperfect, for he mentions only "egue," which he speaks of as an intermittent fever, attacking brassworkers from once a month to once a year, and leaving them in A state of great debility.
Dr. Hogben, Physician for Out-patients at the Quecn's Hospital, Birminghinm, published a very interesting paper on this subject in the Birmingham. Medical Review in May, 1887. Dr. Greenhow referrs only to ague and bronchial disorders, and very cursorily to zarvous troubles, as resulltng from brass-casting; but Dr. Hogben mentions also the colic, constipation, and dyspeptic troubles which result from this occupation. Dr. Greenhow, on the one hand, reters all the symptoms to intoxication by zinc, while Dr. Hogben thinks they should rather be referred to chronic copper poisoning. These two metals are tho principal ingredients in the making of, brass, which needs a brief description.
Copper is put into crucibles, whicli are plunged into a sunken furnace, and coveredi in order to exclude the air. When the coppler, is melted, the crucible is removed, and zinc-abont 30 per cent-and smali quantitics of lead, tin, and brass dust are mixed with the molten copper, which is liot enough to melt them. When the whole mass is molten, it is poured into moulds called sows; during the pouring the zinc dellagrates, and a dense white smoke is formed, which almost instnntaneously fills the atmosphere of the casting shop. This smoke is rapidly conrerted into suowWhite flakes and white powder. consisting of the oxide of zinc. which remains for somo time dififused tlurough the atrosphere of the ellop, and, in ill-wentilated casting slops, collects npon the rafters and ceiling in the form of a deuse white incrustation. Tho quantity of these fumes depends, birst. upon the amount of zing employed seeooully, upon the ventiliat ion of the casting sirops 1 and, thindy , upon the weather -a dull foggy day preventing their
[1426]
escape. The shops in netw-erected factories are only one story, higl, and have large' $\begin{gathered}\text { bliding pancls in the roof to pernit frite }\end{gathered}$ escape of the fumes, but in the older buildings they somelimis have other rooms abore them, and free ventilation is imposeible: It is a matter of experience that workers in ill-rentilated shops suffer much more from ague and bronchitis than those who trork in the better buildings. The men who do this york are eallid mixers, and protect themselves to some extent by tying handkeichiefs orer the nose and mouth to prevent as far as possible inhalation of the fumes. From the mixers the work goes to tha. casters or founders, who remelt the pigs of cold brass, at a lower temperature than is required for melting copper, and pour jt inta the sand moulds, which are faced with a fine powder of "lonn. charcoal, coal, and bean flour. From this powder rises a demo cloud of dust, and from the molteu metal a cloud of zinc oxidr-, though not so much as in the mixing shop. Founders suffer principally from bronchitis, or asthma as they call it, and ague, thourd in a lesser degree than the mixers. From the casters the work goes to the warehouse, where it is sorted and sent to be polisherl, or dipped and bronzed.
By the polishers, emery, fine sand, lime, and rouge are uset wn rapidly rerolving brushes, or wooden wheels faced with leather: From these considerable dust is given off, and bronchial troultes are caused; but "ague" does not affect the polishers.
The dippers work under a shed open on all sides to the air, nin! immerse the brass in a weak solution of sulphuric acid; it is theu dipped into water, then into a stronger acid solution, aspain into Water, once more into acid, then into a solution of soda, finally into pure acid, and washed in water. There are always 'exlinhations of acid, and in warm weather these are especially troillesome. It is noteworthy that, though dippers do not suffer from ague or iatestinal troubles, their occupation is considered by masters and workmen alike to be the most unhealthy of all, in account of the great bronchial irritation from the acid fumest?
From the bronzers the work is sent to the lacquerers; who are nearly-always females, and suffer nothing from their occupation. From them it goes to the dressers to be fitted, and finally to the warehouse.
It will appear from this account of the process, that those whit deal with the molten mètal are the only ones to suffer from brais ague, while they, as well as those occupied in shops where there is much dust or acid fumes, are liable to bronchitis and nethmâ. Moreover, all brassworkers except dippers and lacquerer' ate subject to colic,' constipation, and rarious other disturbarces' if the gastro-intestinal system.
That Thackrah was in error in speaking of brass-ague is ali intermittent affection, occurring once a month or once a yetr, is clearly proved by the following positise observation, which is supported ly all brassworkers. Ague never occurs amony' the regular workers, but always affects those who are new to the work, or who resume work after an absence of eren a montlyor is fortnight. If a man resumes work, that is, melting or casting. after erer so brief an interval, he is sure to have an attack of agnt but he will have only one attack, and remain free until after his nextholiday. There is most certainly no kind of regular inflatmission, and, according to brassworkers themselves, they bnly suffer until they are inured to the poison.
The following are the symptoms of this so-called ague: alfer working a few hours, a man becomes languid, depressed, aull frils very cold. He is rery pale and almost in a state of collapise, this face is covered with a cold perspiration, he shivers, his teeth chatter, and he is restless and anxious. Itis head aches, therd is much nansea and complaint of inuscular pains. As a rule be poos or is led home, where he driuks freely of milk and goes to thr! The symptoms continue until he has vomited, cither as the reveli of taking an emetic or independently of it. Fomiting is uxuals followed by sle p or recorery, with more or less of debility anil lassitude on waking.

Drs. Greenhow and llogben speak of a more or less markeal hat stage following the coll, and following the hot stage they mention profuse sweating. The hot stage may be absent, bit the swritius. according to these writers, invariably occurs.
My own obscrvations, hased on inquiry amonsst those who hate suffered from this ague, have never elicited a statement of these hot and sweating stages. Eren direct questions as to thoir occurrence have always been met with positire negation, thluelt some have spoken of free perspiration in the stage of collapse. How to reconcile these-statements I do not know.
The eycle of events, as recorded by Greenhow, is just-that-of
ordinary ague, from which this discase differs, otherwise than in the auggested scquence of symptoms, in toto. The inquiries I have uade do not support such a sequenee, and certainly uot a relationghip to malarial ague. The symptoms are just such as would be eaused by the ingestion of a quantity of an irritant metal, sufficiently large to cause vomiting and its a tendant depreasion. Such, indeed, is my opinion of the eansation of the symptoms, and therefore the name "ague" should not be continued, as being wrongly suggestive and misleading.
It will be remembered that it is only when fresh to the work that brassworkers suffer from "ague;" but, though they do not sulfer from aeute metallic poisoning, they do suffer from its chronic cffects, and it is extremely probable that, as with arseme and opium eaters, they may beeome inured to the use of tho metals. It is not rery common for brassworkers to use toothLrushes, and the accumulating tartar will be found coloured green. If every effort be made to eleanse the teeth, there will yet be generally green discoloration of them. This has been proved to be due to the presence of eopper. White hair is often coloured green among these workmen, and the underclothing is often stained green by the perspiration. The gums may be slightly blackeued at the edges, but there is nothing distinctive at in the case of the blue line of lead poisoning; nor, indeed, beyond the green colouring of the hair and teeth, do brassworkers present any unequivocal evidence of their ealling.
Ague is not a disorder for whieh brassworkers consult a medical iman; they know how to treat it themselves, and also that it is transitory in its effects; but they come to hospitals in large numbers to be treated for bronchitis. About this there is nothing special. They suffer from it in common with all workers in dusty trades ; and, so far as 1 can learn from the secretary of the brassworkers' Organisation, they usually die from chronic bronchitia or fibroid phthisis, unless they suceumb to some acute malady.
The existence of nervous disorders, especially paralysis agitans, lias been said to be common amougst them, but I canuot find that a larger percentage of brassworkers than of the rest of the community suffer from diseases of the nervous system. It is eommon, however, amongst them to meet with complaints of disturbance of the digestive function. They suffer from dyspepsia, loss of appetite, gastro-intestinal catarrh, nausea, vomiting, metallie taste, thirst, colie, constipation, and diarrhea. They are often nervous and lypochondriaenl, complaining of headache and museular pains. There is nothing distinetive about any of these disorders, except the obstinacy with which they resist ordinary methods of treatment, and the readiness with whieh they yield to the administration of iodide of potassium in eombination with the other drugs indicated by the various conditions of ill-health. All the symptoms bear a remarkable resemblanee to those produced by chronic copper poisoning, and in Guy and Ferrier's Forensic Medicine an outhreak of copper poisoning from the use of copper vessels in cooking is recorded, in which the symptoms were almost identical with those here mentioned.
The inmates of a convent suffered severely from obstinate and severe colic, retehing, and bilious romiting, costiveness and thatulenee, burning pain in the pit of the stomach and extremities, and paralytie wenkness in the arm. According to Stevenson, it is impossible to distinguish between the symptoms produeed by ziuc aud copper poisoning; these are just such as brassworkers suffer from, and it is therefore impossible to say which metalcopper or zinc-is most concerned in the production of these ymptoms.
Dr. Greenhow attributes them all to the inhalation of the deflagrating zine; this forms zinc oxide, which is only sparingly if at all soluble. and therefore is not likely to be freely absorbed in the stouach; but he pays little or no attention to the common and chronic gastric and intestinal troubles to whiell brassworkers are laalie. These affect all those engaged in the various processes ly which either in vapour or in minute particles copper and zinethat is, brass-aredistributed in the atmosphere.

Dr. Ifoglen, on the other hand, considers eopper alone to be the enficient enuse of the syruptoms, and advances tho following arguments:

1. We have no evilence that the internal administration of zinc ever $p$ roduces the symptons of hrass-ague. Enormous doses of the oxide lave been ndministered without apparently producing the characteristie febrile reaction of brass-ague.
2. The malady is olserved in individuals whose work is other than casting.
3. The malady is not observed in operatives such as galvanised ironworkcrs, who work with zine and are exposed to its fumes.
4. Zine is rapidly excreted, and does not, like lead, mereury, or
copper, beeome fixed in the body, and produee elironic affections.
It seems more probable that, aecepting Stevenson's statement of the impossibility of distinguishing between the effects of acute copper or zinc poisoning, the symptoms of ague are due to an admixture of the two metals, whereas for the chronic complainta the copper is responsible.
How the practice of taking milk during an attaek of so-ealled ague has arisen is not clear, but its wisdom is proved by the fact that in cases both of eopper and zinc poisoning, milk is one of the best antidotes, since it precipitates both these metals into insoluble albuminates.
It is abundantly evident that brassworkers are specially liable to diseases from the use of the metals employed in its manufacture, but they are not new disorders; they are either proofs of ehronie poisoning by zinc or eopper, or as in the so-called ague are due to intoxication by them.
For mueh of my information as to the effects of this work am indebted to Mr. Lilly, the local secretary of the Brassworker: Association.

## ON TESTING THE COMPETENCY OF THE VALVES OF THE HEART BY MEANS OF AIR.

By D. J. HAMILTON, M.B., F.R.C.S.E., F.R.S.E., Professor of Pathology, University of Aberdeon.

THE ordinary method of testing the competency of the valves the heart with water is admittedly faulty in many respects. can be applied only to the aortie and pulmonary artery orifices and even with them the pressure of $1 \frac{1}{2}$ to 2 inches of watel whieh alone can be retained in the attached portions of the vessel does not represent anything like the pressure to which they ar naturally subjected. Hence a valve which during life might hav been sufficiently ineompetent to give rise to a murmur, may b found after death to be perfectly competent. The water metbo is also defective from the fact that the cusps of the valve are nc seen in motion, so that the mechanism by which a murmur ma have been elicited is incapable of being demonstrated in the pos mortem room. We possess, moreover, no exact method of gaugin the amount of incompetency of the mitral and tricuspid, nor ascertaining when they are competent.
For some time past 1 have been in the habit of demonstrating my elass the natural aetion of the valves by driving air into the instead of water, and also of reproducing the murmurs heard disease of the valves by several simple modificatious of the san method.
The ascending aorta with the attached valve is cut off from t heart of an ox. A brass tube attached to a betlows is introduc into the distal end of the aorta, The aorta is now fixed in nearly as possible its natural position, and air is driven in fro the bellows with a sharp cliek, so as to imitate as closely as $m$ be the effect of the arterial recoil. With each inflation of $t$ bellows the eusps are retraeted, to be closed again as soon as $t$ air is expelled; and so perfect is their adaptation, even aft death, that mot only do they prove perfectly competent when t heart is healthy, but the sharp sound elicited bears a remarkal resemblanee to the seeond sound of the heart. The valve can turned up in any position, so as to be made readily visiblo to whole elass.
The same means may be employed to display the action of pulmonary artery valve. In the case of the nitral and tricusp the respeetive aurieles ahould be cut away close down to orifices. The nozzle is pushed down through the norta or pula nary artery, as the ease may be, past the valve, so the vessel well into the cavity of the ventricle.
as to pruck me that the same means might be utilised for testi the competeney of the valves in the post-mortem room; a having employed the method lately in a number of eases, 1 that it works admirably. It can be applied almost as quiekly the water test. and has the great advantage of being availa for all the orifices.
Tho procedure 1 adopt is the following. An opening is m into the left auricle, 80 as to expose the auricular aspect of
mitral. Any past-mortem clots which may bo adhering to the edge of the valve are removed rith care, so as not to disturb the position of the cusps. An aperture sufficiently large to admit the brass nozzIe is next made into the apex of the left ventricle in the line of incision which will afterwards be required to lay the ventricle open. The nozzle is then introduced, and air driven in by the bellows in the manner before described. The heart should meanwhile be suspended by the cut edges of the auricle. A series of hooks fixed on supports is useful for this purpose, the supports being movable so as to allow of the proper apposition of the cusps.

The slightest incompetency can be detected quite as much by the irregular mamer in which the cusps mutnally adjust themselves, as by the escape of air between tliem.

The same means of demonstration is to be followed in the case of the tricuspid; and, after its condition has bcen ascertained, the incision in the left ventricle is carried up as close as possible to the root of the aorta, without, of course, injuring the aortic ring. The heart is now suspended, as before, by the cut edges of the ventricle, and the nozzle is tied into the distal end of the aorta. The aorta should either be cut off at the termination of the ascending part of the arch, or be laid open up to this point. The nozzle both in the case of the mitral and in that of the aortic may be simply held in with the hand, or it may be tied in; or, what is even preferable, a simple clamp apparatus may be attached to its extremity, which seizes the cut edge of the vessel or cavity into which the nozzle is introduced, and holds it air-tight or nearly so. In watching the action of the valve, the ventricular aspect should be turned upwards, the air being driven in from below.

The pulmonary artery orifice is next tested iu the same manner. In a perfectly healthy heart it will be found that the rortic, mitral, and pulmonary artery ralves are quite competent, but, so far as my present experience goes, I hare never met with a tricuspid in man which will stand the test. There is always a light leakage, even when the cusps are perfectly free to move.

## HHE, PROCESS OF COMPENSATION AND SOME OF ITN BEARINGS ON PROGNOSIS AND TREATHENT.

By EYROM BRAMWELL, M.D., F.R.C.P.Edin.,

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## (Concluded from page SLO.)

Compensation in Cardiac Lesions.-One of the most common and bbious methods of compensation is the increase (hypertrophy) of nuscular tissue which takes place in muscular tubes and musular ergans when an increascd effort is frequently and rereatedly demanded of them. The hypertrophy of the bladder, besophagus, and intestine in cases of organic stricture are familiar amples; but there is, perhaps, no organ in which compensatory 1ypertroply is more beautifully developed than in the beart. But, althougl hypertrophy of its mascular walls is by far the nost important manner in which valvular lesions are compenAted, it must also be remembered that in some forms of valvilar lisease a certain limited amomat of dilatation and alterations in he frequency of the cardiac contractions alsa take part in the ompensation, and assist the hypertropliy to restore and maintain he balance of the circulation. It may be stated broadly that in bstructive valvular lesions compensation is effected by muscular ypertroplry, aided, in some cases, by slowing of the cardiac otion, while rugurgitant lesions are compensated by hyperrophy, aitled hy a certain but strictly limited anoount of dilaation, and it may be by increased frequency of the cardiac conractions. The manner in which the different valvalar lesions are ompensuted is brietly as follows:-

In stenosi of the dortic orifice. compensation is ehiefly effected y hypertrophy of the left ventricle, by means of which an inreased quantity of hood is forced throngl the narrowed orifiee t each ventricilar contraction. The duration of the ventricular ystole is at the same time lengthanod, while the frequency of the ardiac contractinns is diminished rather than increased, with the esult that more time is uftorded for the hypertrophied left venricle to discharge its contents. In aortic stenosis, dilatation of de left ventricle aftords no aid as a means of compensation, and rhen it does occur, it is a secondary and injurious rasult.

In stenosis of the mitral orifice, compensation is partly due to hypertrophy of the left auricle, but chiefly to hypertrophy of the right ventricle. Prolongation of the ventricular diastole, increased duration of the auricular systole, and slow action of the leart are also, when present, important factors in the compensation, since they facilitate the flow of an increased quantity of blood througl the stenosed orifice during each cycle of the heart. At the best, however, the compensation in severe mitral stenosis is imperfect, much less perfect than it is in many cases of aortic stenosis, for even when fully developed the pulmonary circulation is subject to some strain. The most that the compensation can do in mitral stenosis is to enable the left rentricle to supply an adequate quantity of blood to the peripheral tissues, and to protect the organs and tissues which are situated behind the right heart from the effects of venous engargement. In mitral stenosis, the pulmonary circulation is exposed to engorgement and all its secondary consequences, for the obstruction in front (that is, at the mitral orifice) is nat suddenly relieved, as it is in mitral regurgitation, by the bursting open of the mitral valre and the suction action of the left ventricle. Even in thase cases, then, in which the compensation is most perfect, the blood-vessels of the lung are exposed (in consequence of the obstruction in front and the powerful action of the right ventricle behind) to increased pressure and the injurious consequences which may result therefrom.

In stenosis of the pulmonary orifice, compensation is partly due to hypertrophy of the wall of the right rentricle, but chiefly in congenital cases (which comprise the great majority of cases of pulmonary stenosis) to the fact that the foramen ovale remains patent and allows a portion of the blood to aroid the lungs and to make a short cut, as it were, from the right to the, left heart. The imperfectaëration of the blood which results from this arrangement is, of course, a disadvantage, and the compensation is, consequently, always imperfect; but if the foramen ovale did not remain open, the circulation could not be carried on with the extreme contraction of the pulmonary orifice which is present in some cases of this description, for the blood which could get through the contracted pulmonary orifice and lungs to the left. heart would be inadequate to distend the arterial system, while the engorgement of the renous circnlation behind the lesion would be too great to allow of the long continuance of life.
In incompetence of the cortic orifice, compensation is effected clisefly by hypertrophy of the left ventricle, partly by a certain but limited amount of dilatation of the left rentricle, and partly by shortening of the ventricular diastole, and, it may be, by increased frequency of the cardirc contractions. When the dilatation of the left ventricle is just sufficient to accommodate the blood which regurgitates througl the aortic orifice, and, at the same time, to receive the normal quantity of blood from the left auricle, and, when the hypertrophy is sufficiently great to eaable the cavity to empty itself at each systole, compensation is as perfect as circumstances will allow. The circulation in the parts behind the mitral ralre is little, if at all, interfered with; and, provided that the arterial anremia, due to regurgitation from the, aorta during the ventricular diastole, is not great, there are few, if any, symptoms. But in free aortic regurgitation, compensation can never be perfect for any length of time, for a greater amount. of dilatation than the thearetical minimum required for the perfect restoration of the balance of the circulation is sooner or later established; this necessitates a proportionate excess of bypertrophy if the cavity is to be completely and satisfactorily emptied, and this dilatation and hypertrophy tend to go on inereasing. Argin, the increased frequency of the cardiac contractions and the diminished duration of the ventricular diastale prevent the normal amount of blood flowing into the left ventricle from the left auricle, and conscquently tend to cause some obstruction to the blood-flow hehind tle mitral valve and left heart. The sudden and excessive distension of the arterial system is also apt to produce lilatation in the norta and the vessels arising from it.

In incompetemee of the mitral orifice, compensation is effected in a still more complicated manner-namely, partly by dilatation and hypertrophy of the left auricle, partly by hypertrophy of the right ventricle, partly by diatation and hypertrophy of the left ventricle, and perlisps to some slight extent by diminished duration of the rentricular diastole and increased frequency of the lieart beats.

When the dilatation of tho left auricle is just sufficient to accommodate the blood which regurgitates through the mitral orifice, and at the same time to receive the normal amount of
hood passing to it from the lungs; when the hypertroply of the right ventricle and left auricle is suflicient to drive the normal amount of blood through the lungs and to empty the left auricle of the normal and abhormal (regurgitant) blood which it is just sufficiently dilated to contain; slien the left ventricle is sufficieitly dilated to receive the almormally large quantity of blood from the left auricle, and sumfiently hypertrophied to expel all the blood (part of it yassing forwards into the aorta in the normal course, and part passing hack into the left auricle), the compensation is as satisfuctory as it is possible to be under the circumstances'; but in free regurgitation satisfactory compensation does not, as a rule, last long.
In mitral regurgitation, so long as the compensation is good, the engorgement of the pulmonary circulation is not so continuous as it is in mitral stenosis, for relief is afforded and pressure is removed with the occurrence of ventricular dinstole and the lursting open of the mitral valve. But in free mitral regurgitation the theoretical minimum of dilatation of the left auricle 'required for satisfactory compensatiou is sooner or later exceeded;' the lungs become engorged, and there is a tendency to dilatation both of the left and right ventricles; to venous engorgement in the parts behind the right heart, and to arterial anremia in the parts in front of the left heart, and hence to the production of symptoms.

In incompetence of the tricuspid orifice, the compensation can never be satisfactory if the regurgitation is at aill. free. Compensation in this case entirely depends upon the condition of the right' auriele. If the cavity of the right auricle could become tates from the right rentricle and at the same time to receive the normal amount of blood passing into it from the venæ cave, and if its wall could become sufficiently hypertrophied to expel all this blood into the right ventricle, the compensation would be as perfect as it could lie under the circumstances. As a matter of fact, too much dilatation and too little hypertrophy are almost always the result; and even in the earlier stages of nnything like free tricnspid regurgitation, engorgement of the peripheral venous circnlation takes place.
The relative order of gravity of the different cardiac valcular lesions is a question thich has given rise to a good deal of debate, though authoritios are now pretty well agreed. except perhaps as regards the relative gravity of aortic regurgitation and mitral
stenosis. I shall be glad to hear the opinion of stenosis. I shall be glad th hear the opinion of members on this point: For my own part, I believe, for the reasons advanced above, that frec aortic incompetence is, as a gencral rule, more progressive and more rapidly fatal than advanced mitrnl stenosis. It seems to me that in free aortic regurgitation the lesion must of
necessity get the upper hand quate before very long, bitt that there is no such necessity in advanced stenosis, provided that the patient leads a quiet, regetative life. The following is a case in point.
Some few years after entering practice 1 examined post mortem the body of a woman, nged 56 , who had been under my father's observation with advanced mitral disense for more than thirty years. 'For the greater part of this long period she had been a helpless cripple rom leit-sided hemiplecia, the result of embolic plagging of the right middle cercbral artery, no had lived a vegetative 1 ne. The mitral yalve whs so much contracted that it
would not admit would not admit of the tip of the little finger; and, still more remarative, considering the extreme mitral stenosis and the comparative absence of all hng symptoms, the left ling was, to a much dilated left auricle, and bound by adhesions to the upper and back part of the chcst.
Yow I very mucl doubt if a relatively great aortic incompetence could have been compensated and tolerated (even under the same circumstances) for such a length of time. 1 am prepared, therefore, to allow that a free and progressive aortic regurgitation of necessity tends to a more rapid breakdown of the compensation than an advanced degree of mitral stenosis, even when all the other conditions for compensation are as favolrable as could be wished. 1 belinee this istainly exceptions to it-cases, on the
serious one, but there are eerta one hand, in which free aortic incompetence is tolerated for a long time, and, on the other, cases of mitral stenosis in which compensation fails much more quickly than is usually the case ; hut when the lesion is slight in degree or stationary, aortic incompotence is 1 think in many cases-and this is perhaps the general patence is 1 think in many eases-and this is peraaps the general
rnde-lezs serious than mitral- stenoziz: Slight aortic focompe-
tence causes, in my experienee, less disturbance of the circulation, less discomfort to the patient, is compatible with $n$ more active and often also with a longer life, than the same (relative) amount of mitral stenosis. The "accidental risk" of nortic incompetence (death from syncope) is also, I tbink, less in such (relatively slight and not progressive) cases, than the "accidental risk" of mitral stenosis, namely, embolism.

From this description it will be apparent that hypertrophy of the muscular wall of some one or other of the cardiac carities is the chief means by which valnular lesions are compensated. When, therefore, an organic ralyular lesion is established, and more especially when that lesion is a serious one, or when, though slight at first, it is progressivc, the prognosis depends largely on the probalility of a sufticient and satisfactory amount of muscular liypertroply being produced.
It must, of course, be remembered that in forming a forecast or prognosis in cases of cardiac valvular disease, many other con-siderations-besides the capability of a sufficient amount of muscular hypertrophy being prodnced-have to
account. In fact, the more important points which enable us to account. In fact, the more important points which enable us to
determine the prognosis are as follows: (1) the form of valvular disease and the risk of its causing sudden death : (2) the severity of the lesion; (3) the stationary or progressive character of the lesion; (4) the capability of compensation in the heart itself and the power of resistance possessed by the peripheral tissues; (5) the
occupation, circumstances, and surroundings of occupation, circumstances, and of his carrying one patient, and the possibinity or probabinty on his carrying out the treatment
which is recommended; (6) the mental temperame (7) the presence presence or absence of disease of the kidney. Time does not permit me to enter into details with regard to all these matters; nor, indeed, do I desire to do so, for I have already considered most of them elsewhere. ${ }^{5}$

But I may perhaps be allowed to say that for the production and maintenance of a suflicient'and satisfactory muscular hypertrophy the following conditions are necessary:-

1. The muscular tissue must be healthy, or at all events suficiently healthy to become hypertrophied. When the wall of the heart is in a condition, of fatty degeneration or fibroid disease the hypertrophy is ne ver very satisfactory.
-. The cardiac muscle must receive a sufficient supply of healths arterial blood.
2. The waste products of its combustion must be sufficiently quickly removed.
3. Its trophic nerve apparatus must be healthy. In short, the henrt musele must possess the conditions which are essential fo rapid development and healtly growth.
The age of the patient, the etiology of the case, and the facilit, with which the cardiac muscle responds to cardiac tonics (digital patient and the state of the other tissues and organs, are the chie means by which we endearo
dition of the cardiac muscle
In young persons the muscular tissue is, as a rule, healthier, an the capabilities of repair and of the production of compensator liypertrophy are generally greater than in older people. Whe too, the valvular lesion has resulted from acute endocarditis, th the lesion is due to atheroma or senile or degenerative change
ther There are, however, many exceptions to this general statemen The endocarditis may have been complicated with pericarditis, with myoearditis, and the ralvular lesion may therefore be ass terfere with the production of satisfactory hypertrophy, an materially add to the gravity of the case. It must not, indeed, supposed that in cases of cardiac valrular disease all the adva tages arc on the side of youth. In old people who lead qui regetative lives there is little strain put upon the damaged hear
and for the and for this reason, if other things were nt all equal, the vairu repeated and renewed compensation would certainly be le than in children, youths, and active adults, whoare with difficul kept quict, and who, notwithstanding all the advice which we c give them, are only too apt to over-exert t
iniurious strain upon the damager
injurious strain upon the damaged heart. In trying to ascertnin whether a sufficient nmount of arteri 5 See my Discaces of the Heart. Sections devoted to the general patholong

blood is aupplied to the cardiac musele, and whether the praducts of its waste are satisfactorily removed, we observe the condition of the peripheral, arterial, and venous circulations.

A badly filled radial pulse or atheroma of the superficial vessels is suggestive that the cormary arteries are ulso badly filled or diseased, and therefore that the supply of arterial blood to the muscular wall of the leart is deficient. Lngina-like pain in the region of the heart is also suggestive of disease of the coronary arteries, and of fibroid or fatty changes in the wall of the heart.

A dilated right heart and engorgement of the systemic veins suggest that the veins of the heart are also eugorged, and that the removal of waste products from the cardiac muscle is defective.

As yet we have no satisfactory means of ascertaining the condition of the trophic nerve apparatus connected with the heart. Indead the exact nature of thismechanism is not as yet thoroughly understood, though Gaskell's brilliant researches seem to show that the vagus exerts some sort of stimulating aud trophic influence upon the cardiac muscle. But be that as it may, the course of cardiac valvular lesions (and perhaps, too, the amount of muscular hypertrophy, and compensation which are developed) is largely determined by the condition of the nervous system, and by the mental temperament of the patient. In no affections are the beneficial results of a healthy nervous system, and of a serene, happy, placid disposition more manifest than in cardiac valrular lesions.

The power; of pesistance possessed by the peripheral tissues and organs to the injurious effects of cardiac valvular lesions depends, as in the case of the heart itsalf, upon (I) the condition, healthy or otherwise, of the peripheral tissues; and (2) the fact whether the conditions for their nutrition are satisfactory or not.

Here, as in the case of the heart muscle itself, the tissue must receive an adequate supply of healthy arterial blood; the waste products of its metabolism must be satisfactorily removed, and its trophic condition must be satisfactorily regulated by the nervous system.

It is quite obvious, therefore, that the presence or absence of complicatious, more especially of diseased conditions of the stomach and other organs which manufacture the nutrient fluid; of the kidneys, liver, and intestines and other organs, which purify it: and of the nervous system, which exerts such an important influence upon all the processes of nutrition and resistance are most important factors in enabling the peripheral tissues to resist the injurious effects of valpular lesions, and to protect themselves (in some cases by the production of an increased amount of connective tissue) against the injurious effects of venous engorgement. And, vice versâ, that the presence of disease in any of these organs adds most materially to the gravity of the prognosis.

The important bearing which these facts have in the treatment of cardiac valvular lesions is obvious. It is now an acknowledged axiom in cardiac therapeutics that the muscular hypertrophy, which was at one time thought to he injurious, and, therefore, a condition to be attacked and removed by treatment, is the best thing whicli can result under the circumstances, and is, therefore, to be encouraged. Our therapeutic efforts are now directed to sustaining the vitality of the cardiac muscle. Our main object is to reduce and removo the lesion on which the cardiac hypertrophy depends, lut, so long as the lesion persists, to sustain the hypertrophy, which is Natures chief means of compensating it. The more I see of cardiac valvular lesions, the more I am convinced that digitalis, strophanthus, and other remedies of a similar kind, are mnch too freely and too frequently used in the earlier stages, and that the indiscriminate use of these remedies is often most iajurious. It is only when compensation fails, either in the earlier atages, as the result of some temporary overbalance of tha compeasation, such as is so frequently occasioned in mitral cases by an intercurrent attnck of bronchitis, or, in the later stages, when the period has at length arrived at which Nature's reserve is exhausted, when the lesion has gained the upper hand, wheu the cardiac muscular fibre is nndergoing degenorative clinnges, and when dilatation is succeeding to hypertrophy, that digitalis or other remedies are called for. So long as the natural compensation is sufficient to meet the lesion, our chief efforts should be directed, first, to removing all sources of cardiac strain and excitement. Secondly, to maintnining the general health in the best possible state of efficiency; hy (a) careful regulation of the diet, exercise, rest, sleep, whole mado of life, sud geueral hygienic condition of the pationt; $(b)$ by attentiou to the condition of the
blood-forming and blood-depurating organs, more especially of the stanach, liver, intestine, kidneys, and skin; (c) by the administration of such general tonics as arsenic, quinue, aud strychnine: and (d) by avoiding all causes of nervous exhaustion, and hy pro motiag, as far as possible, a tranquil, happy, and healthful state of mind. And here I must again empliasise the all-important infuence which the mental condition has upon all the processes of nutrition and repair, and the value of what I term mental thera-peutics-the influence produced on the mind of the patient by a judicious and hopeful medical adviser, ly the avoidance of all worry and anxiety, and by cheerful and pleassint surroundings. Thirdly, to avoid all conditions which are likely to aggravate the lesion or to produce those complications and accidents to which the disease predisposes and renders the patient liable.

The Importance of forming a Correct Listimate of the "Reserve," for the Purposes of Prognosis.-In forming an opinion as to the chances of recovery, both in acute and chronic affections, it is of the utmost importance to endearour to estimate correctly the amount of reserve on which the patient can fall back, and the power of compensation which he possesses. In order that this estimate may be correct, it is necessary (I) to be acquainted with the mental temperament of the patient; for this, as I have elsewhers tried to show, exercises a most important influence on the chances of recovery, more especially in cases of acute disease (Practical Medicine and Medical Diagnosis, page Itl); and (2) to gauge correctly the condition, not only of the part which is primarily affected, but of all the tissues and organs. In illustration of the importance of the latter point, l need only instance the extreme gravity of acute croupous pneumonia in the presence of a weak or fatty heart, and of typhus or typhoid fever wheu the kidneys are diseased. The advantage which a knowledge of these particulars gives the ordinary medical attendant over the consultant is so obrious that I need hardly refer to it.

Compensatory Protection. - Closely allied to these processes, which we truly term compensatory, by which Nature eudeavours to counteract or minimise the effects of lesions such as I have already described, there are many other methorls by means of which the causes of disease are get rid of, or the injurious effects of disease prevented. The vomiting and liarrhoa which are due to the introduction of irritants into the stomach or intestine; the contraction of the peripheral blood-vessels which results from exposure to external cold; the board-like rigidity of the abdominal muscles which is present in perityphlitis; and many reflex nerre alternations, such, for example, as the beautiful, reflex process by Which the peripheral blood-yessels are relaxed when too great strain is suddeuly thrown on the left ventricle of the heart, may be mentioned as illustrations.

Probably the process of suppuration, as Mr. Bland Sutton has so ingeniously theorised, is also a protective and compensatory condition, the pus corpuscles endearouring to take up, derour as it were, and carry off the irritative particles on which the infammatory condition depends.

Whether the pyrexia which so frequently follows the introduction of noxious materials-more especially particulate organic poisons-into the blood has any beneficial and compensatory action, or whether it is wholly injurious, we do not at present know.

The adhesire inflammation which prevents the production of pneumothorax in cases of phthisis and the perforation and peritonitis in some cases of ulcer of the stomach, and the obliterative process which seals up the blood-ressels and prevents the occurrence of hemoptysis in cases of phthisis are also beautiful examples of Nature's protective processes.
The Falue of the Local Applications of Cold in the Treatment of IIamoptysis; and the Treatment of Acute Perforative Peri-tonitis.-And here I would raise two practical questious: First, what, in the opinion of the nembers of the Branch, is the value of the local application of cold to the extcrior of the body in the treatment of hremoptysis, and indeed in the treatment of localised internal inflammations sucl as acute pericarditis or acute peritonitis?

Although personally I have until comparatively recently been in the habit of recommending the application of an ice-bag to the surface of the chest, at a point superficial to what appears to be the source of the bleeding in cases of hremoptysis, I have never felt thoronghly satisfied as to the practical value of the treatment, and for some time past l laye liad grave doubts as to the correctness of the thoory on which it is based. It is supposed
that the local applieation of cold produces, by means of reffex nerre action, contraetion of tho blood vessels of the internal organ. Which is situnted beneath the part of the surface to which the cold is applied. But the experiments of Dr. Milne Murray, and the practical experience hoth of surgeons and gynecolagists have conclusively shown that the application of very hot water is a much more powerful means of arresting hemorrhage and of producing marked and sustained contraction of the blood-vessels than the local application of cold water. The question naturally arises whether, instead of applying an jee-hag, we should not rather apply a hag eontaining very hot water over the part of the surface which is superficial to an inflamed or bleeding part. I have hopes that Dr. Ailne Murray will clear up this very important practical question by an additional series of experiments; but pending such direct evidence I shall be glad to elicit the opinion and to learn the practice of the members of the Braneh on this point.

Secondly, I would ask has any gentleman present seen a case of recovery from peritonitis due to the perforation of an ulcer of the stomach; and what practiceis it advisable to adopit in the treatment of this most serious accident?
l'ersonally 1 have never seen ncase of recovery, though eases do without doubt occur. For my own part, I am disposed to think (since by means of transfusion we are able to temporarily restore the patient, and so greatly minimise the danger of death from sliock during or soon after the operation) that the proper plan of treatment is first to transfuse the patient, and then to open the abdomen, wash out the peritonemm, and stitch up the opening in the stomach. I am not of course ohlivious of the gravity of this procedure and of the difficulty, perhaps tho impossibility, that there rould often be of carrying it out in private praetice; but I shall be glad to hear the opinion of the surgeons on the point.

Euphoria.- Whether the feeling of well-being and hopefulness which is present in some affections, notably in many cases of phthisis, has any special or beneficial effect on this disease, and why this peeuliar condition of mind is associated with some affections, and preennt in some cases and not in othera, it is perhaps impossible to say. That the opposite condition of mental depression, Which is often associated with derangement of the functions of derangement of the functions of the liver, has a distinctly prejudieial effect, no one. I presume, will deny. The eansation and significance of the remarkakle hopefulness which is present in some cases of advanced organic disease refuires, I think, more attention than that which it has hitherto received. One of the most remarkable cases of the kind whiclt has come under my own observation oreurred in the person of a medical friend, aged, 1 think. WG. While in eharge of an important appointment in the Indian Medical Service he began to fail in health. He was seen hy several medical men, and a small hard tumour about the size of an egg was discovered in the epigastric region. The patient was of an extremely nervous and anxious disposition, and since the exact nature of the tumour wras II to the heart; and $P$ to the pulmonary artery.
not very obvious, it was not thought advisable to inform him of its presence. He was therefore advised to come home on sick leave; this he accordingly did. He arrived in Edinburgh some two months after the tumour was first noticed, under the firm belief that there was nothing of any importance the matter with him, and that his great weakness and extreme emaciation were entirely due to the effects of rery small doses of morphine, writich he had been in the habit of taking on the voyage to relieve the uneasiness (not actual pain) which he felt in the abdomen. Both the patient and his wife, a most intelligent, sensible, and soberminded lady, were fully persuaded that there was no serious organie disease, and that the patient had only to come to Edinburgh to get thoroughly restored to health. I saw the patient a few hours after his arrival, and my wonder was that he had been able to complete his journey. Profoundly cachectic-looking, emaciated to the last degree, ao weak that he was unahle to walk across the room, with an unlealthy sloughing uleeration of a fer days' duration on the cornea, it was obvious, without any further examination, that he was dying from some serious organic disease. On uncovering the abdomen the cause was at onee apparent, for a large tumour, fully the size of a child's head, of great hardness, and evidently malignant, occupied the upper and central part. of the carity. The new growth appeared to be (cbiefly, at all events) an enlargement of the abdominal glarrds; but as no post-mortem examination was made, the exact connections of the tumour and the organs which were involved were not ascertained. Both the patient and his wife seemed amazed when the presence of the tumour wus pointed ont to them. How it could possibly have escaped the attention of the patient, a most cultured aud intelligent medical man, I am utterly unable to conceive, for it was impossible to place the hand on the abdomen without at onee recognising the large tumour and its dense, hard, character. Fothing, of course; in the way of an operation was possible, though Dr. Keith was lind enough to see the patient with me, and to corroborate my opinion on this point. The patient died, 1 Fig. 8.-The heart and thoracic aorta in the case of J. G., from the front, showing an enormous aneurysm of the ascending and transverse portions of the aortic arch (copled from a photograph of the driert preparation). The size of the preparation is $10 \frac{1}{2}$ Inches vertically and inches transversely. sures 41 taches vertically and $3 \frac{1}{2}$ inches transversely. The letter $A$ points to the descending thoracic aorta; $B$ to the innominate artery, from which a plece of conton-wonl is projecting; $C$ to the left common carotid, and $I$ to the left of conton-wonl is projecting: C the $F$ to the cesophagus; $G$ to the ancurysm ;
 I snw him first. out any apparent suffering or listress, is sometimes very re markable. Why there should be this extraordinary tolerane in some cases and not in others, it is difficult to say. On most remarkable cases of the kind whieli has eom ander my own personal ohservation was a case of aneurysmo familine with the fnct that sudden death not infrequently reanlt from the rupture of a thoracic aneurysm whose prescnce was un suspected during life. In most cases of this kind the aneurgen is of small size, usually deep seated, often arising from the firs part (root) of the aorta; and seldom so situated as to have com pressed such important structures as the osophagus and trache

The ease which I am about to relate is a remarkable exception to these statements. It is probahly unique when the enormous size of the tumour is considered (it is, I think, the largest entirely intrathoracie aneurysmal sac which has eome under my own notice), and when it is remembered that there is an entire absence of symptoms, the patient having regularly followed his emplosment without ever making complaint of illness nntil an accident to the eye caused him to seek admission to the infirmary, where the aneurysm was diseovered almost by aeeident the very day before the fatal rupture oecurred. Further, it is important to note that not only was the main tumour of such great size, but that a small secondary sac (which eannot be seen in the figures) sprang from the primary tumour, and was in direct contact with the trachea. It is remarkable that, so far as I have been able to ascertain, the patient did not complain of shortness of breath until the night before he died, for the small secondary aneurysmal sac was not only in eontaet with, but had evidently pressed upon and flattened the trachea. The notes of the ease are as follows:-
Enormous aneurysm of the ascending and transierse portions of the aortic arch, entire absence of symptoms, death from rupture into the left pleural cavity.
J. G., aged 58 , was admitted to the Edinburgh Royal Infirmary under the care of Dr. Argyll Rolertson on Mareh 11th, I885, suffering from an injury to the right cye. The patient stated that on March 9th a picee of wood struek his eye with great force. ${ }^{2}$ Upon admission the lens was found in the anterior clamber; it had alrealy caused a considerable amount of irritation.
On Mareh 12th, Dr. Rolertson (to whom 1 am indebted for this clinical note) remored the lens with the scoor). On the evening of March Itth, the patient complaiued of difficulty of breathing, and when examined by the elinical clerk, Mr. Pettie, he was sitting up and labouring under considerable dyspmea. In the course of a little time, and after the administraion of an antispasmodic, the lificulty of breathing sulisided. Mr. Pettie then eximined the cliest, and foumd xtensive dulness and very narked hearing pulsation Wer the wholo of the upper mirt of the front of the thorax, more espeeially on the left side. ihe following day. Marel $1 \overline{5} t h$, the patient suddenly died, before wy further examination of the eliest had been made.
The post-mortem examination was made by me on Mareh Isth, 885. The body was well nourished, and the patient had evilently been a very muscular man. The capacity of the thorax ras great in proportion to his height, the length of the body wing 66 inches, and the eircumference of the thocax 41 incles.
The left pleural cavity was filled with blood, for the most part loted, which had esenped from a luge aneurysmal sae, which ceupied a large part of the thoracie cavity (see Figs. 8 and 9). he aueurysm involved the terminations of the aseending and the thole of the transverse portion of the arch of the aorta. It was lobular in form, and measured transiersely (from a point a little
above the letter P, to a point a little below the letter G. in Fig. \&) 21 inches: and in circumference, the tape being passed round the distended and dried sac between the left subclarian artery (D) andl the trachea ( E , in Fig. 8) 16 inches. Without any exaggeration. the distended dried sae is larger than a eliild's head.

A small seeondary sac, about the size of a walnut, sprang from the upper and posterior surfaee of the large tumour, and presser direetly upon the trachea. This pressure had evidently been considerable, for the traehea was distinctly compressed and flattened. The aneurysm eontained a large quantity of laminated clot; the sae had ruptured just above the root of the left lung, and a very large quantity of blood had escaped through the wide laceration into the sac of the left pleura. The aneurysm was in contact behind with the traehea, cesophagus, and spinal column : there had apparently been little if any pressure on the spinal column, for there was no erosion of the vertebre. The left lung was extensively adherent to the exterior of the tumour; and the left recurrent and vagus nerves were incorporated in the anterior wall of the sac.
The sac wall was remarkably friable, and on mieroscopie examination the structures composing it were found to be markedly fatty. The heart was of small size; it was not weighed, for this would have necessitated deBtaehing it from the anenrysmal sae. The exterior of the heart was covered with a moderately thick layer of fat; the muscular tissue of the organ was in an adranced condition of fatty degeneration; its valves were healthy:
The question naturally arises whether this fatty condition of the heart and the low arterial tension which we would expect in such a condition may not to some extent account for the absence of symptoms in this remarkable case. The deseending thoracic aorta and the great ressels arising from the sac were dilated. The lungs were deeply pigmented, but otherwise healthy. l'ermission was restricted to the eavity of the thorax; the other organs were consequently not examined.
The history of the case seemed so remarkable that I mrote to Messrs. Tanered, Arrol and Co., in whose employment the patient was; and also to Dr. James llunter, the medical officer of the Forth Bridge Works.
1 append the answers which they kindly sent me. It is, perhaps, right to mention that the men emplojed at the Forth Bridge Works can lave the benefit of Dr. Hunters adrice and attendanee simply by asking for it. It is, therefore, very mulikely that this mau could have been ill witlout Dr. Ilunter liearing of it.

Copy of T.etter from Messrs. Tancred, Arrol and Co.
"Forth Pridge Works, South Queensferry, N.B., June 16th, 1885. Dear Sir,-Referring to yours of yesterlay, we have the pleasure in giving yon the followiug information. The man you refer to worked liere under the name of J. G. for about two years, first as a fitter, but latterly in looking after the planiug machine, neither of which is heary or severe work. So far as we can make
ant be was not. under werlical care here, nor did, he complain of jllma at any time. Wie trust the ahove information will suit Your bimpose, mul are, yours faithfully, Tascrev, Araol and Co. or. byroun liramweilh."
(opy of Letter from 7)r. James Ilunter.
Thu IPriory, (Queensferry, Jecember 29th, 1887. Dear Dr. Brimwell,-J. G. was a member of the Forth Bridge Workmen's (luli, in virtue of which he was entitled to medical advice at any time. Up to the date on which he met with the accident to hi, oye 1 had not been asked to see him professionally. Indced, fan not aware that he was on any occasion absent from his duties at the hridge.-Tours sincerely, James llunter."
The detalls of another case of aneurysm (which is reported in the EVivburyh Medical Journal for Aprii, I888) were also given, in which the patient was able to work for a period of eight years rvilf an aneurysm projecting through the front wall of the thorax.

CASE OF SERIOUS<br>THE CAVITY OF<br>HEMORRHAGE FROM THE TYMPANUM IN AN MNFAN'T (OTITIS MEDIA<br>\section*{H.EMORRHAGICA).}

## By tIOMAS BARR, M.D.,

Surgeou to tho Glasgovr Ear Hospital ; Lecturer on Aural Surgery, Anderson's College, ete

Blwidina from the ear may occur in varions affections of that rran. Thus it is not uncommon in purulent diseases associated with polypi, gramulation tissue, or caries; in these conditions, however, it is rarely more than sufficient to tinge the discharge. A moderate escape of blood is also not unusual in otitis externa and in myringitis, from the rupture of hrmorrhagic elevations, aither on the osseous portiou of the external canal or on the tympanic membrane. In otitis media hemorrhagica the source of the hismorrlage, as the name implies, is the middle ear, especially the crivity of the tympanum, the mucous membrane of which is in a state of acute inflammation. The walls of the distended and engorged vessels give way, blood is poured into the cavity of the tympanum, the tympanic membrane is ruptured, and hemorrhage takes place externally. The following case is probably unique in roppect of (1) the tender age of the patient, and (2) the serions loss of blood. A haby (girl) of $9 \frac{1}{2}$ months was sent to me on Novernher 17 th last by Dr. Sinclair Kennedy, of Perth. I was informed that, five weeks previously, the baby had become restless, ineasy, and sleepless, apparently from severe pain. These symftoms continued for about a week, and then scemed to be explained by the appearance of muco-purulent secretion from the leftear. There was also noticed a considerable swelling in the neck below the left car. This escape of matter was on the evening of F'riday, and on Sunday night the mather awoke, and was dismayed to find the upper part of the child's dress saturated with blood: she was of opinion that at least a cupful of blood must have escaped. Dr. Kennedy says, in a letter of November 15 th, " $Y$ was seut for at 5 A.M. on Monilay, when I found the child leluged with bloorl from the left ear. I nsed a weak injection of acutate of lead, and cujoined rest. The bleerling returned once or twide during the day, but not to so great an extent. I had Dr. Bramivell seeing her with me in the afternoon, and we tried to see the "state of the tympanum, but she was so restless we left her adone. We thought she must have had some inflammatory miselucf of the middle ear, with rujture of the membrane. Under the bir there was a swelling as large as a walnut, and tender to touch, with a brawny feeling around. She had no pain over the mastoid process, but did not like to be touched aver the head of the lower jaw-bone. She was put, on iodide of potash, with liq. lydrarg. perchlor, and tinct. of jodine. Iodoform was put into the ear on cotton-wool, and iodoform and vaseline applied to the swelling under the jaw. Some hours after the first bleeding a trdinjlesome dry cough came on, without any chest symptoms, and \$t we concluded it was aural. The bleeding again returned on Tuesday morning, and I put her on gallic acid internally: From this time there was no return of the bleeding. In a few days the sriblling under the jaw went completely away. The discharge from the ear by Thursday, the 21st, was colourless and odourless. Wh hiter recovery' ] tried to examine the ear, but she was restless with me. Ilowever, I felt satisfled, I saw a ragged tear of the finderi half of the tympanum."

When I examined the patient, there was neither discharge from the ear nor perforation of the tympanic membrane; but a smal cicatrix on the antero-inferior yart of the membrane indicated the recent existence of a perforation, injected. The Eustachian tube was permeable. I liad no doubt that a perforation had recently existed in the tympanic membrane. and that the hemorrhage had its source in the middle ear. The child was decidedty anemic, but, according to the statement of the parents, the pallor was much less than it had been soon after the bleeding, when the face was quite blanched.
In regard to the explanation of the hæmorrhage in a case such as this, it has been argued that the dilated and engorged arterioles in the tympanic mucous membrane give way under the intluence of the partial or complete vacuum produced in the tympanic cavity from the closure of the Eustachian tube. It is urged that just as rarefaction of the air in the tympanum may so act upou the blood-vessels of the mucous membrane of the middle ear as to produce a serous exudation (hydrops, ex vacuo), so when acute infammation exists with, as a consequence, dilated and engorged arterioles on the surface of the mucous membrane, the suction
may in time lead, not simply to transudation of serun through the coats of the vessels, but to their rupture, with free hemorrlage into the cavities of the middle ear. In this case, however, there was probably perforation of the tympanic membrane two days previous to the hemorrhage, which would remare the in the , unless, indeed, which is quite conceivable, the aperture in the membrane was afterwards closed temporarily by maspisair. But while admitting the possibility of the vacuum theary, it must be pointed out that such conditions frequently exist-in every case of otitis media, a very common affection-without hremorrhage; and thercfore it is probable that in cases attended by hæmorrhage there is, in addition, some peculiar weakness of the walls of the vessels of the middle ear. Such weakness may be the result of morbid changes due to Bright's disease, and several cases are on record of hemorrhage from the mucous mem-
brane of the tympanum of, chronic Bright's disease, correspondin, and prohably the result with the retinal hæmorrhage of the same disease. In this child there was no evidence of the existence of Bright's disesse and indeed, the age was quite opposed to the supposition of change in the arterial coats from chronic Bright's disease. Apart, how ever, from Bright's disease or any other chronic affection, ther was probably in this child a hæmorrhagic tendency which predis posed to the hemorrhage. Just as ophthalmic surgeons recog nise a form of retinal apoplexy in the young, due simply to hemorrhsgic tendency, so may such a case as this (tympani apoplexy) have its origin mainly in the same predisposition. Th immediately determining cause may have been the action upo the dilated and engorged vessels of the partial vacuum in th cavity of the tympanum. In view of the predisposition to hemorrhage which probably existed in this child, the paren sible, future inflammatory attacks in the in order to avoid, if pos

the literature of thisors may be consulted by those interested Dr. Roosa's Practical Treatise on Diseases of the Far: Politz on the Membrana Tympani (p. 95), translated by Drs. Mathew sous and Newton; Schwartze in a paper in Archivfur Ohrenhe Morbus Brightii," Bd. iv ; Dr. MeBride on Otitis Ilemorrlagica Archiecs of Otology, rol. xv.

LUMBAR COLOTOMY; THE CAUSES OF FAILUR IN FINDING TIIE COLON, AND HOW THEY MAY BE OBVIATED.
By IIERBERT WM. ALLINGILAM, JUN., F.R.C.S.,
Surgeon to the Great Northern Hospital; Demonstrator of Anatomy at st. Georges Mosyital.

Many surgeons commence the operation of lumbar colotomy und the impresaion that it may be impossihle to find the colon, as almost all of us have seen the best operators experience diflicult and even failure in tinding the gut. Cases, too, have heen $r$ ported in which the small intestine has been opened by Knowing this Knowing this, and laving raad Mr. C. B. Lockwood's interestil
pamphlet on the development of the colon and the abnormal positions it may take up, it oecurred to me to try and find out these causes of failure, and, what is more important, the ways by which they may be overcome. All will agree that unless one of the longitudinal museular bands (whieh are invariably and only found in the large intestine) be seen, the intestine should not be pened from the loin. These bands are deseribed as being situated, one on the anterior surface, another along the inner part, and the third at the posterior aspleet of the gut. It is this poserior band that is looked for, and generally supposed to be seen, when searehing for the bowel in lumbar colotomy. It is thonght y some authorities that these bands can be easily detected withme opening the peritoneum, but this is not so, except in a very ew eases. F'or 1 find from an examination and disseetion of over me hundred ascending and deseending colons, that the bands are lways more easily and distinetiy seen when they are covered by he peritoneum, which makes them hard, prominent, and shiny; rhereas when the peritoneum is stripped off them, these $e$ t.araceristics are lost. I admit that in eight eases out of the one hundred xamined one or two of these hands could be seen, but not very istinetly, on the posterior part of the intestine, although they pere nueovered by peritoneum. When the peritoneum only covers bout one-half or two-thirds of the cireumference of the gut, it is enerally reffected off the gut at the longitudinal bands on to the zalls of the belly. Thus, unless the peritoneum is stripped off, he bands are not visible. If an attempt is made to expose these ugitudinal fibres the peritoneum, owing to its being so firmly dherent to them, is frequently torn and the abdominal cavity peved perhaps unknown to the operator.
It is argued in farour of lumbar colotomy that the large inestime can be reached without opening the abdominal cavity. his, of course, is possible. Yet it is nueh more important to nake absolntely certain that the large intestine is being opened y first seeing the longitudinal bands. This, from the anatomical oints I have mentioned, can ouly be done by opening the perimeum. Moreover, I propose to prove that in this way only can le large intestine be found with certainty in most cases. I am rengthened in these conclusions by three cases in whieh 1 lerated on the right side on the dead subjeet, where it afterards appeared that, if 1 had not looked carefully for the longidinal bands, the descending portion of the dhodenum would we been opened instead of the large intestine. This occasionally appens when operating on the living.
Some years ago my father came to the conclusion, after careful restigation, that the best incision from which the colon could found was one with its centre quite half an inch posterior to idway between the anterior superior and posterior superior spines the ilium, and midway between the last rib and the erest of the um. This incision should be limited in length to between two d three inehes, for this compels the operator to cut down exactly the position in which the colon generally lies; whereas if, as is zquently the case, the length of the incision is five or six inches, e operator runs the risk of missing the gut. Moreover, another vantage of the small incision is that afterwards there is no olapse of the gut and very considerable sphincter power is obined. For it is obvious that if a large wound is made, which es not heal by first intention at the anterior and posterior part, weak cicatrix is left in the abdominal wall, and there is conseently a loss of muscular power over the new anus.
1 will now consider the various positions which the right and t colons may occnpy with regard to their peritoneal covering. e general position (as shown in Diagram 1) is where the peri-


Dlagrara 1.
toneum only covers a half or two-thirds of the circumference of the gut, leaving the posterior part uncovered, with the intestine bound down to the loin. Tlis, according to Mr. Treves is found to be the position in

$$
\begin{aligned}
& 7 t \text { eases out of } 100 \text { on the right side, } \\
& 64
\end{aligned}
$$

My own observations, assisted by Mr. Stewart そ̈ollock and Dr. I'enrose at St. George's Hospital, show

$$
11 \text { cases out of } 60 \text { on the right side, }
$$

This, ly taking the"percentage, is

$$
\begin{aligned}
& 18 \frac{1}{1} \text { eases ont of } 100 \text { on the right side, } 100 \text { left } \\
& 169
\end{aligned}
$$

From this it would appear that the position above described is less general than is popularly supposed. With the intestine in this state and a longitudinal musenlar band seen, which must be uncovered by the peritoneum, all should go well, and there is little or no difficulty in operating. But when no bands can be seen, owing to the peritonenm covering them, the lest distinction hetween large and small intestine is wanting. Therefore, knowing that the small intestine is frequently exposed by opening the peritoneum unwittingly, 1 consider that it is much more adrisable to open the peritoneum intentionally and search for a piece of intestine with longitudinal bands than to run the risk of opening the small intestine, under the impression the peritoneum has never been opened at all, and that it is the large intestine with which you are dealing.
In Diagram 2 the colon is represented entirely surrounded by firmly adherent peritoneum, and háring a comparatively short

mesentery, and in such a condition that it is absolutely impossible to reach it or to see the longitudinal bands without first opening the peritoneal cavity:
The ascending and descending colons were found to have a mesentery of varying length, according to Mr. Treves, in

26 cases out of 100 on the right side,
I have observed this in
49 cases out of 60 on the right side,
50 " " 60 "eft "
showing, by taking" the percentage.
$81{ }^{2}$ cases out of 100 on the right side,
In Diagram 3 it will be seen that this condition of mesentery is much intensified, and that the intestine, although it may rest in the loin, can so alter its position in the belly that when operating


Diagram 3.
11
on either side it may lic on the side of the belly opposite to that
in which the incision is made. It then, in the cases reported, was said and supposed to be improssible to tind the colon from the lumbar region.

The last two examples show how imperative it is to make sure that it is the large and note the small intestine, or even the stomach, which is going to be opened. . At the risk of reiteration I must impress upon buy readers the necessity of following the lines laid down for ascertaining that it is the large intestine which the operator is hringing to the loin. The presence of the appendices epiploïcerruy ulso inform the surgeon that he has found the large intestine, but I do not consider these as so important as the longitndinal hands, since the appendices may not alwass exist on the piece of large gut brought to view. Bearing in mind these anatomical facts, we must now consider how they may be clealt with successfully.
In a case represented by Diagram I, after exposing a piece of intestine, and failing to see a longitudinal band, I make a small incision into the peritoneum, and convince myself, by finding a band, that it is the large intestine. The posterior part of the intestine is then taken hold of, drawn to the surface of the wound (the gut being pulled out as fur as possible, so as to obtain a good spur), and carefully stitched with interrupted sutures all round to the edges of the skin, without perforating the mucous lining. The intestine may then be left unopened for some hours, or, if necessary, opened at once; provided that it is carefully attached at every point to the surrounding edges of the wound.

When a condition occurs, as is represented in Dingram 2, of course in the first place a sufficient search should be made for the gut about the subperitoneal tissue, under the assumption that it is in its normal position; but should this seareh fail, all the loose pieces of fat must be sponged ont of the wound, and the peritoneum at the anterior angle of the wound, deliberately opened (and the edges clipped), just sufliciently to admit the index finger. This finger I pass towards the rertebre, and then sweep it over the front of the kidney and quadratus lumbornm, and the gut, although it be in the position represented in Diagram 2 , can be open the peritoneum to the extent of the wound, and introduce a sponge, with string attrehed, to keep the intestine out of the way while the elges of the cut peritonemm are dramn up and sutured to the akin in the manner I adopt in inguinal colotomy. This entirely shuts of the cut aldominal muscles from the peritoneal cavity. Occasionally this stitehing is not easy to do, either on account of the depth of the wound, or from the firm adherence of the peritoneum to the abdominal wall. The rest of the operation is completed in the usual way, as described in Case 1 . Mere, if the mesentery le sulliciently long, a stiteh may be passed throngh it, fixing it to the surface of the wound; thus a good spur is obtained.

In dealing with the third position, as represented in Dingram?, aftrr proeerling in the manner described in Cases 1 and 2, nnd failing to tind the colon, I then enlarge the extemal wound forwards and buckwards sulliciently to admit the hand. I next open the peritoneum to a corresponding extent, and, haying well cleaned thes hanel, $I$ introduce it into the abdomen. If it is the left colon that is to be opreated on, l tirst pass the hand upwards towards the splem, and ferel for the splenic llexure. Hereupon I draw the hamd down the intestine until the piece opposite the wound is found and lrought to the surface. Failing to find the intestine at its splenic bend, l pass the land towards the rectum or across the al)thanen' (krpping the back of the hand in contact with the posterior aspect 'of' the anterior abdominal wall), towarils the h+patic flexure, and then slip the hand along the large intestine, and araw ก piree to the surfact. Of eourse I take care to ascertain that this piece of intestine has the eharactaristic longitudinal bands. By these menns I have never found any difficulty in finding the colon.

When the large intestine is found, command it with forceps that will not jerforate the gut, and introduce a sponge to keep the small intestines, which may Irolapse, out ol the way while the wonnd is treated as follows. At the anterior and posterior parts, if the incision is six inches long, two inches in front and two buhind shondal be denlt with as in an ordinary case of abdominom section, bo bassing the suture throngh the skin and peritothe midulle two inches of the wounI where the intestine is to be brought up to the surface, the peritoneum should be sutured to the skin as deseriberl in Case 2 , and the operation completed in the same way. In this thired condition a good spur enn and shatald always be male, and when the grit is openel its promi-
nent edges ought to be cut away in the manner I suggested in my puper on inguinal colotomy.

I cannot lelp thinking that the above deseribed methods of treatment must have occurred to, and been used by, some surgeons when performing lumbar colotomy.

I am much surprised, considering the frequency of the operation, that these details are so little known, or, at any rate, practised. Cet, as fur as I am aware, no account of these important details in finding or treating the large intestine from the loin has, up to now, been brought before the profession. This silence on the sulject has encouraged me to express my views, and 1 am confident that I shall never undertake this operation with any fear of failwhen it is the colon. I do not at all adrocate limbar colotomy when it is possible to perform the inguinal operation, for the lum-
bar is certainly the more difficult nnd recovers with less rapidity, and patient runs greater risks satisfactory. Nevertheless, for thase surgeons who persist in the lumbar operation, and in cases where the obstruction is at the upper part of the sigmoid flexure or in the transverse colon, I hope that these remarks may assist in simplifying tho supposed ditheulties, and minimise the mistakes not infrequently made.

## SUCCESSFUL EXTRACTION OF A PIECE OF GLASS FROM AN EYE WHERE IT HAD LODGED FOR MORE THAN <br> TEN TEARS. <br> By T. H. BICKERTON, M.R.C.S., <br> Oculist, Liverpool Royal Infirmary.

Haying, in the literature of ophthalmic surgery, been alle to flic but four cases mentioned ${ }^{\text {l }}$ where glass has been found in the anterior chamber of the eye, a record of the following case may not be without interest.
Mr. H. T., aged 29, was, more than ten years ago, watching closely the manufacture of oxygen. Suddenly the glass' retor were found on Mr. T. recovering himself, numerous pieces of gla conld not see well with the left eyo. Owing to a severe cornea wound, he was for a fortnight kept in a darkened room, for thre weeks longer he had a bandage over both eyes, and for about si months he wore dark protectors. The following is lis statemen
as to the useful sight was regained; and for years it gave no trouble thongh in cold winds it used to influme now and again. Withi the last four years it has given more trouble, but this was ascrike to a grauular condition of the lids", and rubbing with ble stone gave relief. Still there was always a red look about th eye. In a ferce sun it was weak, and often, when playing tenmi bending ovar a dog, he sudlenly jumped up, and his nose comin in contact with my eye caused pain. This year I have playe tennis rigorousiy, and found the efe getting more and nore t anil irritable; and the local, application of the blue stone, whic
up fo this attack had always given relief, was now of no benefit On July 15th, 1887, the condition was as follow: :-Right e V. $2_{2}^{2}, J, i$, normal in all respects: pupil $4 \frac{1}{2} \mathrm{~m}$. Left eye, V
 Left Eye

letter J. i: swall brownish cornéal cieatrix helow and to immer sile of the eentre of the pupil. to whieh a tag of the surfa of the iris (not the pupillary margin) adheres, and from it a fair cicatricial line runs up to the centre of the coruea; pupil $2 \frac{1}{3} \mathrm{~m}$ and slightly irregular: iris acting well to light; lens
lying at the bottom of the lut tilted up to the outer side, can be seen, on careful oblic illumination, a foreign body, which is indistinguishable in cert yositions, but which, when the eye is so directed as to allow
light to fall on its margins, can be soen readily. It lay in

[^70] iii, p. 103. Critechett,
Revecte, vol, iv, p. 233 .
imus between the cornea and iris, and was not imbedued in the atter. The iris in its neighbourhood seemed to be slightly. auddy, but this appenrance might have been due to a condition $f$ the cornea or aqueous humour. The ocular conjunctiva around his part of the cornea was very bypertemic, and it had slightly ncroached upon the corneit. There was also localised ciliary conestion. The attacks of irritation could now be accounted for on he supposition that the active exercise-tennis, shooting, riding, tc.-in which Mr. T. engaged causcd some slight movement of be gluss; and he conld now recollect that each fresh attack had )llowed exercise.
A quiet life was adrised, and in two months the muddiness of 10 iris and the ciliary congestion had disappeared, and much of he conjunctival reduess lad gone.
On September I3th, 1887, the operation was performed; and I lay here thank Dr. Fox, of Philadelphia, an old Mloorfields friend, or the good advice and able assistance be gave me. Eserine aving been freely applied, in order to canse firm contraction of leiris, and the eye placed thoronghly under the influence of a per cent. solution of cocaine, a horizontal, purely corneal cision was made by punctnre and counter-puncture with a raefe's knife across the front of the cormea, at the junction of ie lower third with the upper two-thirds, the aqueous being lowed to escape slowly: Acurette was then introduced between ie lips of the wonnd and passed on in front of the iris to a posion behind the foreign body, in order to fix it. This being done, pair of fine forceps was introduced to the bottom of the sinteor chamber, and the glass, being seized at the first attempt, was mored entire. At the moment of withdrawal a speck of blood ypeared on the surface of the iris, evidently being due to its aving been pricked by a fine needle-like point which projected om one of the ends of the glass. Iced compresses were applied, od the eye made an uninterrupted good recovery, thongh, in site of frequent instillations of eserine, a slight adhesion took ace between the surface, not the pupillary margin, of the iris ud the outer part of the corneal incision.
Two months after the removal all conjunctival redness had one; the pupil was almost regular, and had increased in size to mm. Visjon $\frac{40}{40} 4$ letters, J. i.

The glass measures in its greatest length $\frac{43}{4} \mathrm{mm}$. in its shortest ngth $3 \frac{3}{4} \mathrm{~mm}$. It is I mm. in breadth, and $\frac{3}{4} \mathrm{~mm}$. in thickness.

## A NOTE ON THE CONDITION OF THE BLOOD IN MALARIA.

By J. F. EVANS, Surgeon, I.M.S., MaNd.llat.
Alantat fevers bave naturally always olntained a great deal of tention from medical men throughout the Indian Enpire. In id, accorling to Surgeon-Genernl Thomson's report, one-fonrth the admissions to the European military hospitals of the Bon${ }^{5}$ Presidency were for this discase. But, while the mortality is rely high, the debility that results from repeated attacls is a uch more serious matier. Euglishmen who lave been living in malarious climate occasionally suffer from ague after their rival home, pointing to sone pffect on the tissues persisting subquent to exposure. In officer who hul been some gears in alia told me that his first attack of ague was when taking his st leave liome.
lt may be that malarial poisoning is a gradual process, and that combition of semi-tolerance is estahlisheml. and that the chill or posure, of which Dr. Oldham writes, is the imonediate exciting use. In 1879, Klubs and Tommasi-Crimleli professed to have ecessfully inoculated rahbits with malarial fever, and to lave seovered the bacillus malurin ; their experiments do not seeni to we heen confirmed byotherohservers. Sarchiafava ame Celli, in R5, publislied a detailed account of the changes observed by them malarial blool, with which the later researches of Dr. Laveran great measure coincide (vide Bmithan llevical Jocrana, otober 29th, 1887). There has of hate, in the militars hospitals Mamlalay, been a wide field for researeh into the jathological manges induced hy malaria, I have never examined a single spemen of blood taken fron a patient suffering from ague or reittent fever without fintling some definite change.
The following are the elanges oliserved by me:

1. In health the red blood cells are with difliculty stained by an iiline dye, but, after even a single attack of ague, the red blood lls can be retulily stained by an aniline solution of gentian
violet; a small area, however, in most being left unstained. This unstained area is not constant in size, nor in its position in the corpuscle, in some involving nearly the whole corpuscle, in others so small as to be easily ignored. In specimens of unstained blood I laverecognised the liyaline material replacing the hamoglobin of the red corpuscles, as described by Marchiafavi and Celli, who state that this hyalime material can lee reudilystained with methyl blue; bit hitherto I have not been successful in olntaining this reaction. The glouule of new hyaline watter in the red corpuscles can be seen slowly to change its slape from time to time, which Blarchiafara and Celli pointed out. Whether this hyaline material coincides with the unstained area, I am not at present able to decide. In cases of malarial cachexia, the softening and crenation of the red corpuscles is a marked feature; in such cases, it is difficnlt to find in a specimen of blood a corpuscle with normal ontline. This crenation is certainly more marked in the blood of natives than in that of Europeans, and may be due in part to the deficiency of nitrogenous matter in their diet. It is due probably to a gradual loss of the cell contents, and may serve to account for the intense anmmia that occurs in malarial cachexia. Thered corpuscles are not only altered in structure by this disease, but are absolutely destroyed in the process; they can be seen in every stage of destruction, from mere erosion of the margin to almost complete obliteration, a thin semilunar rim of pellicle being left. As might be expected in blood andergoing a process of slow deterioration, small free masses of pigment are often met with.
2. In addition to the structural changes already mentioned in the blood-corpuscles, I have found free spherical bodies in the serum and in the corpuscles. These spherical bodies are possessed of morement, both rotatory and from place to place. They are of two perfectly distinct kinds, and I shall, for purposes of description, describe them as nucleated and non-nimeleated, although not considering the nuclear body of the nature of a nuclens:
a. The non-nucleated spherical bodies are dark in colour, of the same consistence throughout, and about $r^{1} s^{\text {th }}$ to ${ }_{2}{ }^{3} u$ th the diameter of a red corpuscle (that is to $s a y, 0.2 \mu$ to $0.3 \mu$ in diumeter). They are to be met with either moving freely about in the serum, or else stationary inside the red corpuscles; when immured in a red corpuscle they as a rule remain fixed, but rotatory movements are to be observed sometimes. Three or four of these bodies generally: occur in the same corpuscle together, beneath the pellicle, at one point: they frequently occur in the corpuscles undergoing the hyaline degeneration noted by Marchiafara and Celli, and also in those cells where this degeneration cannot be distinguished. I have never seen any of these organisms inside a white blood-corpuscle. J luave found them in the serum and red cells of the blood of men suffering from beri-beri : and similarly in the serum and red cells of the blood of horses suffering from surrah, in company with Surgeon Hendley, who tells me that he has olserved similar bodies in the hlood of rats, and of a dog ailing with fever. More numerous and more freely movable than the nucleated splerical bodies, it is only possible to suggest that they may have some relation to the nuclear-like bodies of the latter, although up to the present this has not been traced.
b. The mucleated spherical bodies are of a grewish-yellow tint, circular single contour, brighter than the red corpuscles, and with a highly refructive outline: varying slightly in size, they are about th to $\frac{1}{2}$ th the diameter of a red blood corpuscle (abont $1 \mu$ to $0.5 \mu$ ). The nuclear-like body can be eusily listinguished inside the sphere, which is often little more than an enclosing eapsule. Like the spherical hody in which it is enclosed, this nucleus has free rotatory movement.

The incleated, like the non-nucleated bodies, bare movements rotatory and from place to place, though not so freely as the latter; they are also not so mumerous, but, like them, are found floating frecly in the plasma and stationary in the corpuscles. They usuallo occur singly in the blool cells. and l have reen them occasionally in the white blood cells as well as in the red. They often occur with the non-nucleated in the sume red corpuscle: but 1 have never found them in corpuscles undergoing the hyaline degeneration My first acquintance with these nucleated spherieal bodies was in the blood of horses snffering from surah. Where they accur like the non-nucleated. I have not seen them, howerer, in the hlood of leri-beri, where the non-nucleated occur, and in which discase, on two ocensions quite recently. I lave found a streptococcus, in chains of three cocci ench, not rery unlike the coeci occuvring in kumri. The appearanee of these nucleated splerical bodies would justify the assumption of their being monococci. I have not yet, however, succecded in staining them. Accordingly,
without this and cultivation on nut rient media, and the reproduction of the disense from culture, it would be unwise to pronomice ass to their mature.
The larger spherical hollies, described by M. Laveran as slightly larger than red hlool cells, i liave not hitherto seen; but 1 an inclined to lielieve that, what are described lor lim as the larger spberoils are red lolod cells invoded ley the parasitical elements $t$ have observed. The white hlonl-corptuseles in malaria are not increased; they are apparently little affected ly the disense, beind invaded occasipnally by the mucleated spheroids; and, when studted with pigment grameles, as sometimes occurs, they prescut the appearince indicated by 21. Laveran as the "lencocytes mélenifires."

## TILE CHEMICAL INCOMPAMIBILITY. OF ANTISEPTLC AGENTS. <br> By ROBERT BOKALL, M.D., M.R.C.I., <br> Phaspichan to the General Lying-in and to the Samarilan Free Hospitals.

Tur necessity of employing antiseptic agents in solution of definite strength will be, 1 presume, on all hands conceded: for, if the solution be too attenuated, the object in riew will fail in its accomplishment, and, if too coucentrated, considerable damage will in many cases be wrought, not only locally on the tissues to which the application is made, but also on the body generally as the result of absorption. The borderland between safety and success is, in many instances, a very narrow one. The possibility of reducing the strength of the solntion, or of altering its nature through the clemical incompatibility of the materials employed, has hitherto received but little attention, The important practical bearing which this may exert on their efficiency as antiseptics must prove my apology for drawing attention to the matter.
By way of example, 1 have selected five of the , more important antiseptic agents in general use, and, for ready reference as to the incompatibilities of each, the results of the experiments are presented in a tabular lorm, showing the action not only of these agents on one another, but also of certain lubricants with which they are frequently combined and brought into contact, and of soap with which they are apt to be contaminated in the process of washing and disinfecting the hands and instruments.
In view of the practical utility of these observations, the experiments were made, not with concentrated materials, but with solutions of the strengths usually employed in practice, and were carried out at temperatures not exceeding that of the body.


The following incompatibilities were observed

1. Corrosive Sublimate and Iorline.-No precipitate of mercuric iodile is at any stage of the admixture formed. A small addition of sublimate solution tixes the free iodine as may be seen by the immediate bleacling of the iodine solution, and confirmad by the subserquent addition of starch paste, which produces no bhe coloration. One part by volume of sublimate solution ( 1 in 1,000 ) is just sulheient to fix the whole of the free iorline in 4 parts by volume of iolline solution (tr. iod. B.P. 5 j in Oj ). N.B.-This forms a rongh and ready test for the strength of sublimate solutions.
2. Corrosive Sublimate and Soap.-An insoluble soap is produced even when a nentral soap solution is used. This is of special importance in consilleration of the small arlmixture with soap which is required to throw down the whole of the mercury from solutiona of the strength usually employed.
3. Carbotic and lodine. - An exceedingly small admixture with phennl is anfleient to tix the whole of the free indine ns in (1). Une part by volumo of carbolic solution ( 1 in $\because 0$ ) removes the
whole of the frec iodine from 2,000 parts by volume of iodine solution of the strength intieated above.
4. Carbolic and Condy.-This is perhaps the most generally recognised of these incompatibilities. Admixture with phenul immediately turns permanganate brown.
5. Carbolic and Olice Oil.-This is of importance and of sprein interest when taken in conjunction with the rescarches of Koch, of Berhn, who has shown that bacillus spores are capable of hiving and developing after having been immersed in carbolised oil (1 in 20) for 4 months. The oil appears to enter into some combination With and to fix the phenol. If a drop of tr. ferri perchlor. B. ${ }^{\prime \prime}$. is found up in a test tube withe carbolised oil ( 1 in 20 ) no chang is cound to have been produced in the iron as it gravitates to the of water, the water allowed to separaterin up with a few drop tube and a drop of iron solution conveyed into it, the characteristic purple coloration with phenol is not produced unless the shakin has been very prolonged and energetic, and then only to a slig! degree. By strongly heating the carbolised oil phenol is ağain set free, and the above reaction can then be obtained.
6. Iodine and Soap.-No action is produced by a neutral sonl solution, but ordinary soap, which contains an excess of alkali, at once removes the free iodine.
7. Salicylic Acid and Condy.-A very dilute salicylic aciel solution ( 1 in 800) slowly removes the colour from permanganate.
8. Salicylic Acid and Soap.-A drop of dilute salicylic acid solution gives a white precipitate even when a neutral soap solutims is emplored.
9. Condy and Olive Oil.-When permanganate solution is shaken up with olive oil its violet colour is changed to brown.
10. Condy and Glycerine.- When permanganate solution is addul to glycerine its colour slowly changes.
11. Condy and Soap. - This incompatibility is also generally recognised. Soap, even when a neutral solution is employed, readily turns permanganate brown.

1 do not pretend to any precise knowledge of the bodies pri. duced, some of whieln may, for all I know, possess powerful antiseplic properties. But until this point is settled ly direct oll servation, when clemical incompatibility exists, the antisepti properties of the original solution must be regarded as weakenel if not wholly destroyed.

The moral conreyed by the above experiments is obvious: aroi as far as possible the admixture of antiseptic agents and their con tamination with lubricants and with sonp when incompatibilit exists. For instance, in employing corrosive sublimate it is an fully aroiding contamination with soap) and for cleansing in struments ${ }^{1}$ as for irrigating the parts, to employ a mercurintist" Inbricant and to use alembroth dressings. If for any reasnn i becomes requisite to subslitute one antiseptic agent for another, second should be chosen which is not incompatible with the firs and the same precautions should be observed throughout series.
The above observations deal with one phase only of the subjec I am content to leave to more able hands the claboration of furth details. The second question-the chemical nature of the bodi produced-is for the chemist to answer; the third point-l antiseptic ralue of these bodies-still remains for the germ culturist to determine. When these points hare heen settled an acted upon, less scepticism as to the value of antiseptic agea may be looked for. The fault. lies not so much with the an septics themsplves as with the unscientific method in which thr are often employed.

1 Here, arain, a eation is requisite, for copper and steel, unless nickel plat 1 Here, arina, a candion is requman to canse precipitation of the mercury a free state.

Testmontal.-Dr. Williams, who was recently compelled resign his appointment of medical superintendent of the Suss Lunatic Asylum at llayward's Henth in consequence of ill-healt has been presented by upwards of one lonndred members of $t$ staff of that institution with an illuminated address in the for of an alhm as an expression of their appreciation and regard.
Ar a mecting of the Committee of the Home and Infirmary Sick Chiklren, Lower Sydenham, S.E., on April ?nd, a umanimo vote of thanks was passed to Dr. Spencer Smyth, r.ll.C.S., valuable services rendered to the institution for so long a time 11 onorary Surgeon and Consulting Surgeon. Dr. Smyth has gc to reside at Bournemonth.

## SURGICAL MEMORANDA.

## REMOVAL OF IIARPIN FROM THE PEMALE BLADDER.

 On June 2 2nd, I887, I was askel to see ' E. P., a domestic servant, aged 25 , who, about three weeks previously, whilst assisting in spring clenning, strained herself, and liad since suffered from constant pain in the hladder and womb, with a frequent desire to pass urine, the urine being offensive, and containing a quantity of thick tenacious sediment. Standing or sitting aggra vated the pain and discomfort. She had been seen and preseribed for by another medical man, but, getting no relief, she came home. A digital examination revealed nothing wrong. Subsequently, being informed by her mother that the girl had confided to her that, at the time of straining herself, she felt "something come down," Which she tried to replace with a hairpin, that the hairpin had slipped out of her reach and had not since been seen by her, I decided to pass a catheter into the hladder, when, almost immediately, I felt it impinge npon a hard, roughened substance. The nature of the case was now evident; accordingly, I determined to dilate the uretira with sponge-teats, with a view to remoring the foreign hody. Before proceeding, however, I introduced a fine urethral forceps, and, to my great satisfaction, succeeded in grasping the llyect, which I was able to remove without much diffentty, and with but slight pain to the patient,' who, the following day, was ip and abont, apparently perfectly well. The foreign body prored o be an ordinary black, japanned hairpin, as shown in the accomunying sketch. It was coated with a thick deposit of grarel
and, from the manner of the coating, it was evident that the osition of the pin must have been reversed soon after its introluction to the bladder, the thicker and heavier, deposit heing owards the curved end. The absence of deposit at the head, or :urre, is accounted for by the pressure of the forceps in its renoval. The pin, with its coating, weighed forty-eight grains, and aeasured two nad a half inches in, length by half an inch in its reatest width. A microscopical examination of the deposit howed it to consist chiefly of crystals of uric acid, triple phoshates, cystine, with numerous epithelial casts.

Trevor Fowler, L.K.Q.C.P.I., L.M., and L.R.C.S.J.
Epping.

## rupture of middle meningeal artery.

C. D. aged 10 years, a snall boy, receired about noon, Saturday; letober 8th, 1887, a blow from a stone. There was no complaint f pain or illness during the remainder of the day, nor did the low cause any immediate symptoms.
On Octoher 9 th there was slight tenderness behind the left ear, nd slight headache, but no mention was made by the patient to is parents of any blow. On October 10th the lad went to school s usual, and in the evening was rather noisy and more than isually cheerful and mischicrous. He went to hed at about oclock. At 12 o'clock his father was called to him, he was eryay with headache and was very sick. The father stayed with im until he appeared more quiet and went to sleep (?).
Early on October 11 th 1 was sent for to see the child. IIe was uite unconscious, both pupils were widely dilated, not acting to ight, aud he was sick. The extent of paralysis could not be renonised as there was complete insensibility. The bowels and ladder had been emptied nuconscionsly durinet the night. The ulse was very feeble; the temperature was below normal. At his time I did not know of any inimy. He continued in the ame contition until noon, when he thed.
Necropsy.-There was a slight bruise orer the left temporal gion: behind the ear the squanous prrtion of the tempnral bono ras rery thin, not thicker than a sleet of brown' paper. The ostecrior brancla of the middle ineningeal artery was ruptured, he dura mater was separated from the skull, and there was a urge clot the size of the palm of the hand, between the skull and he dura mater. All the other organs were healthy.
Remarks.-In this case there was an interral of sixty hours et ween the injury and any acute symptoms. The boy had eaten a
considerable number of "acorns on Monday, and it seems just possible to me that the artery may have been only bruised in the first instance, and subsequently ruptured by the sudden straining of the ressels caused by the sickness, which perhaps. was due to the acorns, and at this time not to actire cerebral mischief. Of course there may have been slow hamorrhage during the whole time.

Redhili.
H. W. Ewex.

## A CASE OF TRAUMATIC PERTCHONDRITIS OF THE LARYNX.

Tire following case is of interest, first as an example of a somewhat rare accident, and secondly as confirmatory of my contention that caries is not a necessary sequence of perichondrial inflammation, as is held by most authors, for in not'a few cases the inflammation terminates in resolution with more or less thickening and functional impairment, but withont caries or separation of any portion of the cartilages. I take this opportunity also of saying that I hare long held the opinion, as is evidenced in my published writings, that perichondritis may arise independently of any specific dyscrasia, syphilitic, tuberculous, or cancerous.
Mr. J. R. J., lientenant in the Royal Nary\%, consulted me on Febrnary 26 th, 1888 , stating that he had received a blow from the elbors on the left side of the, pomum Adami, in the previous Octaber, while playing football.
There was no risible bruise, but there was considerable pain with slight external swelling. Ilis woice was entirely lost for forty-eight hours; and was afterwards. husky for some days. The further effect on his voice was peculiar: for even after recovery of phonation, he experienced the greatest difficulty in controlling his speaking roice, and especially in giving the word of command, Which was aittended with more than ordinary difficulty, he being engaged in gunnery experiments. He had formerly pitched his roice for this purpose in a rather higher tone, but this he found limself now unable to do. Before his accident he had a fine singing roice, with a range of fully trio octares from E to E , and even to $F$. On recorery of his speaking roice, he attempted to sing, but found that he had lost five or six notes, his limit then being $G$, in the fourth space of the bass clef. Ilis lower notes had remained unaltered.
On laryngoscopic examination I found that there was swelling and redness of the left aryteroid cartilage, and slight congestion of the cartilaginons portion of the rocal cords. There was also distinct tenderness on palpation of the left side of the larynu. At no time had there been any. pain on swallowing.
Treatment has consisted in complete rocal rest, the nightly use of a wet compress over the larynx, and the application liy means of a compressed air spray of a solution of iodide of zinc, ten grains to the ounce. The patient may now be considered well, and will immediately resume duty, but he reports that he has only regained one note and a half of his singing roice, and that after voeal exertion in even ordinary conversation his throat heeomes painful.

Lennox Browis, F.R.C.S.Ed.
Weymouth Street, Portland Place, W.

## TREATMENT OF CARBUNCLE

I An quite at one with Dr. Henry Lowndes, of Lirerpool, in the treatment of carbuncle. I have seen nearly all the rarious methods of treating carbuncle tried, and I am decidedly in farour of sulplide of calcium with carbonate of iron, generous diet, and locally cleanliness with linseed meal poulticing as occasion demands. I have, withont exception, had good results, and now in all cases I neter think of using the laneet. The old method of resurting to the knife in all cases of carbuncle 1 think is to be deprecated.
Glasgow.
Quintin McLexnan, M.B., C.m.
Is the report of a lecture by Mr. Page in the Jocrnal of March - 2 thr, in speaking of the treatment of carbuncle ly potassa fusa, he says: "Others think the sepmation of the slough may be hastened by pushing small pieces of potassa fusa through the skin holes into the gangrenous tissue beneath." From this expression it is sufficiently obrious that he has no knowledge or experience of this plan of treatment. I made it the subject of the surgieal address when our Assoeiation met in Bristol, under the presidency of the late Dr. Symonds, in 1863, nud since that time I have always used the caustic, and mith unfailing success, in my own cases and in consultation.
A deep central circular slough. Which may include some of the apertures, if any, that are already formed, must be made ly the
application of the eanstic, and its sizo mnst vary with the size of the carbuncle, meaning perhaps the third or fourth of its diameter; and when I entered the profession we had frequently to make caustic issues near the joints or on the arm or any other part, and we learut that to form a slough involving the whole thickness of the cutis will require the continued application of the potash for ten minutes or a quarter of an hour.
When the slough has been formed the patient is at once relieved of the pain, and prossure, and tension of the disease, which from this time ceases to extend, and as a rule the recovery is uninterrupted.

1 have never employed the method of scraping, haring complete faith in the caustic treatment. I agree, however, in one particular with Mr. Page, namely, in hoping that ho will not have a carbuncle.

Clifton, Bristol.
Ts the Jocrval for March 3rd, 1883, p. 417, Mr. II. B. Hewetson, of Leeds, gives an account of a case of carbuncle successfully treated, in which he employed both scoop and scissors for the free removal of all dead and donbtful tisknes.
Following Mr. Hewetson's lead, I have similarly treated three cases:-

1. T. L., aged 60, admitted April 3rd, 1883, ill two weeks with carhuncle four inches in diameter, situated on the back of the right chest, and suppurating through several small openings on its surface. Under ether the diseased tissues were freely remored by scoop and curved scissors. Jodoform powder was used as dressing for a few days. Recovery was complete on May 25 th, having been delayed by large size of sore.
2. M. D., aged 60, admitted in January, 1884, with rery large carbuncle on the back of the neck, treated as last case; recovery in six weeks.
3. 31. A., nged 49, admitted on December 3rd, 1885, with carbuncle two inches in diameter, situated behind the right ear; ill twelve days; entirely removed at once as before; recovery in five weeks.

In all the cascs pain, previonsly intense, was immediately removed, and the site of the carbuncle was in a very short time converted into a healthy sore.

Mr. Rushton Parker, on page 60I of this rear's Journal, insists on the free removal of carbuncle; in this he was anticipated by Mr. Hewetson. Mr. Parker recommends the knife in addition to the scoop, while Mr. Hewetson recommended scissors, a more serviceable instrument for the purpose.

Mr. Teale's description of the remoral of carbuncle by scraping errs in not adrocating a free enough removal of the diseased tissues; it is impossiblo to satisfactorily deal with a carbuncle by the scoop alone.
$J_{\text {JMes }}$ ALLAN, M.A., M.D., Leeds Union Infirmary.

## NOYEL BETHOD OF APPLYING TAXIS

A FFw daysago a native prescnted himself at the dispensary of this hospital with a right large scrotal hernia, which had been down for some months. The man was placed on his baek, and the tumour manipulated. The coverings were fairly tense. Before attempting reduction I casually asked the patient if the tumour ever got smaller; he replied "Les," and proceeded to give me a dermonstration in taxis which I had not previously heard of, and which will probably be new to many readers of the Journal. Lifting up the tumour with his left haud, he placed his right thigh on his abdomen, then crossed it over to the left side, catchang the tumour between the pubes and thigh, then applying pressure. The hernia disappeared with a gurgle and a snap before I had time to call the attention of the students to this novel procedure. The reduction was complete.
G. Jamesor, M.B., J.M.S.,

Resident Surgeon, Medical College IIospital, Calcutta.

## ADDOMJNAL PUNCTURE IN TYMPANITES.

Sm,-1laving resorted to ahdominal puncture in tympanites several times during the last thirteen years, I have read with in'erest your report of Dr. Ryle's case (Jounsial, April Ifth, p. 791 ).

If first adopted this method in the year 187 n under theffollowing ciroumstances:- I gent teman, aged 30. was suffering from peritonitis, resulting from a chill, and on or about the eighth day the tympanites gave rise to great distress, and all the usual methods
adopted in such cases failed to give relief. On the morning of the tenth day I was called up at 8 A.m., as the nirse thonght the patient was dying, and on my arrival I found him in a most critical condition.' The pulse was almost imperceptible at the wrist, the breathing was quick and shallow, the heart's action was alarmingly tamultous and rapid, and the countenance was pinched, with a cold, clammy forehead. It was evident that unless the tympanitic distension was diminished a fatal result would occur, and 1, therefore, decided to puncture the most. resonant part, and did so with a hypodermic peerle. It was most gratilying to notice that in a few minutes the breathing became deeper and the heart's pulsations steadier. The patient after this progressed farourably, and is still alive and well.
In all the other cases in which I have punctured much benefit has resulted, and in no case has any unfarourable symptom ariseu from the procedure.

When I adopted the plan in 1875 I had not heard of it being used or even suggested, and 1 certainly consider that it is a procedure which might be adopted very frequently.

$$
\begin{aligned}
& \text { adopted Wery } \\
& \text { AUBURN Wilkrsos, M.B., F.R.C.S.Eng. }
\end{aligned}
$$

Tynemouth.
A CASE OF INTESTINAL OBSTRUCTION, WITII RUPTURE
OF THE BOWEL: OPERATION: RECOTERY. T. T., a grocer's assistant, aged about 29, sent for me early one morning in July, I885. He stated that on the previous evening, when chopping up firewood, he felt a pain in the stomach, which had continued until morning. There had been slight sickness, but the bowels had not acted for twelve or fourteen hours. I found the patient in bed, complaining of pain in the hypogastric and right inguinal and lnmbar regious. The pain was increased by pressure in the hypogastric region. There was no marked dulness or tumour. An aperient pill and ciose of castor-oil were
given, but both were rejected with vomited food. The castor-oil was repented, and one pill of opium. (half a grain) and belladonna (quarter of a grain) given every three hours. In the niglit vomiting was distinctly greenish and sour. As there was no action ol the bowels, an injection of soapy warm water, castor-oil, and turpentine was given. This succeeded in clearing out the colon, and it was followed in six hours by a very slight action. Vomiting eontinued every few hours. The abdomen was increasingly tender, and there was dulness orer an area of four or fre squar inches to the right of the imbilicns, and three inches below
There was slight tympanites. No improvement followed, and the patient having been removed to the hospital, it was decider at midnight (four days after hirst symptoms) to operate. The par tient was almost moribund, the abdomen was greatly distended temperature $104.5^{\circ}$; pulso 135 , and quite characteristic; respira ministerel. rapid, and labouren. The A.C.S. mionture the al dominal wall, and afterwarls carried two inches above thi umbilicus. (By the courtesy of the surgeon of the hospital, 1 wa asked to assist in the operation.) The peritoneum was carefull, divided on a grooved director. No sooner was the abdomina carity thus laid open, than out there gnshed a large volume o
horrible frecal gas, followed ly a copious outflow of thin yellow greenish fluid, containing a quantity of flakes of 1 ymph , and bit of facal matter. The small intestines were distended with gas The peritonemm was intensely injected. We bated out the abdo minal cavity with a teacup. Then slight bilateral pressure canser a small fountain to well up from the deep part of the abdomina carity. Taking this fountain for my guide, I passed the inde. finger of my right hand through the aperture into the howel, up wards and downwards. I strongly arlvocated resection, but wa overrulend, and consequently sewed up the parietal wound. man to all appearance seemed on the point of expiring. The wir sutures all in turn gave way, quantities of frecal matier aud flui continued to escape from this wound for several weeks. Th ruptured howel became disengaged, and rose to the surface of th mass of (operation) wound. The latter became agglutinated in stored. Fances passed per anum, and the patient, passing throng
sations. The abdominal carity was nie more a long convalescence, escaped with a very small fistula, the size a hempseed, and is now otherwise in the enjoyment of perfec health and strength.

Tmos, l'. Harvey, M.D., L.R.C.P.Lond., M.R.C.S.Eng., etc., St. Leonard's-on-Sea.

## THERAPEUTIC MEMORANDA.

## JAMBUL IN DIADETES

A LADY, aged 65, has been a diabetic since 1876 , and under a restricted diet has, with the exception of some physical reakness and failing sight, enjoyed pretty fair health until about twelve months igo, when she commenced to urinate much more frequently, to giffer Irom excoriation of the vulva, and to be so weak that walkng alone became impossible. These symptoms were quickly reiercd by codeia, alternated with sodium salicylate and occasionally Bethesda water, and she rapidly came to her usnal state of passing our or tire pints of urine daily, specific gravity 1030 , and cantainthout 10 grains per ounce of sngar. A friend in London, also a liabetic, recently recommended her to try jambul seeds, and sent isupply in tablets, ane of which was to be taken thrce or four imes daily. Under less than a fortnight of this treatment the rine became more than trebled in quantity, specitic gravity 1045. 10 grains of sugar per ounce. Patient got intensely thirsty and xtremely weak, but in spite of this persevered as long as she rossibly could with the jambul, having remembered that codeia lad disagreed with her at first. Now, after ten days cessation of ambuland resumption of codein, she is much stronger, passing ive or six pints of urine a dar, centaining 17 grains per ounce, of ugar, aud specific gravity 1030.
1 may mention that the tahlets were procured from a first-rate andon chemist. In the friend mentioned above as also suffering rom diabetes, the jambul effected no improvement whatever.
Peel, Isle of Man.
J. M. Cohtes Cole, L.K.Q.C.P.I.

## STROPHANTHUS.

eceently I have tried strophanthus in two cases, one mitral reurgitation, the ather aortic valunlar disease. The first case, a oung man aged 23 , had been ill for six months; he had taken igitalis for some weeks, and, as he expressed it latterly, the zedicine had done him no good. One evening I was sent for; he 7as propped up in bed; had a quick, thready pulse; face and xtremities coll frum venous congestion; respiration 46 . I was fraid he was sinking, and so I expressed inyself to his friends. I rdered one-drop doses of Burraughs's tincture of strophanthus rery hour for six hours, then the dose to be repeated every two ours. What was my surprise in about twelve hours after to find im much better; pulse slower and fuller; the congestion disapearing ; free perspiration and diuresis. Fventually he got out f doors, and has been hetter for nine months. In the other case, gave tincture of strophanthus as soon as I commenced attending ae case, and was puzzled at the uncertain effect. I tried fresh Ifusion of digitalis, which had a marked beneficial effect for ree or four weeks; soon afterwards the patient had an attack f congestion of the lungs, which left his trunk and legs much wollen and oedematons, his urine albuminous. I got a fresh supIf of tincture of strophanthus from London, which had a similar fect as in the mitral case, and now I am glad to say the man is mich better, able to do light work, not having taken any of the hedicine for ten weeks. Combined with iron and quinine, I have und strophanthus beneficial in functional derangement of the eart.

Thomas Jackson, M.D.
Hull.

## PHENACETLTE.

cming the past three weeks I have been using this drug as an atipyretic, and I can confirm Dr. Bell's statement as to its ethicy, I find that it is quite equal to antipyrin, but it is not parly 80 powerful as antifebrin.
Phenacetine in moderate doses is not followed by any disagreele after effects. Antifebrin, on the other hand, causes profuse rspiration accompanied with great depression and should be ren with care, not more than five grains at a time to an adult. igors occur after both antipyrin and antifebrin, but I have not it observed them after phenacetine.
From five to ten grains of phenacetine may be safely giren to 1 adult and frequently repeated. It reduces the temperature msiderably in two or three hours, but the reduction iss a very ansient one, lasting a few hours only.
I consider sponging with, tepid or cold water to be far more fective and agreeable than any of the antipyretic drugs, and it it only reduces the temperature but it relieves thirst, induces eep, and is agreeable to the patieut. Birmingham.
C. W. Suckhing, M.D.

COCAINE IN ACUTE TONSILLITIS.
Recently I began to suffer from a very sharp attack of acute tonsillitis of the right side, with a considerable injection of the surrounding parts. Two days after I experienced the most excruciating pain in swallowing, also serere pain in the right ear, and 1 conld only with great dilliculty speak. In the afternoon of this day my fricnd Mr. Thomas strabbed out my throat three or four times with a 4 per cent. solution of cocaine, and poured a few drops of the same, into my ear. The relief which I experienced mas so great that I could soon after speak fairly casily, and swallow with very much less difficulty. I continued to apply the cocaine every two hours during the day with continued success for five days, then a day in the country put me right.
P. Rhys Griffiths, B.S., M.B.Lond.

## CLINICAL MEMORANDA. <br> ANALYSIS IN AUSCULTATION.

Winl you allow me to suggest to those who are specially interested in the study of cardiac murmurs and bruits, and morbin sounds generally, a mode of examination and an arrangement of stethascopic apparatus, which I have found of very great service? The principle of procedure is to collect the sounds produced by the respective valves, or at several points, and to bring them to the ear together; which, obriously, facilitates the formation of a correct judgment of their comparative intensities; and then to suddenly eliminate one or another set of sounds, thereby readering the determination of what belongs to each severally a matter of far greater ease than the same discrimination when the valves, etc., are examined separately; while the accurate placing of such sounds as the early, middle, and late diastolic (presystolic) murmurs involves little difficulty. The method is analytical: the aggregate sound, or sounds, praduced by the movement of the blood-current or the several parts of the cardiac or pulmonary argans being, so to say, taken to pieces under the ear of the auscultator, thus enabling him to appreciate with clearness the part played by each in the production of the whole.
The stethoscopic arrangement consists in connecting two or more ordinary elastic tubes of suitable lengths, by means of an $\mathbf{X}$ piece, to the distal ends of a binaural instrument. in such manner that the chest-pieces may be applied at pleasure over distant areas simultaneously, and each instantly lifted so as to stop out all sound that arises from any particular region at will. The arrangement is so simple, and at the same time so effective, that I think it desirable to call attention to the matter. It differs from that of the ordinary differential stethoscope in that the sounds are brought to the two ears simultaneously, and the whole of the auditory power is, therefore, at work on the same subject, which, as I have said, is amalysed, by a process of exclusion, to the rery great advantage and ease of the listener in forming his judgment. The arrangement can be carried out by any medical instrument maker.
J. Mortimer Granitile, M.D.

If, Hanover Square, $\boldsymbol{W}$.

## OBSTETRIC MEMORANDA.

## RUPTURE OF THE UTERUS

Mrs. D., aged 35 years, was the mother of four children, the youngest of whom is 4 years old. Since its birth she has liad six abortions.

Pregnancy had adranced to the eighth montli. Tlie head presented in the first position, and the delivery of the foutus passed of naturally, the first stage lasting about four hours, and the second two. The child had evidently been dead for some time, and its abdomen was distended by ascites. Twenty-five minntes after the fotus was born there was some contraction of the uterus, when the placenta came partially through the os, but afterwards receded again: the patient, howerer, did not complain of any excessive pain. Ten minutes later 1 observed a sudden increaso in the rapidity of the pulse, and a collapsed state of the patient, so I at once introduced my hand, which went in with very litble resistance; but it passed through a large hole into the cavity of the abdomen. which evidently contained; a large quantity of blood. I found the placenta to be adherent ahove, and separated it withont much difficulty : but, after remoring it, I found another large mass in the ragina, which I also reninred.

It proved, on examination, to he a fibroid thickening of the uterus, forming a tumour weighing over two pounds. I kept up compression of the ablominal aorta all the time, but the patient was in a very collapsed state, and died shortly afterwards. Dr. Tresilian kindly made a post-mortem examination for me, which revealed the following conditions.

The cavity of the peritoneum was full of blood. There whs a large perforation of the uterus; in fact, the upper and anterior wall had come away, evidently containing a large intramural fibroid tumour.
The point of interest of this case seems to be the fact that the rupture probably took place after the foetus was born, though at what tine exacily I am unable to say.

> hat tine exactly I am unable to say. Ebbr Vale, Mon. ALex. S. Patton, M.B., B.Ch., Univ. Dub.

## AFTER-TREATMEST OF ABORTION

I indre read with great interest Dr. Murdoch Cameron's article on the Pathology of Abortion, in Relation to Treatment, in the Journal of Hiarel 3lst, and cite briefly two cases which have come under my own notice.
Case I.-Mrs. B., on my arrival, I found suffering from severe hemorrhage from the uterus ; if foetus of the third month having been expelled. The placenta was within reach of the finger, but apparently detached. The os was pretty dilatable but very slightly dilated. After several attempts at removal, which proved futile, I was on the point of sending for assistance when, to my great surprise and pleasure, on another attempt with two fingers, while pressing on the fundus uteri, through the abdominal wall, the placenta slipped throngh the os. The hemorrhage ceased, and the patient made a good recovery.

Case it.-Mrs. Gr., complained of hrmorrhage and severe pain, chiefly located in the lumbar and hypogastric regions. She had not menstrmated for three months. A soft mass was easily felt within the uterus. All attempts at removal with the fingers were fruitless. 1 plugged with pieees of cotton wadding, tied to a piece of string, at intervals of about six or seven incbes, dipped in a carholic solution ( 1 to 40). This method of plugging was approved of and recommended by Dr. W. L. Reid, and greatly facilitated removal afterwards. The plugs were left in about twelve hours; on their remoral the soft mass was still in situ, and adherent. I introduced my hand into the vagina without administering chloroform, and with little ditliculty scraped away and removed what afterwards provell to he a true nole. In this case chloroform 'should have been used. This patient is under my care now. She has not menstruated for four montlis. She presents symptoms of threatened abortion, otherwisn she is comparatively well.

I can thoroughly endorse the npinion of Dr. Murply (Sunderland), that chloroform and fingers are to he preferred to any kind of mechanieal instrument for remozal of retained placenta after abortion. In every case, pressure over the fundus uteri through the stheminal wall greatly helps in the operation.

Newmilus, Ayrshire.
T. C. Dunlop.

## CURIOUS DEFORMITY IN A TWIN.

1 was called by a midwife to a patient who had been delivered of a well-d veloped, eight months' infant three-quarters of an hour before my arrival. The patient, a 7 -1ara, was found to have consilerable hydramonios, and a sceond child was found presenting in the RO. P. position. 1 ruptured the manbranes, turned and expelled the child by suprapmbic pressure. The single, large, blacental mass was expressed, nul was found to have the eord of the first chilel attached centrally; that of the second was un " insertion welamentosa." This latter insertion, although not as a rule directly hindering the development of the fotus, may affect its life: (1) from the fact that the branches of the umbilieal vessels may be pressed on during lahour; or (2) from the circumstamer that the membran's may rupture at a part over which one or more of these branches ramify: hence causing hamorrhago fatal to the fetus. This insertion is frequent in multiple pregunncies.

It is well known that hyelramnios and deformities of the foetus (and, curionsly enough, often of the last born of the two) are frequently associated with twin pregnancies. In this case the second chilet was the subject of tha following deformity: The right haml was articulated to the lower and outer surface of the radius, about one inch from its lower extremity, and the mavement of this anomalons joint was goed as regards flexion and extersion, hut lateral movements, as might, be expectel, wre impossitule. The radinl and ulnar inferior extremities were
pointed, and no articular surface was to be felt. The entire thumb was wanting, neither a rudiment of the first metacarpal nor my traces of the thenar eminence boing present. No contracture or paralysis of the radial group, of museles was discovered. The opposite limb was normal, and the chile was vell-nourished buti smaller than the first. It died on the third day after its hirth, and, as I was at the time from home, ncither the eanse nor mode of deatlo was ascertainable further than that "it'gradually sank," The probable cause was asthenia produced by hemiorrhago indneed by cither of the accidents incidental to the velamentons insertion of the cord. No necropsy was permitted, which 1 nueh regret, as the arrangement of tendons, vessels, and articulations would have completed the record of a most singular deformity.

Charhes II. Benford, M.B., C.M.Edin,
Resident Medical Officer to the Gesto Hospital, Skye.

## REPORTS

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES

ST. BARTIOLOMEW'S HOSPITAL.

A CASE OF INTESTINAL OBSTRUCTION: IOCALISED PERITONEAL SUPPURATION: INCISION, WASHING OUT, AND DRAINAGE: RECOVERY.
(Under the care of Mr. Walshame.)
[From notes by Mr. C. M. Powehm, Dresser of the Case.]
R. D., aged 32, was admitted on January 20th, 1888, under the caro of Mr. Walsham, to whom he had been sent on the recommondation of Mr. T. H. Evans.

On the evening of January $18 t h$, while sitting still after an ordinary meal, he was seized with great pain in both incuinal aud umbilical regions, accompanied by swelling and tension of the lower part of the nbdomen and rumbling flatus, followed by retching and sickness. The romit began to be stereorneeous on the morning of Janmary 19th. He had suffered from inguinal hernia on the right side since he was two years old, and wore a truss tild he was seven. During youth and ever since he lhad been troubled
with oceasional attacks of giddiness and vomiting until about six With oceasional attacks of giddiness and womiting until about
or seven ycars ago, when they gare place to attacks of abdominn' pain, centering in the umbilien? region, transient in character, anc unattended hy intestinal obstruction. The hernia had frequently deseended, bit haf never heeome strangulated, and had alway been replaced, though often with difiticulty. No blood han eve passed per cinum. Four months ago, he was seized with pain ant swelling in the abdomen, with inability to unss motions; this eon dition Tras preceded ly motions of small calibre for about twe days; it lasted ten days, during which salines were given, an then a drastic purge. The illneas lett him very weak. The mo
tions had since been no thicker than his little finger, and passec generally twice a day. He had repeatedly of late tried to do hil work, which was laberipus, but was always disabled by incens of min in the abdomen. His family history was good.
When admitted, the patient looked pale and ill, bnt said he lint always had great museular strength. There was moderate disten sinn of the abdomen, with some muscular tension, equal on hot sides, hut with slight fulness over l'oupart's ligament on the righ side. On percussion, there was comparative dulness in the rifh inguinal region. The pain was also greatest there, but was grea everywhere below the umlificus on the slightest pressure: ther was dul pain at all times. The rect um was nermal. No hemi
onuld be felt, and the external ring was cularred. The romit $c$ the previons might (small in quantity) was thin and bile-stainm No fecees lad passed at all during this illness, but a littlc flatur after an enema. The breathing was shallow and mainly thoraci The temperature was $95^{\circ}$, rising to $100.4^{\circ}$ nt 1 P.M. . pulso $100^{\circ}$ respiration 24; urine acid, specifie gravity 1035, slight allumen The ablominal organs could not be examined oring to teudernee: of the aldomen. Tongue fairly clean. Opium and belladonn Were given; small guantity of iee to suck; no food.
From this date up to January 27 th, the abdomen continued i much the same enudition, the temlerness and swelling, howere becoming more localised to the right iliac fossn, and the skin i this region appearing mottled-red and very slightly oedematnu

After an enema, given on January 24th, a scanty motion was passed; and, from this date till the 27 th , several motions were passed daily. IIe was giren at first only half a pint of whey a day, but subsequently lialf a pint of milk was added to the whey, and still later increascd to a pint, as the romiting did not return. The temperature never rose abore $101^{\circ}$, and raried from day to day between this and normal. The pulse continued of fair rolume, and raried from 88 to 112.

January :7th. After a consultation with Mr. Willett and Mr. Baker, Mr. Walsham decided to explore the abdomen in the right inguiual region. An incision was made, beginning lalf an inch above the middle of Pouparts ligament, and running parallel to it outwards for two inches. The abdominal muscles haring been sererally divided, the peritoneal carits was carefully opened, and about a pint of dirt y yellow pus, with a strong feceal odour, was let out. The carity was irrigated rith a solution of iodine, decolorised with carbolic acid, till the fluid flowed away perfectly clear. It was then found that the carity was bounded by highly intlamed and matted-together coils of intestines. The cavity extended towards the middle line, but in a downward direction further than the finger could reach, and into this the irrigating tube was passed for about eight inches. A similar sinus, between coils of adherent intestine, also extended in an upward and inward lirection, and further than the finger could reach. A large-sized Irainage tube was placed in the cavity, and the wound sprinkled lbundantly with jodoform. and dressed witb jodoform ganze and wool. On the morning after the operation, the temperature lad allen to $93^{\circ}$, and the pulsc was 100 , of fair volume and streugth. wocally the round appeared quiet, and the washings from the avity were clear. There was no pain nor tenderness, the patient xpressed himself as feeling very comfortable, and was in exelleut spirits. l'rom this date he made a progressive and uninerrupted recorery. The tube was gradually shortened as the :arity slowly closed from the bottom.
On Februars 1st, slop diet was changed for fish, which was on the 3rd replaced by meat diet. On tle 15 th the wound had lealed, and the patient was discharged in excellent bealth and pirits to the Conralescent Tome at Swanley:
Remarks by Mr. Walsham.-The cance, I beliere, of the obtruction was infammation in and around the cecum; and, from le frequency with which, on post-mortem examination, such reurring attacks of typhlitis have been shown to depend on mishief of some kind in the vormiform appendix, it is probable that his might be the primary canse. On the patient's admission, the Hestion of opening the peritoneal carity in the region of the recum and exploring the condition of the parts was raised; but, n the whole it was considered, at a consultation that was held. hat it would be better to wait for a fer hours. As, under the nfluence of belladonna and opium, and the total abstinence from 11 nourishment, the acuteness of the symptoms subsided, the omiting ceased, and the howels were relieved, while the general ain and tenderness over the abdomen beeame less, the exploraory incision was put off till it became fairly clear that suppuraion had occurred. From the condition of the cavity when the eritoneum was opened, and the length of the simuses extending mongst the inflamed intestines, it was evident that there was exensire peritonitis, involving more or less the lower half of the In]omen. In one direction the irrigating tube was passed ful]y ight inches into the peritoneal cavity amongst the intestines, and he lower portion of the peritoneal cavity was thoroughly washed ut. The case was clearly more than one of a mere localised perioneal collection around the carcum; and although the inflammaion undoubtedly started at this spot, it harl extended, as maniasted both by the symptoms and the state of the parts found at ne operation, more or less over the whole of the lower half of the bulomen. This case in many respects appears similar to those eseribed by Mr. Treses, Mr. Marsli, aud others, and is, I think. anther example of what may be accomplished by wasling out in iplurative peritonitis.
On two other occasions ] have opened the abdomell for peritoitis, ambl attempted washing out. In neither of these cases mas here suppuration. I found the sticking together of the coils lyy le lynpli prevented the free pussage of the irrigating flud mongst them, and in no sense could a thorongl washing out of he peritonenm he said to have been accomplished. The condition the patients was too serinus to premit of any extensive exposure ith a riow of supplementing irrigation ly sponging. Both cases aded fatally. In such cases, 1 fear, little can be expected from jis Irocedure.

QUEEN'S HOSPITAL, DIRMINGIIAM.
THREE CONSECUTIVE SCCCFSSFUL CASES OF TREPIISING.
(By Acgustus Ciay, Senior Casualty Surgeon, Queen"s Mospital, Birmingham.)
CASE 1.-J. Gr., aged 6, was brourrht to the bospital on September 6 th, in a semiconscious condition, laving fallen ont of a rindow, a distance of about twelve feet; lupon examining his head, a simple depressed fracture of the vanlt of the sknll was discovered. The precise situation of the depression was the right parictal bone, a little behind the coronal suture and about thretqutarters of an inch from the median line-thus corresponding to the upper part of the ascending frontal convolution. The patient became unconscious, aud violent twitchings of the leg, arm, and face of the left side soon occurred. The right pupil was dilaterl and inactire. Pulse slow, but not particularly full. When 1 saw the child, there was complete paralysis of the arm and leg, although the twitchings still continued in the face, The breathing was stertorons, rery slow and shallow-so much so that it was feared it would cease altogether. The sphincters had relaxed. Trephining was decided upon, and he was lumiedly taken into the operating theatre, where the operation was commenced by the usual crucial incision. It was then seen that a part of the bone, the size of half-a-crown, was simply depressed, with the exception of a linear fracture (half an inch long) situated at the anterior edge of the circular depression. A three-quarter-inch trephine was applied, and a disc of bone (just taking in the fracture) was quickly remored, the surrounding bone being then easily elevated. There was a little hemorrlage, which was allowed to continue to reliere the venous congestion; after which tbe wound was syinged with corrosive sublimate lotion ( 1 in 2,000 ), a drainage-tube inserted, and the edges brought together by silcer sntures. Dressings of absorbent tissue, moistened with boroglyceride, were usel. Almost immediately after the bone had been raised, the left arm and les became convulsed, and the tritchings already existing in the face became more marked. In about a couple of minutes all the epileptiform convulsions had entirely ceased, and the pulse and respiration improred cousiderahly. The operation was performed without chloroform, and, before all the sutures could beintroduced, consciousness had so far returned that the boy criel with the pain and raised his hand to his head. Thren-quarters of an hour after, the patient answered questions, and in an hour he asked for some water to drink. On the second night the little patient moke up snddenly, and complained bitterly of pain in his bead; however, he soon went to sleep again, and was quite lively and playing with some toys next morning. On the fifth day his bowels were obstinate, and there was a sliglat elevation in his temperature, which was otherwise normal throughout.
The heal was dressed daily with iodoform ganze, and the drain-age-tube removed on the fourth day. The patient made a rapil and uninterrupted recorery; but, on acconnt of his inordinate appetite and his "rmmbustical" nature, he was not discharged until six weeks after the operation.

Case II.-E. B., aged 26, was admitted on July 10th. 1897. about an hour after having received a blow on the head with a stick. At the time he was struck he did not appear to be very badly injured, as he was able to walk some distance to a neighbouring surgeon; but on reacling the house he fainted. and was forthwith sent to the hospital. (in examination. there was found, slightly above and external to the left frontal eminence, a vertical linear found. one inch in lengtli, which led down to a depressed and comminuted fracture. The patient was rery drowsy, but could be roused by speaking loudly to him. Ilis statements and answers were incoherent, and he only desired to curl himself up and sleep. There was no paralysis nor monospasms; hut before the arrancements for the operation could he completed, he became somewhat comatose, The original wound was enlarged and intersected by another at right angles, when it was found that a fragment of bone, one incli by tbreequarters (consisting of hoth tables) was driven into the skull. This aperture was conveniently enlarged hy a chisel, and the jiece of bone abore referred to, with several comminutions of the inner table-sufficient to cover a florin-were removerl. The dura mater was perforated, the brain contused, and covered with blood at the seat of the injury. l'erchloride of mercury lotion ( 1 in -000 ) was used: a drainage-tube inserted; stitches being put in the scalp only. Absorbent ganze, moistened with boro-clyceride and corered with gutta-percha tissue, was the dressing emplotrd. A saline purge was administered six hours after the operation. The diet consisted for ten
lays of milk and soda-water, after which fish was nllowed. The hend was dressed daily. The wound healed primarily, with the exception of the part in contact with the tube, which was sloprened at cach dressing, and finally removed on the fifth day. On the eighth day the tempcrature. whieh was otherwise nermal, rose to $1 \mathrm{NW}^{\circ}$; the patient seemed somewhat depressed, and complained of pain in his left eye. The eye was kindly examined by my colleague, Mr. Priestley Smith, who reported it to be healthy'. From this date the patient progressed very satisfactorily, and wha discharged on the eighteenth day from the injury. isaw hin four menths later, when he was quite well, aud had not experienced a bad symptom since he left the hospital.
CASE III.-J. R., aged 36, was received as an in-patient on October $2-\mathrm{T}$ th, 1887 , having met with an injury to his head. 1Le was quite couscions, and gave the following account of the accident: While at work with a forge-lhmmer, a pin or bolt required to be realjusted, and he stooped down for that purpose. Unfortuuntely, he reached too far forwards, aud so placed his head partially between the steam hammer (weighing 10 cwt .) and the anvil. The blow was directed obliquely, the force knocking the patient from under the hammer and against another part of the machinery, causing a small scalp wound over the occiput, but not exposing the bone. He was stunned for a while, but soon recorered himself, and walked to one of his fellowworkmen for assistance. On examination there was found a contused wound of the foreliead one inch and a half long over the left frontal eminence, and the bone in a corresponding situation was found comminuted and depressed for nearly a similar extent. Hemorrhage had taken place beneath the cenjunctive and into the eyelids, which soon became discoloured and so prominent as to obstruct the sight ; there was no paralysis of the orbital uuscles, ner hæmorrhage from the nose. The patient was placed under chloroform, and an incision one inch long was made at right angles to the original wound, but only intersecting one side of it. The pericranium having been raised, a threc-quarter inch trephine applied, and the disc removed, six pieces of bone, varying from one inch and a quarter in length and half an inch wide were then taken away. It was observed that the bone on one side of the cavity was fractured and depressed (after the manner of "gutter fractures"), but was not quite separated. This was, with some difliculty, elevated, and allowed to remain. A linear fracture extended antero-posteriorly for some distance beyond the sent of the depression and the limit of the incision. The dura mater apparently was not injured. The wound was antisepticised with lotio hydrarg. perchlor. ( in 2,000 ), five silver sutures put in the scalp, and a drainage-tube inserted. Dressings were similar to those used in Case II. The tube was shortened daily, and permanently removed on the sixth day. The patient got up on the fourteentli day of the accident, and was discharged three days later, having made a most uneventful recovery.
hemares by Mr. acgustus Clay.-Case it is very interesting frem a surgical point of view, inasmuch as he was trephined dleven years previously by my celleague, Mr. Wilders. He had a "buffer" injury to hisoccipital region, causing great comminution and depression. As far as I am able to learn, this case is unique for its double successful trephining.

## REPORTS OF SOCIETIES

ROYAL MEDICAL AND CHIRURGRCAL SOCIETY. TUESDA5, Aimil 24tit, 1888.
Sir E. H. Sirteking, MI.D., President, in the Chair.
1 Fiurther Contribution to the Study of Rheumatoid Arthritis. -1)r. A. E. Garzon read this paper. The study of the nervous theory of rheumatoid arthritis, commenced in a former paper, was coutinued ; the museular atrophy, deformities, and dystrophies of the skin and nails met with in the course of the disease being examined with a view to seeing whether their occurrence afforded any evidunce in support of this theory. The muscular atrophy had been regarded by some as part of tho disease itself, by others as merely an example of ordinary arthritic muscular atrophy, and by nthers again as the result of changes in the peripheral nerves. Fividence was brought forvard in favour of the view that the museular atrophy met with in rheumateid arthritis was not peculiar to that disease. The result of an examination of the tendourettexes in fifty cases was given, and it was shown that, wherens the jerks werc usually exaggeratel, this was not an invariable
rule, and, it was suggested that peripheral neuritis, the presence of which had been demonstrated in such cases, might act as a disturling factor. This same condition might account for the occasional occurrence of numbness and tingling of the extremities in rhcumatoid arthritis, examples of whiel were given. Where these were met with, the jerks were not found to be increased. Attention was called to the importnnce of excluding cases in which sensory and motor disturbances were produced by pressure on the nerve-roots, when the disease had attacked
vertebral column. It was pointed out that changes in the joints, indistinguishable from rleumatoid arthritis, were met with in cases in which other nervous phenomena had preceded the articular disease; but these cases were regarded as belonging to a somewhat different category from ordinary examples of the disease. The conclusion was drawu that the ordinary muscular
atroply atrophy of rheumatoid arthritis was, as Dr. Cluarcat believed, a origin of the primary disease. The deformities due to musculur spasms were also regarded as secondary, the spasm to which they were due being of the same nature as that usually met with in
the neighbourhood of diseased joints. These deformities were not peculiar to rheumatoid arthritis; the skin changes were regarded as being probably due to peripheral neuritis, but whether this neuritis was a primary or secondary phenomenon there was not as yet sufficient evidence to show. Some facts seemed to in-
licate that it was of a primary nature.-Dr. MACLAGAN thought the paper a valuable contribution on an obscure subject, but had not much to say upon it. It tended to confirm his view of the neurotic origin of the disease; but how far it was due to the cen tral or the peripheral nerrous system was more than he could at present tell. The coincidence of peripheral neuritis was not likely to be entirely fortuitous; its occasional appearance was yery probably the reason of the eccentricity of the reflex phenomena.-Dr MADDEN considered that there should be much cuution in the introduction of peripheral neuritis into the symptoms. The only distinct evidence that had been given was from two or three cases of Pitres nud Vaillard. He had himself read a paper on the same subject four years ago to the Clinieal Society, and thrown out the
 in the carpus, patchy anæsthesia in the arms legs, and foce was most marked in the legs, where the joints were very little affected; in fact, the nerve changes did not go along with the joint clanges. IIe had examined many old cases in which then was no loss of sensation, and no atrophy beyond what would $b$ accouated for by disuse, and found the rellexes variable, some ir excess, some normal. Another patient had been a woman whi had had acute rheumatism, a year befere, and slight recurrence o rheumatic pain; and along with this recurrence, the typical gloss skin of such states in one Land, with loss of sensation an marked atrophy of nails aud of the forearm. It seemed a genuin neuritis; a relapse, in fact, affecting the nerves and not the joint
The iuc The iucreased reflexes he had foand very inconstant; ankle clonn change in the cells, not in the peripheral nerves, but in the spina cord.-Mr. W. A. LaNe was sorry to find that, after careful coll sideration of the nervous theory, and much dissection of afferte as those of rheumatoid arthritis in maund the changes describe only suppose them the normal consequences of the bubits of lifi as in carpenters, coal-heavers, etc. Beyoud such as were due rheumatism or senile change, he considered the rest due to sudde or habitual pressure.--Dr. Herringhay was anxious to call D. Garrod's attention to a pessible explanation of the position of fingers in rheumatoid arthritis. They were turned uerrly alway to the ulnar side of the hand. If there was any atrophy or wed disense, it would be foupd that tension of the extensor muscle pulled the index and, to a less extent, the middle finger over ti wards the ulnar side of the hand, and this, he thought, way th ordmary beginning of the ulnar deviation of the fingers. Onc
started, it was quickly increased, and the ather fingers were presse ont of position.-Dr. A. Money could not help expressing the ir terest he felt in these questions, and hoped they might look fi more contributions from Dr. Garrod. There was a long chapt still to be written, be thought, on the phenomena of sweatin
in rheumatic and rheumatoid disease. He had noticed th perspiration sometimes alkaline, and also oddly distributed ov parts where neither tendons nor muscles nor joints were affecte
as if it might possibly be the result of a nervous anomaly. It also came and went, sometimes without apparent reason. In these cases gastric crisis occurred, sometimes in a form quite indistingruishable from that of locomotor ataxy. The gastric secretion which was younited was extremely acid, and contained both sarcine and torule in cascs in which there was no sign of pyloric obstruction. The urine showed remarkable changes; there was sometimes transient glycosuria and sometimes rapid transitory changes in the amount of uric acid and urea secreted.Dr. A. E. Garron, in reply, said lre quite agreed that there must be great caution in assuming neuritis, and that much more obserration was necessary, Considering the small amount of postmortem obserration possible, be thought it remarkable that MM. Pitres and Vaillard had found it in all their cases. He agreed with Dr. Hadden that joint lesions did not go pari passu with zerve lesions. In reply to 3Ir. Lane's theory that pressure was an ficient cause, he did not see that it sufficed to explain why theumatoid arthritis was specially a disease of women, and at he menopause why it affected the peripheral joints, and such jarts as the temporo-maxillary joint; why it was symmetrieal, ind wly it attacked the duchess as much as the washerwoman. Ie was much obliged to Dr. Herringham for his suggestion as to leflection, but was inclined to think no explanation at present :ompletely satisfactory.
Effects in Disease connected with Oric Acid of some Drugs ohich cause Retention of Uric Acid in Contrast with the Action of Salicylates (as shozen in a previouspaper).-Dr. Alexander Haig ead this paper. He said a large part of the value of salicylates in ric acid diseases was due to their preventing acids from causing etention of uric acid, as pointed out in a previous paper. Some trugs that had the opposite action of causing retention of uric ccids were contrasted with the salicylates and their actions in ome diseases compared. The drugs those action on uric acid xcretion was now brought forward were lead, iron, and lithia, and t was shown that they caused retention of uric acid, though ithia produced this effect in an indirect manner. The doubtful :alue of lithia in gout and as a solrent of uric acid was pointed ut. The relation of dyspepsia to the uric acid headache, and the ray in which it explained the periodicity of the attacks, was eferred to. The effects on the nerve-centres of any causes of lepression in headaches and epilepsy were described. Sir A. farrod's inrestigations on chronic lead poisoning. the presence of uric acid in the blood of such cases, and the action of lead in recipitating an attack of gout were stated to be in accord with he facts now brought forward. Lead was mentioned as a cause if epilepsy, which could be easily explained if epilepsy was due o uric acid. Iron caused a relapse in gout, and did harm in epiepsy and in uric acid headache. Salicylates were valuable in ;out, chiefly in presention; they did not act promptly in acute ;out. Reasons were given for believing that some cases of epiepsy were due to uric acid, just as some cases of headache had been shown to be in previous napers. Recent observations by the uriter in the Neurologisches Centralblatt were referred to. Attenion was called to the close parallel between epilepsy and the teadache in question, and also to the close clinical relationship of ooth to gout. It was suggested that epileptic fits might be preeuted by salicylates iu place of bromides. Salicylates prevented ccumulation of uric acid, and thus stopped fits due to such ccumulation. Such casés of epilepsy might probably be cured y the diet which was so useful in the uric acid headache. When Ikalies were given along with bromides in epilepsy, less bromides could suffice to keep off the fits. The observations of Dr. Radliffe on this point were referred to. This result was due to the act that alkalies (as previously pointed out by the writer) preented retention and accumulation of uric acid; hence, as there ras less of the irritant, less bromide would suffice to stop the fits. )r. Radeliffe's remarks about iron and dict pointed in the same lirection as to the causation of epilepsy by uric acil. The same easoning was applied to attacks of gout and their preveution by alicylates.-Dr. Ormeron was glad to hear of any fresh palliaive, or possibly curative, treatment for epilepsy. He confessed hat the theory he harl just listened to seemed to him to be based in yery few facts, and inapplicable to the great majority of cases f epilepsy. At any rate, a long clinical testing was required. le had had experience that afterioon of two interesting cases of pilepsy in this comection. One was in a young man who had ypical attacks of migraine, legiuning with flashes of light in he wes. and going on to romiting and headache. The remarkhin joint was tlat exactly similar flashes of fight in himı some-
times led up to epileptic convulsions, and hiting of the tongue. There was no history of gout. In the other case, a boy 11 yeari old, there was a strong rheumatic history in the family, and bo had prescribed sodium salicylate, 10 grains three times a day. For fire weeks there had been no fit, but after that there came a batch of fits as bad as ever.-Dr. Lacter Brexton considered Dr. Haig's paper a valuable attempt to solve one of the most difficult of medical problems-the cause of gout. He thought no sufficient distinction had been made between retention of uric acid and diminished formation. Sir Alfred Garron had first shown how lead brought on gout in persons who had not inherited it. IIe had been himself much struck by a case of diarrhcea, in which, after all the regetable drugs had failed, he had given acetate of lead, and that had brought on rapidly a condition of red and swollen joints. In epilepsy he must beg to insist that there were many factors at work. So, too, in migraine there might be local conditions, such as decayed teeth or anomalies of rision and inequalities of the two eycs, which were shown to be the determining factors, because with their correction the headaches ceased. Defects of rision he had found to affect headache in nearly nine cases out of ten that he saw. In a lady who liad come from Massachusetts there was much pain in the back of the neck, which be had at first attributed to some local disease, probably of the bones, and Dr. Ferrier had come to the same conclusion; but nevertheless they found that the pain completely disappeared when ber eves were properly suited with spectacles. In considering the effects of lead, they must not forget that it bad a definite effect on the cells of the cerebral cortex. It would be interesting to see if in some cases of epilepsy it could be remored by solvents, and the epilepsy thereby cured. When he had been working at the effects of the bromides, he had noticed that some German observers attributed all results to the potassium, and some to the bromine, and this had led him to try the effect of common salt on a number of epileptics. There were some good results, some failures; and he thought it possible that its use might arise from its causing the patients to drink more and wash out the cells of their brain. Dr. Haig recommended sodium benzoate, and he thought it would be worth while to try that along with potassium bromide.-Dr. W. H. Whrte had noticed in Dr. Haig's tables that iron was represented as causing a greater retention of uric acid than lead. This retention, they were told, was the cause of epilepsy; hut were there any cases of iron epilepsy to bring forward? Saturnine epilepsy he admitted was well known, and lunacy was another nerrous effect of lead; was that produced by this retention of uric acid? And what effect had potassium bromide on this retention? If epilepsy depended on this poisoning of the system, he waz surprised to find its effects beginning generally unilaterally:-Dr. Harg was much obliged for the favourable reception of his paper, but wished to deprecate any too sanguine expectations from its conclusions. - He pointed out that migraine resembled epilepsy in so far that in both at the time of the attack the excretion of uric acid was increased. He had found some good results from the use of salicine in epilepsy. As to retention of uric acid, he considered it would be shown to be separate from diminished formation. The local conditions, such as anomalies of vision, etc., he admitted might cause irritability and susceptibility to the uric acid poison. The effects attributed to lead in the cortex of the brain might, perhaps, be due to combined lead and retained uric acid. In comparing the results of lead and iron, it should be noticed that the amounts of iron taken were much the larger. He had made experiments on the effects of potassium bromide on the retention of uric acid, but found no variation caused by it. Sir Alfred Garrod, twelve years ago, had shown that uric acid was in excess in the blood in epilepsy, and he hoped soon to be in a pesitiou to argue more generally from its excess in the urine to its excess in the blood.

MEDICAL SOCIETY OF LONDON.
Mondat, 1 pril 23bd, 1583.
Edausd Owen, F.R.C.S., Fice-President, iu the Chair. Intra-muserlar Injection of Mercury in the Treatment of Syphi-Lis:-Mr. J. Aethey Bloxary read a paper pointing out that the subject of the injection of mercury into the tissues had received but seant attention in this country, although largely practised abroad, especially in Germany. Ifis attention liad bcen drawn to
the subject in the first instance by the benefit derived by a patient of his, during a stay in lierlin, from the trentment of Dr. Lewin, who used a solution of the perchloride of mercury for injection. He then carried out the method at the Lock IIospital on $n$ large scale. IIe found that certain precantions were necessary in using the solution, in order to avoid the formation of abscesses. Dr. Lewin used three solutions, contnining respectively four, six, and eight grains of the salt to the ounce, the quantity used varying with the frequency of the injection and the coudition of the patient. He claimed for the method that it wns mere prompt in action, enabled the medical man to know exactly what amonut of mercury was being absorbed nt any given time, and spared the patient the gastric derangement apt to follow the ndministration of the drug by the mouth. Mr. Bloxam said he had employed the drug in this way in all stages of the disease with unifermly successful results. He had tried the preparation of calomel in glycerine ( 1 in 10 ) nad calomel in vaseline ( 1 in 5 ), but found that both were very painful and prone to give rise to the formation of troublesome nhscesses. He gave quotations from textbooks showing how little the subject and the modus operandi were understood. llis own plan was to inject ten drops of a solution of sal alembroth, contnining one-third of a grain of the salt. This lie injected deeply into the muscular substance of the buttocks once a week, changing sides at each injection. The pain was but slight, the induration little marked except bleeding took place, and in no instance was followed by abscess. This solution kept well, was clear, and was not liable to fungoid growth or precipitation. The primary sore had generally healed by the second injection, and the secondary symptoms soon cleared up, leaving only the throat and the glands as evidence of the disease. As tbis stage the injection need be given only once a fortnight, and, still later, only once a month, continuing the trentment thus for a year or eighteen months, some eight or ten grains of the salt sufficing for the whole course of treatment. Mr. Blexam brought several cases under treatment, showing the effect of the method, and demonstrated the modus operandi-Mr. Edmend 0 wen said he was interested rather than convinced by the paper, but he expressed his intention of giving the method a trial. Ile asked whether infiltrations were frequent after injection, and as to when Mr. Bloxam would use the injection. Also, did he find the method prevent the occurrence of secoudary symptoms, and were relapses more or less frequent? He suggested that the method was one which presented certain difficulties in carrying it out in private practice, especially in respect of women.-Mr. John Morgas said that Mr. Bloxam had, at any rate, shown how mercury might be safely introduced into the tissues, his results comparing favourably with what he had seen of Sigmund's plan. as carried out in Vienna. He had given the system a trial. but although there had been no bad results, he had not obtained any particularly good ones.-Mr. Bernard Prtss explained that he had announced Mr. Bloxam's paper in advance by mistake for the prerious week. He said he should have to sce a good deal more before he could renlise that a medicine given once a week could act as well as one given like n food. He pointed out that the results obtained in one of the casea, at any rate, were not better or even as good as those oltainable by the ordinary means. He mentioned that with small doses of grey powder he had succeeded in preventing the secondary symptoms, even in cases of undoubted syphilis.--Dr. Hasdrorn mentioned that in Vienna he had usunlly seen used a combination of the perchloride of mercury with peptones. He himself had used a simple solution of the perchloride, hut the pain prorluced was so grent that patients begged that the treatment should not be continued. He had, however obtnined very satisfactory results with it.-Dr. T. Oetterson Woon said that the pain attending the injection by Mr. Bloxnm was very slight, nnd patients often asked for it to be repeated oftener than once a week.-Dr. Hrros quoted the case of a medicnl man who had suffered from syphilitic manifestations for upwnrls of twenty yenrs, who had improved materially under the injection treatment. He (Dr. Heron) had injected himself on one occasion, to test the amount of pain, nid found that while the pain nt the time of injection was not rery grent, the subsequent pain wns far more considerable. He ndded that, if any great ndrantage could he slown to be ohtaimble by this method, patients would probnhly be willing to agree to it, though there might be a difliculty with regard to lady patients -Mr. BLoxas, in reply, explained that infiltration only occurred when bleeding followed the puncture. Ife always waited for clear eridence of syphilis before beginning treatment. He did
not believe that it was possible entirely to suppress the secomlary symptoms. He employed it in private practice without any dificulty. Relapses were not more common than with the other methods of treatment.

Albuminuria in Enteric Fever.-Dr. ILaxprond gave an account of his obserrations in 75 successive cases that had been under his care during the past three years in the Nottingham General Llospital. There were 10 deaths, 7 of them due to perforation, giving a mortnlity of 13.3 per cent. In 8 of the cases a post-mortem examinatiou was made, followed by a microscopical examination of the viscera. The account of the lesions in the kidney was based on these and on two or three other cases not included in the series. Murchison give 549 cases by 10 observers where albuminurin was observed in 157 , or 28.6 per cent. In the 75 cases ofserved by Dr. Handford the urine was examined by himself in every case (save one not included in the tables) sereral times, and in most daily during the severity of the disease. Albumen wus present in 42 and absent in 32: that is to say, it was found in 50 per cent. of the cases. Of the 42 cases with albuminurin 9 died, giving a rate of 21.4 per cent. Among the 32 without albumen there were no deatlis. Among the 42 cases there were 3 children, wherens in the 32 there were 14, showing that there is nuch less linbility in children to the albuminuria of enteric ferer. The cases of albuminuria rere classified under three heads: 1. Those with pre-existing definite kidney disease. These cases seemed very rare. 2. When there was abundant nad persistent albuminuria, often to the extent of 0.05 up to 0.1 per cent. Among these the mortality was very high. The most marked change in the kidney in such cases was found to be interstitial or diffuse nephritis, with glomerulitis and hremorrlage. The nephritis wns probably of septic origin, like so many other complications of enteric ferer. 3. Where the albumen only existed as a trace, and that only for a short time. Among these the mortality was much less. The renal changes were much less definite, and sometimes scarcely any niteration could be detected. The chief alterations appeared to be rascular engorgement with capillary hemorrbage, slight cellular infiltration and multiplication of nuclei, and cloudy swelling of the epithelium. Mnrked parenchymatous nephritis With fatty degeneration of the epithelium was not found, though
some degenerative cla to distinguish from alterations which occur so rapidly past mortem, especially in death from peritonitis due to perforation. Numerous drawings of microscopic preparations were slown.

## harveian soctety of london Thumsday, Apilil 19th, 1888.

Willitam Sedgwick, M.R.C.S., President, in the Clair.
Alopecia Areata.-Dr. Robisson read a paper on alopecia areatra Ife described two varieties, n prasitic and non-parasitic. The
forn former bad a relationship to ringworm. He lad found life in the LYise had not seen alopecia follow ringworm.
Ovarian Tumours in Pregnant Women.-Dr. Braxtoy IIrcis read two cases of orarian tumour, associnted with pregnancy, in which the remoral of the turnour had been followed by recorery. In the first, labour had continued thirty hours. The tumour came down, and prevented the head being seized with for ceps, and turning was tried, and found impossible. Thr chiving. The the pacenta required remoral. The tumour grew rapidly nfter deliyery; and was remored. It was adlueren: every where, and was compound in character, nearly colloid. The patient made an excellent recovery. In the second case there was nn ovarian tumour which renched rather above the umbilicus. was diagnosed to bei composed of two cysts. The wominn had missed tro periods, and it was proposed to wnit until after the middle of pregmancy. However, the cyst became tense, witl pain, and was removed. The pedicle was found twisted, and the tumour ndherent and becoming necrosed. To uterine action came on for two weeks, when nn ovum was expelled. The cases showed that when ovarian tumour and pregnancy were concurrent, if the tumour gave signa of irritation, the sooner it was remored the better--Dr. HandField-Jones spoke of the rapid growth on ovarinn cysts after tho uterus had been emptied. He liad known them within two months attain enormous size, and contract ndbesions. Ile thought, therefore, that ovarian tunours ought to be removed as soon as possible after delivery:

Temesection.-Dr. Franisisu then read a paper on venesection

Ie had found it of particular benefit in cases of uriemia and erebral congestion. IIe had seen puerperal convulsions, in cases There there was albumen in the urine especially benefited by

In spite of popular prejudices, he thought it ought often to practised.-Dr. Robinso. was accustomed to bleed in cases ;here there was much venous congestion.-Dr. Braxton Hicks ad considerable experience of bleeding, aud had done the oppote, transfusion, eight times. Venesection had been most benecial in cases of puerperal convulsions.-The President felt that opular opinion rendered renesection difficult to practise, although iten heneticial. The older practitioners used to bleed in the early ages of collapse, especially those due to perforation. It was also ractised in collapse due to cholera.-Dr. IIANDFIELD-Jones menoned a case in which he had bled for amenorrhoa witl excellent sult.-Dr. Frankish replied.

## BRITISH GYNECOLOGICAL SOCIETY. Wednesnay, April IIth, 1888.

ArtMur W. Edis, M.D., F.R.C.P., President, in the Chair. Ruptured Tubal Pregnancy occurring twice in the same Patient. Mr. Idawson Tait read notes of this case, which will be pubhed in the JOURNAL in full.
Removal of the Uterine Appendages.-Dr. G. Grantilite BaxICK exhibited a number of specimens illustrating many forms of sease to which the uterine appeadages are liable: I. Cirrhosis the Ovary. The patient, a married woman, aged 29, the mother two children, had been the subject of most severe dysmenorœa, rendering her perfectly incapable of following her usual arotions. The cervix had been dilated with temporary benefit, but e dysmenorrhcea returned in a few months with increased verity, and with the addition of more or less constant pain. At e urgent entreaty of the patient, and on the ground of negative idence from the absence of any enlargement and inability to al the oraries in a farourable subject, which induced him to nclude that the ovaries were cirrhotic, he removed the appendies. The resuit had been a complete cure, both in the arrest of enstruation and the relief of pain. 2. Salpingitis in assaciation ith an Orarian Tumour with a Twisted Pedicle. In this case th tubes were as large as the index finger, that on the side opsite to the tumour being closely adherent to the posterior aspect the broad ligament. The patient was a married woman, aged , without family. 3. An example of Abscess of the Right Orary th Salpingitis, and Adhesions and Chronic Salpingo-oraritis on e left side. The patient was a single woman, aged 36 , who had d one child some years before. The operation was a very formidle one, owing to adhesions which involved the crecum, but its ccess was complete. 4. A recent specimen from a single woman, ed 24 , illustrating the conditions of Hæmatosalpinx in the uterine d of the left tube, and Pyosalpinx in the outer portion, in which e contents had undergone caseous degeneration. In the right be there was pyosalpinx in the same stage, together with almost mplete severance of the tube by a constricting band of adhepas. The patient was progressing well. Dr. Bantock stated that all the cases brought forward he had been able to ascertain by e playsical signs that the cases $\pi$ ere suitable for operation. en in the case of cirrhosis he had diagnosed this condition; it is not necessary to make an accurate diagnosis in such cases. Was impossible to diagnose a blood-cyst in one case, or an ab?ss of the orary in another, associated as they were with extenre adhesions and enlargement of the tuhes. It was sufficient to able to say that there was disease which nothing but abminal section could clear up.
Pyosalpinx.-Dr. Fancoctrt Barnes exhibited an orary with 3 left Fallopian tube, which le had removed six weeks prepusly from a patient who lad been a chrouic invalid in conseence of her sufferings. She liad left the hospital a fortnight fore perfectly rclieved. IIe had not made a differential diagnosis ween pyo-and hydrosalpinx in the case; it was sufficient to 'gnose one or the other.
Intra-uterine Medication.-Dr. Ronert BeLa (Glasgow) read - p paper. IIe considered the uterus in a large majority of cases 18 the sonrce of the mischief in a great many of the rarious ections to whicli the tubes and ovaries were liable. It was, theree, by suitable treatment of the uterus that such evils were to averted. Iodised phenol was the preparation which gave the it results. It was aseptic and antiseptic in the highest degree, 1 the carbolic acid exercised a powerful anodyne effect on the

In treating cases of long-standing endometritis it was necessary to remove the granular condition of the mucous membrane as a preliminary to the strictly medical part of the treatment. This was effected by means of the curette. Ile had also found intranterine medication useful in a class of cases where it was not usually employed-namely; in displacements. Displacements were invariably associated with a softened condition of the uterine walls from a congested condition of the parts. In conjunction with the use of pessaries, intra-uterine medication did much permanently to remove the displacement. The treatment of such cases, as a rule, occupied three to four months.-In the discussion which ensued, Dr. Ilefwood Smith, Dr. Bantoce, Dr. Aveling, Dr. Fancourt Barnes, Dr. Pridham, Dr. Manseli, Morlifis, and the Pdesident took part.-Dr. Bell replied.

## MIDLAYD MEDICAL SOCIETL. <br> WEDNESDAT, ApRIL 4 TH, 1888.

Ross Jordan, M.R.C.S.E., President, in the Chair.
Lupus Fulgaris.-Dr. Kirby shomed a case of lupus vulgaris, of seven years' duration, on the arm of a girl, aged I4, who was recorering rapidly under treatment by Unna's plaster. There was no history of struma in the family, but several relatives had died of cancer.

Enmsted Hydrocele of Epididymis.-3r. Jordan Liovd showed a case of this disease.

Urethral Calculus.-Mr. Jordan Liomi also showed a large urethral calculus that liad been passed by a boy.

The Davos and Engadine Falleys.-Dr. Foxwell read a paper on this subject.

Pancreatic Cyst.-Mr. Bennett Mar reported a case of pancreatic cyst for which he had operated. The operation resulted in the remoral of a large gall-stone from the gall-hladder. The cyst had collapsed previous to the operation, but two months before that a quart of fluid was removed by aspiration. The necropsy showed that denth was caused by gangrene of the pancreas. The cyst had a large aperture of communication with the duodenum. It appeared probable that it was a retention-cyst (gall-stone in the common orifice), as there was a well-marked history of attacks of severe biliary colic with jaundice.

Tesical Calculi.-Mr. Bennett Mar also showed a number of vesical calculi.

Drop-urist and Extensive Muscular Atrophy from Lead-poison-ing.-Dr. Suckirsg showed a young woman who had worked as a maker of paper bags four years ago, and who had to give up her work on account of paralysis of the upper extremities. She had suffered from colic and constipation. There was a well-marked blue line on the gums, and double wrist-drop. The supinator longus on each side was much weakened. The thenar and hypothenar muscles on each side were wasted, and the main en griffe was present. The muscles of the forearms and shoulders were also much atrophied. The intrinsic muscles of the hands and the extensors of the wrist did not respond to the Iaradic current.

Senile Chorea.-Dr. Suckhakg showed a woman, aged 6.. who had suffered from chorea for nine years. She had suffered from chorea when L2 years of age, but recovered completely from this attack in about three months. She had an attack of rheumatism Fhen she was 45 years of age. There were jerky spontaneous movements of both the upper and lower extremities, and the tongue and lips were especially affected. There was considerablo inco-ordination, and the disorderly movements were intensified by emotional disturbance, and ceased during sleep. The intellect was unaffected, there were no sensory disturbances, and no signs of heart disease. The patient attributed her illness to worry and กnxiety.

## BRIGHTON AND SUSSEX IEDICO-CHIRURGICAL SOCIETY. THURSDAY, APRIL 5TH, I\&8S. <br> J. Harlis Ross, M.D., in the Chair.

Gangrene of Penis.-Dr. J. IIARRIs Ross showed a man who had suffered destruction of the penis from gangrene during an attack of diphtheria.

Alenoid Vegetations of the Naso-Pharynx.-Mr. Cbesswent Baber showed photographs, before and after operation, of a man, aged 25, from whom a large quantity of these growths was removed under chloroform at one sitting, and drew attention to the improvement in the appearance of the face produced by the restored nose breathing.

Obscure Cerebral Case.-Dr. Wintrlez read notes of the case of A man, aged ind who had received a blow on the head when a boy, from which permument deafness resulted. Jle had had two severe illoesses al.rond attributed to sunstroke, and had boen subject to vertigo (?aural). lie appeared in good health till February osth, When, after exposure to cold, he was attacked with frontal headache, pain in the right shoulder, aud a feeling of weakness. Hotor haralysis rapidly developed in the right arm, thenextended to the left arm and both legs. Me complained of difficulty in brenthing. There was loss of superticial reflex, and extensive, but not absalute, sensory paralysis. 1 lis mind was clear till within o short time of his death, which occurred on the eleventh day with signs of apncea. The post-mortem examination threw no light on the cause or nature of the disease.
The Irinciples and Practice of the Local Treatment of Diph-theria.-Mr. R.. Sannersos read a paper on this subject. Jle argued that, apart from Oertel's elaborate researches, there was sufticient clinical evidence to slow that diphtheria was primarily a locnl disease. The local lesion should be regarded bacteriologically as a "cultivation" upon luman mucous membrane; and ceeteris paribus-that is, assuming a uniform healthiness of organism-the constitutional poisoning was directly proportional to the area occupied by the cultication. The diphtheritic membranes were a protecting blanket under which aud in which this cultivation throve, and, moreover, were in theraselves a mechanical danger, and aided the spread of the cultivation by transplantation and continuity: They should, therefore, be thoroughly dissolved early, and redissolved as soon as reformed. He knew of no solvent better than Finkler's papain, and described the method of applying it. Ilaring thus exposed the cultivation, a germicide should be at once used: he preferred glyc, acid. carbolic. 3 j , glycerine $Z_{j}$. IIe maintained that ly taking a case early and treating the local lesion rationally on the above lines, the area and consergently the toxiemia could be controlled, and the danger of invasion of the nose and larynx minimised.-Dr. Black thought that the general symptoms were not always proportionate to the local lesion.-Mr. Alfred Scott agreed with Dr. Black. Albuminuria did not in his experience always come on at the com-mencement.- Mr. Algernon Hodson mentioned a series of cases which he had treated with large doses of perchloride of iron.Dr. Palfir thought that after tracheotomy children still died of suffocation; this happened in at least two-thirds of his cases of tracheotomy. He had found good effects from a spray of papain into the trachea after tracheotomy.-Mr. Nicholis and $11 r$. Jennen Vemrall also made some remarks, and Mr. Sanderson replied.

## PATHOLOGICAL SOCIETY OF MANCHESTER. <br> Wennesday, April Iltif, 1888.

## J. Dixon Mann, M.D., Vice-President, in the Cbrir.

Case of 7)iahetes Mellitus in which Acetonamia was induced by the Shock of a Strangziated Femoral Ilernia.-Dr. Railion showed sections of various organs from this case, which was that of a roman, aged 56, who had been under treatment for diabetes at the Manchester Clinical Llospital for Women and Children for sixteen months. During that period she never had any symptoms of acetone in the blood, or aceto-acetic acid in the urine. A femoral hernia, from which she had suffered for many Years but had failed to mention, becarae strangulated. Acetonremia at nnce onsurd, and although herniotomy, with local anresthesia from cocaine, was performed by Mr. Southam, she became comatose and died. The sections from the corter of the brain, the medulla, and the cervical cord showed nothing abuormal. The liver premented a general dilatation of the intralobular capillaries, with some slight atrophy of the cells and deposit of pigment; the kidnoys showed degeneration of the epithelium of the convoluted tuhes, with slight fibrosis, thickening of the intima of arteries and dilatation and engorgement of the capillaries. The heart muscle showed hut slight degenerative change-granules at the poles of the nuclei, lut no loss of striation. There were nosigns of phthisis abmut the lungs, but a slight amount of broncho-pneumonia existed in the left base. The pancreas was not examined. Yo trace of peritonitis was discovered, the bowel at the seat of the strangulation heing quite healthy, in interesting point about the case was, that the temperature became subnormal at the onset of the acetonimia, and remained so until death.

Sertions of Tiver from an Thusual Case of Cirrhnsis.-Dr. Wrld showed ections of cirrhotir liver, from a girl aged 9 years, who
died after a prolonged illness, the chief characteristics of which were aseites, hematemesis, emaciation, and progressive exhaus-
tion, tion, leading to death. No history of alcolhol or of congenital symilis could be obtained. "The liver was harder than nomnal, areas of yellow liver tissue were seen, surrounded by white lines the new-formed fibrous tissue. Microscopically the cirrhosis was of the multilobular form, more adranced in same parts than Thers; the fibrous tissue contained a large number of round cells. There was no marked proliferation of bile-ducts, no thickening of the capsule.

Malignant Discase of Jazs.-Mr. Jones related theso cases, and slowed the specimens. 1. A man, aged 55, was admitted into tho Manchester Royal Infirmary on December 18th, 1887. Ihe noticed swelling on the right side of his nose nine months before, Which gradually attained considerable dimensions. The growth, Which was painful on pressure, obstructed the nostril, and caused a bulging of the lard palate. There was slight ulceration on the cheek, and a discharge. Beneatls the lower jaw and along the
sterno-mastoid there was a chain of enlarged glands. The superior maxill was aned on December 22nd, the enlarged clands bing maken away at the same time. The patient recoverell sufficieing to be trausferred to the Convalescent Home at Cheadle on Jiciently 1 th, 1888 . On lis 1lth, 1888 . On his return there were some indications of recurrence of the disease, Which was epitheliomatous in character. A man, aged 23 , was admittcl on January 23 rd, 1888 . In Noveusber, 1850 , he had a constant tic in the left cheek; the pain disappeared about duly, 1887 , when he noticed a small swelling above creased upwards and inwards, and loosened the premolnr teeth so that he could easily extract them with his fingers. On admission a large ovoid swelling occupied the region of the left chack, pushing down the angle of the mouth. Its upper limit reached the orbital ridge of the superior maxilla. The hard palate bulged considerahly, and in the centre of the bulging was a small ulcer, the edges of which rere not undermined or everted. The surface was not raised. No enlarged glands could be detected. The lett upper jaw was removed on January 26th. The skin incision readly healed, one-third of the sutures (fine silk) were removel left for Cheadle on February 7 th, very slight disfigurement could be noticed. The disease was spindle-celled sarcoma. 3. A woman 39, first seen in Norember, 1887. Five years hefore she had the left lower wisdom tooth extracted for caries, with toothache. For the last three years at least she had always had some discomfort in the situation whence the tooth was removed. Eighteen months ago she noticed a swelling of the gum, and for six weeks she had been unable to take any solid food, owing to the pain at the roots of all the teeth on the left side of the lower jaw. On examination it hecame evident that the bone was expanded by a tumour centrally situated. The portiou of bone implicated was removel on Norember 12th. The patient made a rapid and complete recovery, very slight deformity being left.
Specinens-Mr. Yousg, Dr. Hetion and others shawed various I'reparations.

## LEEDS AND WEST RIDING MEDICO-CIIIRURGICAL SOCIETY.

Fitidy, April 6tit, 1888.
F. Atkinson, M.R.C.S., President, in the Chair.

Suprapubic Prostatectomy.-The President gave an account of two cases in which he liad removed pertions of the gland hy Mr. McGill's process. In the first case a farmer, aged 66, was admitted to the Leeds Infirmary with a five-years' history of repeated attacks of retention, requiring cathetcrism, the urine drawn off containing blood. The last attack occurred two days before admission. The bladder was much distended; there was free urethral hemorrhage, and the prostato was much enlarged A catheter drew off dark chocolate-coloured urine with numerow clots. The urine Tas regularly drawn for eight days and the bladder irrigated. The rectum was distended by a bag contnining 12 ounces of water, and tho bladder injected with 10 ouncu the size of a cricket-ball was found to snsing from trowth about of the prostate. There wore two openings into the bladder, on below and behind the growth, the other, which seemed to be false passage, through the centre. The mucous membrane beine incised, a considcrable portion of the growth was enucleated in
veral portions. There was free hæmorrhage, and the patient's ndition caused some anxiety for some days after the operation account of vomiting, diarricea, and great weakness, but he made good recovery, and was discharged well twelve weeks after the leration, passing urine freely ly the natural passage. Case ir.man, aged 71, had had symptoms of enlarged prostate two years id retention for four days before admission. The bladder had t been emptied for two days, and was much distended. A
theter withdrew 50 ounces of deeply bload-stained urine. After s days of regular catheterisation and irrigation of the bladder ith astringents without restraining the hemorrhage, turpentine as administered successfully as regards the hemorrlage. The adder was opened, and two large masses were found projecting to the viscus on each side of the urethral orifice. A small dunculated growth, projecting from the mesial surface of the ft enlargement, was removed with scissors (this appeared to ock the urethral oritice), and the two larger masses were enu3ated by the fingers. There was little bleeding. The bladder as at a later period drained by a long tube inte a vessel placed ider the bed. The patient did well for a month, and he was lowed to get up. Six days after, however, he was seized with ute pleurisy, of which he died. The local conditions, however, cre quite satisfactory.-Mr. Jessor mentioned a case in which : had performed the operation, the patient dying from acute rotitis. He asked whether enucleation from the rectum might it sometimes he practicalle.-Mr. McGıLL said prostatic enlargeent might be divided into two classes, according as they grew ainly towards the rectum or towards the bladder. In the latter tegory he included those in which, without much enlargement, ere existed the valvular collar arrangement first described by r B. Brodie. The first class caused no bladder symptoms, and erefore he thought the operation suggested by Mr. Jessop inecessary. In one case of his own, which proved fatal, there as albuminuria at the time of operation. The patient sank adually, and post mortem the walls of the bladder were found be very thick, and there was suppuration in the cavum Retzii. e thought the prognosis better with a thin than with a thick alled bladder. He had recently operated successfully in a case bere the portions removed weighed 2 ounces.
Antiseptic Milluifery.-Dr. PURDy maintained that strict antiptic precautions were impossible in private practice, and said at among the heads of the profession there existed great differce of opinion as to the best methods and the best-antiseptic ents. IIe had seen much harm ensue from the routine washing it of the vagina by nurses.-Mr. Wm. Hall thought we must not se sight of the fact that there was a serious and highly infecjus malady in puerperal fever, and there could not be a too care1 disinfection of the person of the obstetrician-Mr. C. J. RIGHT pointed out that the adoption of strict antiseptic preutions had lowered the mortaiity in lying-in hospitals from 7 ir cent. to less than 1 per cent., but that by antiseptic midifery he understond every precaution which ensured complete eanliness, not merely the use of a particular disinfectant.-Dr. frimira aud Dr. Bratthwater also made some remarks.
Pathological Specimens.-Dr. Ahlan: 1. Tibia, three months ter comminuted fracture. 2. Extreme Granular (Gouty) Kid-ys.-Mr. Turner: Microscopic Sections of (l) Mammary Imours ; (2) Interstitial IIepatitis.
Cases.-Dr. Barrs showed three cases of Myxoedema.-Mr. Atkrnson showed a patient on whom Thiersch's operation for moral of the Genitals had been performed.

## CAMBRIDGE MEDICAL SOCIETY. Friday, March $2 \mathrm{nd}, 1888$.

H. Staar, M.R.C.S., President, in the Chair

Congenital Malformation of the Pulmonary Talves simulating neury m of Arch of Aorta.-Dr. Wm. Corlier (Oxford) showed e heart and large vessels of a woman, aged 33. She had enjoyed nod health until the age of 18 , when she had rheumatic fever, Howed by constant pain over the upper half of the left side of o chest, and lyspnrea. She was helieved to be suffering from rtic aneurysm, and after treatment by rest and diet for twelve onths, Mr. T. IIolines tied the left cemmon carotid, the operation ing followed by marked relief to the symptoms. Thirteen years ter the patient died of phthisis in Oxford, when a post-mortem amination shored that all the symptoms were due to a connital malformation of the pulmonary ralres, and that an aortic courysm had nerer existed. The case is fully reported in rol. ix, 114, of the Clinical Society's Transactions.

A Cise of Churcot's Jisease of the- Knce-Joint (specimen shoun). -Dr. Wm. Coldier referred to the discussion on Charcot's disease at the Clinical Society, as to whether the disease was a form of rheumatic arthritis altered by locomotor ataxy, or whether it was a special disease in no way connected with rheumatic arthritis. He thought the history of his own case pointed to its being a special disease. The knec-joint shown was that of the womau, aged 41, who had first come under observation $2 \frac{1}{2}$ years pre riously with marked locomotor ataxy, with a strong history of syphilis, but none of either gout or rhelmatism. Twelve months before her death the left limb was noticed to be swollen, but no clange could be found in the joint, with the exception of fluid effusion. For the sixteen months previous to this she had been practically bedridden, as the atary had been so severe as to prevent her standing without support on either side. Six months later it was found that in the space of six months the joint had become totally disorganised; the bones were freely morable in every direction ; there was rery marked grating, but no pain. After death it was found that enormous loss of tissue had occurred, the crucial ligaments had entirely disappeared, the external condyle had gone, and yet, as he had stated elsewhere, a large amount of new bone had heen formed in the immediate neighbourhood of the destruction.

Thoracic Tumour: Recovery whilst taking Chian Turpentine.Dr. Bradbury related the case of H. J., aged 39, widower, admitted into Addenbrooke's Hospital on November 26th. There was a history of cancer in two sisters, and his father had died of "tumour." The patient had had sereral attacks of serera epistaxis since boyhood. When 19 years old he had some disease in the left lung, and lately had had several attacks of hremontysis. The present illness began with cough and pain in the right side of the chest and shoulder, bload-stained expectoration, and night-sweats. On examining the chest there was a smooth elevation as large as the palm of the hand, extending from the clavicle down to the third rib, just to the right of the sternum. No pulsation was felt, and there was no enlargement of the superficial veins. Percussion was impaired orer this region and caused some pain. and respiration was feeble there, with occasional rhonchus. No murmur was audible aver the swelling, and the heart sounds were normal. There were no sigus of aneurysm, and the lymphatic glands were nat enlarged. The swelling increased in size and became more prominent, causing pain and slight fulness of the right arm. On several occasions he had epistaxis. He was given five-grain doses of iodide of potassium for a few days, and on December IIth he was ordered fifteen minims of ethereal solution of Chian turpentine three times a day. The swelling continued up to December 25th, and then gradually diminished, so that on December 31st there was no prominence and only some hardness. the physical signs also clearing up. He still had attacks of epistaxis. He was discharged, well, having gained 202 pounde in weight.-In the discussion which ensued as to the nature of the tumour, the probability of hæmatoma was raised, associated with the tendency to epistaxis.-Dr. Bradberry, in reply, thought the situation was unusual for hrematoma, and the history was quite as much in farour of cancer. Its origin might possibly be inflammatory.

Intussusception in an Infant.-Dr. Easbr said on Fehruary 1\%idl he was asked to see 11. W. F., aged 7 .months, a male. On his arriral he found he was suffering from well-marked symptoms of intussusception, the first appearance of which had been noticed on the 14 th. Ou rectal examination a sausage-like tumour, four inches in length, was found high up. The child was placed undor chloroform, and with a seamless Higginson's enema syringe he commenced to inflate. In ahont two minutes there was a rush of air past the nozzle, the distension of the abdomen subsided, and on introducing the finger the sausage-liko tumour had gone. Miuim doses of tr. opii were ordered, and, for food, lime water and milk. On the 18 th a good motion was passed, and on the ?4th the child was well.

## SUEFFIELD MEDICO-CIIIRURGICAL SOCIETY.

 Thursdat, April I2th, I8Es.
## M. M. de Bartolome, M.D., Fresident, in the Chair.

Eartra-uterine Fuetation.-Dr. Mabtin showed the uterus and appendages from a patient. in the dessop IIospital. who liad died from rupture of the sac.. The woman, aged 33 , was married; hat three children, the last four years ago. Slie had suffered from endocervicitis and endometritis. The foetation was tubal. in the right side, the fotus being about three months' growth; a large
rent was seen in the poaterior part of the fotalsac. Dr. Martin remarked on the difliculties atternling a diugnosis in this case.

Diabetes Treaterl by Codeia.-Dr. STokes related a case occurring in a mat, aged 65, exemplifying the value of this drug.

Fracture of Olecranon by Indireet Violence.-Dr. Srames (Chestorfield) related this case. The putient, a man, had, whilst working in the pit, put out his land to stop a coal tab, and he immediately felt something give way. lle was admitted into the Chesterfield IIospital on the thirl day after the accident. The olecranon process was then found detaded, and could be readily moved from side to side. The fragment was not much displaced upwards. Thero was great swelling of the joint. The result was good.

Cancer of Breast.-Mr. II. Jacksos read a paper entitled Carcinoma of the Breast ; its I'reatment.

Urinary Calculi.- Mr. Jatfiri showed a calculus, weighing nearly five ounces, which he had remored by lateral lithotomy from a patient a few days previously: The man had done well. - Mr. Balnwss showed a calculus, weighing fifteen grains, which he had remored from the urethra.-Dr. Morton exhibited a calcuJus, weighing ten grains, which he had extracted from the urethra of a girl. aged 6 .
Specimens.-Dr. Stokes showed an Aneurysm of the first part of Arch of Aorta. - Dr. Sysyss exlibilited the Tibia and Piluula from a limb which he hail amput tated. They were both thickened, and were handed over for carefnl examination.

## REVIETVS AND NOTICES:

Memical Lectures and Essays. By Geonge Johnson, M.D., F.R.C.P., F.R.S., Emeritus I'rofessor of Clinical Medicine, and Consulting Physician to King's College Ilospital, etc. London : J. and A. Churchill. 1887.

Thane is certainly no lack of books in every department of medicine and surgery, written by young men who write to live: admirable as many ni these books are, learned, elaborate, and complete as are some of the best of them, the disappearance of the majority would not perhaps be a serious loss, for their places would jiresently be supplied by the next generation of industrious and ambitions young men. On the other hand, it is a fair matter of complaint against too large a proportion of the senior and leading members of the profession, against physicians of such standing especially, that they do not sufficiently often, or sufficiently fully, give ta the world the result of their ripe experience. The portly volume, therefore, which coutains the latest and most matured opinions of a past-master like Dr. George Jounson, on such subjects as the various forms of Bright's disease, the relation of inembranous eromp to diphtheria, the proximate cause of epileptiform convulsions, the nervous disorders that result from overwork and anxiety, and on thoracic and ablominal aneurysm, to mention only a fert of its leading topics, is sure of a respectful weleome.

Nost readers will be disposed to turn first to Chapter xwr, which is in fact a new edition revised, and in part re-written of the author's Lectures on Fright's Jisease; it is a long chapter, nerhaps the longest in medical literature, but interesting and instructive from the first to thie hundred-and-sixtieth "page. Dr. Johnson summarises his views in five "propositions," which in aum amount to this, that cleronic liright's disease is a constitutional malady, characterised by a morbid state of the blood. which leads first to changes in the secreting cells of the kidncy, and sccondly to alterations in the blood-ressels of the kidney's and ather organs. It will be at once seen that the objections to this theory which will have to be met are, the alleged existence of primary interstitial nephritis, and the alleged occurrence of primary arterio-capillary tibrosis. Dr. Johnson naturally and properly lays stress on the indisputable connection betireen acute nepliritis and certain acute general diseases, of which scarlet fover is the most typical example ; in these there is at least very strong presumptive evidence that the counecting link is the morbid state of the blood, the kilney cells being damaged by the poisonous bodies whieli they endeavour to excrete. The rescarches of klebs and klein must not be averlooked in this connection, hecanse they tend to prove that the stress of the disease falls oqually upon the glomeruli and arterioles, and upon the exereting
epithelium, if inleed the latter do not suffer less than the former. Dr. Johnson finds in the granular kidney intrinsic evidence in support of his position: "it is callonl," he says, "and correctly called, the small red granular kidney," for it retains, even in the most advanced stage, some of its vascularity, and consequently of its red colour, and he argues that if the clange were primarily intertubular the result would be eurly anæmia and consequent pallor. Microscopically he finds the intra-
tubular changes far advancel while raseular changes are tubular changes far advanced while rasenlar changes are
still ahsent or little marked, and lie urges that if there were mueh insterstitial growth of commective tissue, the intertubular capillaries would be compressed and the Malpighian capillaries in consequence engorged, a condition which would lead to early and copious albuminuria and hemorriage, whereas, as is well known, albumen is less enpious than in any other form of Bright's disease. In the adranced stage the granular kidney undoubtedly contains an amount of connective tissue, that is to say, non-secreting tissue, out of all proportion to the quantity in the healthy kidney : this excess is partly due to acthal overgrowth of connective tissue due to perverted nutrition, but the justice of Dr. Johnson's riews as to the origin of the greater part will probably be generally recognised. "When a granular kidney," he writes, " has been reduced to the half or one-third of its normal size and weight, there can be no question that this is mainly due to the destruction and disappearance of the gland cells, and that in what remains of the wasted organs, there must be an enormous relative excess of fibroid tissue composed of fibrillated basement-membrane, thickened Malpighian capsules, and bloodless capillarics." This view is adopted in the well-known Lectures on Pathological Anatomy, by Drs. Wilks and Moxon, and it is not easy to see how its force can be diminished by any arguments founded on microscopical appearances, since the question in dispute is not whether there is an excess of fibroid tissue, but how large a proportion of admitted excess is derived from fibrous basement-membranes which hare persisted after the secreting cells are destroyed. It would seem that pathologists have been rather led away by the supposed analogy between granular kidney and cirrlosis of the liver, whereas the essential difference between the functions of
the organs ouglt morbid anatomy of the one by direct reference to the explain the Upon this view of the pay direct the thickening of ther.
rioles remains to be accounted for. In the renal arterioles this thickening occurs in the intima, the connective tissue which exists between the endothelinm and the elastic lamina becoming very greatly increased in bulk. There are $a^{2}$ least three theories to account for this orergrowth. One which Dr. Johnson sets in the forefront to demolish would attribute it to endarteritis; and although it is, we take it, almost certain that an inflammatory process is the initial lesion in the kidney, cr at least accompanies that lesion, we are not aware that it has ever been given an appli cation universal either in extent or time. Another theory is that of highly-spec is mainly degenerative, involving a replacemen which we are familiar in a variety of chronic maladies. The third theory-that advocated by Dr. Johnson-is that the thickening i "a physiological overgrawth having a conservative purpose and tendency", which, by strengthening the arterioles in their longitudinal direction, enables them the better to resist the strain and the resulting tendency to elongation to which they are subjecter by the impulse from the greatly-hypertrophied ventricle. Thi appear ably defended by arguments drawn from the morbi appearances as well as by general pathological considerations. ] trophy of the muscular coat, and bears a constant relati hyper that the structural character of the thickening is remarkably uni form ; that every artery in the kidney is affected to a miform de gree; and that the thickening is strictly limited to the intime Some very striking drawings, from preparations mado by Dr Heneage Gibbes, are given to illustrate these points; but it may br doubted whether the statements can be received in this absolut form without certain limitations. As has been already said, Dr Johnson looke to a modified condition of hood assoclated witl gout, dyspepsia, or some other derangement of the general heald as the immediate cause of initial renal changes. The morbid con cells, which in time decay and are disintegrated, the basemen membrane of the tubules subsequently thickening and contrac ing. The secreting tissue of the gland being thus very great diminished, it requires less biood, and the renal arterioles, "unde

We influence of the risomotor nerres, now regulate the blood supply in accordance with the diminished requirements of the 7land. This regulating aetion continues and increases month ifter month, year after year, and the physiological result of this persistent overaetion of the minute renal arteries is that their walls becone hypertrophied."
The theory is consistent, its parts cohere naturally, and it is Irguerl with great ability and fertility of resource; it supplies a easonable logical substitute for the somemhat rague statements bout a degenerative tendency to fihrons overgrowth - $a$ part of a jeneral decay-which are farourite generalities with some ariters, and has this great advantage that it has a very obrious
:linical moral; if clironic granular kidney is to be traced to linical moral; if clironic granular kidney is to be traced to
ihronic toxemia due to gout, dyspepsia, or suppression of utaneous secretions, then we have a rational basis on which to ound a method of treatment whiels may be efficient to check the progress of the disease.
There is a very valuable chapter on the various modes of testing or albumen in the urine. 'Dr. Johnson considers that pieric acid s a more delieate test for minute traces of albumen than either leat or nitric acid, or than both these tests eombined. In order to ustify this elaim, the pieric acid mnst be used with certain pre;autions; if very alkaline, the urine ought to be acidulated with cetie or citric aeid, although the picric acid solution is itself ufftieiently alkaline to dissolve the phosphatic deposit which reults from boiling a slightly alkaline urine; a long test tube is 1sed, and into it is poured a column of urine about four inches iigh, then holding the tuhe in a slanting position, the pieric acid lolution is gently poured on to form a column abont one inch ligh, which, owing to its low speeific gravity (1007), will float on he surface of the urine; where the two liquids meet, a rather ree intermixture oceurs, and, if albumen is present, it is precipiated in this area, and a cloudy ring is produced; if the althumen 8 in very small quantity, the applieation of heat to this turhid ayer will increase the turbidity. If the specimen of urine which las to be examined is turbid, it must be cleared by filtration beore applying the test. Picric acid, like nitric acid, will produce in immediate turbidity, due to precipitation of urates in urine sontaining an abundance of these salts, but this turbidity disappears with heat. It is. however, desirable in every case to let the arine cool before making an examination: the excess of urates separates in the cold, and may be filtered off; the liability to this source of fallacy is thus greatly diminished. A more real objecion is, that in a few urines picric acid will cause a precipitate of urie aeid erystals, and thus produce an opacity which is not removed by heat, and can only be reeognised on microscopical examination. Peptones, also, it ought to be remembered, give a precipitate, but this is dissolyed by boiling; by making nse of this fact, Dr. Johnson has found it easy to detect and separate peptones in albuminous urine. Onadding the saturated solution of pierie acid in the eold to such urine both these proteids are precipitated, but the peptones are dissolved up on heating, and, if the liquid is ,filtered hot, will pass through the filter in solution, and separate out in the filtrate on cooling. A caution must be added against the use of acetic or eitric acid to acidify the urine, unless that fluid be very alkaline; in any case, if one of these acids be added, it is safest to filter, in order to get rid of the mucin.
Some excellent obserrations are made on the proper mode of searching for albuminuria. Most readers are now alive to the fallacies involved in examining the morning urine only, but a new heresy appears to be springing up; so mueh has been written of the necessity, in diabetes, and in the so-called renal iuadequaer, of obtaining a speeimen from the whole bulk of the day's urine, that a disposition is shown to extend the recommendation to cases of suspected allominuria also. Of course, if it is desired to obtain a quantitatire estimation, this is right; but in the cases now referred to it is the existence of albunien which has to be established. For instance, in the slight albuminuria which so oftern persists for some weeks or montlis after scarlatinal nephritis, the abnormal constituent may only be present after food and exereise, and when looking for allumen in such a ease the obrious and reasonable course is to cxamine the urine passed after food and exerisis. If a traee is present, then it has, as is generally believed -and we are glad to see that Dr. Johnson fully endorses the opinion-a serious climical signifieance: by diluting this spesimen of urine, which contains the clue to the whiole position, with all
the urime of the twenty-four hours, we are digging a pit into which to fall.

Another valuable monograph contained in this volume is that on the pathology and treatment of epidemic chiolera; it extend 3 to 112 pages, and is a powerful exposition of the principles upon which the eracuant treatment of cholera has been founded. A careful perusal leaves upon the mind a very strong impression of the validity of the arguments advanced; that during an attack of elolera there is a morbid material actually in the blood haz been rendered more than crer probable by recent researches, and that this material is in some way intimately associated with morbiel changes occurring in the intestines can hardly be disputed. The tone in whieh the subject is diseussed is unneeessarily polemical ; it is probably because cholera is so terrible a disease to witness that every differenee of opinion as to its nature or treatment leads to an embittered controversy. Hen are terribly in earnest about it, and it is not easy to be tolerant.
The evaeuant treatment of cholera consists in the administration of some laxative-calomel, according to the older Indian writers, castor oil, aeeording to Dr. Johnson-in frequent doses, with the objeet of emptying the intestines of the morhid material, solid as well as liquid, whieh they contain.' The theory as generally understood is that the alarming symptoms of the algid stage are due to the presence of a peciliar poison in the blood. The modern theory, whieh has been especially faroured by Koch and his fellow-workers, is that, whether kept up by the intestinal derancement; that, in fact, the intes tines are the laboratory in which the poison, ptomaine or whatever it may be, is manufactured. Dr. Johnson fights against this theory, if we understand him aright, with unneeessary rehemence. A fairly extensive acquaintance with the literature of cholera fails to afford an instance of a writer who has giren-so phileJohnson is explanation of the symptoms of the algid stage. Dr. collapse. is right in insisting that it is not a mere ferm of ordinary
cood reason to believe that it is a toxmm and Dr. Johnson makes out a strong case for the theory $y$ toxmia, cholera poison is a lung (asplyxiating) poison. But a distinction must be drawn between the cholera poison- which may, for the sake of argument, be assumed to he a ptomaine and the cholera virus: the latter is capable, the former incapable, of self-multiplication. Although the view is nowhere specifically stated, Dr. Jolinson appears to hold that the symptoms of cholera are produced by a single dose of the cholera poison, and that eholera is therefore directly analogous to poisoning by-to quote instanees mentioned by him in illustration of his arguments-musearin or tinned meats. The current theory is that the virus of cholera, at a certain period of its evolution, finding its way into the intestines while they are in a favourable state, therein multiplies, giring rise to a poisonous body or bodies, which produce systemic poisoning evidenced by the algid state, and also cause the peculiar flux. The evauant treatment would appear to be indicated upon
either theory; on Dr. Johnsons, to remove the ptomaine from the hlood theory; on Dr. Johnson s, system, and on the orne from the move not only the ptomaine from the blood, but also the rirus from the intestine. L'nfortunately there is a serious conflict of evidence when we come to inquire how the erachant system Trorks in praetice. Dr. Johnson writes very strongly in its favour, and quotes many striking cases; but current indian opinion is certainly opposed to it. Mr. Macnamara, speaking in the debate at the Royal Medical and Chirurgical Society in 1885. said that he liad gone out to India a thorougl belierer in the eracuant treatment, but liad soon been led to nbandon it. In this state of donbt this question must be, for the present, left; but we would strongly reeommend all medical praetitioners, eivil or military, who may be called upon to treat eholera, to study this monograpla; it contains a great deal of information and the results of mueh thought. and its perusal will have the ifurther important effect of stimnlating thought.
Thoughso muelh space has been deroted to these two important essays, it must not be supposed that the volume does not contain many ather shorter essays of great value. For instance, in a lecture on hysteria which forms the eleventh chapter of the volnme. there are some interesting observations on globus and on laryngeal spasm, a subjeet whicls is further elaborated in a elinical lecture founded on a remarkable case of lysterical spasm, and in.a paper on the laryngeal symptoms resulting from pressure on the ragus and recurrent. From the fact that the inhalation of chloroform inimediately arrested the stridor of hysterical spasm, Dr. Johnson was led to give chloral internally, and with great success. He states that the drug is also of sreat value in laryngismins
stridulus, and suggests that it will prombly be found useful as a palliative in spasme excited by pressure on the pheumogastric. The production of bilateral spasin or palas ly pressure of an aneurysm or other tumour on the trunk of the vagus on one side is discussed nt lengeth, and the development of the conviction that it was due to morlid changes induced in the vagus centres by irritation of the afferent tibres is traced. This view has been accepted by Sir Morell Mackenzie in his work on Diseases of the Laryns, and its correctuess is now, we believe, generally admitted. There is also a whole series of essuys on other subjects, more or less nearly connected with laryngology. Special mention ruay be made of those on cromp, and diphtheria, and of an interesting anecdotical chapter ou fureign bodies in the throat and air passages.
There is another series of lectures and essays on disenses of the heart and aneurysms of the aorta containing many valunble clinical observations, and numerous illustrative cases. There are nlso a number of lectures and essays on detached subjects, among which a particularly valuable paper on latent jeritonitis, and a paper containing a series of cases of poisoning by the homeopathic tincture of camphor may be specially mentioned on account of their direct clinical bearing.
The volume is $a$ remarkable monument to the industry, the extensive experience, and the wide range of reading of its anthor. If it stood alone it would represent a life's work of which any man might well be proud, but we are glad to remember that Dr. Johason is still with us in the full vigour of his faculties, and still hard at work, as is evidenced by the suggestive essay on "Albuminuria a frequent Result of Sewage Poisoning." published in these pages since the rolume now reviewed was issued from the press.
Medical Mistory of the Meath Hospital and Co. Dublin Infirmary. By Laybert liepenstal Ormsby, a.b., M.d. Univ.Dub., F.R.C.S., Member of the King and Queen's College of Physicians, Ireland, Surgeon to the Meath Hospital, etc. Dublin: Fannin and Co. London: Baillière, Tindnll, and Cox.
There is scarcely one of the medical and surgical institutions connected with the Dublin School that has actured so great, anel we will add so deserved, a reputation as the Meath Jlospital and Co. Dublin Infirmary. This it has gained from its having heen the arena for the labours of so many worthies who have shed lustre on the Dublin School, among whom may be mentioned among others, Crampton, l'orter, Rynd, Smyly, Macnamara, Graves, and Stokes. It is gratifying to note that the same zeal and energy that characterised the stafi in the past are still apparent in its present members. Among these Mr. Ormsby has been conspicuons for his untiring energy, und no small amount of the high state of efliciency that at present characterises the Meath llospital is unquestionably due to his steady determination to make it, especially ns regarids the nursing and general management, second to no other similar institution in the Ưnited Kingdom.
We congratulate Mr. Ormshy on the satisfactory completion of the medical history of the Meath Mospital, and sincerely hope that the good example he has shown may be promptly followed by the medical officers of nur other hospitals.
The motto that has been aflixed to the oflicinl seal of the hospitnl, "Que regio in terris nostri nou phena laboris?" we think very, nppropriate, and fetl conlident that the many pupils of the "old Menth" now practising in the British islands, in the East and fnr West, will glady welcome and lecome possessed of Mr. Ormsby's most interesting book, in which their names appear, as it will give them ample opportunity of reviving many pleasant reminiscences of their student days.
As regards the printing, paper, und illustrations, with which latter thie volume alounds, we have little to say save in the way of praise.

A Jenior Coulse of Practical Zoulogy. Dy Professor Mhais Marsuall, M.D, F.R.S., etc., and Mr. C. II. Herst, London: Smith, Eider and Co. 1887.
Tris useful manual for dissection met with so much approval on its appenrance last year, that we are glacl to hear that a second edition will shortly be issued. The book leals with all those animal-types required for the I'reliminary Science Examination (31.B.) of the London L'niversity, together with some other cqually important types, amongst these being Amphiomus. This is the
first concise and accurate description, in Vnglish, of this interesting vertebrate, and is accompanied by five excellent woodicuts. A description of the life-history of the liver fluke also makes its appearance for the first time in a students' manual.

The arrangement of the types follows that which is found in the first edition of Iluxley and Martin's Practical Biology, comnencing with Amoba, und advancing through the more complex forms to the mammal. The bird-type, however, is dealt with after the rabbit-a course which is, in many respects, convenieat, although not strictly scientific. in fact, it appears to us a great pity that the Loudon University does not require the Amphioxus, in place of the much less important bird.
The instructions for dissection are preceded in eaclı cass by a short life-history of the animal under discussion; the varions organs are trented systematically, instead of topographically; and the woodcuts have the great advantage that they do not take the place of sketches which slould be made by the student, but are in most cases longitudinal or transverse sections, more or less diagrammatieally represented, and are of considerable nid in teacling. The book is clearly printed on good paper, the names of organs being in thick type; the woodcuts are most carefully executed; and at the end is a useful list of reagents, together with the methods of preparing them. The manual will be found most handy alike by teachers of zoology and by students.

The Comparative Anatomy of Domesticated Aninals. Part I.-Osteolugy. By J. Mcfadyean, M.B., etc. Edinburgh: W. and A. K. Johnston.
The book is written, nominally, for students preparing for the veterinary examinations, and deals with the skeletons of the horse, cow, sheep, pig, dog, cat, and fowl.
The skeleton of the first animal is described in great detail, the description being in large type, the names of bones and their parts being in thick type: the description of the skeletons of the other animals is in small type, and is, of course, less detailed. A large number of woodeuts accompuny the letterpress, and these would in some cases (for example, Fig. 57) have been rendered considerably more useful and distinet if less shading had bren introduced. Moreover, it :Hpears to us adrisalle to give references to the figures in the letterpress, although the woodents are themselves sufficiently explained.
Preceling the more special part is a short chapter on the histology of bone, and the mode of development of "cartilage hone" and "membrane bone," the walue of which would have been enhanced by the introduction of woodeuts representing the process. The mode of development follows the description of each hone. It is a pity thit the old plan lias been retained of employing the terms "anterior and posteriot fist, are known as dorsal and
which, to the comparative anatome rentral; also "superior" and "inferior" for the posterior and auterior surfaces. Again, "inferior maxilla" is retained for the mandible, "squamous temporal" for squamosal, and 80 on, although, in nost cases, the zoological terms are mentioned in the text.
In speaking of the fowl, the statement as to the number of vertnbree is different from what is given in other textbooks; for example, the cervical region of the domestic fowl is said to consist of twelve vertebra, whereas in reality there are fourteen, without counting the two hindermost, which carry freely articulating ribs.

The hook, on the whole, will be found very useful to veterinary and medical students, as well as to zoologists.

## NOTES ON BOOKS.

Guide to the Administration of Anasthetics. By Mismy Davis, M.R.C.S. (London: II. K. Lewis. I887.)-The literature descriptive of nmesthesia has received no additions of any importance for many years past, that is to say, no volume has been published in England of any note. Fugitive papers there have been, dealing with matters germane to the sulject, and some of considerable importance, hut no attempt has been made to gather, these fragments into one compact whole. Mr. Daris has not nitempted to trat his subject from a scientifie point of view,
aiming at piving in "a concise form, the chief details which are requisite for the safe administration of the various anasthetic
gents throughout the civiliged world." The aecount given of lese varions agents, although very seanty, is fairly accurate, but aome instances is not up to the linowledge of the time. In reaking of chloroform, the writer does not enforce its dangers ith sufficient emphasis, while, in dealing with the A.C.E. mixture, $r$. Davis is much too bricf. Ite dismisses the subject in three ees, neglecting to mention how to administer it, its undoubted Ivantages in many cases, and its dangers and peculiarities. The me brevity characterises his treatment of all the Jess ustal resthetice. Mr. Davis's style is easy, if not polished, but he is not ways accurate. On page 16 the figure given is not, as it is ated, that of a Junker's inhaler, but a modificution due to Dr. adley Buxton, and described in the Lancet some years ago. -msby's inhaler is further described as having been invented to ereome inconvenienens, if such there be, of Clovers instruments, statement not borne out hy history, as Clover's apparatus was ronologically the second. Mr. Davis's book will doubtless prove eful to many, and he has certainly done his best, and taken great ins to compress into a rery small space a good deal of uscfu? formation.

## REPORTS AND ANALYSES avi

## ESCRIPTIONS OF NEW INVENTIONS,

IN MFDICINF, SURGERY, DIETETICS, AND TUE ALLIED SCIENCES,

## THE IRANELACH PORTADLE GYMN゙ASULN.

E have reccived from Messrs. Walkley and Co., 5 , Strand, W.C., e of the Ranelagh Pocket Gymnasiums (F. Milne's patent), of nich they are the agents. It is claimed for this simple machine at it produces a high form of healthy bodily development, with rect safety, and that it establishes and maintains a vigorous ne in the whole museular system; the series of india-rubber :ands (which govern the strengtli) heing so constructed as to event any jerk in the motion: and that, therefore, it is superior either Indian clubs, dumb hells, or other heavy weights, and is ually suited to the most delicate child and the strongest man. consists of a series of six india-rubber strands, with handles tacled by means of cords working on a system of pulleys. It fixed to a hook in the wall. and can be pulled out to any desired tent by the user making a forward movement. We have testcl and have formed the opinion that it is undoubtedly a useful rention, and may be recommended also on accomnt of its great rtability and moderate eost. It occupies, when paeked, about If a foot square. It is made in various degrees of strength: 2. 1, suitable for ladies or children, can be procured for half-a inea; No. 2. for gentlemen, at lis, fid.; while they can supply le of extra strength at 1 ss .6 d . This is by far the most portable mnasium we have seen.

ALLGN'S IOT-WITER AND ICE BOTTLES
e have received from Messrs. I. Allen anl Son, 21 and 23 , arylebone Lane, specimens of their improred hot-water and iee ottles in white polisheel metsl, which are vastly superior to anyling of the kind we remember hefore to have seen loth in shape. mstruction, and general adaptibility. Being made in two pieces istiad of four, and put together in a form which renders the ams stronger and more durable, there is far less danger of akage than with many of the old forms of hottle. Another

aticeable feature is the comparative lightness of the improved ottle, being neither so heary or cumbersome, and possessing a aore shapely appearance, with fewer angles than met with in any of the hottles in use. All the stomach warmers have
romded edges, rendering injury to the patient impossible, and being convex on the upper and concave on the under surfaces. they well fit that part of the body for which they are intended (see Figs. 1 and 2).
The ice bottles for the chest, atomach (see Figs. 3 and 4) head, and knee (see Figs. 5, 6, 7) are equally well adapted for their
 several nses, and are fitted with large filling screws for facilitating the filling with broken iee, but this of course does not prereat their being utilised when reguired as hot-water bottles. They are moderate in price, and can be procured in tin at 3 s . and 5 s ., or in copper at 6 s , or 7 s . each.

ROYAL COLLEGE OF PHYSICLANS AN ordinary meeting of the College was held on Thursday. April 2 gth ; Sir Aninetr Chark, Bart., the new I'resident, in the chair. On the motion of Sir Alfred Garrod, seconded by Dr. Quais. a rote of thanks to the retirng l'resident, Sir Wiliam Jemer, Bart., K.C.E., was umnimonsly adopted by the College.
The following gentlemen were admitted Hembers of the College: John Duff, J.D.Glas. ; Hewry John Tylden, M.B.Oxon.: Henry Waldo, M.D.Aberl.: Joseph Wiglesrorth, M.D.Eond. ; and Arthur Thomas Wilkinson, M.D.Lond.
Licences to practise were granted to seventy-four gentlemen, who had passed the required examinations.
The examiners for the Murchison Scholarship reported that six candidates lad been examined, and that all had done well
The scholarship was awarded to Mr, Menry John Tylden, M.B. Oxon, of St. Bartholomew's Hospital. The examiners added that Mr. Starling and Dr. Fenwick were also deserving of honourable mention.
The ammal election of Fillows was then proceedel with. The names of those on the list nominated hy the Council having been sulmitted one hy one to the judgment of the College, they were all relected, namely: Thomaz Cole, M.D. Tontl: Fioorge Binulell Kongstufi, M. H.Oxon, : Nicharl Caton, M.D.E.lin.: Frederick G. D. Drewitt, II.D.Oxon-: Walter langh Hadden. M. D. Lond.: Howard lleury Tooth, It.B.Camb: Charles Edward Beevor, II.D.Lond. : lames $\mathbf{F}$. L'arry Mcconnell, MLD. Uherl.: Willian Hale White, M.D.Lond.

Communientions were received from the Board of Trade and from the Colonial Othice.

A letter was received from Dr. Curnow resigning his appointment as Examiner in Anatomy:

The quarterly report of the Finance Committee and a report from the Committee of Management were received and adopted.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscaiptions to the Association for 1888 becamo due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Associstion not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Offle, High Holborn.

## The Gritisly fledical journat.

## SATURDAY, APRIL 28тн, 1888. <br> THE ARMY MEDICAL RESERVE OF OFFICERS.

When the Warrant seeking to create a reserve from medical officers of the auxiliary forcos was issued about two months ago, we offered a few friendly criticisms on its provisions, although we confess to having had grave misgivings about it as a whole. Further consideration, in the light of many hostile criticisms which have reached us, now strengthens the opinion that the schemo is not likely to come to much, for the simple reason that it has, in truth, no substantial element of success in it.

We fail to find in the April Army List even a beginning of the Auxiliary Reserve List; but we hear some have actually joined, as against several volunteer surgeons who hastily sent in their names, but withdrew them equally quickly. We are not surprised; rightly read the scheme is wholly in favour of the War Office, at the expense of those who are expected to embrace it. Its authors must have ourious notions as to who the groat bulk of the auxiliary modical officers are, and how they get a living. Is it imagined they are idle medical gentlemen, anxions to serve for practically nothing, provided they ean air their names prominently in the Army List? They are, indeed, mostly hard-working civilians, with large private interests wholly dependent on their individual exertons, What are they asked to do? They are invited to place-withont retaining fee or any adequate prospective peouniary advantage-their personal independence, their praotice, patients, and private interests ontirely on one side, and, with unheard-of disinterestedness, give their individual professional services at the cleapest rate whenever the War Office finds it convenient-or nocessary, in a medical sense-to doclare "national emergency."
This is asking tno much! We doubt not our medical voluntecrs are quite prepared to make great personal sacrifices alongside of the volunteers of all ranks when real national dangor unfurtunately comes abont; but it is entirely another matter to ask then to risk private professional ruin when the emergency may be not national at all, but only medical and artificially brought ahont by reekless docking of the regular medical rote.
Many things indicate that Finance is at the bottom of this roserve selacme. It was, for instance, lately maively remarken?
by one of the "Service" papers that the scheme would, at all events, bo agreoable to tho "taxpayers"! From this it appears that, although medical men of course pay taxes like other citizens, they are further coolly expected to tax themselves doubly by rendering military services at a personal loss in order to please the general taxpayer! Medical men, indeed, have too often to sacrifice themselves in civil life; but why should "doctors" alone be asked [to offer themselves meekly on the altar of public economy? Lawyors, engineers, traders, and workmen are not asked to do so.
We before pointed out that the schemo was crude and unstatormanlike, because it tried to stop a gap while actually creating another and a bigger one. The auxiliary forces will be in want of their own medical officers when real national emergency arises ; they could not spare them to do duty with regular troops* This reflection forces the conclusion that tho authors of the scheme could hardly have had a national, but only a factitious, "medical emergency" in view. The idea was less to support than, if difficulties arose with the medical profession, to altogether supplant the regular medical service. It was no doubt foreseen that, if the regula medical service be recklessly cut down at the bidding of one-eyed economists, our first amall war will inevitably bring about a medical emergency, and full terms, under pressirre, would then have to be made with civiiian praetitioners ; so, it was meanwhile desired, under the conditions of a reserpe, to securo the obligatory services of certain medical men on cheap terms which will prove wholly minous to those with even the smallest privata practices. Very few men will risk such conditions. Yolunteer medical officers, moreover, will not allow themselves to bo played off so palpably against their regular brethren to meroly held political financiers to starve the medical vote.
If no trace of the ausilinry reserve is to be found in the April Army List, wo do find in it a change for the better in the rooog= nition of the regular medical reserve. The list of retired officors in reserve used to be headed "retired modical officors eligible for temporary employment;" it is now worderd "rotirod medical officers liable to be recalled to service." 'This is a distinct improvement, exhibiting those officors in the true light of a genuine reserve, and more in accordance with the wording of the Warrant under which they have liability; but we think the words should have been added "under Article 23 of the Royal Warrant, December 2nd, 1870."
Tho article runs thus: "23. Any officer of Class $A$ who shall roluntarily retire before the age of 55 years shall be liable to be called upon to serve, in a case of national emergency, in a rank not lower than that from which he shall retire until he shall complete the age of 55.
The Secretary of State's instructions on the article aro: " 3 . The name of a modical officer who retired voluntarily bafore the age of 55 , and, uniler Article 23, is liable until then to be called upon to servo in any case of national emergency, will be rotained in italics, in the Army List with those of effective officers."
Wo find the numbor of retirod officers liablo to be recalled, in the Arril Army Li:" (whose names, howover, are not in italies)
tated at 133, of whom twenty-threc are now actually tempoily employod. Now, this is a very valnable and true regerve; aro fully experienced and highly trained; not a few of them well known as among the ablest men in the Department. 3 numbers will constantly vary no doubt, from death, illlth, and attainment of 50, but others will yearly be added. ien an agitation was lately attempted against the early rement of medical officers, not a word was said about the exnee of this most valuable and reliablo resorve; it was carey concealed from the public that the oarly retirements alone bled this great reserve to be formed. The change in the ny List indicates that the anthorities now mean that the serve List shall be elearly shown. Let them cultivate it; it stop a gap in a bońa fide manner during emergency, and not the anxiliary forces of their proper medical officers.
'here are one or two points comected with this regular medireserve we should like to see cleared up. Are retired medical sers liable to be recalled for service outside the United Kinga? We see nothing in the articles quoted to show they are , although it is universally uuderstood they are only liable service at home.
hen, why are some retired medical officers, apparently equally ible and liuble with the others, not put in the Reserve List, shunted altogether away on the "Non-effective List"? This no doubt be satisfactorily explained, but we cannot think of reasoon in certain individual cases.

## - THE LAW OF ANTAGONISM.

Briday discourse delivered at the Royal Institution on il 20th on War in Nature has a speeial interest for us, bese Sir William Grove, who before he oarned distinetion as a I yer and a judge had gained lasting fame'ns' a physicist, apached the subject from the physioal side. The lecturer, sose most valuable contribution to scionee in the past was his besition of the theory of the conservation of energy, set him: last week to show that the universality of antagonism had ; received the attention it desorved, the element of foree havbeen mainly taken into account, and too littlo stross having in laid on the element of resistance. Some aspects of the pblem involved in the doctrine of antagonism have been apjciated by medicine from the earliest times, and to the bioloit the idea has been familiar hong before the phrases "struggle If existence" and "survival of the fittest " came into vogne.
Ne may observe at least three forms of antagonism between, in and the rest of the living world: the antagonism with other lividuals of the same species-the wars of earlier, the koen ellectual competitions of later ages-the antagonism with rer species of the higher mammals, which species man either |ks to exterminate or to bend under his yoke ; and lastly, the newhat one-sided antagonism in which a vastly inferior xies attacks a superior, where the superior ean gain nothing fond a mere perpetuation of individual life, while the inferior, bacterium or helminthic parasito-not only sustains its life, t perpetuatos its species at tho expense of the higher."

There is no medical saw more hackneyed than that which speaks of the ris medicatrix naturx; it expresses a well-grounded confidence in the result of the conflict between the forces of the body and the external forees which have put it in peril. Socrates in the Republic (Book III), quotes from the Iliud that when Monelaus had been wounded by the spear of Pandarus, the sons of Asclepios "sucking the blood from the gash, laid mild simples upon it," knowing, says Socrates, "that the simples were, sufficient to cure men who before receiving the wounds were healthy." The physician, in fact, played the part of Lord Palmerston's "judicious bottle-holder," believing that if he could afford a fair field and no favour, the "war of: Nature" would end favourably to his client. This is, in fact, the attitude of the scientific physician in every age. Much of the advanced surgery of the day is basel on a. profound conviction of the greatness of the ris medicatriv naturx Take, for instance, the operation of abdominal section for purulent poritonitis. The cells of the peritoneum have been defeated in their conflict with the forces of disorganisation; by removing the accumulated morbid secretions the surgeon seeks to equalise the battle, and, by diminishing the number of their enemies, to give the cells a fresh chance of destroying 'those which remain. An eminent orariotomist has suggested that the plan of washing out the peritoneum with large quantities of tepid water waa successful becanse it broke up the dead tissue, which might become the seat of decomposition, into mieroscopic scraps, which the active peritoneal cells could destroy. The surgeon relies upon the porer of resistance of the peritoneum, and thus afords a: practieal illustration of the advantages which may be gained by, leaving the prineiple of antagonism to work itself out.

* Man, in common with all other living-and, Sir William Grove would ndd, inanimate-things, has to contend also with the forces of inanimate Nature, and it is in this conflict that the good rosults of antagonism, not altogether beyond reoognition in the other conflict, are most easily perceived. It might not have been easy to foresee that the con-: ditions of life on these islands'should have been so peculisrly. farourable to the development of the human race; yet they have produced the dominant race of the world, at an epoch when the struggle for supremacy is the keenest.
There is, in fact, a mean between the external conditions belonging to the class generally reckoned unfavourable and the internal powers of resistance, which gives as a resultant a state of health and energy of mind and body far better for the individual and for the race than that produced under conditions at first sight more favourable: A question of surpassing interest is, why under the mnst favourable circumstances this balance cannot be long maintained, and why the period for which it ean be maintained is approximately the same in each individual of the same species, though so widely different in different species? Why do we grow old? We mako shift to say when, and where, and how we grow old, but not even Professor Humphry can tell us why. The conditions which govern the duration of life in varions species have never been
made out; tho bulk of the animal may have somo influence, sinco a largo animal will, ceteris paribus, require a longer timo to sccuro the surplus of nutriment requirod for reproduction, and tho degree of structuml complication will also tend to fix a minimum time, hecanso it also will havo a share in determining the time at which reproductive power is attained. It is no explanation to say that Nature takes no thought of the individual, but merely provides for the perpetuation of the species; this is merely to express the facts in muthropomorphic torns. We are driven to adopt the colourless viow that thio duration of the lifo of the individual is determined by its innate powor of resistanco to external forces. Where the external conditions are extromoly unfavourable, the reproductive powers diminish, and so contributo to the disappearance of the species; whero extemal conditions are so favourable that the species not only continues, but increases, still the individuals succumb to the antagonistic forces; the only conclusion to be drawn is, as has been recontly pointed out by Weismann and wthers, that, in the words of a writer in Nature, "the occurrence of death at all is a provision to secure the greatest possible number of individuals of full strength..........Death makes room for new completo individuals."


## THE LOCAL GOVERNMENT BILL.

Alrhocge the Local Government Bill has been read a second time in the House of Commons without a division; it was not until many of its provisions had been severely' criticised, both from the Conservative and from the Liberal benches. Now serions opposition to the main features of the moasure has, lhowever, developed, and the Government have this been encouraged to use their best efforts to pass it into law during the present session.
The defects which have been discovered in the Bill will be more eurionsly discussed in C'nmmittee, and doubtless remedies for many of them will then be strenuously prossod upon the acceptance of the Government. By no means the least important of these flaws, not only from tho point of view of tho medical profession, but from that of the ratepayer who desires to secure wholesome surroundings and good sanitation throughout the country, is the proposal relating to tho appointment and tenour of office of medical officers of health. We have on soveral oceasions recently callecl attention to this matter, and on the 13 th instunt the question was ally discussed in the Houso of Comuons by sir Lyon Playfuir, when he advocated the vosting of the appointment of health officers in the new County duthorities, instead of in the District Councils as proposed ly the Bill. But unless Mr. E. Stanhope's criticisus are to be taken as indicating the views of Mr. Kitchie, no official statement has been mado as to the attitude of tho Government towards the question. Wo feel sure that Mr. Ritchic will give careful consideration to the weighty arguments in favour of Sir L. Playfair's contention.

Mr. Stanhope is of opinion that a medical officer of health appointod by a local board would in many cases have wore in-
fluence with that board than would any person imposed upon them from headguarters. But as the health-officer acts simply in an advisury capacity we do not regard this objection as s, sorions one. It is of the first importance that every District, Council should have properly-qualifiod and fearless advico. Whether that advico is actod upon or not, is a matter for thoa 'to decide and to settle with thoir constituents. Morcover, the, supreme County Council appointing the officer will themselves, have been directly elected by the ratepayers on the same, franchise as the District Councils; and it is further worth noting that, although the coercive powers of the Public Health, Act are to be transferred to the County Councils, Mr. Ritchie': Bill does not propose that the Councils shall have the porser ul the duty of providing themselvos with the advice of a skillec medical officer.
There are undoubtedly many very conscientious health-officem in our rural districts who have performed their duties with great efficiency for a merely nominal remuneration. But, on thi other hand, there are many who have no special qualification to advise on sanitary matters, and who act on the principly that their slender salary is to pay them for doing nothing. I cannot be denied that the best. work has been accomplished is those areas where the medical officer of health gives his whol time to tho duties, and is specially qualified to advise in pre ventive medicine. As long ago as 18.55 the General Board o Health, in their instructional minute relative to the dutio and qualifications of officers of health, expressed the opiniol that, "where possible, it will be well to debar the officer fron the private practice of his profession-first, hecauso the clain of such practice would be constantly adverse to those of hi public appointmont, the duties of which (especially at times c epidemic discase, when his official activity would bo mos needed) private practice conld scarcely fail to interrupt an embarrass; secondly, because the personal relations of privat practice might render it difficult for him to fulfil with impal tiality his frequent functions of complamant; and, thirdl! becanse with a view to the cordial goodwill and co-operation c his medical brethren, it is of paramount importance that th officer of health should not be their rival in practice, and tha his opportunities of admonitory intercourse with sick familic should not oven be liable to abuse for tho purposes of profes sional competition." The same opinion applics at the prosen day. In small districts, however, the whole time of a healt ofticer would be an unnecessary extravagance, unless severr districts are combinod for the joint employment of the sau officer. But experience has shown that voluntary combinatiol in such cases is not to be rolied upon, whilst compulsory con bination is obviously oljectionable.

Tho further argument advancod by Mr. Stanhope-that, if tl appointment of health-oflicers be vested in tho County Council those bodies will bo saddled at their formation with an eno mous expenditure-is untenable on close cxamination. Fow officers-probably not more than 200 -would be needed for th whole country, and the nnited cost of this staff of speciall?
officers would very slightly, if at all, exceed the united of the 1,300 officers at present holding appointments. The stion of componsating thoso officers who would be superwould very seldom arise, as the appointments are at sent mostly made for a year only.
is to be hoped that Mr. Ritchie will see his way to adopt suggestion that the officers of health should be appointed by County Councils instead of by the Distriet Councils. The alt would undoubtedly be a more efficiont sanitary service alministration throughout the country, and a cousequent inution of sickness, with its attendant inisery and loss.

## IIE LONDON UNIYERSITY AND METRO-

## POLITAN MEDICAL STUDENTS.

: opinion is entertained in some quarters that the Unirersity .ondon might still, by reforming its rogulations, and in some etions relaxing their rigidity, solve the problem of providing the expansion of the higher education in London, by consting itsolf a true University for the metropolis. Those who I this opinion have given evidence of their sincerity by prong a great variety of reforms, and we learn that the Comjee appointed by the Senate to report on the regulations for ces in modicine has drawn up a report coneeived in a very -al spirit.
?hat reception this report may meet with from the Senate it upossible to foresee, though that body is evidently moro to the dangers which threaten the University from all 8, and not from tho medical alone, than was the case a few ago. Meanwhile it may not be amiss to indicato some of reforms that aro most urgently needed. Regulations the pass and honours examinations at the Intormediate mination in Medicine, which eame into foreo last year, o been universally condemned, and, we apprehend, cannot bo continued; the old regulations, with, perhaps, some ht modifications, which would have the effect of allowing the candidates who had done well in the pass examinato proceed to the honours examination, would be far e satisfactory. The regulations for the preliminary scienexamination also stand in groat neod of amendment ; as resent framed they havo too little regard to the real (irements of the medical profession, and are too tender to susceptibilities of the professors. A strict limitation of I examination to subjects which afford an education really Miminary to the strictly professional subjects would be an lixed gain ; and if candidates wero to be permitted to take the subjocts seriatim, the rigidity whieh is now so much rplained of would bo diminished.
may be hoped, however, that the rnmour which credits o members of tho Senate with a disposition to increase the rity of the matriculation oxamination may turn out to be munded. That oxamination is already almost oneychopadic in es nt, and has probably done more than any one other circumce to deter students from becoming members of the Uni-
versity. It is no doubt time, as has often been urged, that a great many of the failures to pass on to attempt the examination are due to the firet that students of medicine are often not aware of the adrantages conferred by matrieulation until after they have entered at the medical schools, and are thus more or less committed to the curriculum of the Conjoint Board. But it is also true that the examination as a mere test, preliminary to entering on a univorsity edncation, is absurdly severe. It is so severe owing to the immense number of subjects which must be passed simultaneously: if the University is ever to become a popular institution, ever to do the work which it was created to clo, and might do, this examination will have to he revised. At present the edncational enthnsiasts on the Senate will hoht up their hands in pious horror at the proposal to allow the Matriculation Examination tu be passed in two parts, but every proposed reform has thrown them into the same attitude for a time. We firmly believe that a relaxation of the present hard and fast rules would add to tho honcaur and dignity, as well as to the popularity, of the Cniversity, and would have the most bencficial effect on the higher education. A letter from the officers of the medtcal school of the Middlesex Hospital, which is printed at page 928 , will show how hardly some of these regulations bear on men whom it would be to the adrantage of the Cniversity to enrol among its members, and the fact that this reasonablo request was not immediately acceded to will show how strong are the forces of ohstruction within the Senate.

The University, moroover, might well do more than this for the medical profession. It must be remembered that the medical Ficulty in this, as in other universities, has a closer relation with the life of a great profession than is the case with any other Faculty. The circumstances, moreorer, of the medical student are different from those of the student of any other Faculty, bocause the currieulum is stringently prescribed by the General Medical Council aeting in the interests of tho public. Fet it is in this Faculty alone that the Unirersity of London, with that eurious insbility to march with the times which characterisod its counsels until within the last year or two, has imposed a rigid curriculum. The time has now come when the decrrees in Medieine may safely bo given on tho same terms as those in Science or in Arts. 'The University' will give a dogree in these Faculties to any undergraduate who can pass the necessary examination. Thus the degrees of B.A. or of B.Sc. can be obtained in less than tro years from matriculation, and tho candidate may be ongaged-as, indeed, many are engaged during this period-in the exercise of a calling, as, for instance, that of a school teacher, by whiel he maintains himseli.

Wo can concoive no sound objection to applying this precedent to degrees in medicine. There is a eertain gratification in boing able to quote a precodent, because thereby the party of obstruction is hoist with its own petard. Though the Lni-. vorsity is only half a century old, somo of its Fellows speak as though all its regulations wero sacred and inviolable. The University owes its existence to the erass obstinacy of the older universities in farling to move with the times, yet now
that theso renorable bodies has begun to more, with, it may bo, unoxpectod spoed, thore are somo who desire to make the younger body staud still apparently as a protest.

Tho University of London might not only mako this concession, but it might do much more; it might arrango to grant its degrees after proper examination to registered medical practitioners of a certain standing; there uro many men who would gladly arail themselves of such an opportunity to gain a degree in medicine upon equitable terms, and we have reason to believe that a proposul of this nature will shortly be considered by the Senate. If the University discovers any serious desire to reform itself, it will undoubtedly be much strengthened When it goes beforo the Royal Commission which is about to be nominated. But if it is really to fill the place of a university for London it will have heartily to consent finally to lay aside the policy of inmobility, which has governed it too long.

Mr. Richard Middlemore has given $£ 1,000$ to the Birmingham ind Midland Eye LIospital for the endowment of a lectureship.

We understand that the differences at the Cancer llospital are likely to be brought before a court of law, Mr. Jennings being the plaintiff in an action against Dr. Nerbert Snow for alleged libel.

## ROYAL COMMISSION ON UNIVERSITY EDUCATION IN LONDON.

Lord Selborne, who as Sir Roundell Paimer was for many years standing counsel for the Royal College of Physicians, will, we understand, be chairman of this Commission. The Commission will consist of seven members, and will not, we believe, include any member of the medical profession.

## SIR HENRY ACLAND.

The members of the General Medical Council proposed to invite . Sir IIenry Acland to a banquet in testimony of their sense of his past services as Chairman. Considerations of health connected with his recent ophthalmic operation have, we regret to learn, compelled him to deeline the invitation.

STUDENTS OF GERMAN-SPEAKING UNIVERSITIES.
THE numher of medical students in the following universities in the winter session just elapsed is:-In Vienna, 2,287; Munich, 1,369; Berlin, 1,316; Würzburg, 956; Leipzig, 704; Prague, 566 ; Graz, 501; Griefswald, 411: Breslau, 382 ; Freiburg, 350; Halle, 293: Bonn, 291; Zürich, 265; Marburg, 256; lirlangen, 255; Strasburg, 258; Königsberg, 243; Innsbruck, 243 ; Tübingen, 242; Berne, 2.3; Gottingen, 222 ; Kiel, 2I4; Heidelberg, 2I2; Jena, 201; Rostock, 136 ; Giessen, $1: 4$; Basle, 122.

## BOLDIN, A NEW HYPNOTIC.

Boldin is the glucoside obtained from boldo leaves, and Dr. Junanville highly praises it in a recent number of the Progres Médical, as a hypnotic "far exceeding opium and chloral." This is saying a good deal for it. We are told also that boldin is not disagreeable to take, has no unpleasant effects, increases the appetite, and has a "strengthening" influence on the patient, Between 5 and 10 grammes were given daily to various patients. The sleep induced by this sulustance is of a natural kind, "and the
breathing is regular and tranquil. Boldo leares contain about 3 per cent. of boldin. It may be given in eapsules in doses of 0: grammes (three grains), repeated as necessary, or (diluted 1 in $: C$ in water) subcutaneously.

## THE GREAT INSURANCE FRAUDS,

For t'le credit of the "cloth" it ought to be known that "Dr.' Ifenri Castelnau, who is now on his trial for having conspires with Scheurer and others to defrand certain insurance oftices has no legal right to that learned prefix. He was educated fo the medical profession, and had a fairly distinguished career as: student, having even held the much-coveted post of interne; bu for some reason or other he never took his degree. Though a ma of considerable ability, his whole life seems to be a record o failure, or worse. As a jourmalist, he is said to have used hi opportunities of "candid friendship" to lery blackmail frol prominent members of the profession. Nélaton, who had th misfortune to have been a fellow-student of his, was a favourit object of these polite attentions. Whenever Castelnau's func were low, a gross personal attack on Nelaton was sure to appes in some journal, and the great surgeon was weak enough-mol from good nature, it is supposed, than from any fear of awkwal revelations-to stop bis scurrilous mouth with money.

## A LAW DISPENSARY.

The boast of the medical profession that it alone of all the learm professions gives its services absolutely free to the deserving po would appear to have excited the rivalry of some lanyers in dit York, for it is reported that a "Law Dispensary" has been esta, lished in that city " under the auspiees of reputable lawyers connection with the Rev. Mr. Goss's People's Mission." This is hint for the committee of lawyers in this country who call thel selves the Society for the Preservation of Personal Rights, or sol such name, and whose public appearances have reflected mic honour on their forensic erudition than their common sense. the Boston Medical and Surgical Journal, in which we rend piece of news, truly observes: "It is to be hoped, however, il in the dearth of opportunity to give away advice on 'real $p$ perty,' 'contracts,' 'wills,' and similar subjects, the philanthro law-dispensers will not devote themselves to giving instruct 1 as to actions of tort to such of their patrons as are also const. attendants at the multitudinous medical dispensaries. Too mil of suchadrice lias been given by lawyers in the past, and io better dispensed with than dispensed."

THE TITHING OF MINT AND CUMMIN IN INDI We have had to notice, not with approbation, the style and quency of the circulars issued from the office of the Surge General at Simia to medical oflicers under lis ordera, as wel their too often vexatious and trivial nature. We are glad tols that these Simla "circular showers" are more intermittent tn they were. This is something; but we must be allowed to whether the Surgeon-General cannot see his way to cousult own dignity and that of his profession, and the amour propi his officers letter than ly (presumably at the suggestion of apothecary it pleases him to substitute for the commissic secretary supplied by the State) issuing a circular on the breal of a hospital saltcellar, value some three farthings! We do expect the apothecary-secretary to be familiar with the oft-qu lav maxim, De minimis non curat lex, but surely it canno strange to a man in the responsible position of the Chief Me, at Officer of the army of India. When we refleat on the sel matters that should fill the minds of the Medical Staff of army, it is with something more akin to sorrow than mere prise that we see this highly-placed official thus taking " tit mint and cummin." The impression throughout both me
vices in India is that the tours of the Surgeon-General and his thecary-secretary are more costly to the State than profitable ihe sick, to say nothing of the irritation awakeued in the minds his highly-competent deputies, by this petty interference. If y cannot be trusted with the small details of hospital adminision, on what principle can their pay, position, and authority iustified?

THE BRAZILIAN POISONING MYTH.
3 appalling tale of wholesale poisoning of natives in Brazil ch has gone the round of the press this week has now beeu offily contradicted. The story was, on the face of it, so tesquely improbable that we are surprised it should have a believed for a moment. There was an epic completeness ut the catastrophe which was in itself a highly suspicious fea-

Granting that Senhor Joaquin Bueno (surely a most inconous name in this connection) might have conceived such a an of campaign," it is difficult to see how it could have sucled. Strychnine, as is well known, is most intensely bitter, -corrosive sublimate has a taste the reverse of agreeable. It fardly credible that any large number of persons should have In a poisonous dose of either of these substances at the same ant ; and in the case of strychnine, at least, the symptoms, both jective and objective, sra sufficiently pronounced to be at once rred even by ignorant people to their real cause. The first to e the poisoned food or drink would no doubt perish, but the it of their sufferings would effectually deter the survivors il following their example. On the whole, therefore, we cannot 1 (1) that the tale of horror had eveu the merit of being well nted.

MEDICAL CONGRESS IN SPAIN.
Independencia Medica states that a Medical Congress will be at Barcelona from the 9 th to the 15 th of September, in connecwith the Universal Exhibition which is shortly to be opened Among the subjects down for discussion we observe the owing, which will suffice to show that our Spanish brethren a) well abreast of the medicine and surgery of the day: Measures e taken by the State for the prevention and cure of blindness, for the improrement of the condition of the blind in Spain; ent state of leprosy in Spain, and how to prevent it from ading; indications for surgical interference in intestinal obction; identity or difference of scrofula and tubercle; localisaof lesions in diseases of uervous centres; application of hypsm and "suggestion" to the treatment of nervous affections; o-organisms in mineral waters, their influence on the chemical titution and therapeutic effects thereof; laparotomy as an oratory measure in penetrating wounds of the abdomen (more cially gunshot wounds) ; antiseptic midwifery; etiology and priplaxis of cholera, and yellow fever. A Pharmaceutical Congis will meet at the same time.

THE PAY SYSTEM IN HOSPITALS.
A Aper on "The Pay System in Hospitals" was read by Mr. B lett Coutts, M.P., at a meeting held under the anspices of the H pitals Association, at St. Thomas's Hospital, on Wednesday, 12 th, in which the opinion was expressed that, if a proper pi system were adopted in both the jut-patient and in-patient urtments, the extraordinary deficiency would be made up by payments of patients. There was a great blot in the prescut 3m. Of charity there was enough; but, under the present m, what might be called the incidence of charity was wroug, as rose who could help themselves wholly or in part were helped el rely from charity, and those who could not help themselves we, therefore, pushed to a certain extent into the cold. Erery py on should, he advocated, pay what he could; and there should
be, where possible, a remunerative ward, such as St. Thomas's Home. 1le referred to the working of the pay system in the prorinces, abroad, and particularly in America, as illustrating the adrantages that might be expected from its adoption; and suggested a fixed scale of graduated payment, according to the class of ward occupied. Sir E. Hay Currie and Sir S. Waterlow thought it would be an injustice if the pay system were introduced at the cxpense of the prorident system. If they could begin de noro, Sir S. Waterlow observed, he would like to sce pay and free hospitals kept entirely distinct. Mr. Carr Gomm, Chairman of the London Hospital, thought the pay system would be an injustice and injury to the medical men in the district. The discussion on the paper was adjourned until June 20th.

## THE EMPEROR OF GERMANY.

A spectal telegram from Charlottenbnrg, received as we go to press, states that the Emperor is now able to take solid food with hearty appetite. The highest temperature on Wednesday was $102.3^{\circ} \mathrm{F}$.; the lowest on Thursday morning $99.3^{\circ} \mathrm{F}$. Less pus is discharged. The august patient feels better, but is rather weaker and thinner, as the result of fever and suppuration. This report agrees with those which hare been published during the last two or three days, and may be looked upon as relatively favourable. It will, of course, be understood that it refers only to the incidental complications which have recently arisen, and not to the essential disease, which appears to make steady progress, though with alternations of quiescence and actirity which have already on several occasions given rise to delusive hopes, followed by paroxysms of somewhat exaggerated alarm. We regret to see that the suspension of hostilities-diplomatic rather than based on any real "unanimity" though it may hare been-agreed upon among the Emperor's medical advisers at San Remo, has come to a premature end. We think it due to Sir Morell Mackenzie and Mr. Hovell to point out that all the evidence show's that the truce was not brokeu by them. They were attacked in so grossly personal a manner by certain German newspapers, that they have been compelled to invoke the aid of the law. Actions for libel have already beeu instituted against the Fönische Zeitung and the Kreu-Zeituny for publishing definite accusations of professional incompetence which, we understaud, have no shadow of foundation. From information we have received from a trustworthy source we have reason to believe that a false passage was made in replacing the tracheotomy tube, as this operation was followed by considerable hemorrhage; but it can, we are informed, be clearly proved that neither of the Emperor's English medical attendants is responsible for this unfortunate occurrence.

## TEACHING STUDENTS TO THINK.

IT is often a subject of regret to teachers in our medical schools that the work of the first two years is so soon forgotten; a man who has passed his preliminary examinations frequently so far forgets his scientific subjects in six months as to be unable when in the hospital wards to give a description of the cerebral supply to parts of the body, the convolutions of the brain, and the cranial nerves, or the minute anatomy of the kidney and liver ; still, such students may have dissected diligently, attended lectures, and read at night, but they have not learnt to think or are not trained to think systematically and correctly. This defect is, we suspect, not entirely the fault of the students, but is also in part due to defects in teaching. When observing students under examination, both for University degrees and on the lower examinations, it has often been obvious that failure to pass the standard may depend upon inaccurate methods of thinking and speaking-or upon no previous thinking-quite as much as from ignorance of the subject matter. Observing the objects of study
in the dissecting room does not nucessarily teach thinking; to ohserve is to receive impressions, thinking may or may not fellow ohserving. We have no intention of suggesting formal teaching of the lars of thought in the form of logic, though this useful science used to he one of the extra suljects in the Arts examination of the Apothecaries' Society. It does, however, seem needful to call antention to the importanee of edueating students to think as well as to observe facts; the eeientific subjeets and the teaching of medieine afford plenty of scepe for both. The student is generally interested in the applieation of seientific knowledge to practice, and to show him such conneetions early in his 'career stimulates thinking. The constant application of anatoms, physiology, chemistry, comparative anatomy, and the prineiples and facts of regetable bielogy, to what is seen in patients, produees an expansion of the subjeets of theught, and engenders hahits of correct thinking. To fellow well made analogies, and to answer questions which exercise the imagination in a scientifie manner, as in deseribing the minute conditions of eirculation and the cause of nerve-currents in reflex actions, necessitates correct thinking. A student will often say that he hears a systolic mitral bruit, and is satisfied with his achievement, without understanding that the sound heard suggests an hypothesis which requires to be fully worked out before he can know the condition of the patient. A man well trained, net only in observation buit also in rapid and correct thinking, will get through much more good work in practice than one less theughtful. Thenght, preeeding action, guides him rapilly to make the necessary observations in the case before him, till thinking becomes automatic, and his opinions are rapidly formed upon brief observations, and what is ill termed "elinical instinct." In making these remarks we by no means wish to depreciate the necessity of thoreugh and systematic examinstion of all the organs as a matter of primary necessity.

## LOCAL GOVERNMENT BILL.

Therr is one aspect of the working of the new Local Government Bill, in respect to its 11 th clause, which has not yet received the attention it deserves, and unless that clause be modified it will undoubtedly have the effect of creating a new monopoly, to the detriment of the public, and to the henefit of landlords, wine merchants, and puhlicans. At present the granting of " off" licences, that is, of lieences for wines, ete., sold in soaled'vessels in given quantities, snd not to be consumed on the premises, is limited only by eertain conditions of a formal character, intended to ensure respectability on the part of the rendor. The prorision has worked exeeedingly well, and as a Committee of the House of Lards nscertained, and as we have always contended, it has a twofold advantage. It has secured to the middle classes a supply in every small distriet of wines, etc., which they desire to use in their ewn homes, of good quality, and at moderate price, and by reducing the value of the monopoly of the publican and the temptation to drink in public-houses, has worked in every way for the public goorl. If now on the operation of the Bill this, too, becomes a monopoly in a few hands, the first effect will be to"give an immense bonas to laridlords, who will at once raise rentals. It is known that this (ffect is already beginning to operate, and that renewals of leases are only being made under conditions of increased rental if this clanse should become law. It is the force of the vested interesta, and the immense accumulatel fund created by the monopoly in the beer and spirit trade, which has made that question so difficult and so costly to deal with; and it is much to be hoped, in the interests of the general public, that'sueh a mistake will not be commit?ed in the present legislation.: The great object should be, while satisfying all legitimate requirements of thase who wish to consume alcoholic liquors, whether in the form of wines or apirits, in their houses, to diminish the temptation for drinking in pablic-honsee, and to avoid adding to the value of the
existing monopaly of landlords and publieans. Clause 11, hithoug no douht framed with the best intentions, will really, as the $13 i$ at present stands, have no other effect than to present a magnif cent bonus to both these classes, with the immediate result adding to the eost of the wine used by the midale classes, for is the holders of the "off" licences who practically smply the wine cellars. To eut off arlitarily the trade of the bolders of "of licences who have held them in many instances for twenty-fiv years, without any corresponding advantage to the public bu really to the public detriment, would be an act of confiseatic which has nothing to justify it. If all licences wére to be col fiscated without cempensation, we should have no objection make, but the class of traders whose trade is the most. Dlsmele and least open ta abuse ought not to be mado to suffer alone.

## THE VIVISECTION ACT AND THE INOCULATION,

 ANIMALS.The Iresident of the Priry Council (Lord Cranbroek) and $t$ Heme Secretary (Mr. Matthews) reeeived a deputation from Royal Agricultural Society and the Royal Veterinary Celfege Tuesday last to urge that the Vivisection Ict should be amend so as to allew of inoculation of animals' and precention of disea Lord Egerton of Tatten, and Professor Lrown having spoken, $t$ Home Seeretary said that the difientey all arose from the use the word "experiment" in the Act. The Lct did not define word, and he was bound therefere to apply.it. 'I'rofesser Bro agreed with his own interpretation; but the professor suggest that there should be this addition made, not a belief that operation performed would produce good results, in which cast would become treatment and be exempted under the Act, but tl if there was a bona fize desire to benefit the animal without a belief or knowledge one way or the other whether it would benct the animal or not, that that should be taken out of the elass? experiment and put into the elass of treatment. But sueh $a c$ as that would come perilously near to the éexperimental stage. M. W. Ridley said Professor Brovin had been carrying on exp ments for two years with reference to swine fever, and he come to the conclusion that a certain injection into the skir the pig would most prabably protect from swine fever not o the particular pig operated upon, but the whole tribe of pig he was allowed to have this performed by competent reterin s surgeons all over the country. Lord Cranbrook thought it we pity that they had not the decision of a court of law upon subject ; anid if that dhould be against them, then they might ge remedied by Parliament. : The Home Secretary observed that less some action of this kind were taken he was afraid they wo not get the House of Commens to amend the Act. "The depl tion then withdrew.

## NURSE-REGISTRATION.

Whether nursing is to be regarded as a trade or profession, tl can be little deubt that its claims to public sympathy have fer it a plae in public ested very different from that whic was thought pessible to attain to a few years ago. Many cale have contributed to this result. J'erhaps the niost Finflientif o all ean be traced to the estahlishment of nutse training sehooli roost of the large and in seme of the smaller hospitals where yol women of good character and antecedonts, as well as gentletwor $n$ aro initiated to the work. With its progressive development; not surprising that there should be a desire expressed to regut the employment, by instituting an' educatienal curricnlant which all nurses should"be subject. Upwards of a yonr a: movement was set on font by the llospitals Association haval this orject in riew, as well as to consider the expedieney of es $t$ lishing a. collective register for qualified nurses, since thiero a |every reason'to expect that at no distant date the whiole subje
their educational training and the practiec of their art might be considered worthy of legal supervision. Prom inquiries made at the chief hospital centres it appears very deubtful whether the matter is ripe for adjustment, nor is there any agreement among the autherities consulted as to the body to whem sueb a pewer should be delegated. The whele question is bristling with difficulties, not likely to be lessened by the ardeur of the enthusiasts who are now leudly elamouring for legislation on their behalf, without giving a thought of the dangers in their path. We have the greatest possible sympathy with the wemen and their werk, but we are not prepared to fellow the lead of any association which professes to represent tho vocation, far less to promote legislation in its behalf, without first ascertaining from an exhaustive inquiry what are the needs and wishes of the many. The heteregeneous character of the class now following nursing as a means of livelihood, and the varieus branches of the art praetised in town and country, render it very inadvisable that it sheuld be placed under an exclusive jurisdietien. The impertant interests involved, ranging from those of the cultured lady-superintendent the nurse who dispenses her medical comforts to the rillage poor, are numerous and cenflicting; ner is it the technieal knowledge or hospital experience, howerer raluable, which renders the uurse hest fitted for her work. Too little aceeunt is taken of those natural gifts of temper, taet, and dispositien, which cannot be registered, lut which after all contribute more essentially than anything else to the formation of character in a nurse. Nor is it to be supposed that the midwife, the menthly nurse, and the masseuse or other specialist can take eommon greund with the certificated hospital nurse, whe has spent seme of the best years of her life at a small remuneration, that she may arrive at a supposed standard of effieiency, or, rather, that she may cenform to the exigeneies of the hospital in which her lot is east. It is but fair that the distinctive terms "binding" and "training," which in practiee are almost synonymous, should be better understeed. The binding renders the probationer subject to a meral contract to continueus employment for periods rarying from two to three or merc years, and may preve advantageous to herself, as it certsinly dees to the hospital which receives her serviees, but it bardly meets the appreval of charitable and other'agencies, which must he at the cost of training their own nurses in eeparate institutions, for the special duties they will afterwards be called on to perform. Co-operation is, no doubt, a good thing when it can be managed without friction, but, in the face of the great diversity of opinien whieh exists on the suhject, coupled with the manifest ebstacles to harmenious actien inherent in a novel organisation, the question of eollective nurse-registration is net ripe for solution. Let each hospital and training school look well to its own register, and to the educational facilities afforded to its nurses, so that it may be pessible in the course of time to adopt one uniform basis which weuld be acceptable alike to the leading hospitals, the professien, and the public.

## SCOTLAND.

$W_{B}$ are informed that Professer Rutherford has returned to ECdinburgh, and will resume his duties on May Ist. It ought to have been stated in a paragraph published a dortnight ago that Dr. J. Berry Haycraft, whe has conducted tbe ceurse of Physielegy daring the last winter, took an equal share in the recent Second Professienal Examination with Dr. Catou and Dr. Paton.

GLASGOW MEDICO-CHIRURGICAL SOCIETY.
Ir the meeting of the .Obstetrical Section, Dr. Stirten read notes of forty eases of uterine fibroids, treated by Aposteli's method. About one-half of the casus had bean benefited by the treatment.

The harder and more eneapsuled the tumour, the less was the effect produced; while the more rapidly growing tumours; and especially those endangering life by profuse hæmorrhage, were most amenable te the treatment.

## GLASGOW SOUTHERN MEDICAL SOCIETY

Dr. Archibard Johnstone showed an interesting case of extroversion of the bladder in a ehild aged $4 \frac{1}{2}$ months. Dr. Gilmour also showed drawings of a similar deformity in a boy aged 10 who had formerly been under his care, and described the nature of the defect in development and the treatment of such cases.

## GLASGOW UNIVERSITY UNION.

A littide more than three years ago it was resolved, at a largely attended meeting of the students and graduates of Glasgow University, to establish a Üniversity Ünion, and a Committee was appointed to earry this reselution into effect. This Committee had just commenced its duties when it was announced that a gentleman, whose name was not at first diselosed, but who is now known te be Dr. John MeIntyre, Odiham, Mants, had offered to the Senate the sum of $£ 5,000$ for the purpose of proriding the necessary building. The effer was promptly accepted, and a suitable building has now been ereeted on the University grounds, and is almost ready for occupation. The building contains a large hall for debates, a spacious library and reading room, a dining room, smoking reom, several committee roems, porters house, and other accommodation, To previde the funds neeessary for its furnishing and for a sufficient endewment for its maintenance, it is propesed to hold a fancy fair early next year.

THE UNIVERSITIES (SCOTLAND) BILL.
THE Senate of the Glasgew University bave forwarded to the Secretary for Scotland a memorandum setting forth their riews in regard to university legislation. The Senate approve generally of the new Bill, but strengly object to the aftiliation clauses, as introducing a prineiple of an altogether novel and unprecedented character, and involving fundamental ehanges in the Scatch unirersity system. The subject of affiliation is not one on which public opinien is ripe, and is surreunded br difficulties and complieations which have net been considered in the drafting of the Bill, or which it makes ne attempt to solve. These clauses should therefore be deleted from the Bill, and the Commissioners be instructed to take the whole matter inte their careful consideration, and report to the Queen in Council. The Senate also oliject to the great diminution of their powers, and their altered relations to the University Court. They hold it te be essential that the Senato should retain the whale of the educational functions they have hitherto exereised, and that if any power of initiation in such matters be granted to the Court, it should be exercised only after reference te, and repert by, the Senate. At the usual menthly meeting the governers of Glasgow Technical College resolved, after discussion, to apprere the Bill as a whole; while desirous that in any new system arrangements be made for enabling the teachers of the College to qualify in part for unirersity degrees. they considered it essential that the gererning bodies of colleges thus affilated should retain full eentrol over their own finances and internal arrangements. They were therefore strongly opposed to the provisions of the Bill by which affiliated colleges would be brought under the control of the Unirersits Court, and reselved to petition in favour of the Blll as a whele, reserving tho subject of affliation for the censideration of the Commissioners.

## ST. MUNGO'S COLLEGE BILL.

A spretal general meeting of the Merehant's Ifense whe held on April 19th to consider the Universities Bill and the St. Mungo College Bill. The Chairman, Lord Dean of Enild, mored "that this meeting express appreval of the intent and principles of the

Universities (Scotland) Bill, and generally of its provisions, but strenuously object to the proposal contained in Clause it (1) to transfer the patronage of bursaries now vestel in private indiriduals, or corporate or other bodies, to the University Conrt, and are of opinion (1) that more full provision should be made in the Bill for the recognition by university courts of the certifieates of extra-mural teachers as qualifying students for examination for university legrees; and ( 2 ) providing for such examinations being conducted by persons other than teachers of the students applying for examination." This very remarkabla resolution, showing how thoroughly some of the gentlemen of the Merchant's House understand medical afnirs in Glasgow, was carried unanimouslr. Thereafter, on the motion of Mr. William Macewen, it was unanimonsly resolved to petition Parliament in favour of the St. Mungo's College Bill, and the Chairman, ex-Lord Provost Ure, and Mr. Macewen were appointed $n$ committee to proceed to London, if necessary, in the interests of the Merchant's Ilouse to promote the passing of the Bill. The Unirersity Club, of which Mr. J. S. Camploell, M.l', is IIonorary President, has petitioned against the Bill. Ayr Torn Council, at a specinl meeting on April :0th, after learing a deputation consisting of Dr. Mc Vail, Sir James Bain, and Mr. George Gibson, also unanimonsly agreed to petition in farour of the Dill.

## THE PRIVILEGES OF THE ROYAL COLLEGES OF EDINBURGH.

Thre privileges of the Fellows of the Royal Colleges of Physicians and Surgeons of Edinburgl, in respect of hospital and other similar appointments, hare just been called in question. Dr. John Haddon recently raised the question in the General Council of Edinburgh University, and moved a resolution bringing before the University Court the gross injustice and great hardships to medical men in Edinburgh that the degree of Doctor of Medicine of Edinburgh University was not recognised by the rules of any of the medical charities in Edinburgh, and asking that steps be taken to obtain that all Doctors of Medicine should be fully qualified to hold appointments in these charities. Dr. Haddon drew especial attention to the Royal Infirmary, where the only acknowledged qualification wns the Fellowship of the Royal College of Physicians. Dr. Peel Ritchie, President of the Royal College of lhysicians, deprecated the transmission of the motion on the grounds of tinexpedieney, inasmuch as the University and the Royal Colleges were acting in perfect harmony. Discussing the merits of the question, he drew attention, in a historical sketch, to the position which the Royal College of Physicians occupied as the founders of the Royal Infirmary. Dr. Cadell moved a direct negative to Dr. IIaddon's proposal. Ultimately, on the motion of the Rev. Professor Flint, it wns agreed by a majority to transmit Dr. IIaddon's motion to the U'niversity Court, without expressing any judgment on it.

## IRELAND.

## OUTBREAK OF MEASLES IN DROGHEDA UNION.

Dr. CatLin, medical officer of the union, has reported that an epidemic of measles has broken out in his district; also sporadic cases of German mensles. No eases, so far, have resulted fatally and precautions have been taken to prevent the disease from spreading.

THE VACANT INSPECTORSHIP, LOCAL GOVERNMENT BOARD.
Dr. Enward Thompgen, surgeon to the Oraagh Jnfirmary, has been selected as inspector under the Local Government bonrd, in room of Dr. O'farrell, nppointed to the Prisons Board. The probability of this appointment has been already referred to in the

Journal. There is much dissatisfaction because so many other excellent candidates, who had the advantage of being trninel ia the service, have been passed over.

## A MEDICAL PRACTITIONER SENT TO PRISON.

Ar the Armagh Quarter Sessions, held recently, Dr. Arthur Mcheorn was sentenced to three months' imprisonment with hard labour for having assaulted a bailiff last February. As Dr Mekeown has offered to give compensation to the bailiff, a memorind will be forwarded to the Lord-Lieutenant that the sentence be reduced.

## THE FELLOWSHIP OF THE ROYAL COLLEGE OF SURGEONS, IRELAND.

Tire Council of the College of Surgeons has just issued revised rules in reference to the Fellowship. From and after October, 1888, candidates will be examined in the months of January, May, and November. There will still be two grades-candidates under ten years' standing, and candidates of more than ten years' standing. For the first grade there will be a written examination in anatomy, physiology, and surgery, extending over six hours. Second day, oral surgery, one hour; surgical pathology, half an hour. Third day, clinical surgery, one hour; histology (laboratory), one hour; dissections, half an hour ; oral, anatomy, one hour; physiology, half an hour. Fourth day, operative surgery, one hour. Grade JI.-First day, papers: surgical anatomy, three hours; surgery, three hours. Second day, oral surgery, threequarters of an hour ; morbid anatomy, quarter of an hour; clinical surgery, one hour. Third day, operative surgery, one hour; surgieal anatomy, half an hour. A gross total of 60 per cent. shall be considered the passing mark. A candidate who has scored less than 60 per cent. but more than 30 per cent. in a particular subject or subjects other than anntomy and surgery, shall be passed or rejected by the majority's vote of the whole Court. Licentiates of the College will be permitted to present themselves for the primary part of the examination at any period after their admission as Licentiates.

University of London: Appointmpent of Examinfis.-At the meeting of the Senate, held on April 25th, the following geatlemen were appointed examiners for the ensuing year in the F'aculty of Medicine: Dr. Cayley and Professor F. T. Moberts, in Medicine ; Mr. Morrant Baker and Professor Christopher lleath. in Surgery; Professor Curnow and Dr. Alexander Macnlister, ia Anntomy; Professor Schäfer and Mr. J. N. Langley, in l'hysiolngy: Dr. Champneysnnd l'rofessor John Williams, in Obstetric Medicine: Dr. Bruce and Dr. Frederick Taylor, in Materia Medica and Marmaceutical Chemistry; Professor Poore and Dr. Stevenson, in Forensic Medicine.

Protident Scrgical Appliance Societx.-This Society, of which the siateenth anniversary festival was held last week, has since 1872 been doing a useful work in supplying patients of small means with surgical appliances or nrtificial limbs of the best manufacture at nominal prices, or on a prorident system of payment. Since its foundation 42,000 articles have in this may been issued hy the Society; and with the object of extending the usefulness of this Society, a branch has this year been successfully opened at Norwieh.

Medreai, Magistrate.-Dr. Thomas Allan Wotherspoon, of Lrampton, has been placed on the Commission of the Peace for the County of Cumberland.
The Committee on Ileuro-pnenmonia and Tuberculosis, appointed by the Agricultural Department of the Privy Council, have chosen Mr. Jacob Wilson as Chairman; Mr. Victor llorsley is a member of the Committee.

Arbangemests for holding an international exlihition at Carlsbad, during the summer season of 1889 , have been definitively made.
Tur prizes in the Faculty of Iledicine of University College will be distributed by JIr. John Marshall, I'resident of the General Medical Council, on May 17th, at 3 p.m.

## ST OF AUTHORS AND OTHERS WHO HAVE PRESENTED BOOKS TO THE LIBRARY OF THE BRITISH MEDICAL ASSOCIATION．


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## THE SANITARY CONDITION OF HAILEYBUR COLLEGE, HERTFORD.

Owasg to several cases of diphtheria suddenly breaking out a Haileybury College during last term, which resulted in the deat of one boy, the illness of five others, and the consequent breakin up of the sclool before the Easter vacation, we instructed ou Special Commissioner to risit the College and investigate its san tary condition, so as to enable us, if possible, to allay the anxiet which has arisen amongst the parents and friends of the boy owing to the sudden breaking up of the school; and to point ou if possible, to the governing council any existing flaws in th sanitary arrangements for the adrantage of the future.
Our Commissioner, Mr. E. Dailey-Denton, visited Haileybury
April 7th, and reports as follows:-
1 carefully inspected Hailerbury College, in company with tl College Steward, on Saturday, April 7 th, with the ready permissic of the Rer. James Robertson, the Ilead Master, who kindly co sented to my inspecting everything in and about the place, so th $I$ might the more accurately discover and realise its sunitary col dition.
For the sake of clearness and distiaction, I purpose dividing n remarks under three heads: 1. General Sanitation; II. Wat Supply; and InI. Milk Supply.

## 3.--Sanitation.

The College is situated about two miles from Mertford, on a hi and in a position as naturally conducire to health as would a pear possible.
External Arrangements.-The liquid refuse of Haileybury C lege is conveyed by 15 -inch pipes to a small serrage farm situat at a distance of about one-third of a mile from the building, whe it is applied to eleren acres of land by maans of surface irrig tion. The position of the farm is isolated, and its conditic though perhaps not showing the tidiness which ought to disti guish scwage farms, is certainly not such as to be in any ${ }^{\pi}$ prejudicial to health. There are no tanks for the delposition of solid matter, and consequently no concentration of bal smells; t fresh sewage is applied to the land. Withont any treatment, a the eflluent, after passing over it, flows into a brook in au unf jectionable condition, though not critically pare. The out sewer from the Collige to the farm is well ventilated, has a ge gradient, and is effectually disconnected from the college at upper end. It is, therefore, nest to impossible for any gases
rated along its course to find their way into the scliool limile rated along its course to find their way into the scliool luilel
to disseminate disease. All the rain-water and bther pipes disconnected from the sewer, and discharge their contents on traps, whilist all junction chambers have ventilating shafts currs up to the roof of the College, out of the way of tho upper wiudo There are no watcr-closets upon the premises, fither for the of the boys or serrants, and only two in the Master's house. closets, whieh are leept very clean and attunded to daily,
adopted thronghout. The carth before use is carefully dried adopted throughout. The earth before use is carefully driad
sifted sifted, and after use is kept in open sheds, mixed with cinders,
utilised on a garden specially reserved for the purpose. When manurial properties have been extracted, the earth is again us: and thus the system is regularly maiutained. The urinals

Pt filled with sawdust, which is removed daily and utilised on ie land.
The laundry and bakery attached to the College are both exceponally clean and perfectly disconnected with the sewers, and e swimming bath and gymansium are all that could be dered.
Internal Arranyements.-The kitchens, sculleries, and pantries e clean and sweet, showing clearly that the upper servants are ire to their responsibility and duties. The dormitory slop-sinks d baths, which are sulliciently numerous for all purposes, and aply supplied with hot and cold water, are disconnected from e sewers. One earth closet is fixed and attached to each dormiry for night use.
'he air space allotted to the boys throughout the dormitories good, being 800 cubic feet in the older and about 1,000 cubic st in the modern rooms. The ventilation, lowever, is not so tisfactory as it should be, although there is nothing connected th it which could be ealled a factor for the propagation of disse. The method adopted of allowing the foul air of the lower rmitories to escape by openings in the ceilings, and, after mixre with fresh air brought in from the ontside between the sts, to enter the upper dormitories at the floor level, is wrong principle, and should be certainly remedied. The medical icer of health, indeed, allows that this method of rentilation faulty, and lie states that it las, in consequence, been conmned. In his annual report to the Council for 1887, he states, he system of rentilation cannot be considered satisfactory." In ; opinion, it could be easily improved, at a small outlay, witht any material alteration of the buildings, and, no doubt, the rerning body will sanction the improsement withont further lay. The "Tobin tubes" in the "sick house" are not placed at proper level to secure ventilation without discomfort to the mates.
The arrangements for sick boys at IIaileybury have been well inned, and are satisfactorily carried out. Those suffering from uporary disorders of a non-contagious character are kept in
"sick house," which is a part of the College itself; whilst those fering from contagious complaints are relegated to the "sanafum," which is a spacious building standing well away from the llege, where the best possible medical attention and care are bewred on them.
It will be seen by the above remarks that the sanitation of ileybury is decidedly good, and, indeed, I believe there are few blic schools in the kingdom which ean compare with it; it is, refore, all the more necessary that the authorities should reve the only flaw in its character-that is, the dormitory ventiion. One more remark only is necessary under the head of aeral sanitation, and that is, that the state of the ditches in Little well, a village close to the College, where the boys constantly IF, is abjectionable. These ditches apparently contain sewrge itter, and in the summer mist emit efluvia of a malarial aracter. The College authorities should bring pressure to bear remedy this evil.

## 1I.-WATER SUPPLT.

The water supply is derived from a deep well under the build, passing through the clay to a depth of about 50 feet into the alk, the total depth to the hottom of the well being 228 feet. ewater is pumped up from this well by a $7 \frac{1}{3} l 1-p$. steam engine o a tank at the top of a water tower, whence it is distrited, after uudergoing Porter Clarke's water-softening process, the various cisterns througlout the College.
There is no doubt whaterer that the position of the well is ining of pollution, which no amount of steining and clay pudelling p prevent. The rery reason which the late Dr, de Chaumont ve, when he was called nuon to report on an outbreak of typhoid er which occurred at 1laileybury in 18S1, "that the water inot lee contaminated because it passes through clay lefore iching the chalk," appears to prove the reverse; for the water :omes discoloure d with claycy material. It would appear, theree, that some disturbing influence causes this discoloration, which $y$, if it has nat alreads been proved so, turn out to be pollution. !t is not within the province of $\Omega$ civil engincer to analyse ter, especially as I understaud that Dr. Stevenson, of Guy"s spital, has leen lately supplied with a sample for analysis, uith will probably throw some light on its present quality: The blic will auxionisly await his verdict; but, in the meantime. I buld fail in my duty if I did not state that the proximity of the 11, notwithstanding its depth and its steining, to the urinuls l various gulleys down which sewage is throwu, suggests dan-
ger. Any well in close proximity to a large establishment, and mmediately under the Ioundations of the building, rcceives by ordinary gravitation the oozing wetness of the ground, and in time allows polluting matter to descead with it io the water level by imperceptible pacsage, either inside or outside the brichwork with which such well may be steined; and the fact that the water does at certain seasons become discoloured, as I myself saw, proves that the views I have expressed cannot be far fetched.

It would be impossible to say that any of the cases of diphtheria which recently occurred are in any way traceable to the drinking of polluted water from the well in question, for none of the other 478 hoys, or any of the masters, their children or servants, who all drank of the same water, and who practically breathed the same air, suffered in like manner, whilst the previous analysis made by Dr. Stevenson showed the water to be "pure." The last samples handed to him contained, I am told, yellowish regetable matter, which, the authorities aver, enters the well at the bottom after percolating laterally from the Lea, through the chalk and clay and must, therefore, be innocuous. Many people will probably decline to accept this conclusion; and as no expert can decide the case on the present premisses, it may be well to consider if the presence of regetable matter is not due to imperceptible soakage from the surface immediately above the well.

## III.-3ILL SUFPLY.

The milk supply for both masters and boys is derived from a farm at Hertingfordbury, about five miles distant from Haileybury, in the accupation of Mr. Wells, who has supplied the College for some few years. The dairy and cowhouses at this farm are healtiy and good, and all the dairy utensils were upon the day of my visit, which was quite unexpected, clean and sweet.

The water for cooling the milk and general washing purposes is obtained from a well sunk in the chalk in proximity to the farm buildings, whence it is pumped into a tank arer the cowhouse. It is here that I consider that there is a serious defect in arrangement. This tank is placed in the roof of the cow-house itself, witl the cooling apparatus beneath it. There can be no doubt that this is open to much objection for the fotid impurities of the six, due to the emanations from twenty-one cows, standing in one building, especially when confined at night time, must to a certain extent be absorbed by the water. I have no hesitation, therefore, in saying that the College authorities should require the remoral of this tank to a more suitable and healthy position.

Summary.-Having thus reviewed in detail the sanitary arrangements of the College, with a view, if possible, to trace the cause of the late outbreak of diphtheria, I admit that I cannot directly connect it with anything associated with that establishment.

The history of the outbreak is brietly this: 'Two new boys, who Tere inseparable companions, weut for their exeat together on March 5 th, returning to the school on March 7 th, and were admitted to the sanatorium on March I9th and 20 th, suffering from diplitheria. Between the 2nd and 28th of the same month, four more cases were admitted-the first two were severe cases, resulting in one deatls ; and the remaining four were mild in character.

The cause of the outbreak, therefore, must, in my opinion, be sought in the first-mentioned case; and, in fairness to the College authorities, who, in conjunction with their medical officer, Dr. Shelly, are most anxious to discover the origin, I would add that, uutil the patient who is now on the road to recorery is sufficiently well to be questioned as to where he and his friend went, what they did, aud what they drank on their way to and from their homes on the occasion of their eareat, all judgment should be suspended.

Under any circumstances, I am of opinion that, in order to place Inileybury where it onglat to be, in the foremost rank of public schools quá bealth, and to ayoid the suspicion atinched to the well, the school authorities should consider whether they might not advantageously clange its position; for the subterranean source of supply fould be the same in any case: and in like manner they would do well immediately to perfect the dormitory ventilation, and remedy the faulty arrangements at the farm at IIertingfordbury, whence the milk supply is obtained.

Brotesst8.-The trustees of the late Mr. D. Maclure. lithosraplier, of Glasgow, have ordered payment of the following legacies, among others, free of duty:-Royal and Western Infirmaries, each £.j; Fyc Infirmary, £10; Lack IIospital and Home for Incurables, $£ 10$.

## THE SOCIETY OF MEDICAL OFFICERS OF HEALTH AND THE LOCAL GOVERNMENT BILL.

Ture provisions of the Local Government bill as affecting sanitary ndministration were discussed at some length by the Society of Medical Officers of llealth at a mecting held on Friday, April 2oth, at the Scottish Corporation 11all, Crane Court, Fleet Street, Dr. Alfred Hill, President, in the chair.
The Chamman reported that the subject had alrealy been under the consideration of the Council. who suggested the mpinion "that the interests of the pullic would be best served by the appointment of medical officers bsing entirely rested in the Conniy Counenls, instead of in the Distriet Councils, as arranged in the Local Government Bill." The Chairman reported that a meeting had been held an hour before, conrened hy sonne of the principal medical oflicers of combined distriets in the country, who were most nearly interested in the matter, and he was pleased to say there seemed to he a very common feeling that the propositions submitted by those gentlemen were ncceptable to the general body of medical officers. In fact their first resolution, passed without the knowledge of the Council, was very much the same in effect as the resolution of the Coancil, and he hoped in general meeting they would be able to fix on some form which should meet the viers of gentlemen of combined districts as well as of the meeting generally.
Dr. Wrison proposed, and it was seconded and carried, "That the report of the Council be adopted."
The following resolution. passed at the informal meating, was now read:-"That as the Bill proposes to transfer to the County Councils the powers for uniting sanitary districts for the appointment of medical officers which are now rested in the Local Government Loard, it is desirable in the interests of increased efficiency and coonomy that these powers should be generally exercised as
regards all urban and suall rural districts, and that the regards all urban and suall rural districts, and tbat the appointment of medical officers of health should be entirely rested in the as at present provided ly the Dill."
Dr. Wilsors's opinion was, when he read the notice on the agenda paper that it hardly went far enough, and that some definite opinion should be expressed as to the impossibility of medical ofticers of health holding appoint ments in rural and small urban districts and still being allowed to practise. He thought it impossible that these gentlemen could discharge their duties satisfactorily to the public and to their private patients. They wished, if possible, for some expression of opinion from the Conncil as regards the doing away of appointments in some small urban and rural districts.
Dr. AnMistead (Cambridge) proposed as an amendment words identical with the words of the resolution of the Conncil given above. He thought it would be a mistake to go beyond that, and that all that Dr. Wilson desired wonld follow as a matter of course. If the appointments were rested entirely in the County Councils, it was not likely for their own sake they would hase more medical advisers than they could possibly avoid. The counties of Rutland, IJuntingdon, and Bedford, were contrasted with Liverpool with its population of 550,000 , Manchester with something like 300,000 , each managerl by one medical officer. Why, he asked, should a County Council, with only a population of 5,000 , require more than one medical officer? And the same with the county of Rutland. They might safely say every county with a population of less than 100,000 ) would not require more than one medical officer; a county with $200,0 \mathrm{mo}$ would prohably require troo. The larger counties, such as Yorkshire and lancashire, would have their numbers diminished by the ereation of the new counties.
A Member asked what compensation would be given to members who were squeczed out?
Dr. Armistran replicd by asking what compensation could be gi. practice, and who only held their certificates for one rear. at the ind of which they would have to be reappointed by the Comuty "nuncils instrad of the Pistrict Conncils, and they would not apitron: y -four merlieyt officers, nind the connty of Cheshire with thir $y$-fint. Of this numbrer thirty-two were appointed to onetentli of the enunty, and the other two medieal officers were resprraib'e for the rest.
Dr. Inmstnong (Newenstle) said Dr. Robinson hard spoken of
advisers to the Conncil. He should very mach like to sec some thing introduced into the Bill referring to a larger set of officer than mere oflicers of what he rould call comhined districts. It thought they were limiling themselves to a body whose incom would average something like $£ 600$ to $£$ nd a a year, and as a whal There should he a larger set of oflicers than those whose inamme would average Sifico or $^{2} 7(0)$ a year-a superintending office appointed as adriser to one, or possibly to two, County Conncil. Jt wonld, he thought, raise their status, and Mr. Stanhope's speec of the previous evening tended, he thought, to underrate the pos tion of the medical ollicer.

Dr. Bowo (Gloucester) agreed that they should look upon th matter from the brondest possible point of view. He thought the wonld have no locus standi either with Mr. Ritchie or the dioren ment if they were not prepared to show that any recommend tions they made were made in the interests of the pubic. thonght it desirnble that they should not introduee details mo than absolutely necessary, and that they should limit their reen mendations as far as possible to matters of prime urgency. Ther were, it seemed to him, two great blots in the Bill. One was th
it perpetuated a system hy which medical offiecrs of health it perpetuated a system hy which medical officers of health
rural and small urban districts were primarily electerd Tould be the local District Councils, and the other ly wh although the Bill imposed upon the County Councils vel large and important supervisory functions, it made no provisle whatever for attaching to these Councils any competent advice assistance-such assistance as was prorided by the Local Gover ment Board at the present time (from whom there was to be
large devolution of large devolution of powers), such as was possessed by the sma me
sanitary authority. Me thought if ther saw their way to me those two essential hots, they woild accomplish all thi wished to achieve. The only other matter to which he wished refer was the blot referred to by Sir Lyon Mayfair in his admirah speech, and that was that all reports and returns were to he made, cording to the Bill as at present drafted, directly to the Lo
Government Board without the County Councils having a means of acquainting themselves with the contents of these doc ments, and therefore of being adequately aequainted with t sanitary condition of their district. The Government, it appear had recognised the blot, and Mr. Stanhope, referring to Sir Ly
Playfairs playfair's criticism, said "there was no reason why coning these reports should not be furnished to the County Counci
That could obyi Loeal Government Board sending down to report, or what seem to be a more simple way, that all reports should he first tran mited to the County Councils, and then to the Local Governme Board. They might nssume that that defieiency in the bill wol certainly be rectified. They had before them at the press time only the consideration of the first-namely, the desirabil
of trans of ransferring to the County Councils the appointment of which conld be amply justified on the grounds both of inereas efficiency and economy. He thought it was sufficiently reci nised that, at any rate, it was desirable to make the areas sul vised by medical officers of health large rather than small; and that was admitted, it followed as a matter of course the princi
of combination mu might be entirely superseded hy in some shape or form, cils, having the appointment of all medical oflicers of heal would practically make combinations of their own by either pointing one officer for the whole county, or one officer fon section of a county, as they might consider it adrisable in the terests of the puilic. He thought confidence should be slin by giving the County Councils the largest possible powers tn what they considered right in the public interest. asked what did they propose to do with all the medi officers of health now in existence? Did they propose supersede them all at once? He neither proposect nor gested it. He thought it exceedingly undesirable to m violent or sudden changes in their organisation. What had got to do was to look at existing facts as existing fa and to make the hest of them, but to take care in the future would effect improvement gradually as opportunity nrose. thought if that faet was distinctly impressed upon the Presid of the Local Government lloard, and if it could in any way the If the conn the Bill, it would answer every reasonable ob if effect combinations, or rather to avnil themselves, as oppo

Sir lyon Playfair, much too small. If they wanted a good sanitary service they must have something like prizes in the profession; in districts of only 100,000 , he took it, there would be none.
Dr. Fosbroke, speaking ia favour of large areas, said of courso a medical officer could supervise a much larger population in a thickly populated town than where the population was distributed orer a large area.

The following resolution, proposed by Dr. Anmistead, and seconded by Dr. Titham, was unanimously carricd:
"That the interests of the public in regard to efficiency and economy would be best served by the appointment of the medical officer of health being entirely rested in the County Councils instead of as arranged in the Local Government Bill.
The next resolution put from the chair was the following, proposed by Dr. Bond, and seconded by Dr. Armistead, which was also carried unanimously:-
"That as no provision is made in the Bill for furnishing the County Councils with the sanitary adrice and assistance which is essential to cnable them to carry ont properly the responsible duties of supervision with which it is proposed to entrust them, it is desirable that such prorision should be made, and that this object will be promoted by the foregoing resolution, which will enable the Council to arrange the sanitary service of their districts so as to secure for themselves such adrice and assistance, and to adopt in its fullest degree the principle of consolidating the areas supcrilsed by medical officers of health which experience has shown to work satisfactorily:'
Dr. HIME proposed the following resolution:-
"That in the interests of the public health of the country it is desirable that skilled medical officers be appointed as advisers of County and District Councils, who shall not be engaged in the private practice of the profession."

Dr. Wilson seconded it.
It being evident from various expressions of opinion that. Dr. llime's resolution did not meet with the unanimous approyal of the meeting, he ultimately withdrew it as a matter of expedieney.
It was deeided to circulate the above resolutions among medical and other members of Parliament.

Mr. Shmley Murpiy read a letter from Mr. Ernest Jart, the Chairman of the Parliamentary Bills Committee of the Dritish Medical Association, stating that at the last meeting of that body a resolution was passed farouring the attachment of medical officers of health to the County Councils, and that a subcommittee had been appointed to carry out that object : that it was resolved to seek the co-operation of the Society of Medical Officers of Health in the matter. It was, Mr. Hart saich, proposed to approach Mr. Stansfehl as the anthor of the Public Health Aet, the President of the Local Government Board, Sir John Lubbock, and Sir Lyon Playfair. Mr. Stansfeld was willing to have a private conference with them any morning, and he wished to know whether they were willing to co-operate.
It mas decided to accept the invitation of the Parliamentary Bills Committee of the British Medical Association, and to appoint a committee for the purpose: and, as soon as the exact amendments were thought out, to go before Mr. Ritchie as President of the Local Government Board, and state the result of the conference with Mr. Stansfeld.
The following committee was appointed: Dr. Alfred Iill (Birmingham), Dr. Bond (Gloncester), Dr. Corfich (London), Mr. Shirley Murphy (London), Dr. Armistead (Cambridge), Dr. Tatham (Salford), Dr. Woodforde (Reading), Dr. Hime (Bradford), Mr. Armstrong, M.R.C.S. (Newcastle-on-TYne), Dr. Seaton (Loudon), Dr. (.) Wilson (Leamington), Mr. G. Foshroke, M1.R.C.S. (Bideford), Dr. Thursfieh (Shrewsbury), Dir. G. Turner (London).

It the elose of the meeting Dr. Curvial. 1 referred to the death of Irofessor de Chaumont, to whose eminence as a sanitarian and kindliness of disposition he paid a well-deserved tribute, and proposed that a letter of condolence should be sent to his willow and family.-Dr. Boxd, as one who had enjoyed his professional accuaintance for twenty-five years, seconded the motion, which was carried nem. con.

1) onatioxs. - The Clothworkers Company hare given £.950 (ad(litional) to the Charing Cross Mospital, and five to the Royal National llospital for Consumption aud Discases of the Chest at Fentnor.-The Vestry of the Parish of St. Martin-in-the-Fielös have given ${ }^{200}$ guineas to the Jubilee Fund of the Charing (ross Ilsspital.- The ILon. Ageruon 'G. Tollemache has givea $£ 100$ to the Charing Cross Hospital, and fl00 to St: Mary's Hospital."

THE LONDON UNIVERSITY AND METROPOLITAN MEDICAL STUDENTS.
Ture following letter was read at the last meeting of the Senate of the University of London:

The Middlesex ILospital, W., April 14th, 1888.
We, the medical officers and lecturers of the Mliddlesex Hospital, beg leare to represent to the Senate of the University of London that, in our belief, it not infrequently happens that students and medical practitioners atherwise well qualitied are prevented from taking degrees in mediciue at the University hceause they have not passed the matriculation examination hefore commencing their medical studies. Afterwards, when they would be glad to have an oplortunity of presenting themsel ves for examiantion, they are debarred because they would be required again to go through the whole of their medical curriculum.
We beliere it would facilitate the obtaining of degrees in medicine by many capable students and practitioners if the Senate would, under certain circumstauces, so far relax the existing regulations as to accept attendance at lectures and hospital practice beforo passing the matriculation examination, and to admit snch candidates to the examinatious withont requiring them again to go. through their curriculum.

Signed on belhalf of the medical officers and lecturers,
J. W. llulke, Chairman. W. Cayley, Treasurei. 1. Pearce Gould, Dean.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. election of Members.

ANx qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.
Meetings of the Council will be held on July 18th, and October 15ith, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27th, September 26 th, and December 28th, 1888.

Francis Fowhe, Genetal Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

The Report npon the Connection of Disease with llabits of Intemperance, which was presented to the Section of Medicine in the Annual Jleeting of 1887 will slortly be published in the Jotrnal.
Reports upon the two remaining inquiries, namely, that into Diphtherial, and that into the Geogmaphical Distimbtion of CERTAIN DIEFASES, are in preparation, and will be published as soon as ready.
The following inquiry only of the first series remains open, namely, that on the Etiolooy of Phthisis.

A freah inquiry into the Orionn and Jlode of Propagation of Epidemics of Dipatheris has heen issued.
Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collcettve Investigation Committee, 423, Strand, W.C.

## brancil meftings to be held.

Morner Cousties Branch. -The spring meeting of this Branch will be held at Crokermouth on Friday, Hay 4th. The cllair will bo taken by Dr. Me Lend, at 3.15 p p.s. The followinit papyers will be read : Dr. Campbell (Garlanits): On Three Cases of Reenvers after it Lenk thened Dimp ition of masenity, with remarks. ibr. Hyhet (Workhyton): Notes on a Case of Puerperal Eclampinia. Dr. Black (keawich): Notes ori a Case of Suppurative Pertonitis. Br. Highet will open a discusson on the subject of Fres Pald to Whnesses. The Secretary will be ghad to recelve intimat ion of ruy press for rexaling or specimens for showing prior to


SOLTH WALES AND MONMOUTII BRANCII.
Tur spring meeting of this Branch was held at Pontypridd on April $13 t h$. Present: J. Adass Rawlinas, M.R.C.C.Ed., Fresident, in the chair, and about thirty-five members.
Neio Members.-D. R. Bowen (Morriston), J. Barrie, M.B. (Car-
diff), Ivor II. Davies ( (Porth), A. N. Loveridge (Newport), D. Lloyd (Newcastle Emlyn), T. II. Norris (Aberdare), were elected memhers of the Association pnd Branch; and W. W, David (Tonypandy) and Dr. Walford (Cardiff) members of the Branch.
President-Elect.-DI. C. T. Yachell, of Cardiff, was unanimously elected.
Papers.-Mr. J. Annallet Jones (Aberavon) read notes of a curious case of (Edema of the Hand, for which he had performed amputation above the wrist, and showed the specimen,-J. Tathay Thompson, M.B, (Cardiff), read a paper on Detachment of the Retina, and showed specimens and drawings.-Mr. E. Stanley Wood (Pontypool) read notes of a case of (iritti's amputation at the Knee-joint, and showed a plaster cast of the resulting stump.-Mr. I. N. Davies (Cymer) showed a boy in whom P'irogoff's amputation in the right foot and Chopart's in the left foot had been done eight years before. The resulting stumps wero very good, and he could get abont without trouble.

Congenital Absense of Both Patellic.-Mr. T. W. Parry (Ferndale) showed a patient having congenital absence of bath patelle, with a deformity: at each elbow, consisting of a surplus amount of bone. The patient had ten children, all healthy, except that, in the fourth child, exactly similar deformities were reproduced.
Biliary Calculi,-Dr. Taymor (Cardiff) showed a number of biliary calculi. The patient was a woman, aged 38. During a course of four months she had paroxysms of severe pain, with attacks of jaundice, and passed about twenty angular-shaped stones. The pain was much reliered by hypodermic injections of morphine on each occasion.- Mr. II. N. Davies mentioued a caso where 200 were passed; and Mr. Evan Jones one in which a mach larger number came away.-Mr. Wood referred to the raluc of chloride of ammonium in possibly preventing their formation, and referred to an illustrative case.
Suggestion as to Meetings.-Mr. A. P. Fiddian, M.B. (Cardiff), read a paper, urging the more frequent holding of district meetings for working purposes only, and a committee was nominated to consider the matter.
Petitions,--Petitions were adopted: (1) Against the Horse Tax: (2) In farour of the Architects, Engineers, and Surveyors Registration bill: (3) In favour of a Welsh Centre in connection with the proposed Nursing Institute; (4) On Fees paid to Hedical Witnesses.
Dinner.-The members and friends afterwards partook of an excellent dimer at the New Inn Itotel.

## SOUTL AUSTRALIAN BRANCH.

The monthly meeting of this Branch was held at the Adelaide Hospital, on February 23rd. Iresent: The Presidont (Dr. Davie: Thomas), Drs. Lendon, Mitchell, Poulton, Symonds, Todd: Mesers Aitken, A. A. Hamilton, Hayward, and the Houorary Secretary Mr. Cleland).
The minutes of the meeting held on January 26tio were read anc confirmed.
New, Members.-A. E. Tigg, M.D., M.R.C.S., was elected member of the Dritish 》ledical Issociation, and of its Soutli Austra ian Branch.
Pterygrum.-Dr. Symoxs real some notes on pterygium a occurring in South Australia.
Laparotomy-Dr. Görgers, paper on laparotomy, and notes o cases was taken as read, owing to the writer's unavoidable absence. Any discussion thereon, or of the subject, was postipone until the March meeting.
Treatment of Polyuria.-Mr. Cleland read a paper on his ex perience of the action of a preparation of hamamelis virginica a case of polyuria, aud the subsequent employment of codeia, i which the latter failed to produce any effect in dimiuishing th quantity of urine.

## ADSTRACT OF PROCEEDINGS OF COUNCIL.

 At a numerously attended meeting of thi Council, held in th Council Room at the offices of the Association, 429), Sirand, W. $C$ on Wednesday, April, 18th, 1888, Dr. Bridawater, l'resillent the Council, in the Chair, it wasResolved: That the financial statement for the year endin, December 31st, 1857, as certified by the anditors, he approved an published in the Jotrmal, in accordance with By-law 26 .

The remainder of the proceedings of the Council will appear i next week's Journal.

## BRITISH MEDICAL ASSOCIATION.

## FINANCLAL STATEMENT FOR THE YEAK ENHING DECESBER '31ST, 1887.

Balange Sileet.


Revenue or Profit and Loss Account for Year ending S1st Decomber, $185 \%$.


## Stewirt Fund.

ro investert in t per cent. Caledoniun Failway Dehenture Stock, in the name of the British Wedical Assoriation.

1. 2. To Balanee brought down

## - Interest one year on £5ị:

897. 

e. 31. By Balanco carried down
$\begin{array}{lll}5 & 5 & 11 \\ 70 & 13\end{array}$
8\%0180
Mindlimore Fund.
00 invested in 4 yer cent. Worth British Railuay Debenture Stock, in the name of the British Werlical Association.
Tn Balanee brought down ...
Interest one year on f500

Br Balance carried down

## ilastings Fend.

fay invested in 4 per cent. Iondon and जorth Westerm Railway Dehenture Stock, in the name of the British Medical Assaciation.



We have examined the foregoing Accounts with the Fooks and Touchers of the Association, and find the same to be correct.

PRICE, WATERHOLSE \& CO.
nond March, 1SSS.

## BRITISH MEDICAL ASSOCIATION．

## FIFTV－SIXTH ANNUAL MEETING．

Tire fifty－sixth Anntal Mecting of the British Medical Associntion will be held at Glasgow，on Tuesday，Wednesday，Thursday，and F＇riday，August 7th，sth， 9 th，and $10 t h, 1888$.

President：John T．Banks，M．D．，D．Sc．（Hon．），F．K．Q．C．I．I． Revins Professor of Physic in the Cuiversity of Dublin．
Irevilent－Elect：1＇rofessor W゙．T．Gairdner，M．D．，LL．D．，Professor of Medicine in the University or Glasgow：
Presidert of the Council：Thomas Bridgwater，M．B．，J．l＇．，IIar－ row－on－t he－Itill．

Treasurer：Constantine LJolman，M．D．，J．P．，Reigate．
An Address in Medicine will be delivered by Thomas Clifford Allbutt，M．D．，Consulting llhysician，Leeds General Infirmary．

An Addres in Surgery will be delivered by Sir George II．B． Macleorl，M1．D．，Surgeon in Ordinary to Her Majesty in Scotland．
A Special Aldress on his＂Iecent Investigations in Surgery＂ will be given ly William Macewen，M．D．，Lecturer on Clinical Sur－ gery，Ghasgow Royal lufirmary．

An Aldress in Physioiogy mill be delivered by John Gray Mekendrick，M．D．，LL．D．，F．R．S．，I＇rofessor of Institutes of Medi－ cine，University of Glasgow．

A．Medicine．－Provident，T．McCall Inderson，M．D．Vice－Pre－ sidents，W．L．Bowles，M．D．；Genrge F．Duffer，M．D．Honorary Secretarics，J．McGregor Rohertson，M．D．，400，Great Western Road， Glasgow ；Folert M．Simon，M．D．，27，Newhall Street，Birming－ ham．

B．Sẗncirs．－President，George Buchanan，M．D．Tice－Presi－ dente，James Dunlop，3．D．；Charles Robert Bell Keetley，F．R．C．S． Honorary Secretaries，David Neilson Kinox，M．B．，B，India Street， Glasgnw：Walter I＇ye，F＇R．C．S．，4，Sackville Street，l＇iccadilly， Londnn，W

C．Obstetric Medicine．－President，Thomas More Madden， 11．D．Jice－Presidents，William Leishman，M．D．；J．IIalliday Crom，3．D．Honorary Secretaries，William Walter，M．D．，20，St． Jnhn Streeq，Mancheeter；W．L．Reid，M．D．，7，Royal Crescent， Glascrow．

I）．1＇ubic Medicise－－President，Ilenry＂Duncan Littlejohn， M．D．Fice－Presidents，James Christic，M．D．；D．Fage，M．D，Mono－ rary Sceretaries，Ebenezer Duncan，JL．D．，4，Royal Crescent，Cross－ hill，Glasgow ；Iohn C．MCVail，M．D．，Holmhead，Kilmarnock．

1：I＇sychologx：－Presillent，James C．Howden，M．D．Ficc－Pre－ sidmts，James liutherford，M．D．：Julius Mickle，M．D．Honorrery Secretaries，A．R．Lrquhart，M．D．，Mlurray House，Perth；Alex． Liewington， $11 . D$. ，Ticehurst，Sussex．
$1 \%$ Anatomy asd l＇mysiologr：－president，John Cleland，M．D． LI．D．，F．R．S．Tiec－Presidents，R．J．Anderson，N1．D．；Menry Ed－ ward Clark，F．F．l＇S．G．IInorary Secretaries，John Barlow，M．D．， 27．Elmbank Ćrescent，Glasgow；Charles Barrett Lockwond， F．Li．C．S．，19，Úpper Berkeley Street，Portman Square，W．
f．P＇atunlory：－President，Sir William Aitken，M．D．，Fi．k．S．， K．C．D．Tice－Presidenta，Alexander Davidson，M．D．：Joseph Coats，M．D．；Charles Roy，M．T．，F．R．S．Honmary Secretaries，G． Sims Woodhead，31．1．， 6 ；Marchhall C＇rescent，Edinburgh；J．Lind－ say Steven，M．D．，34，lierkeley Terrace，Glasgow．

II．Dhhthabalogy．－President．Tlomas Reid，M．D．Tice－Pro－ sulents，I．R．Wolfe，M．I．：C．E．（ilasentt．M．D．MImmary Secre－ faries，Henry leendelack Ilewetson，M．R．C．S．，11，Hanover Square， Leets；A．Freelant Fergus，M．13．，41，Embank Strmet，Ghasgow．
 John fatley Bloxam，F．R．C．S．：J．J．K．Buncanson，11．D．JImo－ rary secretaries，Johnston＂Mactic，N．W．，23．Ishton Terrace， （ilasgow：James Black，1゚．12．C．S．，16，W＇impole Street，London．

J．Dise．ispas of（＇mimonex．－President，Walter lintler Cheadle， 11．）．Tico－Jresidmfe，James Finlayon，M．D．；Ilenry Ashly\％，
 forl Plaee，Glasgow；W．Arhuthmet Lane，II．S．，F．R．C．S．，14，St． Thomas＇s Strect，S．E．

K．P＇matementociv and Thimapettics．－President．James Morton，M．1，I ice－Previldente，John Dougall，M．D．；Theodore （Girla，M．J．，V．R．S．Henarary Secefaries，Mexander Napier，M．D．， S．Royal Terrace，Croshill，IAlasgow；Sidney Larris Cos Martin， M．D．．fon．Gower Street，London，W． ：$_{\text {：}}$

L．Ifarynsolony Asd Rhinology．－President，Felix Semon， M．D．Jice－1＇residenta，George Munter Macknnzie，MID．；Peter

Meßride，M．D．Honoray Secretaries，D．Newman，M．D．，18，Wood－ side Place，Glasgow ；A．E．Garrod，M．D．， 9 ，Chandos Street，Cayen． dish Square．

Hemorary Local Sccretaries，John G．Mchentrick，M．D．，F．R．S． 4．5，West bourne（iardens，Gilasgow：James Christie，M．D．，Hillhead Glasgow；dolm Glaister，M．D．，4，Grafton l＇lace，Glasgow．

Programme of Proceedisgs．
TUEsdAT，Angust The 1888.
9.30 A．m．－Meeting of 1887 －184s Council．
11.30 1．M．－First General Meetling．Report of Commell．Teports Committees．Service in the Cathedral．
8.30 p．ar．－Adjourned General Meeting from 11.30 A．．M，I＇resldent Address．
Weparapar，Aucives 8th， 1888.
ת．3n A．M．－Meeting of 1888.89 Council．
10.30 A．ss．to 2 P．m．－Sectimal Meetings．

3 par－Second General Meeting．Address in Nedleme
Thomas Clifford Allhutt，M．D．，F．R．S．
Thu＇ustar，AUGTST 9TE， 1888.
0.30 A．3r－Address on his liecent Surgical Investlgations 1 William Macewen，M．D．
Il A．M．－Meeting of Councll．

3 p．M．－Third General Mpeting．MAत，
§ P．M．－Public Dinner．
Fridar，Acoces 10ti，1888，
10.30 A．M． 10 I． 30 P．M．－Seetional Meetings．

3 p．M．－Coneluding General Mecting．Aidress in Physiolog by John G．Mekendritk．Mi．D．，F．B．S．
safurday，Augest 1Ith， 1858.
Excursions．
April 18th， 1888. Francis Fowies，General Secretary．

# SPECIAL CORRESPONDENCE． 

## PARIS．

［FROM OUR OWN CORRESPONDENT．］
Test for Hydrochloric Acid in the Gastric Secretron．－Eryther phlucin．－Elcetricity of the Human Body．－Telepathic Teme dies．－Oride of Zinc in Infantile Diarrhea．－Contagious Phel monia in Pigs．－Antipyrin in Labour．－Tielation of Eiysipelt to Puerperal Fever．－Diphtheria in Man＇and Animals．－ Treatment of Gunshot Hounds of the Abdonnen．一An Ambulan． Service for Paris．
At a meeting of the Academy on January 17th，Professon（a．S communirated the results which he had obtained hy the use， Gunsburg＇s test for hydrochloric acid in the gastric scerction dyspeptic patients by means of a solution of phloroglycine rani line．In order to obtain the secrotion M．See gives the batic！ hard boiled white of egg and a glass of water．An hont later extracts a portion of what the stomach contains，and examines with the reagent just mentioned．In certain cases he perceives an colouring，which proves the presence of an inorganic acid，whit M．Sée says is chlorhydric acid．M1．Faucher，who has repati M．Seces experiments，finds that the test is an extremely delica one；in the presence of sulphuric acid，nitric acid，hydrochlor acid，etc．，it produced a red colouring，while inorganic aci－ chemicalty pure，such is lactic acid，tartaric acid，etc．．，product no effect．M．Fancher then took eggs of rarions degrees of fres ness，and after having them boiled harl he took an cqual weip of their whites，and friturated them with a given weight of dil tilled water．He then triel the rengent（phloroglycine vanill upon the liquids sepmatatel．The new－laid egg showed no defini reaction：the eggy five days old hecame rose－coloured；three eg of donhtful freshess gave an intense dark rel colour；in shol the intensity of the reaction was in proportion to the al of the egg．which is explained by the increasing quantity of st phuric acid．It has also been proved that a drop of sulphurett lydrogen，prepared ly the help of well purified gns，phosphate soda，and trilhasic phosphate of lime also produced a red colou ing．These experiments have heen frequently repeated，ut always with the same results．11．Fancher therefore conchan that it is impossible to prove the presence of lydrochloric acid the products of digestion ly the use of phloraglycine vanilla．
Dr．Trousseau has made＇some experiments with erythroplale with the following results．After from five to ten minutes the was complete aniesthesia of the cornea，not extending to t conjunctiva or to the cyelids．hut limited to the transpare conjunctiva or to the eyelids，hit limitrd to the trams hat
membrane；its duration variell from half an hour on hat

Tromsseau performed the operation for cataract on three ients after injecting erythrophlocin. There was no pain, hat cornea remained clonded for some time after the operation. a cornea remained clouited ad no effect. On the whole he finds it erythrophloein has less effect on the conjnnetira than aine, and that it is a much less powerful local anæsthetic.
If. Charles Péré publishes in the Compte Iiendu des Séances de Societé de Biologze for January 20th, 1888, some interesting rerks on the eleetricity of the human hody. It is well known it certain individuals become charged with electricity in dry, d weather, especially in hard frost. Sparks or flashes of light ape, especially from the hair when combed, with a dry crack-
g sound. M. Veré relates the following ease, which came under own notice some years ago. Madame $\mathbf{X}$., of a neurotic stock, ongst other tronbles suffered Irom nervous anorexia, which had ted since childhood. She had (at least temporarily) ovarian peresthesia on the left side, and sensory aniesthesia on the same

When a hout 15 sle noticell erepitation in her hair in frosty ather, and flashes of light in the dark. At the age of 27 this ctricity manifested itself with greater intensity. Madame X's
ers attracted light bodies, such as fragments of paper, ribbon,
Her hair not only gave forth sparks, but became rebeilious
Her hair not only gave Forth sparks, but becawe rebelious
difficult to keep smooth. When her clothes touched her body luminous crepitation was produced, and her clothes adhered to e body. The luminous crepitation was increased by friction,
by prr by pressing the comb repeatedly through her lair. Under the
luence of moral emotions, also, the electric tension and the inifestations morreased. After Madame $\mathbf{X}$. had been listening to sic the crepitation was highly exaggerated, and a disagreele pricking sensation was felt, especially in the legs. In 1834 idame X . had cedema of the legs; her skin became so dry that chapped on the least exposure to cold, even in the parts of the缺 not affected ly the adema. 11. Féré ordered her to wear $k$ clothes, and to powder her skin with lycopodium, in order to derate the electric phenomena. He also prescribed daily baths static electricity. Since this treatment has been pursued $r$ health has been better, although the electric phenomena re persisted. Hadame X. has a son eleven years of age who three years has suffered from nerrous anorexia, hysterica] enomena, excessive sensibility of the left testicle, left hemiiesthesia, spinal pains, hyperesthesia of the scalp, and dyesesia of the sole of the foot. For the last few months he has his mother. Eramined with the aid of a hygrometer, both prented extreme dryness of the skin, especially on the left side. te electrometer showed that Madame $\mathbf{X}$. produced a slight deviaon to the right, which was increased when the left hand was in ntact with the apparatus ( 75 to 100 volts). After friction of the mads, both patients caused a deriation to the right-the mother 10 volts, and the son 500 volts. Under the influence of perireral stimulation, a deriation to the right ( 125 volts) was eansed Madame X. when she looked through a blue glass. The deation reached 700 volts when a bottle of ether was held near the itient. M. Pere thinks that the existence of these electric phemena may gire the key to phenomena of transfer, polarisation, ectric sensilility, and the effect of certain substances at a stance.
11. Dujardin-Beanmetz's report, on behalf of the commission pointed by the Academy to incestigate 11 . Luys's observaons on the therapeutic effects of telepathic remedies on spuotised patients effectively disposes of all the fanciful tions that have been entertained on this matter. The commison found that empty tubes had more effect on the patients than lose filled with active substances, and the same drugs conld be ade to produce diametrically opposite effects when tested on the me patient at intervals of a few days. The report proves the H! y of putting faith in any phenomena caused by the unconious freaks of "hysterical " patients.
3. Dupres stated at the Société Medicale de keins that oxide of ne is by far the most effectual remedy in infantile diarrhaa. It rould be prepared as follows:-13 Sublimised oxide of zinc, 3.50 ranmes; bicarbonate of soda, 1.50 grammes: tincture of krameria, J drops ; plain syrup, 30 drops. A teaspoonful of this preparation l given every half hour until romiting and diarchea have ceased. he first teaspoonful stops the romiting, and the third or fourth ae diarrhoea. In the few cases in which this treatment fails in atirely checking the disease, it gives great relicf and prevents omplications. From 1884234 cases, all of which occurred during he months of July, August, and September, were treated by
oxide of zinc, and among these only eight deaths were registered, the death-rate being thus only 4.7 per 100 .
At a recent meeting of the Académie des Sciences, an essay ly M1. Fouque (of Marseilles) on the development and progress of contagious pneumonia in pigs in the South of France was read. The following is a summary of its conclusions:-1. That the epidemic of contagious pneumonia which lroke ont in 1887, and in a few months caused the death of more than 20,000 plgs in the Bouches du Rhône department alone, was imported by Algerian pigs from the province of Oran. 2. That young pigs, from eight to nine months old, English (Yorkshire and Berkshire) as well as Russian and Marseilles mixed breed, are more exposed to the contagion of that distemper than the African and fat pork. 3. That
fifty fifty young pigs, from two to three months old, from the Haute Garonne, were removed to Gignac abont two mouths ago, and placed in a badly disinfeeted pen. They have remained in good health, while more than one hundred cases of paeumonia immunitracted in the same sty. 4. The cause of this natural whinnity from distemper presented by the Hante Garome pigs, years ago, to Algerian sheep against bacterian anthrax, is being inquired into.
At a meeting of the Académie de Médecine on March 13tlı a letter was read from M. Queirel (of Marseiles), on the nse of antipyrin in labour. He gave subentaneous injections of twentyfive centigrammes to twenty patients. The head presented in all the cases. Fifteen out of the twenty had perfect anest hesia, and seem to interfere in any way with the normal course of the labour.
At the same meeting a communication from Dr. Doyen, of Rheims, was read on the affinity of erysipelas and puerperal fever.
Dr. Doyen puerperal ferer, a streptococcus similar to the streptocaces of Hosenbach and the streptococcus of Fehleisen, the streptococcus pyogenes, and the streptocoecus anreus. The cultivations of this microbe are similar to those of the streptococcus of erysipelas, the streptococcus pyogenes, and the streptococcus aureus. II. Doyen made some inoculations, in order to determine the relationship of these streptococci. The streptococcus of puerperal fever caused erysipelas, and the streptococcus of erysipelas developed puerperal ferer. A number of clinical facts also demonstrate the analogy of these affections, and prove that the streptococcus pyoof puerperal fever may canse erysipelas. Dr. Doyen belieres that the microbe of puerperal fever is the same as that of erysipelas.

1. Paulinis published an interesting article in the Bulletin Medical of January ?2ud, on the relation of human diphtheria to that of domestic birds. In 1878 and 1879 Nicati, of Marseilles, observed facts tending to prore that diphtheria can be conveyed
from from fowls to children. Mlegnin, supported by numerous eases of non-contagion and microscopic examinations, denied the identity of the two affections. Since then bacteriology has made diphtheritic false memost identical bacili have been found in the the transmission of the disease from the one to the other hins been wanting. In 1881 M. Menziès published an essay on diphtheria, in which he maintains that the disease is caused by the excrements of birds. He cites a case of diphtheria which came under his notice at Posilippo, near Naples. Four children in one family were
attacked attacked by diphtheria, and died. M. Menziès attributes the epi-
demic, which spread among the inhabite houses, to the patients hany the drunk the water from a well into which the excrements of numerous fowls and pigeons hat into washed by the rain. 111 who had drunk the water were attacten and the brother of the four children ahove mentioned escaped, hecause he nerer drank the water. Dr. Paulinis relates an epidemic in the little island of Skiatos, of which the climate is very salubrious, and where, until 1884, diphtheria had never been known. In June, 1854, Dr. Paulinis was ealled in to a little girl Who had been ill four days. She was fererish, and had sore throat and dysphagia. False membrane was noticed on the ton-
sils, extending towards the pharyux. The girl died on ing day. The same day Dr. Panlinis was called in to three houses in the same quarter of the town to sick children. The seren children were ill with diplitheria, and five died. As they were all ill at the same time, it could not be supposed that diphtheritic rirus had been transmitted from one to the other. The epidemic spread amongst the inhabitants of the town; it lasted firb
months, and, out of the 125 atfacked by it, 36 died. At tho beginning of the epidemic. Dr. l'aulinis was informed that pome turkeys, which had been brought over from Salanica, were ill in a garden belonging to their owner, to the north of the town. T'wo were ill when landed, and died in the garden after three days? illuess. The others fell ill, and. when examined by Dr. Taulinis, presented all the symptoms of human diphtheria. The north wind, which blows periodieally in the island, passed over the garden to the neighbouring houses. The temperature ( $20^{\circ} \mathrm{C}$.) at that time of year facilitated tho deyolopment of the diphtheritie rims, which was conveyed by the wind to the neighbouring quarter, where the first, vietim of the cisense actually lived. From these faets Dr. Paulinis draws the following conclasions: I. That turkeys are subject to a kind of diphtheria resembling that of human beings in its symptoms, evolution, and reverity. 2 . That its virus can be transmitted by the atmosphere to man, give him the disease, and develop an epidemic. Furthermore, when the epidemic whas over, germs of diphtheria remained in the island, which from time to time becaune developed, like those of erysipelas, carbuncle, puerperal fever, aud tetauus. Diphtheria is now endemic in the island, which before whis totally free from this disease. Dr. Delthil, of Nogent, publishes, in the Journal de Medecine, the following remarks ou the affinity of human diphtheria with that of animals: The different theories regarding the transmissibility of the affection and its principal agents are as follows. 1. Some autborities believe that the inlaatation of the surrounding atmosphere is the only means of infection. 2. Others, admitting that the air is the chief agent of transmission, believe in direct contagion, either by the npplieation of a surface denuded of its epithelial layer to a diphtheritic centre, or inversely by applying diphtheritic matter to $n$ part deprived of its integumentary covering. 3. A few authors affirm that contagion is possible at a distance without direct contact. Dr. Delthil himself transmitted the disease from a person in l'aris to a patient at Nogent. 4. For the last few years a certain number of anthorities have made observations tending to prove that the diphtheria of human beings and that of animals is identical, and may be transmitted from one to the other. Trendelenburg inoculated sixty-six rabbits after tracheotomy, introducing diphtheritie false membrane into the trachea; eleven eases resulted in death from diphtheria. He afterwards performed tracheotomy on other rabbits, and introduced foreign bodies, skin, india-rubliber, etc., into the trachen; no eases of diphtheria resulted. Oertel introduced into the trachea of twelve rabbits, after tracheotomy, fragments of diphtheritie exudations; five rabbits died after the development of false membranes. Zahn, Gerhardt, Labadie-Lagrave, and Francotte made experiments on rabbits, all tending to prove that, human diphtheria may be transmitted to animals. On the other band, many high authorities, such as Trousseau, Raymal. Bouley, etc., opposed this doetrine. Loeftler and Cornil found in the diphtheritic exuclations of birds micrococci very similar to those found in the false membranes of human beings; the discovery did not, however, convinoe them of the identity of fowl and human diphtheria. It mnst be remembered that, in order to oltain a perfect result, the place chosen must be acid, iu order to aid diphtheritic profiferation; the time between making the wound and inoculation must be long enough to allow of the neeessary fermentatire inflammation; and the diphtheritic matter must be applied to an extensive wound. Ur. Delthil coneludes, from many cases attended by lim, that the frequency of diplitheritic affections in and near Paris is owing to the prekenco of badly kept poultry ;ards:
The Congris Français, to Chirurgie diseussed on Tuesdny, Marela 13th, the treatment of gunshot wounds of the viscera. Slost of the communications related to wonnds of the ablowen. M. Chaurel maintained that it is necessary to intervene in all eases on account of the clangers of fiecal extravasntion and septic peritonitis. M, Reclus rephed that intestinal perforations are wot nearly so grave as M. Chausel supposes, nul that lapinotomy is not so infallibly efficacious as, M. Chauvel says. M. Reclus has ohserved, in experiments made on dogs, a great many perforations, which were cured without the least intestinal trouble: ILe concludes that men have heen crred also in many cases where perforation whe iulicated by hactnatemesis and melana. These experiments with dogs were far from eonvincing IIM. Chauvel and Trelat. M, Chauve printed out that no comparison could be made between the dogs which were purged anit gorged with opinu before being woundled and soldiers whose stomachs and intestines were full. JI. Trolat remarked that the intestine and stomach are quite different in a human being and a
dog. Besides, after peritonitis has declared itself, there is no hopel of operating suecessfully. The surgeon must operute without loss of time in cases of hemorrhage or feceal extravasation.

It is amnounced that ambulances aro to be establisheed for use in the eity of Paris itself. The idea was started by Il. Nachtel. Special telephones will connect the St. Louis llospital with chemists and police stations in tweuty-seren different quarters of Paris; an ambulance wagon is to be kept always ready to start from the St, Louis Hospital; on the alarm being given ly the telephone it will set oft with a house-surgeon to the scene of nceident. Help will this be fortheoming in teu minutes at poe It is hoped that this method of giving succour will prove Uffeetual that the citizens of Paris may later un be indueed provide funds for its maintenanee.

## VIENNA.

[FROM OUR OWN CORRESPONDENT.]
A Case of Laparotomy.-Tubercular Disease of the Ear.
Ar a recent meeting of the Imperial Royal Society of Physicians of Vienna, Professor von Dittel related a case in which he had re cently performed laparotomy on a woman aged 24 , who had surf fered from aeute cystitis for two yenrs. In the autumn of las year the patient for the first time noticel bloed in her urine, and a swelling developed above Poupart's ligament on the right side Examination rerealed a tumour nbout the size of a man's list, and clozely resembling a kidney in shape. Hematuria was also pre sent at the time, but it could not be decided whether the blood came from the bladder or the kidney. The diagnosis whicl seemed most probable was that of morable lidney, the h:emar
rhage being supposed to be due to torsion of the reual pedich rhage being supposed to be due to torsion of the reual pedicle
Laparotomy whas resorted to; the swelling was found to
ri covered by omentum, whieh contained many dilatel veins. . Thi was detached, and the rosy colour of the capsule of the tumoul at once showed that it was not a kidney, In the meanwhile, an before the operation was cumpleted, the patient was attackec with severe syncope, and died in spite of repeated and long. continued artificial respiration. The operation lasted abou three-quarters of an hour, and not. more than 10 grammes
chlorofornu were nsed. Dr. Zemann then described the result chloroform were used. Dr. Zemann then described the result o
the past-mortem examination. On raising the epiploün, a tumiou became visilile, from which a cord was prolonged towards fundus of the stomach. This tumour was the spleen, enlarged th eight times its normal gize. The bladder was smalr and thick
ened; the surrounding tissue was very tough. The right kidne? was almost entirely destroved, owing to pyelo-nephritis, and thi left one was in a condition of adranced amploid degenera tion, so that the patient in any case could have lived only for short time.. I'rofessor von Dittel went on to point out that the mis take in diagmosis was due to the faet that movable kidneys wern met with very frequently, whereas movahle spleens were observe only very rarely; moreover. movable spleens were, according Rokitansky, who had described three such cases, always situate on the left side; in the present case, however, it was found on th right side. Professor Kundrat mentioned other eases of movalh spleen with twisted pediele, and satid that in all cases of morabl spleen this organ was to be found on the right side.
Dr. Habermann recently made a communication on tubercula disease of the ear to the Verein Deutscher Aerzte of Pragut He had seen eighteen patients nffected with tuberculosis wh sufferel from hardness of hearing and otorrhea. In nine these cases he detected the presence of tuberculosis of nuditory apparatus; in seven, purulent otitis media; and in catarrhal swelling of the mueous membrane of the midille ear wa present. Ile described two of these cases in detail. In a cliile aged $1 \frac{1}{2}$ year, there was tuberculosis of the mucous membrane o the middle ear, begioning at the isthmus tubx and reaching a far as the antrum mastoideum. There wis no perforation of membrna tympani. This case was remarkable on necount the localisation of the affection. Various parts of the murou membrane of the middle ear were found to be affected wit tuberculosis, and evidence was thus given of the spread the disease in the middle ear by infection from contact The posibility of infection of the ear taking pluce through the Fustachian taibe was, hy such oliserrations, rendered more 1 mols able. Jy way of illustrating infection by contact in such case Dr. Habermann slowed the membramn tympini of a man, age 31, which presented a large perforation at, the anterior part, an three small perforations at the posterior one; the latter were du

SWITZERLAND.
[PROM OLR OWN CORRESPONDEST.]
Menthol in Surgical Practice-Menthol in Anorexia.-Mydrofluoric Acil in Pulmonary Phthisis.-Cocaine in Sea-Sickness.Saline Transfusion in Acute Ancemia. - "Spontaneous Resection" of the Sinall Bowel.-A Bit of Family Medicine.- Dental Inspection at the Aarau Cantonal Schoal.- Winter SwimmingBaths for School Children at Zurich and Berne: Professor Adolf Togt and School Ilygiene at Bernc.
At a meeting of the Medicinisch Plarmaceutischer Dezirksverein von Bern, Ir. Girard read a paper on the use of menthol in surgical practice. Good results obtained lately by some practitioners from the internal administration of the drug in pulmonary tuberculosis had induced the author to try a mixture of equal parts of menthol and iodoform, in the form of a dry powder, in fourteen cases of scraping out and resection of tuberculous bones and soft parts, the wound being either rubbed or plugged with the powder. In every instance the wound healed more rapidly and kindly, and generally the whole course of the case seemed to be more favourable than in another series of similar cases where iodoform alone was employed. As far as Dr. Girard's personal experience goes, menthol causes but tritling local irritation and pain, while it is said to be the best deodoriser in regard to iodoform.
During a discussion on Dr. Girard's paper, Dr. de Giacomi stated that he had employed a 20 per cent solution of menthol in a case of lupus of the ear with most satisfactory results. On the other hand, Dr. de Giacomi was disappointed with the internal administration of menthol in one-gramme doses as a remedy for anorexia. The latter observation was endorsed by Dr. Daettwyler, who gare the drug in daily doses varying from three to five grammes in several cases of anorexia, the remedy causing nausea instead of improving appetite.

As is known, some time ago Drs. Seiler and Garcin published a remarkable paper on the treatment of pulmonary tuberculosis by, inhalation of hydrofluoric acid. According to theirstatements, out of 100 patients under their care who were treated by, this method, as many as 35 were cured, and 41 showed a more or less considerable improvement, while It remained unbenefited, and 10 died. In farourable cases the authors observed a very rapid improvement both in point of appetite and sleep, and a marked diminunution of fever, night-sweata, and dyspucea, while expectoration became scanty and less viscid, the tuberele bacilli gradually disappearing. Being struck with these results, Dr. de Giacomi, of Berne (Correspondenz-Blatt fïr Schuceizer Aerzte, March 1st, 1888, p. 142$)$, proceeded without delay to test the treatment in eight arlvanced cases of his own. He simplitied the Seiler-Garcin method in so far that a mixtare of 100 grammes of fluoric liydrogen with 300 grammes of water was heated in an open leaden vessel by means of a spirit-lamp. The patients, sat around the vessel and inhaled the rapours for an hour daily. Dr. de Giaeomi's experience was not so farourable as that of the French observers. In six of the eight patients the result was absolutely negarive ; in a seventh some temporary improvement of appetite and decreasie of dyspuca were observed; in the remaining casa a striking relief of all symptoms ensued after the very first sitting. The author, however, reasonably enough, hesitates to attribute such an extraorlinary and sudden ehange, to the treatment employed; the improvement might have been purely accidental. At all events, he thinks that the method deserves a further and more extensive trial. The inhalation does not causo any discomfort to the patient. The only drawback which he mentions is that windowpanes gradually become opaque under the influence of hydrofluoric vapours, As the acid has a violent canstic action on the skin, Dr. de Giacomi recommends the utmost caution in maaipulations with the solution, Dr. Collon empluyed the method in two cases of adranced tuberculosis with high fever and extreme emaciation and did not see any grod beyond some amelioration in respect of sletp.
Dr. Dafour, of Lausanne, says that, while suffering from seasickuess, he successfully employed cocaine in doses of one decigramme every half hour. Drs. Rogivie and Dendeville obtained Fery satisfactory results even with doses tive or ten times smaller.
In the Regue Médicale de la Suisse Romande, January, 1888, p. 40, Dr. C. Morel, of Lahsaune, records a successful case of scute hasmia treated by the transfusion of a saline solution. The patient, a woman, aged 39 , when in the fifth month of her eleyenth
pregnancy, fell ill with violent gastritis, nssociated with high lever ( $40.5^{\circ}$ C). The latter soon caused abortion, followed by profuse uterine harmorrhage and uncontrollable vomiting. Ergot and stimulants were returned immedintely nfter bering swallowed. The woman's state rapidly growing worse, one litre and a half of a snline solution (a 6 per cent. solution of common kitchen salt in distilled water, heated to $33^{\circ} \mathrm{C}$.) was injected into the centrnl portion of the left median cephalic vein. The apparatus consisted of a simple glass ressel, to which a piece of indin-rubber tubing, with a netal cannula, was attached. The improvement was immediate. The pulse, which had been irregular and almost imperceptible before the operation, became stronger and stendier during the transfusion. Referring to l'rofessor Demitry Ott's resenrches (see London Medical Record, Fehmary, 1886, p. 60-76), and to numerous similar successful cases puhlished during the last four yeurs, Ir. Morel expresses a hope that the transfusion of saline thuids will gradually supersede that of blood, which is far more dangerous nud less advantagenus than the former (see also the Jormal. September 25th. 1886, p. G01).
At a nueeting of the Société Vnudoise de Médecine, Dr. Krafft communicated an interesting case of "spontaneous resection" of the small intestine. The patient, aged 28, was admitted on account of chronic tulerculous ostitis of the head of the tibia. Some time after his ndmission he began to complain of agonising abdominal pain, and violent diarrhcea supervened, which persisted in spite of bismuth, opium, codeia, etc. Nothing abnormal could be made out on careful examination of the abdomen. Only nausea, hut no romiting, was present, while the motions remained free from blood and pus. Two days after the onset of the symptoms (the seventh dny aifter resection of the diseased kneejoint) there was found in the stools a complete piece of the intestinal tube mensuring sixty centimitres in length, with nll its three coats complete, but gangrenous at several points. The patient was very much exhausted after the evacuation of the slouglt, but his appetite remained good and the abdominal pain disappeared. The surgical wound, however, did not show any sign of healing. while abont the fifth day after the passing of the slough, acnte pyrexia came on, which induced Dr. Kiraftt, without further delay, to perform amputation of the thigh, some distance above the knce. This wound rapilly healed liy first intention. At the date of the report (nine days nfter the disclarge of the intestinal slough), the man's general state was good, the only morbid symptom being diarrhcen, with an occasional slight admixture of pus and blood.
An extraordinary instance of domestic medical practice was lately published by the Emmenthaler Volksblatt (March 10th, 1888). An inhahitant of Coeuve, whose little daughter was suffering from lice, attempted a radical cure by pouring petrolenm over the unhappy child's head, and then lighting it. The cliild was in a hopeless state at the date of the paragraph quoted, and probally has died long ago from extensive burns.
According to the Berner Zeitung (March 14th, 1888) Professor Muehberg lins lately exnmined the teeth of 125 pupils of the Aarau Cantonal school (Kantonschule). The outcome of his investigation is by no means rery comforting. His interesting table shows that only 4 pupils had a perfectly sound set of teeth. In 37, though the full number was present, many of the teeth were alrealy more or less carions. In the remaining $8 t$ children the set wras incomplete, either from spontaneous falling out or owing to remoral for disease. The total number of teeth extracted up to the date of I 'rofessor Muehlberg's inspection was 204, that of the teeth found more or less diseased was 512 .
The Bund (March 16th, 1838) says that the Züricher IIygienischer Vercin has decided to establish a permanent winter swimming bath for school children. The bath, which will be opened in the course of next autumn, will be the second of its kind in Switzerland. Tho first was established two years ago at Berne, by the local Society of Puhlic Hygiene and Social Aspirations, on the initiative of the indefatigable P'rofessor Adolf Yogt (see the Jotrnat, Jime 18th, 1887, p. 1359), who is always sure to be at the head of every movement promoting the health and comfort of the community. The Bernese children are indebted to his energetic agitation for their having obtained last winter a gratuitous skating rink at Holligen, arranged and kept up at the expense of the Commune (Gemeinde) and several District Aid Committees (Leeiste). About three years ago, on the initiative of the asme philanthropic professor, a Kinabenbund (Boys' Union) was organised, chiefly for the purpose of supplying the Berne schoolboys with a common playground, of a most suitable kind, and organising their games, etc., in the best way.

## GLASGOW.

[FROM OUR OWN CORRESPONDENT.]
Clasgow, University Council Association.-Glasgow and Ayrshire Missions to the Deaf and Dumb.-Port Glasgow Ambulance Class.-The Measles Epitlemic in Port Glasgou.-Glasgow Crnicersity Extension Board.
THe annual general meeting of the Glasgow University Couacil Associntion was held on April 19th in Glasgow. In a letter of apology for absence, Mr. J. G. Baird, M.P., snid regarded the affliation clauses as among the most important in the Bill, and he hoped the Association would afflem the general principle of affilintion. The report contrasted the inadequate reform offered in the last Bill, which the Association resolutely opposed, with the much more thorough-going character of the new proposals. The committee of the Association beliered that the bill was in all essentials rdequate to the ends of a great reform. In discnssing the constitution of the University Court, the Committee pointel ont that the number of members whin might be thought of as independent of academic party fell short of that representing the Senate, instead of being, as it onglit
rather to have been, if uncqual at all, in excess. It was objected, rather to have been, if uncqual at all, in excess. It was objected,
also, that the assessor nominated by the Chancellor might be in the future, as he had always been in the past, a person suggested by the Senate, and apt to be guided by its influence, and that the nssessors nominated by the Crown might be in the same position, unless it was explicitly enacted that they shonld be chosen from among the heads of local public bodies. In spite of such serious oljecetions, the Committee ndrised the Association to accept the conatitution ns it stands, in consideration of the whole scope of the Bill, provided no attempt was made by the Senate to alter the character of the Bill for the worse, from the Association's point of view. The provision for the Council electing an assessor every year was emphatically approved of, and the Committee extendeta similar approral to the provisions dealing with the powers of the Court, Senate, etc., observing that no porrer proposed to be conferred upon the Commissioners involved the possibility of greater or more beneflicial issues than the power to affitiate duly incorporated and endowed
俗 the Committee declared thiscussed St. Mungo's College Bill, and statements into consideration, they were of opinion that the case for the establishment of a college in the east end of the city was completely made out. They reserved judgment on the details of the Bill, but they approved in general of its provisions, as quite ia the line of the Association's aim. In reference to the whole question of the means of University extension provided for in the bill, the Committee expressed the opinion that "no previous Unirersities Bill has come near the present one in the breadth of view and the grasp of facts with wlich it npproaches the problem of reffrru." The Rev. Dr. Watt moved the adoption of the report as printed, with the addition of a paragraph which admitted that the provisions of the Bill seemed open to objection on the ground of their civing affiliated colleges or incorporated colleges a share in the direct administration of the original college, "hile the original college had npparently no share in their management. Dr. Wat expressed the opinion that the attack on the Bill would be de-
livered by the University authorities on the affinit asked the Associntion anthrorities on the affiliation clause, and would compel them to onpose the bill. The motion was seconded by the Rev. J. W. King. Professor Edward Caird moved the following nmendment: "That the whole section in the report $\pi^{-}$ lating to St. Mungo's College Bill should be deleted, and that the following words should be substituted: 'That this Association regrets the publication by the executive of a report which contains an approval of St. Mungo's College Bill, seeing that that seeing further that the bill is an attempt to anticipate the decision of the Commissioners as to the conditions on wlich colleges should be affilinted.'" I'rofessor Cnird took occasion to oljject strongly to the personal references made to him in the report, and to the tendency to represent him ns in nny way representing the views of the Senate. He pointed out that the paragraph io refrence to St. Mungo's College Bill committed the Association to a new principle, which did not fall under that adopted ly the Association last year. He objected to the Bill because it tried to nfflistion by general method of dealing with new college into nffliation by the Commissioners, and to force a new college ind
the University before the conditions of the new system-a $s$ stem
aich wes a new thing in Scotland, and which, in the exact form opoked, was not exemplified, in any other country-had been refully considered and impartially determined by the Commis; ners. IIc was not opposed to the adoption of a method by aich the teaching of the Royal Infirmary should be brought thin the system of the University. But he contended that the
ethouls and conditions of the alliation of colleges shauld be termined before any indivitual case was considered. Mr. Dyer conded the amendment. The discussion was engaged in among hers by Dr. McVail, who, in the course of his remarks, referred - the recent extraordinary, appointment by, the University urt of "an Fdinburgh graduate of two years' standing as an caminer in Medicine. On a division 55 yoted for the mation d 12 for the amendment. l'rofessor Caird then resigued his embership of the Association, and withdrew from the meeting. ibsequently it was unanimously agreed to petition Parliament farour of the Universities Bill, and the Committee was emiwered to take such steps in connection with the progress of the il throngh Parlinment as seemed expedient in furtherance of the yects of the Association.
By means of the Glasgow and Ayrshire Missions to the Deaf Dumb, 104 aflicted persons belonging to Glasgow and the est of Scotland hare been attended to during the past year. Of o tatal number aided, 5I were children, who were maintained d educated. The report of the Glasgow organisation states at not a poor deaf and dumb person had been left unattended. tuations had been secured for 41 , of whom 28 were men. The rrshire Mission lıad expended in its work nearly £600, and its tal receipts had been £\%33.
The ambulance class, taught by Dr. Crawford, of Port Glasgow, as examined on April 18th by Dr. Wallace Anderson, of Glasgow. sere were thirty-five members present, and at the close of the amination Dr. Anderson expressed his satisfaction with the prolency displayed, and congratulated Dr. Crawford on his success1 teaching.
The outbreak of measles in Port Glasgow is now on the decline. ae of the public schools has been closed for four weeks, nearly If of the scholars having been attacked. It las now, howerer, ten reopened.
A meeting of the Glasgow Unirersity Extension Board was held Glasgow on April 23rd, presided over by the Lord Prorost. ratification was expressed at the favourable reception which the tension scheme had met with from the press and the public, dit was intimated that tentative steps had been eutered upon
Paisley, Kilmarnock, Dumbarton, Ayr, Stirling, Ardrossan, and iltconts. An interim list of lectures was announced, in which, nong others, the names of Mr. Patrick Geddes and Mr. SomerHe appear as lecturers on Botany and Zoology; those of Drs. ate Mackay and Bruce Loung as lecturers on Anatomy; Drs. cGregor Robertson and William Snodgrass on Physiology: Dlr. - G. Henderson, li.Se., on Chemistry and Mineralogy; Mr. David orsyth, B.Sc., on Physiography; and Mr. J. H. F'ullarton, D.Sc., 1 Zoology and Cieology.

## LIVERPOOL.

## [FROM OUR OWN CORRESPONDENT.]

'he Registration of Plumbers.- Birkenhead Borough Hospital. -Orange-peel on the Streets.-Salt Water for vatering the Streets.
irm reference to the question of sanitary plumbing and the gistration of plumbers, it is true that, as stated in the OURNAI of April 2lst, the medical oflicer of health for this city rought the matter before the llealth Committec. Dr. G. Walter teeves, the medical officer of lealth for Toxteth, struck by the ict that Liserpool scemed to be behindhand in the subject, etermined first of all to bring it under the notico of the profeson, and also to make the morement known in other directions. 0 this end he has been working hard for sereral weeks past, ntil now a general interest appears to have been excited. On pril 12th Dr. Steeves delivered an admirable address at the iverpaol Medical Institution. IIe first of all gave a concise istory of the morement; next alluded to the steps that had een taken in other cities; and concluded by enumerating the zaditions under which plumbers are admitted to the Negister is the London Elumbers' Company, and mentioned the mode of orking of the "district councils." Dr. Steeves then moved the dowing resolution: "That the members of this institutiou are
strongly of opinion that an organised and efficient syatem of registration of plumbers should be put in force in Liverpool and district." This was seconded by Dr. Hope, the assistant medical officer of health to the city: It was also warmly supported by the l'resident, Dr. Carter, in a most able and telling spech, and by Dr. Ifarvey, the medical officer of health for Warertree, and being put to the mecting, was unanimously carried. The following mation was afterwards proposed, seconded, and carried: "That copies of the resolution be sent to the chairman of the Liverpool Healtl Committee, and also to the chairmen of the various local boards throughout the district." At the meeting of the Architectnral Society on April 16th, Dr. Vacher's paper proved an admirable pivot on which to hang a resolution. Accordingly, a resolution similar to the one passed at the medical meeting was put before this meeting also.

It the end of the last financial year the Birkenhead Borough Hospital was in debt to the extent of £200. A very successful ball was held on April 1Sth in the new town hall, and it is confidently expected that the surplus proceeds will be sufficient to clear off the debt.
Throwing orange-peel on the pavement is being dealt with sternly in St. Helen's. A Liverpool paper gave a full account of the action of the chief constable of that borough, suggesting that the same course should he taken here. This newspaper article has had the effect of setting a local antiquary to work. It appears that there is a very comprehensive local enactment on the subject, contained in the Liverpool Improvement Act of 1842 , Section 149. It is sincerely to be hoped that the magistrates will do their duty in the matter here, where accidents occur weekly from orange-peel, etc., lying on the pavements.

The corporation have taken definite action to arail themselves of a supply of water from the river in watering the streets.

## CORRESPONDENCE

## COMPULSORY NOTIFICATION OF INFECTIOLS DISEASES.

Sir,-I cannot allow Dr. Philpht's letter in the Journal of April 14th to pass unnoticed. He states that the facts which he gives "differ entirely from those related in Dr. Carpenter's letter." In this he seems to me mistaken, his facts being sapplementary, but not contradictory, to the facts giren by Dr. Carpenter. I hare carefully read Dr. Carpenter's letter, and "if for "town clerk" he substituted "Town Council," I do nat see that his statement of facts requires any modification.
I regret that any suggestion of personal feeling, as existing, or likely to arise, should have been made. The town clerk acted throughout with perfect courtesy and consideration, and with the medical officer of health I had no commnnication, either private or official, regarding the case in question. My difference is with the Town Council as a body, and has arisen solely because it seeks to exercise its powers under the Notification of Infections Diseases Act in a way that seems to me to be unfair and in a manner not intended when the Act was passed. The object of the Council in taking proceedings was apparently to coerce me into compliance with its mode of working the Act. In this it failed, and so gained nothing but, as Dr. Carpenter puts it, revenge.
Both the town clerk and medical officer of health were, I beheved, nnpleasantly surprised when they found I would not accept the terms offered, and that they had to carry on the procoed:
ings. Dr. Philpot is mistaken in supposiug that I relied on upsetting the proceedings on technical grounds, and I distinctly stated, after raising the question whether the death certificato was admissible as evidence (bearing, as it does, a distinct statement that
it is intended solely for the use of the registrar from the ited solely for the use of the registrar, and a caution other purpose whatever), that I was quite prepared to answer any
ond summons on other grounds. My answer was as follows:

1. That the Corporation did nat exercise its powers fairly and justly: the Act requiring dual notification, the Corporation ignoring those sections which relate to the infectious persons and medicalders, and only secking to obtain notification by the former. previous existence of scarlatina in his house, and that in this parprevious existence of scarlatina in his house, and that in this par-
the time when I first saw the patient, and about or quite as soon as I could myself hare given definite information as to the nature of the disense.
2. That as the Corporation is satisfied with one notification when given by the medical nttendunt, nnd aever in such case takes proceedings agninst the householder, so the Corporation ought in fairness to be satisfied with one notification when made by the homsehol!er, and not tabe proceedings against the medical attendant.
3. That the spirit of the Act haring been so fully complied with in this case, the Corporation had really no valid reason for setting the law in action.
The houselrolder had no less than three times informed "the sanitary authority of the existence of scarlatina in his house; twice when he applied for disinfection of rooms and bedding, and once in intentional, compliance with Section 1 of the Act. This latter notice, giren at my instigation, was not sent direct to the medical officer of health, but to the office of his subordinate officials, and, therefore, is called by Dr. Philpot informal; it no doubt was so, but this was simply from oversight. No record of it had been made, and the books of the sanitary anthority were so badly kept as to the entry of dates and other particulars that I could not establish from them, as 1 had expected to be able to do, several points, and more especially the fact that information reached the officials two days after I first sam the case, and that they disinfected the room the next day. Although I have refused to notify in the manner wished for by the Corporation, I hare frequently given information personally to the medical officer of bealth, and in most instances the occurrence of infectious disease amongst my patients has been made known to him in one way or another. Dr. Philpot made the statement in court that in his opinion the Act was working satisfactorily, and that I was the only practitioner in the borongh of Croydon tho failed to notify. After the thrent of proceedings was made, I asked some of the other practitioners what they did with regard to notification. Five, like myself, hahitunlly neglect to do so, nnd two who generally notify admitted that in some cases they did not. Such being the result of a very limited inqniry, I cannot hut think that a more extended one would show that in concentrating its attention on myself, the Corporation has heen struining at a grat and swallowing a camel.

The Corporation of Croydon has hitherto evaded the difficulty of getting its burgesses to notify infectious diseases, bint, as the public has been taught its duty as to the registration of births, and, more onerous still, its duty to report the amount of annual income, it would surely not he a hopeless task to try and teach it to report the occurrence of infectious disease. When the Corporation of Croydon honestly takes this task in hand, they will have my sympathy and co-operation.-I am, ctc.,
B. N. Dalton:

South Sorivood, April 17th, 1889.

Sir,-I would not trouble you on this subject had not Dr. Fhilpot, in the Jourisis of April Ith, endeavoured to justify the prosecation of Dr. Dalton for refusing to inform the Croydon sanitary authority of a case of scarlatina which had been attended by him.

Dr. Dalton deserves the thanks of the medical profession for his determined stand in refusing to be constituted a private detective and pullic informer, and he evidently is one who feels that whatever a medical man learns in the discharge of his private professional duties should be treated as private and confidential.

Dr. l'hilpot snys that the Act of Parlinment was "obtained with considerable trouble," and that they "were bound to take proceedings to enforce it." Is it not unfortunate that those who introduced the Act to Croydon did not experience even more trouble nnd fail in the attempt, and thus save Dr. Dalton the indignity of a prosecution? Some, years ago "considerable trouble" was also taken here to force the Act upon us, but a strong protest was made by the profession, which prevented such a calamity. One medieal man, who could not attend our meeting, wrote to me io say that, "rather thon be compelled to be informer, I would decline to attend a case of ferer;" and we fully endorsed his sentiments.

All intereaterl in the suliject would do well to read Dr. Alfred Carpenter's letter in the Jounnal of April 7th, in which he clearly gives a few rensons why a medical man should not be comprlled to gire information regarding his patients. Notice particularly objections 1 and !, page 707.

Most medical men recognise the importance of requiring the householder or person in charge to inform the sanitary authority of all eases of tever, and 1 never find much difficulty in getting my patients to gire the necessary information when such cases occur in their homes; indeed, they sometimes authorise me to do so for them. I then feel free to act.-I am, etc., T. M. Wills. Bootle, Liverpool, April I6th, 1888.

## SCARLATINA AND PUERPELAL SEPTICEMIA.

Sin,--1 very minh fear that the interesting discussion on this subject at the last meeting of the Obstetrical Society may tend to diminish the wholesome dread of carrying scarlet fever to lyingin patients which has hitherto so porrerfully influenced the conduct of obstetrical practitioners. That the infection of scarlatina is capable of producing a virulent form of septicæmia, generally unattended with local symptoms, I bave not the smallest doubt. In April, 1863. I was called in to see a case of this kind occurring in a primipara. She was attacked about five days after delivery, and on the day following her husband whs attacked with scarlet fever. Ile recovered very well, but she died after four days illness. Her case was a typical one of what nsed to be called malig. nant pnerperal fever. She had no rnsh of any kind, and no marked abdominal tenderness. We made a post-mortem examination, but found no uterine lesion and no sign of abdominal inflam mation ; but decomposition had set in most rapidly. In fact it was a case of blood-poisoning of the worst kind.

About fifteen years ago a medical practitioner (who has since left Bristol) called me in to a patient he had attended in her confinement ahout four days previonsly, but who whs attacked in a similar way to the case just mentioned, except that there was some abdominal tenderness. She died on the ninth day nliter delivery. About three days before she died her husband was attacked with scarlatina, but ultimately recovered, On making strict inquiry of the medical practitioner who attended her, he ncknowledged that at the time when the hushand came to fetcl him to his wife his own children were lying ill of scarlatina.
There can be no doulit that in each case the hushand and wift were infected from the same source-in the first instance, 1 be lieve, from a servant; and in the second from the medica attendant himself. I have secn many similar cases to these, but not of so well-markerl a character. We know that people whe bave once had scarlatina nre generally protected against a seconc attack, but yet that, if they are agnin exposed to infection, the? may get troublesome sore throats in consequence. In the sami way I beliese that a puerperal womnn who hus had scarlatint before may get a sufficient amount of the poison to induce fata septicemia-unnceompanied, however, with the rash or othe characteristic signs of scarlatina. The poison of scarlatina is o so subtle a character, and ereeps in through so many channel that ordinary untispptic treatment is of little avail against it. I fact, the louger 1 live and the more experience I gain, the mor determined I am to keep clear of searlntina in any shape or form -I am, ete.,

Josepi Griffiths Swayne.

## 74, Pembroke Road, Clifton, Bristol.

PERICHONDRITIS OF THE LARYKIN.
Sir,-In Dr. Norris Wolfenden's paper on Perichondritis of th Larynx, and in respect of the first case he mentions, he tell us that on November 1st the patient became suddenly Worsc and that on December 19th he coughed up a piece of bone. Woul it betrespassing too far on Dr. Wolfenden's goodness to ask hit -1. Where the bone is supposed to hare come from originally 2. How long it was in the larynx? 3. Is it not reasonable to sup pose that it (the bone) was the cause of the laryngeal trouble?am, ete.

Georae Stoker.
It, Ifertford Street, Fark Lane, W.

## DENTAL DEPARTMENTS OF IOSPITALS

Sir,-I was glad to see Mr. IIenry Sewill's letter on the suljec of my paper, in the Jounnal of April 14 th, and I quite agree with hil that there is no reason that ench Medical School should not evant ally include a Dental School. At the present time; howrever, I al recommending all dental students in go to the Dental llospital Leicester Square, for the reason that, as things stand, they ca obtain far better training there than we could offer them nt Guy But the two dental hospitals in London, as Mr. Sewill points ou, will soon be unnble to necept more students, nnd it will then b come necessary to found another special hospital, or underta) dental education at the medical schools. This desirable transf
onld be made easy by the immediate derelopment of the existing atal departments of our hospitals. I could mention numerous tropolitan general hospitals which applied for and received ,m the College of Surgeons recognition of their dental depart--nts as schools where students might obtain the two years' atal practice required from candidates for the I.D.S. diploma. e dental surgeons connected with these hospitals shonld feel and to do their best to approximate the calibre of their teach-and practice to the standard of the special hospitals. By blishing the impression that there is anything in dentistry that not be done and shown in a general hospital, we shall remove
chief impediment to the restoration of the specialty to its chief impediment to the restorat
nper edueational splere. -1 am , etc.,

## F. Newland Pedley, F.R.C.S. and L.D.S.

Jevonshire Place, Portland Place, W.
RINEAL CYSTOSCOPY; OR, TLIE CONJUNCTION OF THE NEW ELECTRIC CYSTOSCOPE WITH THE bOUTONNIERE OPERATION.
irr,-The Journal of April 7th contains a description by Mr. llter Whitehead of the first departure from the size and the ,jected use of the original incandescent lamp cystoscope (Jourt, February 4th). This consists in employing a No. 40 Freneh Iged instrument for the electric illumination of the urinary dder throngh a perineal incision, instead of a No. 22 gauge by : urethral route.
row, although Mr. Whitehead's innoration traverses the rery son dêtre of the electric cystoscope, the small size and adaptaity of which causes it to rank immediately before, and parlly to supersede, digital exploration of the bladder in the diaosis of obscure vesical disease, yet it is none the less valuable. en from a rery limited experience of this large-sized perineal itoscope, I may safely predict its utility in three directions.
In that elass of case in which digital exploration fails because finger cannot reach the bladder by reason of certain mechanical iltacles (vide Whitehead aud Pollard, Lancet, 1883, October Gth, 183). As an example, a case under Dittel of sacculated stone th enlarged prostate may be cited (Schustter Wien. Med. Woeh., 46, No. 13). The finger could not reacl the bladder through the ineal route, and the Nitze-Leiter cystoscope revealed the calcuin a divertieulum.
In eases of subvilloid papillomatous growth in the bladder (at is, a carpetting of the mulucous membrane with stunted jille like the pile of velvet), the exploring finger sometimes not possess sufficient tactile delieacy to detect the disease ich the perineal cystoscone would immediately reveal. This iss is well illustrated by a patient who came under the care of Iyes, of New York, after having had cystotomy twice previously Iformed without the diseorery of an existent subvilloid conion (Journal of Genito-Ürinary Diseases, July, 1887, p. 247).
To regulate the complete removal of vesical growt hs by the lineal route, just as a dentist would control the hurring of a 'ious tooth by means of a mirror preparatory to stripingr it. m, etc.,
E. ILuriy Fenwick.

Md Burlington Street.

## NAVAL AND MILITARY MEDICAL SE JVICEC.

the estimites committee.
Kxox, the able and impartial Accountant-Gieneral, underwent ss-examination before the Estimates Committee a few days ago Vote 4 , "Medical Fstablishments." In reply to 31 r. Brodrick said that while it was a " moot point" whether it was neces$y$ to giye medical officers Cl a day retirement after twenty 'irs' service, "it was a bargain with the medieal profession in "ler to get competent men to serve in the army."
Mhis is a plain fact well known to all the War Office permanent cials; and as a bargain is a bargain all the world over it must honourably adhered to. To another question by Mr. Fowler 1) prudently refrained from committing himself to the suggestion hit "the whole (medical) expenditure is on too high a seale, and flld be rellueed without impairing the efliciency;" he simply d, that while the number of officers employed does appear 1 ge, "they have multifarious duties to perform, and abroad it is leessary to bo prepared for emergencies." Mr. Knox here clearly iognises another plain faet, that medieal attendance on the sick
is but a part of a multitude of military duties and responsibilities which devolve upon the army medical officer.
Mr. Knox so far was on safe ground, but when closely pressed by Mr. Fowler on the question, "As permanent financial head of the department (Accountant-General), in the publie interest do you think this branch (medical) of the service conld be managed more economicalls?" he replied, "I think the number of medical officers certainly might be reduced." This was probably the answer such a stern coonomist as Mr. Fowler wanted to extract, but we fear it is an admission Mr. Knox will have some difficulty in demonstrating. Mere reduction of numbers is a very rough and ready method of practising economy in a public department, but it too often leads to lavish expenditure afterwards. How does Mr. Knox propose to meet "emergencies abroad" and carry on the "multifarious duties" everywhere with a diminished Medical Staff? We are presuming that up to this hour the responsible advisers of the War Office hare not needlessly kept up a rednndant number of medical officers. It would be possible no doubt by making medical officers do double work, and by increasing their spells of foreign service, to diminisll their numbers; but that wonld not meet such "emergencies" as the sudden molilisation of an army corps, or of even a division or tro to carry on some of our small wars in unhealthy countries.
We fear that Mr. Knox, able as he is, is not in a position to be oracular on such a purely military question as the organisation of an army corps, or the medieal necessities of our world-spread army ; these are hardly questions for a civilian to determine.
We notice that Mr. Forrler embalms in his question that now venerable phrase of the Manchester school of economists "the public interest," as against an army, or nary, or civil service interest. As if there could in these days be any such divided interests in the nation! 1t is vital to the "public interest" that the public services should be maintained in $\epsilon$ flieiency; there can be no antagonism; mere blind economy is often direetly against the "public interest."

## CLASS BLACKBALLING.

Sir,--The following notice has been put up at the Junior United Service Club, Cuarles Street, St. James's.
"Notice is hereby given that an extraordinary general mecting of the Club will be held on Monday, ith May, 1888, at 2.30 p.as., to consider the following motion of the Committee: "That the undermentioned candidates, who were rejeeted at the ballot on Tth instant, being in every way eligible, and their rejection constituting class blackballing, they be elected members of the club.'" (Here follow the names of timo army medieal officers, one officer of Militia, and one officer of the Commissariat and Transport Staff.)
From correspondence in your columns your readers will remember that certain officers, particularly army medical officers, have been lately bluckballed at this Club; and the Club Committee have very properly now taken up the question, which is prejudicial to the interests, and contrary, it is believed, to the wishes, of the malority of the memhers; and when it is rememhered that one wack ball in ten cxcludes, you will easily understand how a few narrow-minded men cau operate against a particular class of oflicers. Through your columns 1 wish to ask such of your waders as are members of the Club to be present, if possible, on Mas rth, and endearour to break down the influence of a "clique." -1 am, ete.,

A Correspondent.

## 

 stmotions thervan, also rour mitorial communts, etc.. in the Joveral of Marchlifh. l'recisely as it appears to me you have clearly and consistently and justly upheld the canse of the oficers of the Hedical Staft in the grave questions at issne between them and the War Office; so now, by the caution questions at insulente uper medical officers of the reserve forces as to accepting the terms of the new Warrant, it is apparent that your views on this, the lant. nove of the authorit:es are sound and worthy of quiveral adoption hy all wham it may coneern.
At all army stations it is the custom to prepare a list of all medical officers In the distrlet. This list is arminged in order of precedence. and whenever help has been ineeded it has been readily Iorthoomisng. The help to which 1 allude is that described under Article (2) of the Wiarmant and further detalled umter Articlus (5) and (6) of the "Instructions." Such helpl can personally attest is given at great individual disadmatage to the cliblian practitioner. and is not of a remmucrative character. If any practitioner doubts this, let hinu try for himself when oceasion offers, and be will soon be convinced.
Yet this is the only bait leld out as an inducement to make a display of cheap patriotism on our part. I venture to assert that if we yield to the temptation we shall incur the charge of preferring our non superficial and unreal adrantage to the juterests of our medieal brethren on the regular Medical Staf.

Preasing emerpency ut the present time there is none, Grave national emergency is a phrise that requires dennition. We are all anmaned, by palrotlesentiments, olse why should we give our hane and rady to do our best for nothlog? In the hour of danger and trial we mre anl raady to do wur best for the coantry, bit whilst the atmosphere is serene let, us not forget the oblorathens of professhomal broblberhond. If ninly we eat act unatimously io heclining to hedp Mr. Stanhepe out of a senyre, we need fear no reproakhes from any quarter save from the naseen but not unfelt advisers of that right from any quarter save srom tion pursue the nafortunate oficers of Her Majesty's Hectical Stalf with urrejeuting spite and malinuity,
 Philifadewis, Ariuy Medical Staff, Iter Majesty's royal heence and autho fley tonceght and wear the insighta of tie Orice of the Osmaniels of the Fourth Class, conferred upuu him by llis IIf hatss the Kihedive of Egypt auldovised by 11 is Imperlal Majesty the Sultan.

VOLUNTEER AMBULANCE SCHOOL OF INSTRUCTION.
A coursag of six lecfures will be dellvered in the heailquarters of the London Scottish Hille Voluntecrs, commencing Menday, April 23nd, at 7.30 , by Leslie Ogilvie. M.M., and Walter ${ }^{3}$ care M.D. Actiog Surgeon Artists Rifle Yolun teers, of which the following is the syllabus: 1. The Air we Breathe: Breath ing Sper and Ventilatlon. 3. The Water we Driak: Bathing and Personal Cleazliness. \$. The Food of the Soldier: Cooking: the True Value of Alcobol. 4. The Clothiug and Equipment of the Soldjer: Climate. 5. Exercise. 6. Tralnhig. Distases liable to oecur in fich service will be described, with their prohable causes and methods of prevention.

THE RANK OF MEDICAL OFFICERS

- Juspicu" suggests that the panphlet issued fromthe affice of this Jourmal on the rank question should be more freuly circulated by medical officers to those friends who are workiog to secure the just recognltion of the status of the medical profession in the armyh. Tose good friends should have their hands in every way strengtheued.

A corrasimporet sends us a Ietter cut from the Srish Times disclosing the following: Alter a reeeut Castle levee the medical afticers who attended were groutnal together in the official lists simply as "Surgeons" at the tail end of everythingi, not unly was their army rank and precedence absolntely ignored, but eveu their departmental rating mong themselves was treated with contumptuous indifference, as the Principal Medical Officer figured well down the list below the latest joined surgeon from Netley. This is the lust outeome of the persistent cadeavours to civilianise the department. Ireland used to fornisha large proportion of medical recruits to the services; we wonder what the progortion will be in the future?

## PLNSIONS TO ARMX MEDICAL OFFICEILS.

Ar Insprysted One writes: Should the iatentiou of the Government of aot allowing medical ufficers to retire on a pension after twents yenrs' service be carried out, it will be most unfair and a breach of agreement to the grent nomber who came lato the service under the Royal Warrant of November, 1879, and who entered solcly for the privilege of being able to retire after twonty years' service. I would recommend that a vigorous protest be at once wit on lout.

TIIE NAVY.
Tue collowing appointments have leeen made at the Admimity: Ji. B. Bray, Surgeon, to the buke of Wellugton: J. L. Aurrare, Surgeon, to the Vernon; W. M. Casio, Surgeon, to the Snvincible; G. A. Drvarer and G. II. Foott, M.D., Sirgeons, to the Sultan; J. J. M'Dorrfile, Surgeon, to the Agincourt; Il. IS. MidDus.ph. Surgeun, to the Temeraire; U. S. Wooawriont, Surgeon, to the Hoscaven.
Surgeon W, O. Spiliff, whontered the service Aisgust 30th, 1896, bas beea placed on the retlired liat of hls ravk with in gratuity.

## THIG MEDICAL STAFF

SUROFONG-MAJOR G. E. HODSOM, M.B., F.lt.S.: K. V. MCSWINRY, M.D.; A. H. L'Kistaamip, P. T. F\&aze: ami F. A. L'Estramoe have heon granted retired pay. The commisslons of all these gentlemen were contemporancous, namely: Assiahart-Surgeon, Mareh 31st, 1868: Surgeon, March 1st, 1873; and SurgeonMajor, March 31st, 1880. Surgeon-Major Dobson served In India and in tho Zulu campalku of $187!$ (merlal). He is well known as $\pi$ distiognished zooloyist and comparitive amatnmist, aml graluated B.A.T.C.D. 1860 (1st gold meqlal in Rxpermental aud Naturbl Sidence at the Degree Examination and dot Sentor
 Liamean, ami Zoological Socintles, a member of the Senate of the University of Dublin, ant author of numernus contributions lo various scientific journala, ami of acparate workn, bumong which may bo noted, Essay "On the Disgroals and Pathologe of the Jujuries aud Diseases of the Shouhder-joint" (awurded wold medal of Patholorical Society of Dublln); Medical Mints to Tra(awarders (piblished be the Royal Geographlical Soclety); Cusalogue of Chiroptera un the fritush Musiun: Afunagruph of the Insectwora, Nystematic and Anatomical, is the fritish "IFunum; Afunagruph of the "nsecheora, "ysi" In artiole Mammalia, 4to, 182243 : " Insectivera," "Chiropt"ra." "lodentia," in artiele mammatia, Encye. Jirtan., 1883: and artleles "Mole". "Shrew," aud "Vantiphe," In the amo publicatlon. Surgeon-Major $\mathcal{A}$. HI. Lifal range was engaged in the operations lu tha Malay leminsula ha $1475-76$ (inedal with chasp). Sargeon-Major Frazer was in the Afghan war In 1809080 , forst in mellical chasgo of IRnval Artillery at Lamil Kotal during the occupation of the Khyber Pass, and afterwards with Hiol 3 th Musears of Canhahar wh with the Southern Atghanistan Field Foren until the evmenation of tho conntry ln lest (medal). Surgeon-Major P. A. L'Talrange find medical clurge of the lat Weat Indis Irgiment during the Asliantexe warin 18\%3-is, and was at the hatele of Amonful ant the capture of Uoomatain, and was nfterwards Trausport Mealleal Officer for the embarkation of tho sick and wounded (medal with clasp); he aldo servod with thu Nile lix.
medition lu $1881-83$, (nmealal with clay? and lifyptian lironze slar). Surgenn Liajor MeSmlney lias no war recort,

Siargeun-Major H. I. Pixenisis lims been ameonded for servive with th Elyytimarmy.
Surgeou J. Donaldogon, whe is aerving in the Madras command, is ilrocto to report himself to the Princigal Me-lic:al Oficer, Vppuer Ihuraiah, Mandalay for orders.
Surgeon-Major W. Cheyk, scrving in Bragal, has leave of absedce on prival nflairs pending retirement from the service.
Surgen-Major 13. M. Catis, servity in the Bombay eominand, having thrned from fied surviec in Burmalh, is josted to general duty in the Pros dency district.

ANMX MEDICAL RESERVE.
The undermentimed offerers are iapponted surgeota-ajor (manking as Lis tenant-Colonels) in the Arniy Medicai Reserve of officers: Surgeon-Major Crawford, M.D. Brd Jattaliun North Stafiordsldre Regiment (late the King's Own Stafiord Militia); Surgeon-Major C. M. MacQuinhar, A.D., Battalion Gordon Mighlanders (fate the Aberdeen Militia) ; Surgeon and loo Dattalion Gorden Mighlanders Matione, M.D., Ist Maddesex Eogineer Vola teers.
The following are appointed Surgeone (ranking as Captains): Surgeon F. Manby, 3rd Volunteer Battalion South Stafiordshire Regiment (late the Stafford Volunteers); Surgeon 1k. J. Conlie, M.D... 3rd Volunteer Battali Durham Light Infantry (Tate the 3rd Durimul; Surgeon C.S. Young,
 Acting Surgeon C. A. MACMray, M.D, 3ru Voluoteer Batalion South Stafter shtre Regiment (late the 4th Stafford).

## THE INDIAN MRDICAL SFRVICE.

Surgeon W. L. Price, M.B., Bengal Establishment, is appointed to the nedi charge of the 23rd Pioncers, vice Surgeon II. Ilaniltun, who has been tra, ferred to the sth Bengal Cavairy. Surgeon G. F. W. Brampent peng. lighment. takes the offiniatiug medical char
return of Surgeon Price from Uper Burmah.
Surgeon W.Vost. Hengal Establishmeut, is appointed to the medical ebar of the 25 th Puajab Infantry, vice Surgeon- Liajor $G$. H. Beevor, ortiered ou 6
service.
Surgeon D. Prain, Bengal Iistablishment, Curator of the Herharium, C cutar Botanie Gardens, is appointed to act as Superiatendent of the Bota Gardens.
Surgeon D. Basu, "Heagal Istablishment, Civil Surgeon of Furreedpors, directed to act as Civil Surgeon at \$rmensingh.
Surgeon 1I. A. F. NAILER, M.B., District Surgeon at Chingleport, has \& lough for one vear on medieal certificate.
Surgen H. P. Jervis, Bombay Fstabilshment, in merilcal charge of the Native Intantry, is granted leave out of Indin on private affairs for oue year. Surgeon M. A. HER, Bengal Establishment. is appointed to the oftichai medical charge of the 314 th Poncers, vice Surgeon-3taj appointed officlating Medical Storekeeper at Meean Meer.
Surgeon G. Jampion, Bengal Establishment, is appolnted Actiag lesid Surgeon at the Eden Mospital, Caloutta.
The undermentioned probatioaers for the Indian Medical Serviee, having co The undermentioned probatioaers arme of iustraction at the Army Medical school, nad helng repor pleted a course of iustrurtion at turgeons on the Madras Fafablishnent:
M. INGHAM, F. J. Dkwes, J. U. Pinto, P. C. H. SThicklard, aud

Stewart.
Surgeon-Major T. C. II. Speycrr, Madias Establibhment, is nppointed to officfatho medical charge of the ith Light Cavalry, vice Surgoun-Major Debie.

THE VOLUNTEEISS.
Acting-Surenoy C. H. Bexblef, of the lat Volunteer Battalion Suffolk (awn (he Suffolk), has resigned hls commission, which bore October 28th. 1876.
Mr. T. G. IXALI is appointed Acting-Surgeon to tho Ist Volunteer Battal Weat kiding Regiment (late the 4 h West Jiding).

Mr D'ARCY Power, M.B. is appointed to the Lomdon Division of the Vol Mr. Medical Stafi Corps, and Mr. vib Burgh Bibch, J.D., Surgeon to the Le Division.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## A QUESTION OF CLIATBGING

Viator writes, I have been attendigg a geutleman for mearly two mont he nuftered from a "Pott's fracture" of the leg. The gentlemmn lir question que fied (L.S.A.) about thirty years ago, hut never practised at ind, auct the re opeculates in stocks. into the work of hie profeseion. Wuulit it be right for for his net entering inte the work of hin profeseion. Would to any ord to send in
" " Under the excoptional circumstances related by "Viator," thete en we think, be a doubt that he will bo fully justifind in elarging "L.S.A." as an ordhary patient (the genersl rule of the profesaion to contrary notwithstanding). inasmuch as, although he qualified some th jears ago as an apothecary, ho has never practisud as such, and in our op therefore is not cutitsed to the gratultous service of the profession.

IITRUETTR OF SUBSTITUTES.
A. Is attendiag a labour closo to B.'s house, and he leaves it to gis to a jarty at a distance. Is. Is suddenly sent for, as "the ehild is born." Is

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was no reason why copies of those reports relating to their dis-

Ilments to $A$. The next clay $A$ calls on $B$. who is ont. and leaves a polite sespage of thanks. " bo far, good ; but. is $\mathbf{B}$. entitled to something anore, amely. half the fees and if so what dows he fo to get it? Dors he write to mind A.; or does he ask it of the patient?
*" The following rulc, extracted from the Code of Medical Ethics, page 7 . applicablo to the tasp of A and B. $\mathbf{B}^{\circ}$

- When a practitioner Is called in or otherwise requested to attend at an coouchement for another, and completes the delivery, or is detainied for a onsidemble time, he is entitied hy custom (except in the case of illness, ete., rorided for by Rule 3) to one-hall of the fee; but, on the completion of the elivery, or on the arrisal of the pre-engaged accoucheur, he should reslgn the urther management of the case. In a case, howevër, which gives rise to un sual fatigne, anxlet fi, and responsibility, it is right that the accoucheor in ttendance shonld receive the entire fee. Note.- In either event, when the ficistlng accoucbenr is atranger, or a noracquaintance of the family octori, the full fee should be lendered to him."

COSTS OF PAHTXFRSHLP DEEDS.
RoL wonld be glad to know, In a question of partnership where money, has een paid over, which of the partaers should pay for the stamps on the deed. * It the partaership deed is prepared In duplicate, the better course is the parties to send them to Somerset House and have one stamped with he full duty (ad valorem), and the other as a diplicate copy. By this means he partics hare to pay half the duty otherwise paid (that is, if they are tamped separately, fnll duty' is charged on each). The costs wonld then, of ourse, be divided equally between the parties.

## CONTIRACTS BY TELEGRAM.

yoM TEAENS received a telegram at 8.30 p.M. to go at once and take charge l a practice on account ol sudden illness of incumbent. He wired that he ras coming. On arriral by train he was met by a persn who informed bim ast soother locum tenens, who had been sent by all office, arrived before im, It was too late to return by traln, so lieietayed at an hotel for the and charged for hotel and travelling expenses and one week's salary, 3 3s. Can he tecorer it?
** A contract may be made by telefram. Whether !t was an made in the reseat case must deprend on the wording of the telegrin. If it contaiaed a sefinite offer of an engagement, the intending locum terrens would be entitled - recover damages for the breach of contract and the capenses which he inurred in consequence.

FEE FOR INSURANCE CERTIFICATE OF CAUSE OF DEATH. ERF is no legally recognised scale of lees in such cases. The fee recoverable vould therefore be what is reasonable. The issue of an action to recover the xeess beyond the 10s. 6d. paid would be very doubtful, and clear evideuce bat a guinea is the fee usually charged would be vecessary in order to win. $u$ euch cases a practitioner is under no obligation to give a certificate, and he best conrse is to decline to part wlth it until the proper fee is pald.

## MEDICO-PARLIAMENTARY,

## HOUSE OF LORDS-Monday, April 2Ird.

 The Royal College of Surgeons.-In reply to Lord Sunemex, scount Cranbrook said that ho did not think that the petition the Royal College of Surgeons for a supplementary charter, ough it raised points of some importance, could be properly reTed to the Commission which was about to he appointed to conler the question of a new university:-HOUSE OF COMMONS-Thursday, April 19th.
Medical Officers of Health and the new Local frovernment Bill. Mr. E. StaNHOPE, in the course of the discussion on the Local vernment Bill, referred to Sir Lyon I'layfair's speech, in which dealt with the subject of public health. The right. thon. gentlean, he said, was perhaps the greatest authority in that House jon such a question as that, and it was witl much diftidence at he ventured to criticise some of his observations: $B y$ the th section of the bill the powers of existing sanitary thorities were transferred to the District Councils; while certain wers of tho Local Govermment Board were transferred to the unty Couneils. The right hon. gentleman complained that the cal Government Board would still retain the power of prescrib$g$ the duties of the medical officers of health, although the ounty Councils would have the power tömake regulations with gard to their appointnents and with-regard to certain of their netions. The object of certain powers over the medical ofticers health being retained by the Lneal (iovernment Board was to sure uniformity of action throughout the country hy means of neral orders and instructions, whieln could not be secured if ie whole control were lianded over to the different County CounIs. The right hon. gentleman had aIso complained that the edical officers of health were to make their reports to the Local. overmment Board instead of to the Comnty Councila, but there
tricts should not be furnished to the County Councile. If the Bill required amending upon this point, no objection would be raised on the part of the Government when the measure reached the committee stage. The right hon. gentleman lad proposed a scheme dealing with large sanitary areas nnder which the number of officers of health would be redneed from 1,200 to 180 , each of whom would reccive $£ 600$ a year. This, llowever, would leave I,000 existing medical offleers unprovided for, and he was afraid that the result Fould be to start the County Councils mith an enormous expenditure, while many medical officers -who had learnt their duties, and had discharged them with great efficiency and industry, would be deprived of their posts. Ile believed that a medical officer appointed by a Board ronld have, in many cases, more influence with them than any person imposed upon them: from headquarters

The Spread; of Infectious Diséases. In reply to Mr. Brcionter, Mr. RITCHIE said his attention had been called to the report of the Medical Officer of Health to the Forthwich Rural Sanitary Authority, and he might state that the Govermment hoped to be able to introduce a Bill to deal with the compulsory notification of infectious disease.

> Friday, April ※oth.

Cremation.-Dr. Camenon asked the Secretary of State for the IIome Department whether he had yet considered the application of Mrs. Eichbaum for a permit to remove, for the purpose of, cremation, the remains of her daughter from the churchyard in which they were recently interred, and whether he proposed to treat the application in any way differently from one for permission to exhume a hody for the purpose of reinterment.- Mr. Mattuews replied that the application of Mrs, Eichbaum had been under his consideration. He was advised.that cremation ras not necessarily illegal, and he should not therefore take upon. himself to refuse leare to exhume a body merely because the relations intended to cremate instead of reinterring it. In Mrs, Eichbaum's case he had referred the matter back to the inspector, hecause so long a time had elapsed since her daughter's death that he thought it required consideration whether the bods could properly be exhumed for any purpose, or whetlier special conditions would hare to be prescribed.

Monday, April 2STd.
Telegraph Clerks and Infectious Diseases-Mr. Carew asked the Postuaster-General whether clerks employed at the Central Telegraph Office were compelled to ahsent themselves from duty when there was an infectious disease in their lomes; whether they were allowed full pay during their enforced absence; whether, if the clerk suffered from an infectious disease himself, one-third of his pay ras deducted, and whether he rould grant full pay in both cases.-Sir H. Msiwell, on behalf of Mr. RaIKEs, said that the hon.member had stated the practicecorrectly. Telegraphists at whose homes there were infectious diseases were required to absent themselves; and this absence being not for their own sake, but for the sake of others, it appeared only fair that their pay should continue. But when telegraphists mere themselves ill, they became subject to the deduction common to all officers of similar rank.

Prison Surgeons and Chaplains.-Dr. Ctark asked whether it wns the case that prison surgeons in the principal prisons in England were appointed at a salary of $£ 400$ per annum, increasing to f500 per annum, while the prison surgeons in the principal prisons. in Scotland were appointed at $£ 200$ per annum, increasing to $£ 300$ per annum; whether the prison surgeons in the principal Irish prisons becran at $£ 350$ per annum; and increased to $£ 400$ per annum; whether the prisoners in the principal Scotch prisons were as numerous as in the English and Jrish ones; whether tho assistant surgeons in England hegan at $£ 250$ per annum, increasing to £300 per annum; whether the prison clanplains in England began at $£ 350$ per annum, and increased to $£ 450$, while the prison claplains in Scotland hegan at $£ 200$ and increased to $\mathrm{f}_{\mathrm{N}}^{\mathrm{N}} \mathrm{O}$ : whether the assistant chaplains in Fngland began n: f:350, increasing to £300; why Scotland was trented in this way; and whether the Treasury intended to level up the Scottish oflieers or to reducethe" Englisly and Irish ones.-Mr. JACKsos said it would not be possible within the limits of an answer to follow the hon. member into elaborate comparisons of salaries in the three kingdoma, though he must not be understood to admit the accuracy of his statements. IIs whole argument rested on the supposition that the prisoners in the larger Scoteh prisons were as numerous as those in England, and that nos not a fact. Several first-class prisons it

England contained over 1,000 prisoners, whercas the largest Scotch prison contained only 735 prisoners, and the next two contained 550 and 450 respectively. It must be borne in mind that several of the largest English and Irish prisons, unlike those in Scotland, contained convicts.

## Tuesday, April $\sim$ sth.

Medical Offeers in India. - Sir Walter Fosten asked the Under Secretary of State for India, whether it was the case that an exccutive oflicer of the Medical Staff in India, who officiated for less than one month as deputy surgeon-general, in the absence of the deputy surgeon-general on sick leave or furlough, received no allowances for the period, although he performed the duties in addition to his other duties; whether, in such instance, the "half-staff " of the appointment reverted to the State? Whether the acting officer would be held pecuniarily liable in the event of loss of stores, or other mistakes; whether officers officiating on the Military (Combatant) Staff, in a similar way, would draw the "half-staft" for broken periods; and why the difference was made in the case of the medical officers.-Sir J. Gorst said he had been informed that if an officer were regularly appointed to officiate as deputy surgeon-general he would receive pay as such; but if he were merely appointed to take charge of current routine, for instance, the clerical duty of the office, and not its really administrative duties, he would not reccive any extra allowance for temporary work. The answer to the second question was "yes," The answer to the third question was that the Government of India reported that he would be liable, but he imagined only to the extent to which he was personally responsible. As to the fourth and fifth questions, he had been informed that there was no parallel between the two cases, the reason given being the one was an administrative department, and the other an executive one.

Contagious Diseases Acts in India.-In reply to Mr. J. Stuart, Sir J. Gonst said that he had already stated that the Secretary of State would not apply to the Government of India for any reports and papers until the full report promised by the Government of India on the whole question, of which lock hospitals were a part, had been received, considcred, and a decision founded thereon.

## PUBLIC HEALTH

## POOR-LAW MEDICAL SERVICES.

## IUUBLIC HEALTH ADMINISTRATION IN BRADFORD.

One of the greatest obstacles in the way of the sanitary improvement of districts is the tendency of combinations to fall to pieces and to lose the advantage of the continuous services of a competent medical officer of health. The large towns are free from this difficulty, but some of them, nevertheless, have adopted the method of appointing their sanitary adviser for a short term of years. This custom is unfortunate, for it is very difficult for any officer who faithfully performs his duties not to offend one or more members of his authority, and a town suffers considerable loss if such a circumstance should lead the officer not to seek re-election. We must quote Bradford as a town which has appointed its health officers for five years, and which has acquired a high reputation for its administration during this period. Happily, there appears no likclihood that it will lose the ser rices of so highly qualified a man as Dr. llime, for there scems to be a general wish that he should remain in office for a further period. Memorials, we learn from the local journal, are being largely signed by the medical men engaged in practice in the town and by merchants, and artisans in favour of Dr. Ilime's re-election at the conclusion of his five years of office, a course which the profession, as a whole, will endorse. Bradford is eredited with being further sighted than some other towns, and we think it would best maintain its credit in this respect if the Town Council were to put an end to temporary service. If these gentlemen understand the value of public health work they will Clect their present medical officer for life, and terminate once for all the uncertainty that must always remain where the appointment is for a fixed periol. Any other course will weaken his influence for good, and encourafe o less astisfactory service than a town like Dradford has a right to expect.

Hkalth of Enambit Towns.-In the twenty-eight large English towns, including London, which bare an estimated popu-
lation of $9,398,273$ persons, 5,362 births and 3,585 deaths were registered during the reek ending Saturday, April 21 st . The annual rate of mortality, which had been 19.9 and 21.9 per 1,000 in the two preceding weeks, declined again during the week under notice to 19.9. The rates in the geveral towns ranged from 15.7 in Brighton and in Derby, and 16.2 in Sunderland to 21.7 ia IIalifax, 25.4 in Blackburn, 29.1 in Oldham, and 29.6 in Plymouth. In the twenty-seven provincial towns the mean deathrate was 20.7 per 1,000 , and exceeded by 1.8 the rate re-
corded in London, which was 18.9 per 1,000 . The 3,585 deaths registered during the week under notice in the twenty-aight towns included 151 which were referred to whooping-cough, 4 to scarlet fever, 44 to diarrhœes, 40 to "fever" (principally enteric), 37 to measles, $2 j$ to diphtheria, and 19 to small-pos in all, 364 deaths resulted from these principal zymotic diseasea, against 371 and 358 in the two preceding weeks. These $36 t$
deaths were equal to an annual rate of 2.0 per 1,000 ; in Londeaths were equal the an annual death-rate was 2.2 , while it averaged 1.9 per 1,000 in the twenty-seven provincial towns, and ranged from 0.0 in IIalifax and in Cardiff, and 0.5 in Derby and in Birkenhead to 3.2 in Salford and in Sheffield, and 3.7 in Bolton. Measles caused the highest proportional fatality in Bristol and Nottingham; scarlet fever in Oldham and Blackburn; whooping-cough in Salford, Bolton, and Blackburn; and "feyer" in Preston. Of the 25 deaths from diphtheria recorded during the week under notice in the twenty-eight towns, 10 occurred in London and 3 in Brighton. The 18 fatal cases of small-pox included 12 in Sheffield, 3 in Hull, 2 in Oldham, and 1 in Manchester. The number of small-pox patients in the Metropolitan Asylums Hospitals on Saturday, April 2Ist, was 21, of whom 6 had been admitted during the week. These hospitals also contained 961 scarlet fever patients on the same date, which showed \& further decline from the numbers in recent weeks; 91 cases were admitted during the week, against 62 and 92 in the two preceding weeks. The death-rate from diseases of the respiratory organs in London was equal to 4.4 per 1,000, and was below the average.

Hbalth of Scotch Towns.-Daring the week ending Saturday, April 21 st, 812 births and 535 deaths were registered in the eight principal Scotch towns. The annual rate of mortality. which had declined from 23.7 to 20.8 per 1,000 in the three preceding weeks, rose again to 21.2 during the week under notice, and exceeded by 1.3 the mean rate during the same period in the twentyeight large English towns. Among theae Scotch towns the highest in Perth and Paisley. The 535 deaths in these towns during the week under notice included 52 which were referted to the principal zymotic diseases, equal to an annual rate of 2.5 per 1,000 , which exceeded by 0.5 the mean rate during the same period in the twenty-eight large English towns. The highest zymotic rates were recorded in Glasgow and Perth. The largest proportional fatality of whooping-cough occurred in Glaggow and Leith; and 8 deaths from diphtheria were recorded in Gls.s. gow. The mortality from diseases of the respiratory organs in these Scotch towns was equal to 5.0 per 1,000 , against 4.4 London.

Healte of Debirn.-The 163 deaths registered in Dublin during the week ending Snturday, April 21st, were equal to si annual rate of 24.8 per 1,000 (against 27.8 and 27.6 in the $t w i$ preceding weeks), the rate for the same period being only 18.9 in London, and 20.1 in Edinburgh. The 168 deaths included 12 whicl resulted from the principal zymotic diseases (equal to on annua rate of 1.8 per 1,000 ), of which 5 resulted from whooping-cough 3 from scarlet fever, 2 from "fever," 1 from diphtheria, and from diarthœa.

## OBITUARY.

FRANCIS S. B. F. DE CHAUMONT, M.D., F.R.S., Professor of Military Hygiene in the Army Medical School, Netley.
In our last issue we annonnced the lamented deatlo of this dik tinguiahed man, cut off at the comparatively early age of 5 . Dr. de Chaumont was, as his name indicates, of French extractio on his father's side; his mother was a Scottish lady. Ile wa
on in Edinburgh, and educated in the Iligh School and Unissity of that city. After passing through the arts and medieal ssees with distinction, he obtained his degree with bonours, and eied the medical service of the army, serving in the Rifle Brile in the Crimea. On the removal of the Army Medical School $m$ Chatham to Netley, Dr. de Chaumont was appointed Assist: 'Professor of Hilitary IIygiene, under the late Dr. Parkes. In s position he not only assisted his principal in the laborious y of teaching in the laboratory of the School, but did an imnise amount of extra work for Government in the way of lysis, reporting on hospitals and barracks, contributing to the bartmental Blue Book, and papers to acientifie journals on lth questions. He was also appointed to give instruction to 2ng officers of the Royal Engineers at the School of Military gineering at Chatham on military hygiene, so far as concerned health arrangements and construction of military buildings, I such like matters-instruction which was highly valued, not y by the young officers, but by their seniors also.
in the lamented death of Professor Parkes, Dr. de Chaumont Is, with the hearty concurrence of the other professors and the ole service, appointed his successor. It is with regret we have 1dd that the late Professor felt aggrieved with the terms of his sointment, IIe felt that the Government bad driven a hard gain with him, ignoring his previous military service, exacting ch and giving little. Into this unpleasant subject it is vain $\checkmark$ to enter. Suffice it to say that what Dr. de Chaumont med unjust treatment was keenly felt by bim to the last, 1 must be regarded as one more example of the little appreciatix by the Government of the day-and of all days-in this entry, of scientific merit, particularly in the ranks of the dieal departments of the public service.
'rom this time until his health completely broke down, the ject of this notice led a laborious life. In addition to the 1.vy and responsible duties of his chair, conscientiously disrged, he did an immense amount of 'work, taking an active It in congresses at home and abroad; inspecting and reportin hospitals, barracks, and public buildiugs; giving addresses health questions to various societies; and, above all, editing great work of Parkes on Practical Hygiene, two editions of ich he published, bringing the work up to the latest developrats of the science with conspicuous alility, and in such a reveIt spirit to the work of his great master as to be highly apprecied by Dr. Parkes's old pupils and friends and the profession 8 erally.
1r. de Chaumont was elected a Fellow of the Royal'Society. 1s not possible for us to give in this brief obituary notice a list lis numerous contributions to science; that will be done fully i: he Transactions of that Society in the usual course. Meanrile it must suffice to say that the late Professor was facile nceps in his own department, and was acknowledged to be so toughout Europe, and in the United States of America more Tticularly. His seientific knowledge, far from being confined this own branch, was large and accurate; he delighted in I thematieal seience, in which he excelled, and in which, if his (er pressing duties and pursuits had permitted, he was capable greatly distinguishing himself. He was an accomplished 1 uist, familiar with all the modern languages, and a master of lology, a study rery congenial to him. Ile delighted in music, 11 a knowledge of its principles that would have been creditable ta professed musician, and far beyond that of amateurs; if time 11 allowed, he would have excelled as an executant: as it was, 8 Re jears ago he could "attack" the compositions of the great Isters of the piano in a manner not often attempted by sateurs. Like most men of intellectual power, he had a I caulay-like tenacity of memory; whatever he read he rememed, and stored in his mind with such order and method that i raz available with unfailing readiness at a moment's notice. th all his aequirements he was the most modest of men; all 1 knowledge was at the service of his friends; he possessed a ferous and equal temper, had not a trace of literury jealousy in 1 nature, and was a loyal colleague.
nto the melancholy details of the ailments that cut short this ${ }^{1}$ ful life we do not propose to enter; cardiac failure, the outc 20 of diabetes nnd occasional albuminuria, attended of late th prefound mental depression, elosed the scene. It was too lent to his friends that his life's work was done, and they feel t $t$ under the sad circumstances he was fortunate in his death. rs ultima linea rerum est.
to was buried in the cemetery of St. Mary's Extra, near
his own residence, Woolston, Southampton. Although rain fell in torrents throughout the day, with a bitter north-east wind, it was attended by the whole of the staff at Netley Ilospital, the professors and the surgeons on probation in the Army Medical School, many members of the Southampton Literary and Philosophical Society, of which he was President, the Council of the Ilartley Institution, of which he had, until a few daya before his death, been a member, and representatives from other public institutions in Southampton, and by a large number of the gentry and medical practitioners in the neighbourhood.

## UNIVERSITY INTELLIGENCE.

## CAMBRIDGE.

The following degrees were conferred at the Congregation on Thursday:-M.B. Degree: Chichester Gould May, B.A., Trinity; E. IIunt Cook, M.A., St. John's: Thomas Brushfield, B.A., Caius. B.C. Degree : E. Hunt Cooke, M1.A., St. John's.

A grace proposing to put Bachelors of Medicine into the status pupillaris was rejected.

## MEDICAL NEWS

## MEDICAL FACANCIES.

The following Vacanciea are announced :
ANCOATS HOSPITAL, Manchester. Jnnior Visiting Surgeon. Salary, £b0 per annum. Applications to the Honorary Secretary.
BIRMINGHAM GENERAL DISPENSARY.-Resident Surgeon. Salary, £150. and £30 extra for cab hire. Applications by May loth to A. Forrest, Esq. Secretary.
BIRMINGHAM GENERAL HOSPITAL.-Assistant House-Surgeon. Eesidence, board, etc. Applications by April 28 th, to the House Governor.
bIRMINGHAM GENERAL HOSPITAL.-Resldent Surgical Officer. Salary, e130 per annum, with board and residence. Applications by April 30th to the House Governor.
BOROUQH OF BRIGHTON. - Medical Officer of Health. Salary, £500 per annum. Applications by May and to F.J. Tillstone, Esq-, Town Clerk.
BRISTOL ROYAL INFIRMARY.-Honorary Assistant Pbysician (to out patients). Applicstions Dy May 5th to the Secretary.
BUHY DISPENSARY HOSPITAL,-Jnnior Honse-Surgeon. Salarg, £ 6 annum, with board and residence. Applications by May 5 th to the Honorary Secretary.
CALLAN UNION.-Medical Officer, Ballingarry Dispensary: Sakry, firo per annum and fees. Applications to Mr. William Bryan, Honorary Secretary. Filection on May 3rd.
CROYDON GENERAL HOSPITAL.-House-Surgeon. Salary, £l00 per annum, with board and residence, Increasing to firo. Applications by May 11 th to the Honorary Secretary.
DURHAM COUNTY HOSPITAL.-Honorary Surgeon. Applications by April 30th to the Secretary.
DURHAM COUNTX HOSPITAL.-Honorary Surgeon-Dentist. Applications by Aprll 30th to the Secretary.
HERTFORD BRITISH HOSPITAI, Paris.-House-Surgeon. Applications to the Secretary, Hue de Villiers, Levallois, Paris.
HOSPITAL FOR THE PARALXSED AN゙D EPILEPTIC, Queen Square. W.C.-llouse-Physician. Salary, 550 per annum, with board and reaidence. Applications by April 3oth to B. Burford Rawlings, Esq., SocretaryDirector.
HULL ROYAL INFIRMAMY.-Junior Assistant 1House-Sargeon. Salary, £50 per annum, witl board and lodging. Applications by April 3uth to the Uhairman, House Committee.
LIVERPOOL INFIRMAI!Y FOR CHILDDREN, - Assistant House-Surgeon. Board and residence. Applications by May 3ud to the Honorary Secretary.
LONDON SKIN ILOSIPITAL, 47 , Cranbourn Streef, W.C.-Assistant Medical Ofticer. Applications by Kiay 1st to the Sceretary.
LONDON TEMPERANCK IOSPITAL,-llegistrar and Chloroformist. Salary. eso per annum. Applications by May sth to the Secretary.
LONDON TILBOAT MOSPIT.IL. Great Portland Street, W.-Surgmon. Ap plications by May 1st to W. It. M. Stewart, Bsq.. Houorary Secretary of Medical Committeo.
MONKWEARMOUTII DISPENSARY AND ACCIDENT HOME. - IOUSQ Surgeon. Salary, \&so per annum, with boant and lodging. Applications by lay 5 th to T. 1. Blumer, Esq.. Honomry Secretary, Aveaue House. Monkwearmouth, Sunderlant.
NEWPORT AND COUNTI INFIRM.ARY.-HouseSurgenn. Salary, £100 per annum with board and residence Applications to J. K. Scone, Ein., The Infirmary, Newport, Mon.
NORTH-WEST LONDON HOSPITAL, Kentish TOMn Row.-Serior licsilent Medical Officer. Applications by aling 7th to the Sucreary'.

PARISII OF LOCIIS, Stornoway,-Medleal Oftcer. Salary, \&ito per.amnum, ath free house. Applicatlons by May 18tb to Mr. H. If. L. Iloss, Inspector of Ioor, Lochs and Barvas.
ROYAL FREK ILOS1'ITAL, Cray's inn Nowl.-Assistant Playsician. Applicitions by Mas lith to the secretary.
HOXAL FHKK IrOSPITAL, (ihty's Inn Road.-Asslstant Surgeon. Applications by May loth to the Secretary.
OYAL HOSI'ITAL POR DISFASES OF TIFF CIIIST, CitS RGAG,-Jnnior
Ifouse-Physlcian. 'Salary, sito per annum, with'tward and lodgiog. Applicatlons by May lath to the Secretary.
ROYAL SOUTH HANTS INFIIMAIKI, Soutbarmpton.-Assistant to Lonse Surgeon. Board and residence: Applicatbons by May 5th to Dr. Thomas, Anglesea Place, Southampton.
SEAMAN'S HOSPITAL SOCIETY.-Visiting Physician. Applicstions by May sth to P. Michelli, Secretary, Seaman's Hospital, Greentich, S.E.
WARWICK COUNTY LUNATIC ASYLUM, Hatton, near Warwick, Assistant Medical Offcer. Salary. $£ 100$ per amum, with board, ete. Applications to the Superintendent.
WESTPORT UNION. - Medical Officer. Achill and Ballycroy Dispensary. Salary, $\mathbf{E 1 1 7}$ per annum and fees. Applleations to Mr. John Corrigain, Ilonorary Secretary. Election on May 8 th.

## MEDICAL APPOLNTIIENTS.

Binox, Barclay J., M.B.Edin., appointed Lecturer on Pathologs and Morbid Anatomy in the Bristol Medical Sclool.
Brat. W. T. M.R.C.S., appointed Resident Clinical Assistant, to the East London Hospital lor Children, vice N. Lewis, M.R.C.S., resigned.
Brown, F. L. Harman, M.B., appointed Assistant Medical Officer to the Bristol Asclum, Stapictor.
Hinkril. J. S., M.1K.C.S.Eng. I.S.A., appoiated Jnnior Honse-Surgeon to the Horal Iondon Ophthalmic IIospital, vice E. T. Co M.K.C.S.Eng.

Kiupmanm, Otfo, M.B., M.R.C.S., appointed Resifent Cllical Assistant to the Hospital for Consumption, Brompton.
LEK, M. J.. L.R.C.P., L.M,O.S. Edin, appointed, Medical Officer to the Cloonbur No. 2 Dispensary, Oughterard Union, vice John Gorham, L.R.C.P., L.R.C.S. Edin., resigned.
Mormox, I., M.B., B.S... appointed Medical Officer to the Durham Union Workhouse, vice Edward Jcpson, M.R.C.S., L.S.A., resigued.
PEDLKT, George Aston, M.K.C.S.Eng. I.H.O.P.Lond., L.S.A.; appointed Deputy Superintendent of Vaccination for Mandaiay, Upper Burmah.
Ratnes, Alwyu, M.B., C.M., appointed Medical Officer to the York Rural SaniInry Authority.
Sompra, Noble L. U., L.R.C.S.I., L.M., appointed Medical Officer to the Letter, more Dispensary, Gaiway.
Stmana. F: Osmund, M.B., B.S.Lond., apprinted Surmisil Registrar to Charing Cross Hospital, vice W. J. Roeckel, resigned.
WalkkR, C. H., M.H.C.S.i appointed Senior House-Surgeon to the Royal LonWALkkR, Ophthalmic Hospitah, Moorfields.
Wean, G. W., M.D., C.M., appointed Medical Officer to the Liddell Trovident Dispensary. Jarrow-on-Tyne, vice J. Jobnatone Weir, M.B., O.M., resigned.
Wreford, J., L.R.CP.Lond., M.K.C.S.Fng., Appointed Junior Assistant Medical Wraford, J., the Norlolk County Asylum, Thurpe, vice F. L. Harman Brown, M.B., C.M.Edin., resigned.

Wrater, W. B., F.R.C.S.Kng, L.I.C.P., appointed Resident Clibical Assistant to the IIospital for Consumption, Brompton.
Society for Relief of Winows and Orphans of Medical MAN.-At the quarterly court of Directors of the Society, three new member were elected, and the, deaths of three announced. The deaths of three widows in receipt of grants were reported. A fresh application for relief was read from a widow for herself and fire children, and a grant was made her. Applications for a renewal of their grants were made by, sixty-one widows, seven orphans, and three orplans on the Coneland Fund, and a sum of £1,389 10s. was recommerided for distribution at the next court. The expenaes of the quarter were fij $14 s$. A legacy from the following gentlemen were recommended for election as directors at the annual general meeting, in the place of those who retire: Dr. Mattbews Dunean, Dr. Buzzard, Dr. Glover, Dr. Mett, Mr. Brailey, and Mr. Spencer Watson. The annual general meeting was fixed to be held on May 18th, at 5 P.m. The centenary dinner - will be on October 29th.

The Qutins Brquest. - Mr. Menry Quinn bequeathed $£ 50,000$ to the charities of London and the neighbourhood, out of which Mr. W. M. 11epper, the executor, has given $£ 5,000$ to the Building Fund of the Great Northern Central IIospital (with the condition that a ward in the new building shall be named "The Henry Quinn Ward " $) ; £ 1,200$ to King's College Hospital: $£ 1,200$ to the Charing Grors Ilospital ; $£ 1,000$ to University College IIospital; $£ 1,000$ to the Richmond Hospital; fro0 to the Royd Ilospital for Diseases oI the Chest; $£ 500$ to the National Ilospital for Consumption, Ventnor; $£ 400$ to the Yictoria Ilospital for Children, Chelsea; $£ 300$ to the Metropolitan Convalescent Institution; $£ 300$ to the London Temperance Ilospital ; f:200 to the Royal ilospital for, Children and Women: And falio to the Eurgical Aid SQciety fall less duty.
:St. Thomas's Hosprtal Medicat' School: Prizés awi Scmotarsmips (1887-88)-Ist Winter: J. H1. . Wisher, the William Tite Scholarship, £30; A. Banks, £20; C: Wallace, £5; C. S
Jaff, £5 (College prizes). And Winter: C. P. Lovell, the Bearock Jaffó £5 (College prizes). And Winter: C. P. Lovell, the learock
Scholarship ( 10 guinens): W. F. Unincr, College prize (£20): H. Burden, College pize ( $£ 10$ ). 3rd Winter: 1. F. Stabh, sccomd tenure, of Masgrove Scholarship ( 40 guineas) and College prize $(£ 20)$; S. G. Toller, College prize ( $£ 15$ ); W.: G. G. Stokes, College
prize ( $£ 10$ ). The "Mead" Medal for lractical Medicine: prize (flo). The "Mead" Medal for lractical Medicine: II. G. werney; Messrs. W. H. L. Copeland, T. P. Comen, and P. C. Thomas mednl. ${ }^{1}$ The "Cheselden" Medal for Surgery and Surgicnl Anatomy: F. C. Abbott; Messrs. A. N. Boycott and II. H. IIulbert obtained marks qualifying for the medal.

A Promising Student-Complaint is often enough heard that the portals of the medical profession are not guarled with suft cient jealousy against the intrusion of persons of defectire oducation, and examiners, no doubt, often have the delicate adjust ments of their higher cerebral centres rudely shaken by the phonetic spelling and ataxic composition of the embryo dennee howerer, it is doubtful. whether, eren the most hopeless "chronic could match, the following (autlientic) specimen, of a clinica report which we take from nit American contemporary:-"His tory of Present 1llness.-Stranded himself and spit of a brite collor. Present Condition.- 'Have you any fearer or nite swets
'No.' Very little expanshun of seapular in rite. Fisical Exam nashun.-Exagerated breading, herd friction sounds. Herd snore valres (this statement much puzzled the examiners; ultimate they concluded the candidate referted to 'sonorous ralles).' Pro gnosis. - Can't be cured, but can be sent to mexico.

Preston Medico-Ethical Socherf.-At a meeting of thi Society, held on April 5th, $\Omega$ resolution was proposed by Dr. Chas Rigby, seconded by Dr. Dunn, and carried, expressing the vievf o the meeting that the necessity imposed upon medical men to keel horses for professional purposes, altogether apart from pleasure should cause, them to be exempt, from the proposed horseta Letters having been read from the local agent of the Nationa Medical Aid Society, it was resolved: "That the members of Saciety be recommended to adhere to the resolution of Octobe 1884, counselling them not to become medieal offictre to any pr rate society started to provide medical attendance to families
a following oflicers were elected: Dr. Loni President; Dr. James A. Rigloy, Vice-President: Dra, Garner, Smit Green, Rayner, Charles Righy, and Anlerson, Committee; II Walmesly, Treasurer; Dr. Sellers, Clinical Secretary; Drs, Kin and Kerr, Luditors; and Drs, Iloldeu and lByrne, General Secretari
The Sydney Morning Merald, of February 24 th, states the Mr. W. H. Paling, of George Street, has most muniticently otten to Lord Carrington his estate at Camden, consisting of 450 aer With the entire plant and stock, with the sum of $\mathrm{f} 10,000$, for purpose of establishing and endowing a hospital for conval of the colony, and is to bear the name of the pregent centen Lord Carrington has been ricpuested to take the nocessory steps carry out Mr. Paling's wish. The property, which is within short distance of Camden, is aaid to bo admirably suited for purpose intended. A provisional committee is to be formed, wh the scheme is to be brought before the public with a view
obtaining additional subseriptions to supplement this magnitice gift.

Death of a French Mmpicat, Journalist,-Dr. Broch editor of the Gazette des IIôpitaur, died recently at an adranc age. For nearty half a century he had hold a leading place amo his life in harness. Ile was a man of sreat literary and pme sional ability, and of singular integrity of eharacter.

## MEETINGS OF SOCIETIES DURLNG THE NEXT WEEK.

## MONDAY.

Brodical Socikty of London, 8.30 r.m.-Clinical rvening. The Prear (Sir Willam Mac Cormac) : Case of Osteo-platile 13 estry the Font rMethod of Mikuliczi). Mr. Eilmund Owen: Cas Reducible bumbar liernia cured liv Operation. Case of IEldamyia Nutans, Dr. II erring!uan: struetive Jamadic'p, with Eolarged Giall-bladuer, ("ares ${ }^{2}$


## TUESDAI.

gological Soctety of Lomdon, 8.30 p. M. - Ordinary Specimens: Mr. Doran : Primary Cancer of Fallaplan Tuhe. Mr. Bruce Clarke: Sloughing of Bladder following Crstitis. Mr. Stlcoek: Cystic Disease in Test is. Mr. J. Hutchinson, jun.: Dupuytrens Fracture. Dr. M. Muray: Congenital Discase of Heart New Adult. Dr. N. Monre: Examples nf several forms of New Growth. Dr. Coats: 1. Multiple Cabcer of Brain, Lungs, Bones, etce 2. Primary Cancer of Braln. Dr. Crooke : Primary Cancer of Liser. Dr. Turner: Extreme Contraction of Orifices Cancer of Liser. Drterles. Dr. Pearse : Advanced Surgical Kidueys. Mr. Bland Suttnh: Mamme in Dermold Cysta. Card SpeciMr. Bland Suttnt : Mammet Itis with Cirrhosis of Liver. Dr. mens: Dr. Crooke : Perihepatitis With Cirrd Kidncy. Mr. Dunn: Cerebral Tamour. Mr. Shattock: 1. Cyst in Cerpus Jateam. 2. Two Speelmens of 1 Lammer Toc. Mr. Lunn: Pemphigus of Larvix Mr Mansell Moullin: 1. Osteoma of Skin. 2. Bladder Laryni. Ar. Mud Prostatic Calculi. Mr. J. H. Morgan: Ulceratlon of Bladder.

## WEDNESDAT.

retrical Society of London. 8 f.m.-Specimens will be shown. Dr, Cullingworth. Cyst connected with the Uterus, and simulating Eulargement of that Organ. Mr. Bland Sutton: The Glands of the Falloptinn Tubes nnd their Function. Dr. Scougal: A Case of Hemiplegia after Parturition.
efge of State Mfnione, Burlington House, 4 p.i - Mr. R. Brudenell Carter: The Aims and Objects of State Medicine.
Heo-Psicuologioal Association, Bethlem Hospltal, 4 p. M.-Dr. Maudsley: "Some Remarks on Crime aud Criuinals." A meeting of the Councll will be held at 3 P.M.

## THURNDAE.

ical Society of the tiniten Kingdon, 8.30 p.m.-Living and Card Speeimens at \& P.M.-Mr. W.J. Collins: 1. Rare Affections of the Evelicts-Photographs and Drawings. 2. Case of Paralysis of Fifth Nerve with Cataract. Mr. J. B. Lawford : Pathological Specinaeus. Mr.S.H.A. Stephenson: Case of Optic Neurit is after Measles. Papers: Mr. Charles liggens: On a Case of Melanotic Sarcoma of Ereball. Mr. M. McHardy: 1. Primary Tuburculosis of Choroid treated by Enucleation; RePrimary Suberculosis of Expedient for Enhancing the Conmetlc Effect of Artiticial Eves. Dr. Nill Grifith: Eye Symptoms in Hysteria and Allied Couditions.
breinn Society of London, 8.30 P.m.-Mr. Watson Cheyne: The Treatment ne Spinal Ahscess. Mr. C. J. Symonds: On some Obscurt Cases of Painful Feet.
ines Museum of Higitere, $\quad$ p.m.-Professor T. Hayter Lewis: On Ancient and Mediaval Towns.

## FRIDAY.

st London Mentco-Chiruritoal Soceety, 8 f.m.-Patholngical Specimens: Mr. Perer Dunn: 1. Reetum, adjacent parts and portion of Sigmod Flexure, the seat of large Scirrhous growth, 2. Casenus Deposit in Lung of Child 18 months old. 3. Large Hernial Sac and Testis, placed abnormally in the Groin and removert during Llfe. Clinical Cases: Mr. Bruce Clarke: A Case of Multiple Life. Clinical cases: Mrombers of the same family. Mr. Van Exostoses in three members of the the Lower Jaw of a Child. Buren: A Case of Navoid Growthlustrating one cause of Failure Mr. Swinforl Edwards: A Case inlustrang Mercy Dunn: A Case in the Operation for Fistnla in Allo, Mr. Merce of Complete Lrideremia. Mr. W. Lang: A Reries of Cases of Disease of the Conjunctiva and Cornea. Mr. Jonathan Jrutchinsen, F.R.S.. will communicate matier of clinical interest. Papers: Mr. Swinford Ldwards: On the Treat ment of Piles hy Papers: Mr. The Yresident (Mr. Keetley): On a Case of Wound Injection. The President (ar. Keetiey):
(Intra-peritoneal) of the Urinary Bladder treated by Suture.

## SATIRDAY.

urological Society of London, Ihysiological Laboratory, University College, 4.30 P.M.-Professor Schater: On the Visual Area of the Cerchrai Cortex. Mr. F. P. France: A modified Weigert. StainCercbrai Cortex. Degenerations following Lesions of the Marginal Gyrus...Ir. Beevor: Sechin.
catlon of Welgert's method.
BIRTHS, MARRLAGES, AND DFATHS.
echarge for inserting announcements of Births. Marrages, and Deaths is 3s. 6d., which should be forwarded in stamps with the annouxcement.

## BIRTH8.

:Mpster.-Aprli 19th, at Sonthend, Essex, the wife of Hohert $G$. Dempster, surgeon, of a daughter, prematurely.
rk. - At Cueruser on the 22 nd April, the wife of 12. L. Love, M.D., Surgeon Army Inediesl Staff, of a son, premature, stllborn.

MARRIAGES.
Sphr-Ifeymans.-On March 1st, at Mehourne, Victoria. J. W. Dunbar Hooper, L.M.C.Y. and S.Ed.. to Mathilele, daugliter of tho late Antoine lleymann, of Neuchat el. Swit zorlaml.
Geagn-llorirta, - April 19th, at Trinity Church, llorwich, Bolton-le-
 Monra, by the Rev. II. St Pigot. M.A., Mar, Jogeroft, Ifverpool, to Mary, eldest daughter of William M.Ch.. ef Steneycrott, Liverpo

## DEATHS.

MPSTER. - Aprll 21st, af Southend. Fssex, Dorothy, 1ho Infant danghter of llobert and Kate M. Siddeley Demipster. - On the 13t in instant, at 16, Deane Road, Fairfield. Iferpont, after a vers
 regretted.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Comyusications respecting oditorial matters should be addressed to the Editor, 99. St Whan those concerning business matters, non-delivery in, Strand, W.C., London.
If oriter to avoid delas, it is particularly requested that all letters on the editorial business of the Joursal be addressed to the Editor at the office of the Jounail, and not to his private house.
Authors desiring reprints of their articies published in the Buitism Mpicar.
 Strand, W.C.
Correspondests whe wish notice to be taken of their communications. slould
 authenticate thent with their are requested to look to the Nutices to Correspondents of the fellowing week.
MANUSCRIPTS FORINARDED TO THE OFFICE OF THIS JOU'RAL CANMOT U'XDER ANY CIRCUMSTANCFS be RETURNED.
Public Health Departmett.-We shall be much obliged to Medical officera of Health if they will, on forwarding their Annual and other leports, farour us with Duplicate Copies.

## QUEIEES.

Mearber would feel much obliged lf any gentleman would kindly give him a few particulars about a drug called "havena" or "avena" used in epilepss.

Congenital Siphilis.
HERMFS asks for advice in the treatment of the followiag casc = Mrs, S. is nearly three months pregnant ; six months hefore her impregnation Ars. contmeted true stphilis-i.e.. induratedere. The impregnatinn tenk place in and has been treated throughout by mereury" The imprcmnatm, marked " rethe belief that the husband was well; he has now, hwever, marked minders"present. Will the child ef necessity be syplalised? minders to take mercurs? Is it justifiable to procure abortion or induce premature labour?

Persistext Yawsing.
Unique asks for advice as to the canse, prognosis, and treatment of a lads, middle-aged, in fair ceneral health, who suffers from constaet and intolerahle fits of "yawining" ther do not appear to he due to fatigue or any; spectal debility; beyond slight dyspepsia and constlpatlon, the bodty healthi is gond. The yavining begius in the merning after a good night, and continues at hitervals all day. Tonics, alteratives, attention to digestion, etco, have beed tried without removing this somewhat unpleasant affection.

## A NSWEICW.

D. D. asks to be recommender the best recent books on gomorrloca, acute and chrobic, also those on syphills.
** Syphilis and Local Contagious Disorders, by Hill and Copere; or Jenereal Diseases, by Bumstead and Taylor. The most recent work on syphilis only is that by Mr. Hutchinson in Cassell's series.
"The iniquitotes Iax os Indestar.
G. S. writes: I started in practice nearly two years ago, and during that lime have purchased instruments and surgical apparatus, whenever reduired. time have purchased insirum surveyor of itucome tax from the districe claims to the extent of £40. The surveyor of itucome max be incluated among exthat this sum of money is "capital, aad mel payments as expenses, and so penses. My predecessor always reckned such payme The tax surveyor is prodo the other practitioncrs in the neighburhoo bably making a dead set at me as a newcomer. *** In answer to The abe, Lowis Square, W., write: "One of the great mistakes in the present system of assessing professional incomes is that there is no uaiformity; all depends on the dicta of the surveyor of taxes. We know of cases where no demur is made about allowing the cest of jastruments and books: in others the purchase is looked upon as an expentiture of capital. When this is done, the person assessed should put down every year a part of the purchase money as depreciation; for instruments and books decrease very mpidly in value. The tax overpald would thas be gradually paid hack. We would have all medical men recollect that now is tho time for claining repayment of lax on over-assessed lecomes."

## NOTES, LETTEIES, ETC.

## Placenta Pr.fita

F. The suecossful tratment of a case of the above (left in Nature) . Whtes: recorded by Dr. G. Hu. Fuspeasagt nature.
 may, sprif oth, at acks of severe finement. During the prevmewife. She had been finodias from 2 A.s. on hemorrhage, treated hy fand had tive or six fainting fits previous in my risit. the day I saw her, and had and pulseless. The ragina was full of chots, and she was pertectly hancherth howl. Jlaving given hrandy and bectiea, and the budelothing soaked with hlomid. I hrought down a font very masily. en procured the count mance of a friend. Ivery 1 completed after raiting an hour firely checking the hamorrhage; delivery os in spite of every precaution. on account of the slight dilatation of the os. In spite of everwards, she died for 1 had her syringed out the same
on the fifth day from acute pysemia. My first and last experiences of his aisease have been for several hoars



 ohstetriflano in this quarter I lave talked to addpted hy in the exparienced thimgs to romment fit. larnes's lugg one to nil the subjeet, and lias many thigere and the skith they containg onie may or may not lave, lumt mane's sfinlents of the sulyiet the followin oni always pmacesses. Ince, commend to


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11. M. 1). writes : Not from Nfales's " Digarst,",

Neale's Jicdreal /Digest, nor dol 1 rearet hathy motive did 1 write $\ln$ pralde of work to the busy practitioner in cases of emerone so, for it is a most. wisful mive. Une Car jrenter than myself, SIr Janes Pay and for deliberate refer-

 Ontconice of some forty years puhlication as arrly as $18 \%$ was selected by the while I was in arduruis Gears lal practice I regret that 1 dill not meret wthe it "f the work; they must learal praw to use this more than ory to purchasers
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Mr. W. h. Jlarsiat (Cliftmin writes: Wililace Clise.
licity to the following additlonal list of subseriptions enough to pire pubShain fuml?

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Ribuson, firorice
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Ruditock, R.
Thuwley, Professor
Stansfold, O. M.
sinith. Themas
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acknuwledge recelpt of the uniterme. Porchester Garlens) writes: Kindl appeal.

> Second Livit of Donations.


Du, Hevicy 1t. Vernay (Sunthrart) wito Qtisine
who was always at tackeal by ervelemites: some ycam agon foala patient

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 Hy own methon is vere similar en shorinty:
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COMM UNICATIONS, LETTERS, etc. Jhave heen received from
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litmus paper. Analysis shows that it contains rather more than a drachm of sulphurous acid in 16 ounces, a little carhonic acid, and some lime, soda, potash, and magnesia, with a trace of phosphate of iron. Another analysis gires rather more than 3 cubic inches of free carbonic acid, and half a cubic inch of free sulphuretted hydrogen to the pound of water. The mud (Schlamm) which is found as a foundation wherever the hot water springs up, is of a greyish-green colour, and of the consistence of soft butter. It is much hotter than the water and cools more slowly. This mud is the real specialité of Pistyan. It has a much atronger odour of sulphuretted hydrogen than the water. In 100 parts of the mud there are said to be some 65 of silicious earth, 13 chalk, 6 oxide of iron, It clay, and a little phosphoric acid with magnesia, and some organic substance.
1 took one of the water baths at about $95^{\circ}$ for twenty minutes, simply as an experiment. On getting out of the bath an attendant carefully covers up the bather in linen sheets and woollen coverlet, and leaves him to repose and perspire for half an hour or more. In many eases the perspiration is kept up for a definite time, and the patients are not allowed to walk to their apartments, hut are taken in a sedan chair or small carriage. Bronchial catarrhs, uterine and bladder catarrhs, and chronic intestinal catarrhs, are all greatly benefited by a course of these baths, and children with whooping-cough are said to be very soon cured by staying in a room Which contains the vapours from the Pistyán Water. Constipation, hæmorrhoids, and amenorrhcea are also reliered, probably by the continuous free action of the skin lessening renous congestion, restoring the contractility or tone of the relaxed or dilated reins, and leading to increased appetite and better assimilation of food.
But the most remarkable effect of the Pistyán treatment as a whole-baths, Tater, andmud-is the removal of chronic exudations, especially those about joints and tendons, which have caused the socalled "spurious ankylosis." Patients thus crippled, with more or less evidence of peripheral paralysis, and some where paralstic and neuralgic conditions are evidently associated with, or follow, some serious change in the central nerrous system, are among the most numerous and the most successful of the cases which have kept up the reputation of listyán. Many inveterate cases of sciatica have been completely cured. In one sentence it may be said (using the words of the late Dr. Scherer, who wrote on the combination of electricity and massage, with the Pistyan treatment) that this combination "stimulates and increases the vita functions of the skin, the mucous membrane, the nerrous and circulatory systems, and consequently leads to absorption of pathological products." The last effect is greatly promoted by the mud baths, sometimes used for the whole bods, but more often for one joint or limb, either immersed in some suitable ressel, or used like a poultice.
It is evident, therefore, that the Pistyan treatment is resorted to in a great number of different conditions, the chief of them being those which are loosely called "gouty," and which lead to more ar less swelling, stiffness, and deformity of the joints, and are associated with the uric acid diathesis. Next to the gouty come the rheumatic affections of muscles and joints, ankylosis, and neuralgias, especially sciatica. Sufferers from chronic rheumatism soon experience remarkable benefit; and so do many with chronic periostitis, whether a sign of tertiary syphilis or not, and many paralytic eases, especially hemiplegia which has followed an apoplectic attack or some wound or injury, or lead or mercurial poisoning. I also heard of some remarkable cures of facisl paralysis, and of relief to the pains of locomotor ataxy. These are the cases where electricity and massage are principally employed in addition to the other treatment with a rational surgieal and orthopredic treatment on the prineiples of modern surgery. After the last war a great many wounded men who had suffered from simple and compound fractures of bones, or chronic exudations after other injuries, or neuralgia after amputations or resections, recovered rapidly, at listyán. And so with other chronic inflammatory swellings of glands, pelvic exudstions, metritis, and its results, uterine fibroma and hæmorrhoids. Such are the eases where, as is well known, sulphur baths at lschia and other places have been the great popular remedy. But at l'istyan we have, perhaps, the best of the sulphur baths hitherto made use of, more powerful and less disagreeable than any of the others.

I can searcely doubt if the Government, or $\quad$ bome powerful association of scientific and monered mea, carry out a plan which Las been proposed for developing Pistyán after the fashion of
better known watering-places which are far inferior in real therapeutie power, that this llungarian spring will become of far greater use than it has been to suffering humanity, and will be resorted to by invalids, not only from Europe and America, but from India and our colonies, and amply repay the enterprising minister or financier who proviles what is required by the invalid traveller in search of health, and by the rclatives or friends who aecompany him.

## REMARKS

## DIABETES MELLITUS, AND ITS TREATMENT WITH THE MINERAL WATERS OF CARLSBAD.

By B. HOFMEISTER, M.D. Carlebad.

About a century has passed since Carlsbad waters began to be used in diabetes mellitus. At that time, when the number of watering places was very small, all patients with ebronic, bardly curable diseases, were sent there as a last resouree; when it became known that some diabetic patients had derived benefit from its waters, Carlsbad was for a time regarded as a specific. At the present time the number of health-resorts has enormonsly increased, and some of them boast of the same efficaey in diabetes as Carlsbad; pamphlets have been issued denying that Carlsbad lias any efficaey, and various methods of treating the disease have been invented; jet the sufferers from that disease mostly prefer the Carlsbad waters, and the number of them who visit it increases every year. That this reputation is fully justified will be shown in the course of this paper.
I do not propose to diseuss the multifarions theories as to the etiology of diabetes whieh hare been propounded by Claude Bernard and so many others, up to the present time; I will only refer to Ebstein's recent hypothesis, which has some relation to the Carlsbad treatment.

Whilst most authors seek the origin of diabetes in a disorder of one organ of the body-the liver, stomach, pancreas, kidney or brain-Ebstein places its seat in the protoplasm of nearly all the cells of the body: but he denies that the presence of sugar in the urine is the result of a deficient combustion of the norraal amount of sugar into carbonie acid and water, and refers it to an overformation of sugar, occasioned by the want of a sufficient amount of carbonic acid in the protoplasm of the cells. By a series of chemical experiments he has found that the eapacity of diastatic ferments to dccompose hydrocarbon is mueh restricted by the presence of a certain amount of $\mathrm{CO}_{2}$ : when this is lessened, the glycogen in the human tissues, he says, will easily be transformed into sugar. He thus looks upon diabetes as a chemieal disorder, due to an anomalous nerrous influence, the nature of whicb, however, he is at a loss to explain.
According to this theory-the truth or falsity of which has still to be established-the direct introduetion of $\mathrm{CO}_{2}$ into the protoplasm by the hlood would be a rational method ${ }^{2}$ of treating diabetes; Fibstcin goes so lar as to recommend injections of $\mathrm{CO}_{2}$ into the rectum. Now, it is certain that alkaline waters containing a large quantity of free earbonic aeid, especially those of Carlsbad, tend to lower the amount of sugar in the urine, and eonsequently somewhat to improve the health; but, on the other hand, it cannot bedenied that their curative action is but slight, compared with that of a proper antidiabatie diet, eonsisting in the main in avoiding swcet and farinaceous food. The combination of both these plans must still le regarded as the best method of treating diabetes; therein all Carlshal physicians are agreed. They differ only in one point, namely, as to the significance which is to be attached to the quantity of sugar to be found in urine, in regard to the prognosis and treatmient of diabetes.
As is well known, two forms of diabetes are nsually distinguished; (1) the slight form, the amount of sugar being directly proportioned to that of starch matters taken by the patient, and adcordingly entirely disappearing if they are only abstained from ;
(2) the severe form, in which roore or less sugar is present in the urine, in spite of the strictest antidiabetic regimen, and in which therefore sugar is formed also from albuminates. This elassification however, which cannot be applied to each individual ease, and does not eomprise all cases, has been mueh criticised of late, and will probably soon be abandoned.
As a guide in treatment, I venture to propose a practical division of diabetes into three large groups.
(a) Sutgar in Proportion to the Severity of the Disease.-A great many of the most conspicnous symptoms (sugar in the urine from 1 to 7 per cent, polyuria, polydipsia, emaciation, languor, impotence, etc.) were present. This form is by far the most common of all, and, as it can never fail to be elearly recognised, we may call it "diabetes manifestus."
(b) Much Sugar, with Slight Diabetic Symptoms.-In patients cf this group we may find from 1 to 5 per cent. of sugar, and eren more, and yet with such slight diabetic symptoms that they escape the notice both of the patient and the physician. Here we mostly observe disorders of the stomach and intestines, sometimes of the nervous system. The diagnosis is incidentally made by an examination of the urine. This form is more frequently met with than might be supposed, and is rightly called "diabetes decipiens."
CASE I.-T. B., lawyer, middle-aged, had always enjoyed good health. In the year 1887 he first complained of malaise and irritnbility of temper, whieb be was inclined to ascribe to slight dyspepsia with constipation. IIaving formerly been of a cheerful disposition, he gradually beeame moody and irascible, and in August, I887, he went to Switzerland, thinking that rest and change of seene would do him good. At Genera he consulted a physician, who aeeidentally sat at the same table dhote with him, and thus had the opportunity of observing the patient's inordinate foudness for sugar and sweets. Out of mere euriosity he ana$1 y$ sed B.'s urine, and was surprised to find 5.5 per cent. of sugar two hours after dinner, and about 3 per cent. at different hours on the subsequent days.
At the end of August B. came to Carlsbad. Fere I could detect no symptom pointing to diabetes beyond a certain degree of neryousness manifesting itself, partieularly in headache and insomnia. At first I was inclined to look upon the case as one of simple glyeosuria, due to the rast amount of sugar consumed by the patient, although in normal constitutions we find at most very slight traces of sugar from this cause. I soon beeame convinced, however, that I had to deal with a real diabetes mellitus, for, though the patient abstained entirely from sweet matters, from 2 to 3 per cent. of sugar. was still found in the frst week of the trentment; the following week it gradually decreased, and in a fortnight it had wholly disappeared. With the cessation of sugar-excretion the patient greatly improred, the headache and insomnia left him, and he regained his natural cheerfulness. The last week he was allowed to take a moderate amount of farinaceous food ( 80 grammes of white bread in the day), of all sorts of vegetalles, and of uncooked fruits, without the sugar reappearing. During the following three yenrs his health remained excellent. when suddenly, without any evident cause, a relapse occurred in July, 1887, which was again cured by the Carlsbad treatment.

Case if.-B. P., aged 42, was sent in 1886 to Carlshad for hatitual constipation of very long standing. Many remedies bad previously been tried in rain. The patient's habits were not sedentary ; he did not suffer from hemorrhoids; his appetite was pretty good; there was no apparent disorder in any other organ. Ilis urine was found to contain 4.6 per cent. of sugar. On being closely questioned he remembered liaving sometimes felt drynees of the tongue, and be had heoome somewhat thinner of late. Ile had always drunk beer very freely, and was not conscions of greatcr thirst than heretofore. After four weeks of treatment he left Carlsbad without a trace of sugar. Next year, 1887, he came again, but this time only "to show himself," for he had not been trouhled with dryness of the tongue, and his bowels acted regularly; in short, he felt perfectly well. I was the more surprised to find again 3.2 per cent. of sugar; lie had kept at home on strieter diet only for some weeks, and then, feeling quite well, indulged in ordinary food, like other people. Three wecks of Carlsbad treatment sufficed this time to remove all trace of sugar; the patient on leaving was adrised to diet himself strictly for a whole year.
$J$ am of opinion that all forms of diabetes decipiens exist only for a certain time as such, for one year or two at most, after
rhich the more conspieuous symptoms of diabetes slowly appear ; he cases are a contrast to dia betes acutissimns.
(c) Little Sugar and Severe Symptoms.- Patients of this group affer from severe disturbances in various parts of, the system, or n general nutrition, and yet have a minimum of augar in their
rine, not only in the beginning, but sametimes also during a rrine, not only in the beginning, but sometimes also during a
jery long period, so that it can be found only by a most careful und thorough examination of the urine by special methods. The lirect contrast which this group offers to the preceding one (b) is bvioua. From its resemblance in this respect to the form of ever known as "intermittens larvata," in which the characteristio jaroxysms are "replaced hy quite,
nay be called "diabetes laryatus."
CASE III.-K. D., merchant, aged 52 , who had always been healthy, irst became aware of gradual emaciation in the spring of 1885 therwise, he felt quite well. Some time later a dyspepsia nervosa jecurred with loss of appetite; this having been cured by mediine, the emaciation ne rertheless prot kilogrammes (187 to $158 \frac{1}{2}$ English pounds) within eight montha. The first analysis of the urine, which was made on November 10th, 1886, showed 0.7 per cent. of augar. He kept to antidiabetic diet during the whole kilogrammes ( 165 pounds). In April, 1887, he returned to ordinary food, when he again began to lose flesh; there was, however, no thirst, no polyuria, no impotence, no skin affection. At the end of May he began to suffer from great nervous irritability, without any apparent cause. Ile was sent to the seaside, where sereral, probably superficial, examinations of the urine gare no evidence of gugar. Feeling no better, the patient came to
bad on August 19th, 1887 . On the day of his arrival I could discover distinct traces of sugar. I persuaded the patient to live in a strietly antidiabetie manner, and ordered him two tumblersful of Mühlbrunn daily. In two weeks he had gained two kilogrammes (42 wounds), felt pretty well, and no sugar was to be found. By matters for three days, when amall traces of sugar were again detected. I therefore reeommended him to keep to the strictest diet for \& whole year. This patient, whom I accidentally met a short time ago, had followed my advice strictly, and is now muel better as regards his nervousness; his; nutrition has likewise improved, his weight being 80 kilogrammes ( 176 pounds).
This case elearly proves that the severe disorders of nutrition -namely, the emaciation in diabetes-is not the consequenee of ing ont of the on of sugar from glycogen, nor of its loss by passdiabetes as the exeretion of sugar itself, although there may be no causal connection between them.

Case IV. - Mrs. G. C,, aged 38, whe three years before had been plump and rosy, now somewhat thin and pale, had never had any serious illness; four children; menstruation perfectly regular. In 1884 she began to be troubled with such intense itehing in the vulva and the surrounding partsenthat she could not help frequently scratching herself. In this way her sleep was disturbed every night; by-and-by she lost appetite, and fell into a state of melancholy and deapair. She could not make up her mind to seek medical advice till the end of 1855, when both her thighs and the lower half of the abdomen were eovered with eczema from seratching. She was treated with various plasters time ointments for nearly two years, but all in vain. . For a short by relapse. The urine was examined sereral times, but either a very small quantity of sugar, or none at all was found. I could not learn what method of examination had been used. The patient came to Carlsbad on July 27th. 1887. An immediate examina-
tion tion of the urine showed 0.5percent. of sugar. She was then treated like Case III. After one week the itching had nearly subsided, and while eczema had mueli improved withont any local treatment, patient, thinking that sle need not keep strictly to the diet I had preseribed, took two rolls of white bread daily at dinner, and in two days was again as bad as before, the sugar, whieh had entirely disappeared, returning to the extent of 0.4 per eent. After that sho followed the treatment strictly, and left Carlsbad whelly cured.
Until recently it was the general belief-and the opiuion is still held by some-that small quantities of sugar iu the urine are of no. partieular significance, and do not eall for treatment. It is
whieh causes such serious symptams, since we observe large losses of sugar pretty well talerated by the system (Group b); hut it is, and I lay much stress upon this point, a highly important piece of evidence in the diagnosis and treatment of a scrics of eases, in which no treatment but the stricteat antidia betic regi-
men will be in urine-within certain limits-will therefore never give us a reliable ground for prognosis, inasmuch as in some casea it is in inverse ratio to the sererity and danger of the disease. Thus, when we meet with various maladies, like neurasthenia, dyspeprsia, emaciation, eczema, retinitis, cataract, bails, etc., and in connection with them an excretion of even mere traces of sugar (such
excreti excretion being not temporary but permanent), we must not accordingly.
Artifical. Glycosuria.-The diagnosis of diabetes larvatus is sometimes rendered diffeult by its resemblance to the so-called "glycosuria transitoria," or dia betes alternans. it it well known meningitis, epileprent maladies (gout, rheumatism, typhoid fever, appear in the urine. We likewise know that an excretion of sugar may be artificially produced by a serere injury, by serious abdominal operations, especially by lesion of the floor of the fourth rentricle or of the medulla oblongata, and by cutting the roets of the spinal nerves. But this kind of glycosuria cannot be
regarded as diabetes regarded as diabetes mellitus; there is an essential difference pears with the attack which ealls it forth at most some weeks after it. 2. It is never followed by serions consequences. 3. A further distinetive feature is its entire independence of starchy food. The risk of confounding them may therefore be easily aroided.
Prognosis of Diabetes Mellitus.-Regarding the prognosis of diabetes mellitus, one point must be discussed in the first place, namely, whether diabetes is eurable or not. In pulmenary phthisis we unhesitatingly make an unfavourable prognosis, and yet there are post-mortem eridences enongh in old persons of case with diabetes? Has a restitutio ad integrum ever been ohserved in true diabetes in the sense that persons who once have suffered from it cease to be compelled to keep to a special diet, without risk of relapse? Sueh cases hare been mentioned br some renowned authors, as well as by old Carlsbad praetitioners for my part, I confess that I am rery sceptical, for I have not been so fortunate as to find one case of perfeet cure out of eighty-six cases which I have ohserred sinee the beginning of my twenty-fire years of practiee. On this point 1 entirely agree with
Professor Ebstein, wiw is curable, and only concedes that denies that diabetes mellitus somewhat larger amount of starch and even sugar is well tolerated, diabetes appearing again as soon as these limits are tran*gressed. There is always, therefore, liability to relapse. On the other hand, it cannot be denied that there are a great manr patients who prolong their lives by judicions conduct. I myseft know a case of diabetes of almost fifteen yeare' standing.
chrose dyspepsia, November, 1874 , I was consulted by K. Y. for chromic dyspepsia, the origin of which I could not easily discover.
After some weeks of fruitless hydropathic treatment, diabetic symptoms suddenly came on; analysis of the urine slowed 4.5 per cent. of sugar. I immediately recommended him Carlsbad waters,
together tagether with antidiabetic diet; since then he has regularly risited Carlsbad for four weeks every year. Whilst there he keepis
to the strictest diet. but during the rest of the year to the strictest diet. but during the rest of the year he takes at
moderate amount of farinaceous food. only aroiding sweet stances. Learing Carlsbad each time witli only small traces of sugar, he Fearly returns there with from 2 to 4 per cent. of sugar. With the exception of emaciation (his weight liaring fall on from 198 pounds to 130 pounds between 1574 and $188 \%$ ) he feels no illness or discomfort, and can attend to his busiuess as well as ever. cases, howerer, are exeeptional. On an average. the vast majority of cases cud fatally in a far shorter time. mostly within from two to five years, the immentiate carse of death being some intereurreut disease-such as pneurcoaia, tulerculosis, eerebral apoplexy, aud, lastly, diabetie coma.
Significance of the Quantity of Sugar:- There are ro alsolutelytrust worthy signs whieh enable us to distingui-h the serere casi:

diet, shgar persists above 1 per cent. There are, hoverer, exceptions to this rule. In former times great significance was attached to the complication of sugar with acetone or diacetic acid in the urine, but this has proved false, severe and mild cases heving heen equally observed with and without acetonuria. My experience of late years has taught me to regard the complication with nervousncss, especially restlessness, irritability, and sleeplowness, as very serious. The quantity of sugar in itself is, as has sircady bean mentioned, of no great intluence upon the prognosis: the largest amount may disappear in the shortest time by proper treatment, while the smallest quantities, as can be gathered from Cases III and ir, are sometimes associated with serious disorders of the system, and cannot be got rid of by any means at our disposal.

Betimation of Sugar in the Crine.-Owing to this fact, it may not be superfluous to add some words about the recent introduction of more accurate methods for the detection of the smallest traces of sugar present in the urine; but from want of space I can only mention those which, from their simplicity, are, most availalle for the ordinary practitioner.

1. Fehling Method Modified by Seegen. The urine is filtered through a thick layer of auimal charcoal (of blood), which absorbs the whole of the sugar; the eharcoal is rashed out with distilled water, which dissolves out the sugar, which may be tested with Fchling solution; traces of sugar will be found in the second, and even in the third and fourth washing. This method is mostly used by the chemists of Carlsbad.

2 Penzoldt's Method. -Some drops of a solution of acetate of lend, mixed with some drops of ammnnia, are poured into a testing tube half filled with urine. If sugar be present, the precipitate will be rose-coloured; if not, white. This is a pretty good and sensitire test.
3. Johnson's Mcthod. -Some irons of pieric acid are added to the urine, which is then mixed with a solution of potash slightly heated. A light red colour appears in normal urine: the presence of sugar makes the colour decp red. As the difference between the two is only a difference in shade and not in colour, the observer is naturally exposed to optical mistakes, a matter which impairs the value of the test. It can, nevertheless, be recommended for its otlier good qualities.
4. E. Fischer's Method Morlified by Jaksch.-This method is highly to be rccommended in every respect. It is based on the power of phenylhydrazine to unite with grape sugar and form characteristic crystals. To a measuring beaker half full of water, two drachms of hydrochloric phenylhydrazine and three of sodium acetate are added; the compound having been heated a little, the same quantity of urine is added, and placed in a ressel of boiling water for fifteen mintes; it is then quickly put in very cold water. After standing for some minutes a yellow sediment slowly falls, in which crystals of phenylglucosazon are always to be found if the least quantity of grape sugar be present in the urine. These yellow crystals hare the shape of long rods, terminating at each end in round balls or hunches.
. Molisch's Method.-The recently inrented double method of Molisch ( (1] a uapthol and [?] thymol, both with sulphuric acid) is worthy of inention, as it mill detect the presence of even 0.000 l jer cent. of grape sugar; it is, however, entirely useless for our parpose, as it produces exactly the same reaction with cane sugar, maltone, and all dissolved albuminates.

Tratment. There is no gencral rule for the treatment of Jiabetes mellitus; each case must be dealt with according to its individual features. It would be a great mistake to allow erery pationt passing only a trifling guantity of sugar a greater amount of starch; on the other hand, it would be wrong to be too rigor?Hs towarls every patient with $\overline{5}$ per eent. and above. The first indication is to improve the general health, remove the most vrgent symptons, and give tone to the nerrous and muscular aystem. We certainly sucered in Carlshad in some cases in lowering the amount of sugar from 5 par cant. to a mere trace solely ly strict diet. This mny he dnie in a very short time, frequently within twenty-four hours: but the patient derives no bencfit from the loss of his sugar; on the enotrary, he feels daily worse, he declines rapidly, so that we are eomppliet again to allow him s certain quantity of amylaceous foorl, with the certainty of increasing the excretion of sugar, but, at the same time, of improviug the condition of his health. In like manner we sometimes observe that patients of the e group. With 0.5 per cent., or still lasi, will not get hetter as long as this small quantity of sugar is wot whol'y got ril of by mean of tho strictest diet (Cantani's).
let, setting aside the question of idiosyncrasy, there remains a series of hygienic and therapeutic rules equally auitable for all sufferers from diabetes. Although these are gonerally enough known, they are of anch essential importance that I may bo allowed to summarise them.

1. The dietetic and hygienic regimen ought not to be totally changed in a sudden way. Sweet things must be at once forbidden; the amylaceous food should at first be confined to vegetables of all kinds, except the leguminous ones, and bread, 100 grammes of which may be allowed, this quantity being gradually reduced to 60 grammes, and so on.
2. Pure fat and fatty meats are highly to be recommended for their great efficacy against congenital predisposition to diabetes; $150-200$ grammes may be allowed daily:
3. An exclusive meat diet (Banting treatment) is rather dangerous in diabetes, because it strongly promotes the disintegration of albumen, that is to say, emaciation.
4. All substitutes for bread are objectionable, partly hecause they contain a cousiderable amount of starch, and partly because they are all more or less indigestible. Fürbringer's gum bread (Kleberbrot), manufactured by Basserman, at Manheim, secms to be the least injurious of these.

Diabetics ought to masticate perfectly each bit of fond, eating slowly, in order to mix the food completely with the mucus of the mouth.
6. In all cases in which a somewhat larger indulgence with regard to the diet is admissible, all sorts of vegetables, including the sweet ones (turnips, carrots, cabbages, ete.), only excluding the leguminous (peas, beans, and lentils) are permitted, likowise raw kernel fruits and berries.
7. Milk and wine should be allowed only in small quantities, even in mild cases; half a pint of each daily should bo looked upon as the maximum dose. All sorts of beer must be forbidden under all circumstances.
8. Fxercise is much indicated, especially as long as farinaceous food is partly allowed. The hest time for it is immediately after dinner, and it should be continued for at least two hours. Riding on horseback and hill climbing (if the ascent is not too steep) is certainly preferable to gymaastic morements indoors; but when outdoor exercise cannot be taken we are now in possession of a good substitute, I mean the "ergostat" recently invented by Professor Gartner, of Vienna (see Jocrnal, January 7th, 1885 , p. 35). Patients, who, in any stage of the disease, are easily fatigued by the least muscular exertion, will derive great benefit from daily massage of the whole body for twenty minutes (Finkler).
9. Warm baths, as the best means of keeping the function of the skin in order, are very beneficial to sufferers from diabetes, provided that they are used at a temperature of $93^{\circ}$ to $91^{\circ}$ for fifteen minutes not of teder than twice a week.
10. The mineral waters of Carlsbad are undoubtedly of the greatest use in the dietelic and medical treatment of diabetes: their effect is mostly dule to the alkaline salts they contain. Although there are several alkaline springs in Germany and else where which hare similar ingredients, though in different proportions, and which boast of still better climatic conditions than Carlsbad, yet in their efficacy against diabetes they are far inferior to Carlsbnd.

According to the theory of Ebstein, referred to at the beginning of, this paper, the efficacy of alkaline waters in general would be clearly explained by the direct supply of carbonic salts and free, carbonic acid to the protoplasm of cells of the whole systom; but the question why any other mineral water with as much carbonic acid is not to be compared to those of Carlsbad in efficacy against diabetes remains unanswered. I'feiffer, of Wiesbaden, attributes to Carlsbad waters the capacity of restraining the organic disintegration, and hence their beneficial influence in diabotes accompanied by emaciation. The quantity to le taken ia diabetes is not different from that indicated in other diseases. It is
continued till the urine becomes alkaline, or other symptoms of saturation appear.

In severer cases the treatment should be carried out twice a year-in the spring aud in the autuma. That drinking the water at Carlsbar itself is of much greater value than drinking it at home is so well known that I need not dwell on that point.
11. Among the innumerable drugs recommended for diabetes, there are but few worth mentioning. In the first place there is opinm, the tolerance of which by diabetic patients is remarkable and inexplicable. Opium makes the sugar disappear; it diminishes
bnormal tissue-waste, and consequently increases the weight of he body; it causes neither narcosis nor constipation in doses rhich would be positively dangerous if given in other diseases. till more elficacious is morphine, in doses of from 1 to 3 grains laily. The beneficial effect of these irngs, however, does not last iery long; after three or four months they lose their effect, and inere is, moreover, the risk of the opium-habit becoming conmid under strict medical supervision. Salicylic acid, phenol, and 3alicylate of sodium, are far less usefnl.
In conclusion, 1 venture to lay down the following propositions, 98 summing up the results of my studies and observations:

1. We are still in total ignorance as to the etiology of diabetes mellitus.
2. The quantity of sugar found in the urine is of no significance atall in ju
3. The smallest traces of sugar, found only by most careful chemical examination of the urine, are of considerable importance in a great many cases, so that they cannot be left out of account 4. The dietetic treatment must be adapted to the special re-
4. quirements of each case, as there are cases in which, without regard to the amount of sugar excreted, complete abstention from starchy matters is not only useless, but directly injurious.
5. According to the present knowledge, strict antidiabetic diet, combined with the use of the mineral waters of Carlsbad, is the best method of treating diabetes mellitus.

## ON DIABETES AND ITS CONNECTION WITH HEART DISEASE.

By JACQUES MAYER, M.D.,

Carlshad.

1 GLANCE at the literature of diabetes, which, more especially
since the remarkable discoveries of Claude Bernard, has attained very large proportions, shows us that singularly little is as yet known about certain affections of the heart and blood-vessels which are apt to occur in the course of that disease. This may perhaps be accounted for by the circumstance that those who have occupied themselres with inrestigating the pathology of diabetes seem to have given their chief attention to the examination of those organs which experimental physiology had shown to be more particularly involred in its production. Thus Seegen, Cantani, Senator, and other authors hardly mention this point at all; while Donkin, Schmitz, Leyden, and others only casually allude to it. Nine years ago I published a paper (Berliner Klinische Which I lishense 1879, Nos. 21, 31, and 32) on certain symptoms which I had observed in cases of diabetes complicated with dysproea; they complained of pain and oppression in the cardiac region; the pulso was abnormally quick, beating at the rate of 120 to 140 in the minute, with marked want of rhythm (delirium cordis). The pain sometimes spread from the heart to the shoulder or to the lett arm. In fact the symptoms were analogous to those of angina pectoris.

Attacks of this kind have come under my notice in the initial stage as well as in the further progress of the disease, but-more frequently at an adranced period, after the obesity had more or less subsided; and the physical examination of the heart showed I did not then think that there existed an etiological connection between these symptoms and the diabetic process, or, more strictly speaking, the saccharine blood; more especially so because the same cardiac symptoms and physical state of the heart on which Leyden has thrown a flood of light have also been frequently ohserved in cases of obesity without diabetes.
Subsequently, however, I discorered
Subsequently, however, I discovered similar symptoms in dia-
betes uncomplicated with olesity, and I then thought it would be important to ascertain accurately, as far as possible, from the yery beginning of the disease, the physical condition of the heart in every single instance which cane under my observation. I expected to arrive at some interesting results in this matter, as the waters of Carlsbad attract ycar after year a very large number of
patients suffering from sliahetes, who belong to all classes of society, and the cases being in all the various degrees of intensity. I am fully asware that observations of this kind cannot claim the same degree of accuracy as those made in hospital practice, hut written notes taken at the time. The number of cases being comparatively large, some degree of value may perhaps lee attachrd to these observations.

From 1879 to I88S I have had under my care 380 cases of diabetes, of which 266 occurred in males and 114 in females; the large majority of these cases, namely, 248 , occurred between the ages of 40 and $60: 337$ cases were in the first, and 43 in the second stage of the disease.
In this, as in previous papers on the subject, 1 prefer spicaking of "stages" rather than of a "mild and severe form;" as experience has shown me that the former classification meets the facts of the case far better than the latter. Out of cases of the second degree, 26 merged, as it were under my eyes, from the firs inta the second stage. of the malady, and direct our attention to the general appearance of the patienta, we notice certain distinctive features in them, which, though they are not absolutely constant, are yet sufticiently characteristic to enable us to distinguish three wellmarked types of diabetic patients.

We have to do then: I. With patients of a feeble and delicate constitution, a more or less pale complexion, and a timid and anxious expression.
2. With patieuts who, on the contrary, have a vigorous and healthy appearance, a florid complexion, and a lively and animated expression.
3. With obese patients, some of whom are pale and sallow, while others have either a ruddy or a lirid complexion.
In the beginning of the complaint, or soon after it has commenced, the physical examination of the heart and ressels hardly ever shows in any case belonging to the three types just mentioned, that the sugar which is circulating with the blood, or any increased production of urea which may have occurred, have had an unfavourable influence upon the cardiac muscle. Auscultation and percussion reveal the same signs as in patients of similar conAfter the malady has, howerer, lasted for some timc, the physical signs undergo certain changes which come on sooner or later according to the individual case. To these I now proceed to direct attention.
In cases belonging to the first type, that is in those of a more or less anæmic and feeble constitution, I bare occasionally seen endocarditis superrene after some little time, as described by Lecorché (Archives Générales, etc., April, 1882, p. 385), but mueh less frequently than this author, and not so much in patients of an advanced age.

In other cases of the same type the well-known symptoms of cardiac debility came on suddenly, while the physical signs found on examination of the heart did not show that any morbid changes had occurred either in the eadocardium or in the nuccular substance of the organ. In these we may however conchale from the quality of the pulse, which is very easily compressible and of rarying frequency, as well as from the weakness of the heart's sounds and the occasional presence of the so-called "galloping murmur," that the functional power of the leart is lessened, and that this is owing either to atrophy or to retrogressive changes in the muscular fibres, that is, fatty degeneration.

In a further number of cases the physical examination of the heart, which had in the beginning shown nothing ahnormal, re vealed as time went on dilatation of the organ, which for a period did not seem to lead to any rery striking symptoms, hut which was, as soon as an exciting cause of some sort had acted, followed by severe dyspncea and delirium cordis.

Cases of this kind are analogous to those of over-strain of the heart haring a protracted course, in which Leyden (Die Merzkrankheiten, etc., Berlin, 188th, p . 34) has, with Da Costa, distinguished a first stage of functional disturbance of the heart's action, and a second period of organic lesion with dilatation of the ventricles.
With regard to diabetic patients of the second type, 1 have found in the majority of cases, dfter the malady had lasted for a variable time, a well-marked group of smptoms complexion becomes reddish, the mucous membrane of the mouth and the conjunctiva
are enugested, the eyes are lustrons, aud the carotids pulsate strougly as soon as there is the slightest emotional excitement. Vertigo, heallache, aud singing in the ears are frequently complained of. The lirst signs of shortness of breath appear habitually after a somewhat abundaut repast; walking exercise after meals causes discomfort; there is pain in the stomach and belching, and the action of the bowels becomes irregular; sleep is briken, and often disturbed ly a dry cough. The pulse is full and strong, but does not show unduly high tension. It is regular and not accelerated, but, on the contrary, sometimes rather returded.
The physical examination of the heart shows a strong impulse, Which extends over several intercostal spaces. The npex-beat is either within or without the mamillary line towards the left side, mostly in the fifth or sixth intercostal space. Percussion shows an eularged sphere of dulness upwards and downwards, and less so in the transverse direction. The heart's sounds are loud and nermal. In short, we have to do with idiopathic hypertrophy of the left ventricle, which has become gradually developed.
Further observations have shown me that this condition of the heart may persist for a number of years without producing much systemic disturbance, provided the patient aroids over-exertion and emotional excitement, is temperate in his habits, more cspecielly in regard to atcoholic stimulants, and is careful to take regular exercise. On the other hand, where there is impaired nutrition; where, as is sooner or later always the case in diabetes, the food thaken does not suffice to supply the wants of the system; where, therefore, the structure of the organs themselves is called upon for the maintenance of work, or where sedentary habits of life promote arterio-sclerosis, then the functional activity of the heart becomes lessened. The cardiac muscle is then relaxed and dilated, or sooner or later severe symptoms of disturbed balance of power make thir appearance. Signs of cardiac debility, in fact, nre then of cardinal importance for the further progress of
the disease.
In a considerable number of cases of diabetes, therefore, hypertropliy and dilatation of the heart become developed without there being any morbid changes in other organs, such as the kidneys, arteries, etc., which oo frequently lead to these affections. They must therefore be owing to chemical irritation of the heart by the sugar and urea which are circulating in the bloorl. Diabetic patients eliminate more urea, other things being eljual, than healthy persons; cases are on record where from three to five imes the average quantity of nrea has been excreted. The quantity of sugar contained in the blood in this disease likewise far exceeds that which is found in the normal blood, and it may therefore act as an irritant on the heart's structure.
This abnormal condition of the blood leads to polyuria, glycosuria, and ngoturia, which are known to have a prejudicial inHueuco on the kidneys by causing hypertrophy and hyperplasia of
those organs. In connection with this I may here refer to the those organs. In connection with this 1 may here refer to the experiments of Gravitz and Irael (Virchow, Archiv, vol. 86 ,
p. 299 ), who have produced hypertrophy of the heart in rabbits, p. 299), who have produced hypertrophy of the heart in rabbits,
irst, , iy cousing chronic nephritis, and, secondly, by remoring birst, by causing chronic nephritis, and, secondly, by removing tion which took place in their experiments by the partial loss of renal function, and conclude that the matters which artial exereted from the blood by the kidneys constitute an irritant for the heart leading to increased function, and eventually to increased volume.
larael has, iu another series of experiments, arrived at results which afford a. considerable amount of support for the siews which 1 have been led to form with regard to heart affections heing the sequelre of diabetes. He fed rabbits with large doses of uroa, and founl, after a few weeks, that hypertrophy of the heart camo on, which was preceded by hypertrophy of the kidneys, showing that the syatem gradually gets accustomed to increased claims on the functional activity of the organs, as no serions devintion from health occurred in these animals. A similar result occurred after the introduction of nitrate of sodium, while grape angar did not appear suitable for prolonged administration. If, however, injections of a concentrated solution of one or two grammes of this substance were made, either into the reins or inta tho peritoncum, it could be shown with a kymographion that increased blood-pressure was the result.
From these experiments Israel has drawn the conclusion that healthy kiln eys will, to a very great extent, answer the increased cells mado on their power, but that, in extreme cases, such as diabstod and feeding with urea, they eventually become insufficient, and this sooner or later, according to individual circum-
stances. This insufficiency is then met by increased action of the heart, which, if persisting for a considerable time, leads to hypertrophy of that organ.
It is in this sense that $I$ wish to be understood to account for the hypertrophy and dilation of the heart which is so frequently
found in diabetes. found in diabetes.

It is well known that the kidneys are often found after death in a state of hypertrophy and hyperplasia; and while the results of necropsies of such cases which are hitherto recorded do not seem to confirm my theory, I would point to the fact that these post-mortem examinations have been made on hospital patients, who are generally admitted for more or less acute diabetes, which is connected with rapid wasting of the substance of the organs.
The cardiac muscle in such cases behaves much the same as other muscles when they have to do more work, yet do not become hypertrophied if they are badly nourished.
A very telling analogous instance is furnished by pernicious anæmia, where the small quantity of oxydisable constituents of the blood, and the necessity of supplying the system with oxygen, aet as irritants on the heart, and would lead to hypertrophy, provided the heart were well nonrished; but as such is not the case,
and the heart is called upon for undue efforts, fatty degeneration and the heart is called upon for undue efforts, fatty degeneration will, on the contrary, be the result.

We may therefore take it for granted that the anatomical lesions to be found in diabetic patients of a better class would differ, so far as the heart is concerned, from those to be met with in average hospital patients.

Considering the fact that of the former class of cases hardly anything is known in this respect, 1 thought it all the more important to go carefully through the records of the Pathological Institute of Berlin, in order to ascertain any anatomical changes in the latter ciass, more especially as Israel had already found in 10 per cent. of diabetic cases which had proved fatal in the
Charite hypertrophy of the heart without valyular disease and Charite hypertrophy of the heart without valvular disease, and without affections of the arteries and kidneys.
Professor Virchow was kind enough to allow me to pernse these records from 1856 to 1887. I gave special attention to the stated condition of the heart, blood-vessels, and kidneys, and found that the percentage of hypertrophy and dilatation of the heart was 13.0, while in the cases observed by myself it amoünted to 21.6 (S2 out of 380).
Want of space prevents me from giving the details of the postmortem records of the Pathological Institute, hut I may say that most of them show simultaneous severe affection of the lungs, and nearly all of them morbid changes in the brain ; while in my own 82 cases no organic disease could be discovered, either by clinical symptoms or physical examination. The percentage of 13.0 must therefore be looked upon as considerable. I will not omit to mention that in a number of the other post-mortem records, hypertraphy of the heart with chronic endo-aortitis, as well as endo-arteritis and hypertrophy, were the primary affections.
While therefore heart disease in diabetes has only quite recently been described, and that by a very few authors, the occurrence of arterio-sclerosis in that disese has been much more fully dwelt npon, more especially by frerichs. Those who leave out of account the increased functional activity of the heart have to look to the chemical alteration of the blood as the causo of the vascular disease.
We have seen above that the accumulation of sugar and urea in the blood is not proportionate to the quantity of these substances which is eliminated, but that, on the contrary, in consequence of increased cardiac activity, a conpensatory elimination takes place in the urine, which is partly owing to enlarged kidneys and partly to changes in the heart's structure. The dilatation of the blood-vessels which occurs subsequently is simply owing to the increased work of the heart, which throws more blood into the vascular system in a unit of time. Tascular disease is the consequence of permanent mechanical irritation.
Sir William Gull's and Dr. Sutton's "arterio-capillary fibrosis" as occurring in nephritis, and Dz. Ewald's " muscular hypertrophy of the arterioles" must be looked npon as secondary consequences of the cardiac disense. In the same way, the occurrence of arterioaclerosis in diabetes has to be traced to the mechanical influenco of cardiac changes.
I hope to have rendered it evident that the cases of cardiac disease whieh 1 have observed in patients suffering from diabetea have to be traced to morbid changes of metabolism. My argument is, moreover, well supported by the observations of several authors, such as. R. Schmitz, who have apparently found fatty
egeneration of the heart in a large percentage of $\operatorname{cas}^{\theta} \theta^{s}$ of
iabetes. If If we read such statements by the side of the anatomical ecords which I have mentioned, it will be seen that they hare obe caken for what they are worth; for all commonly met with wst mortem. On the other hand, such observations have a clinical alue, since, as far as symptoms are concerned, fatty degeneration, afiltration of fat, brown atrophy, dilatation, and other auatomical sions of the heart may show at times the same clinical aspect, - the claims made upou the heart by the diabetic change of aetabolism. Compensation under these circumstauces must Iways be temporary, more especially where the nutrition of he system in general suffers at an early period, and where the ormation of urea and sugar exceeds that limit within which rell-nourished kidneys an
liminate these substances,
As far as treatment is concerned, it appears from the foregoing lat everything should be avoided that may impair the action of he heart and kidneys; for we know that organs which are in a tate of hyperactivity easily become diseased. 1 may here refer o the frequent occurrence of valvular disease in nephritis, and of rephritis in diabetes. The latter I have found recorded in 30 ut of 66 cases contained in the records of the Pathological Instiate of Berlin. Stokris has forcibly drawn attention to the same ooint in his able paper on diabetes read before the late Medical 180 cress at Wiesbaden, while I have seen nephritis in 64 out of 180 cases, although not frequently in the form of granular conracted kidney.
The principle of sparing the suffering organs as much as posible has, in my opinion, to be carried out particularly as regards liet. In many cases a rigid nitrogenous diet cannot be enforced. 1 aave, on this account, during the last few years, frequently added aik to the diabetic diet, and can fully corroborate the favourable jestirnony which Hoffmann gave on this point before the late Medical Congress.

ON THE INDICATIONS FOR THE USE OF THE
KREUZNACH WATERS IN STRUMOUS DISEASE.
By DR. IUEUSNER,
The motive which leads me to publish this article is the fact that patients are frequently sent from England to Kreuzuach suffering from diseases for which the waters of this place are not suitable, while, on the other hand, many persons, for whose successful cure reasonable hopes might be entertained, are not ordered to Kreuznach at all.

General Treatment of Struma.-In the treatment of strumous disenses it is pre-eminently necessary to bring ahout an improvement in the constitution. The treatment of local affections, thongh frequently indispensable and very beneficial to the constitution, is seldom in itself sufficlent, and will certainly be facilitated and rendered more efficient by the adoption of a suitable general regimen.

Kreusnach Treatment.-The question which 1 propose to answer is whether a course of the Fireuznach waters is beneficial in all cases of struma, and under what circumstances their use is contra-indicated. I am unable to answer this question by quoting statistical data, partly because a plysician practising at a water-ing-place is apt to lose sight of the majority of the patients after too short a time, and partly because it is extremely dificult to give a decidecl opinion as to whether the strumous taint is definitely and totally eradicated. In many cases one caunot speak with certainty of a cure, but ouly of a general improvement. The result of my observations goes to prove that this improvement of the constitution has been attained, with yery few exceptions, in nearly all cases after a steady and persevering course of the Kireuznach waters. In many cases tho local symptoms so greatly predominate over the constitutional that the inprovement of the former directly mdicates the degree of constitutional amelioration. The favourable climate, and the possibility of exactly regulating the desired curative action, make a wisit to lireuzuach advisable for indiriduals of the most opposite aud varying constitutions. In some
cases, however, the hopes entertained with regard to Kreuznach have been doomed to disappointment, simply because people imagine that a single stay-and that often of very short duration -is sufficient to effect a cure. It is, however, only in very slight cases that a single course of treatment suffices; deep-rooted constitutional affections cannot be so easily eradicated; they necessitate not only repeated and lengthened visits to Kreuznach, but also continuous and careful dietetic treatment; while a subsequent stay at the seaside, or in the mountains, etc., is frequently indispensable.

Contra-indications of the Ereuznach Treatment.-Some complications of strumous disease make a course of Kreuznach waters futile, while others render it objectionable. For instance, I consider it distinctly contra-indicated in decided tubercular disoase of the lungs; also in disease of the kidneys at an advanced stage, and when slight manifestations of fever are kept up by a strumous affection which, from its very nature, seems to point to Kreuznach as a place where an improvement is to be hoped for, a trial may fairly be made-more especially when it is impossible to attack the disease at its seat, as is the case, for instance, with caries of the vertebra. Particular care should be exercised with patients suffering from valvular disease of the heart, or from degeneration of the beart-muscle, as the Kreuznach baths often unfarourably influence these complaints. Nor does the warm, dry climate which generally exercises such a beneficial influence on strumous perwituessed any fave patients suffering from asthma. I have not waters in cases of leukiemia or from the use of the Kreuznach leukemia, Hodgkin's disease, adénie), nor in cases of cancer The Kreuznach Treatment in Cilandular Enlargements. The obstinacy with whicl glandular affections resist any treatment is well known, and the question arises whether it is not advisable to extirpate the diseased glands at once before seeking other remedies. A source of tuberculosis is thus removed that might endanger the general health. My opinion is that, as long as the glands do not show decided signs of suppuration, weighty reasons may be urged against their extirpation, one frequent obstacle being the impossi-
bility of removing all the diseased glands. Besides which, the scars of the operation are permanent. A still weightier reason against the operation is, that an ontbreak of general tuberculosis has been known, in some cases, to follow immediately on the extirpation of the glands. Even glands that are already softened are capable of reabsorption, as well as the hard tumours men-
tioned in the pron tioned in the preceding sentence. When suppuration has comof a more serious kind-surgical treatment undoubtedymptoms better prospects of a rapid cure with small cicatrices aft ards other treatment. But, among the non-surgical curative than any the treatment pursued at Kreuznach is certainly that most methods, to cause indolent glandular swellings to decrease in size, and even to be entirely reabsorbed. In order to put a stop quickly to suppuration, when it has become established, and to promote cicatrisatiou, a course of hreuznach waters is frequently a most raluable addition to the surgical treatment. The above temark also applies to cold abscesses, not originating from glandular disease, from which scrofulous people often suffer.
In Skin Disease.-As to eczema and other superficial skin diseases of a strumous nature, they are cured with surprising rapidity by a course of Kreuznach waters. In lupus vulgaris success is more doubtful, though I am of opinion that a relapse may be considerably retarded by a course of Frenznach. But as, in this insidions disease, no one is secure from the danger of a relapse erell after several years, I do not venture to assert that the cure is definitive and permanent.
In Catarrh.-Chronic catarrls of the various mucous membranes, the obstinate nature of which is well known, are, without exception, farourably influenced by the Kreuznach waters, though of course deeply degenerated mucous nembrnnes cannot be restored to their normal state. This has special reference to the almost una yoidable coryza of strumous patients. In the various catarths most favournble. Adenoid veretations of any considerment are aro not, it is true, diminished by its use to any noticuable de size but small lymphatic follicles may disappear from the hack degree: the fauces. Hypertrophy of the tousils it may as well bo tioned here, is but seldom cured or even notably decreased.
In Ophthalmia. -The success attending the treatment of stru-
mours affections of the eyes is particularly striking when the object is to prevent the endless relapses of keratitis. Althongh the opinion' of a considerable part of the medicnl profession is opposed to the use of Kreuznach waters in florid inflammations and ulcerations, nothing in my experience justifies the laying down of such a contra-indication.
In Fiar Disease.-The effects obtained in disenses of the ear are less striking. Catarrh of the middle ear often leads to deep degeneration, shrivelling, adhesions of the mucous membrane, etc., Which render all hope of a cure futile. Nevertheless some of the dangerous surpurations of the middle ear, whether connected with an affection of the bone or not, have actually been cured at Kreuznach.
In Bone and Joint Disease--In spenking of affections of the joints and boues the difficulty is to detine the limit beyond which a surgical operation becomes necessary. We have certainly seen several cases cured at Kreurnach in which most surgeons of the present day would have adrised an operation. In other cases the removal of the bone, whether desirable or not, is impossible. On the whole I incline to the belief that it is safer, especially when the joints are involved, to operate a little too soon rather than to delay too long. This particularly applies to adults. Among the adrantages of such a course we miny mention that the transfer of the invalid to Kreurnach, in order to have his strumous ailments attended to after an operation, is generally attended by less difficulty. Besides, should nn operation become necessary during the course of treatment, it causes a very unpleasant interruption of the cure. For the definitive and final healing of wounds and ulcerations, the waters of Kreuznach have always proved excellent. Kidney disenses, such as are associated with suppuration of the bones, I have also seen cured when attacked in the beginning, but not after having been allowed to derelop fully. Though 1 have by no meaus exhnusted the list of strumons diseases, nevertheless I think that the foregoing considerations will suffice to determine in each particular case the desirability of a course of the Kreuznach waters.

THE MINERAL WATERS OF BRIDES-LES-BAINS AND SALINS-MOUTIERS.

## By P. DELASTRE, M.D.,

Corresponding Member of the Medical Society of Mydroiogy of Paris; Con-
sulting P hysician at Brides and Salius. sulting Physician at Brides and Salius.
Brides is a charming little village, situated in one of the most picturesque parts of Savoy, tive kilométres and a half from Moutiers, the chief town in the prefecture. The village stands at an altitude of $\mathrm{J}, 800$ feet above the level of the sea. Situnted in a valley, it is sheltered particularly from the east, west, and north winds; yet the pure air of surrounding mountains and glaciers of the Tarantaise is invigorating and refreshing to the most delicate constitutions. The country around is remarkable for its picturesque beauty and the variety of its scenery. Brides is accessible from Paris. in about fourteen hours, by the Lyons and Mediterranean Railway. The season is from the middle of May to October. The hotel, lodging, and bath accommodation is excellent.
The springs supply abundant water, at a temperature of $95^{\circ} \mathrm{F}$.; they are alkaline, and powerfully diuretic and slightly aperient, containing, as the chief ingredients, sodium chloride, sodium sulphate, magnesium sulphate, with smaller proportions of the alkalies, carbonates, and free carbonic acid, which imparts to them ${ }^{n}$ limpid and slightly sparkling character. The water presents many of the qualities of the famous Carlsiad springs, and, besides possessing valuable diuretic and aperient action, is also tonic and invigerating in debilitated constitutions. Its effects will be found to be especially serviceable in the various forms of functional derangement of the gastro-intestinal tract, especially when associated with abdominal plethora depending on clironic gastrointestinal catarrl, and congestion of the liver or spleen with constipation. Cases of biliary colic, lithiasis, and functional derangement of the liver, the result of prolonged residence in India and other tropical conntries, are almost invariably benefited by their use. In a brochure which I lately published, termed Eitudes sur les Eaur Minérales de Brides-les-Bcins et Salins--Moutiers, I have treated apecially of the plysiological and therapontic properties of the various springs. Their action is remarkable in assisting to restore healthy nutrition, and particularly in favouring the elaboration of cholesterine in the liver, and also the elimination of the
products of urea and of phosplatic salts by the kidneys. The use would seem also to farour oxygenation of the blood and th fornnation of hremoglobin, at the same time diminishing the tel dency to obesity in those so disposed. In gout generally, nn specially in atonic cases, the effects are often remarkable. il hav found diabetic patients also improve very much under treatmen
The springs of Salins-Atoutiers, the natiral temperature of whic is thout $96^{\circ} \mathbf{F}$, are rich in sodium chloride, and also contain iro and arsenic. Their properties are even more marked than those many other waters which possessa similaraction, such as Kreuznacl Homburg, Manheim, and Kissingen. The springs are less the two miles distant from those of Brides. Their use is of great valu in children of rachitic or scrofulous constitution, in anremit chlorosis, and other debilitating conditions in women. In affee tions of the uterus and appendages, they are of much service. 1 disordered menstruation, amenorrhea, dysmenorrhea, and let corrhen, and in fibroid tumours of the uterus, with uterine el gorgement, their use is attended with marked benefit. Thes waters are often of service in conjunction with the use of tho of the neighbouring springs of Brides. Dr. Iermann Weber, it his chapter on Climate and Health-resort in the Book of Healt, refers to Brides and Salins-Moutiers as "among the best summi health-resorts, not only for its springs, but for its delightfull salubrious air."
Were the raluable properties of these springs more widel known, as well as the natural clarms of the district in whic they are situated, I feel sure they would be Iargely take adrantage of.

# OBSERVATIONS ON THE USE OF THE EFFERVESCING CHALYBEATE WATER OF STRATHPEFFER SPA. <br> By fortescue fox, M.d.Lond., <br> Strathpeffer. 

Strathpeffer in Scotland and Harrogate in England are commonly associated with sulphur treatment, that it may not out of place to recall the fact that iron waters, of grenter or le value, are almost invariably found in the neighbourlhood of sil phuretted springs. At the first-named spa there ie, for exampl a chalybeate spring to which attention has been lately directe on account of its unusual character. It has been conveyed to th pump-room, where it issues as a water, richly carbonated aërated in the summer months. Here it is drunk, hot or cold, i a state of cloudy effervescence.
Thus it is usually possible at sulphur spas not only by the $u$ of iron to supplement with advantage the alterative effects aulphur, but also in an entirely different class of cases to provid a treatment founded on the tonic waters aloue. The object of th present observations is to illustrate this latter or primary use c the effervescing chalybeate at Strathpeffer. The cases whic appear to have benefited the most hy its use tend to fall, on th review of four years, into the following groups, examples of whic are appended.
Group 1.-Debilitated men of advancing age, with (probably o certainly) renal and rascular lesions, with or without gout.
CAse I.-A gentleman, aged 71, had lost health rapidly during th past twelve months. There was no obvieus disease in any organ. Th pulse was small and weak: urine normal. He was very anemi and rather sallow, showing some œedema of the face and hands The chalybeate was commenced in small doses, and afterwara increased to 60 ounces daily. Lnder this treatment, with judiciou dieting, strength and colour returned in a rery remarkable mannes
This gentleman died in the following year.
Case in.-A lawyer, aged 54, suffered from overwork and worry under which he completely broke down. He had two passing attacks of aphasia, which led to the discovery of albuminurie after which he was laid by nnd put upon a milli dict. Ile arrived at Strathpeffer a few weeks later, complaining much of hendache poor sleep, and great nerrousness and lassitude. The chalybeat was persevered in for five weeks, given always in small dozes, a short intervals, before breakfast and again at noon, and altogethe with the hest results. The only remaining symptom was a uriu faintly albuminons, but the specific gravity had increased fron 1013 to 1018 (or, on the arerage of 58 aunces in twenty-four hours 101\%).
CASE IIT. - A gentleman, aged 57 , stated (in 1885) that he hac

Iffered from gout in the feet for about four years. In that year took for four weeks the strongest sulphur water and baths. e following season (1886) he returned, having had two very ight attacks of gout during the spring. The general condition as, however, changed for the worse. He was anæmic and nguid ; the urine was very albuminous, although the skin still :ed freely. After a few days of sulphur treatment the chalyzate was resorted to with benefit. The next year (1887) he ported himself as moderately well, but he had had several gouty tacks in the feet and knees. One of these had been "brought by a course of steel." The effervescing chalybeate was taken if three weeks, and he left the spa without gouty symptoms id much better iu every respect, and able to walk several miles ia stretch. The urine remained faintly albuminous.
It is thus evident that a sparkling iron water of moderate rength (a third of a grain to the pint) may be useful in gouty ses; or, rather, it may be proper to disregard the gout and treat this manner the more serious maladies to which it has given se. But whether gouty or otherwise, a condition exists of preature senility of the tissues, with anæmia (perhaps hydremia), id often with signs of renal failure, in which carbonate of iron, eely diluted, is beneficial. And thus if Leamington, with its line chalybeate, is excellent in the anemia of the young, so no ss Strathpeffer, with its effervescing carbonated chalybeate, may i regarded as congenial to the anemia with debility of the ed.
Group II.-Dyspepsia in middle life, due to nervous prostration overwork.
Case iv. $-\Lambda$ lady of nearly 60 , after severe domestic trial, gan to complain of "rheumatic" pains, indigestion, and loss of rength and colour. She was recommended spinal douches and ie chalybeate water, taken hot at noon. The quantity was soon creased to about lorty ounces daily, divided into small doses. fter a fortnight she left the spa, not without much improveent in health. In this class of cases the peculiarly stimulating fect of effervescing waters is often noticed, exhilaration and ten giddiness following their use by delicate stomachs.
Group III.-Chronic malarial affections.
CASE V.-A lady, aged about 45, after much mental strain and dily illness (dysentery and "fevers") in tropical South America, turned home in ailing health, subject to recurring "internal tills," diarrhoea, and general weakness. She was stont, very remic, nerrous, with frequent indigestion, headaches, and flying iins. For nearly four weeks this lady took the chalybeate, zually hot, and latterly to the extent of forty-five ounces daily. ith this were combined occasional douches, sulphur baths, and assage, which no doubt contributed to a striking improvement ( nervous, muscular, and digestive tone. For cases of this kind very prolonged use of the water is to be recommended, repeated om year to year, where benefit has been once derived.
The pure or carbonated chalybeates, more especially those of a ght and digestible quality, will probably be accorded a wider lerapeutic range when they have been systematically put to the st. That the iron is actually absorbed would seem to be cerin not only from the fact that the evacuations are hardly ever iscoloured, but also from the rapid and obvious tonic effecta in lany instances.

## ACTS AND FIGURES IN CONNECTION WITH THE CLIMATE OF CALIFORNIA.

By JAMES II. PARKINSON, L.R.C.S.I., Sacramento, Californía.

I beauty and grandeur of scenery California is unsurpassed, and tere is good railroad communication throughout the State; the otel accommodation is quite equal to that which people who avel are wont to find away from home. Those who wish to side permanently will find many places which will perfectly eet the needs of everyday life.
There is, perhaps, no other region where one can trarel for undreds of miles in so equable a climate as that of the Sacraento and San Joaquin valleys. From Red Bluff in the north to amner in the south is 400 miles, and throughout that expanse of untry what is true of one portion holds good for all. Northard and southward the surface is more broken, and the climate different localities varies with the situation.
In order that some idea may be obtained of the rclative position
of stations in the following tablcs, I append the latitude, longi$\mathrm{t}_{\mathrm{ud}}$, and height abore sea-level of seven towns in the State. ${ }^{1}$

Table 1.

| Stations. |  |  | Latitude. | Longitude. | Above Sea-level. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Los Angeles |  |  | $34^{\circ} 04^{\prime} \mathrm{N}$. | $118^{\circ} 14^{\prime} \mathrm{W}$. | 334 fett |
| Oakland ... |  | ... | $37^{\circ} 48^{\prime} \mathrm{N}$. | $122^{\circ} 1 \overline{1}^{\prime} \mathrm{W}$. | 25 , |
| Red Bluff ... | . | ... | $40^{\circ} 11^{\prime} \mathrm{N}$. | $122^{\circ} 15^{\prime} \mathrm{W}$. | 307 " |
| Sacramento |  | ... | $38^{\circ} 33^{\prime} \mathrm{N}$. | $121^{\circ} 30^{\circ} \mathrm{W}$. | 35 " |
| San Francisco |  | ... | $37^{\circ} 48^{\prime} \mathrm{N}$. | $122^{\circ} 25^{\prime} \mathrm{W}$. | 60 " |
| Santa Barbara | ... | ... | $34^{\circ} 25^{\prime} \mathrm{N}$. | $119^{\circ} 42^{\prime} \mathrm{W}$ | 40 " |
| San Diego ... | ... | ... | $32^{\circ} 44^{\prime} \mathrm{N}$. | $117^{\circ} 10 \mathrm{~W}$. |  |

The comparative temperatures are well shown in the following table. Those for Europe are taken from Dr. J. H. Bennet's work, II inter and Spring on the Shores of the Mediterranean. The temperatures for California are from the Signal Service records and some independent observers, and represent an arerage of from seven to ten years.

Table II.

|  | Average winter Temp. | Average spring Temp. | Average summer Temp. | Average fall Temp. | Average annual Temp. | Highest Temp. | Lowest Temp. | Above Sealevel. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 。 | - | - | - | - | 。 | - | Feet. |
| Florence | 44.3 | 56.0 | 74.0 | 60.7 | 58.8 | 85 | $\stackrel{*}{*}$ |  |
| Mentone | 49.0 | 583 | 73.9 | 62.5 | 60.9 | 85 | 23 |  |
| San Remo | 48.9 | 57.3 | 72.4 | 61.9 | 60.1 59.5 | ${ }_{*}$ | ${ }_{*}^{25}$ |  |
| Nice ... | 47.8 | 56.2 57.4 | 72.3 73.0 | 61.6 61.0 | 60.2 | 85 | 20 |  |
| Cannes | 49.6 54.6 | 57.4 58.1 | 73.0 66.8 | 62.6 | 60.5 | 101 | 32 | 40 |
| Los Angeles... | 53.6 | 58.4 | 67.8 | 62.7 | 60.6 | 112 | 23 | 334 |
| Santa Barbara | 54.3 | 59.4 | 67.7 | 63.1 | 61.0 | 102 | 31 | 30 |
| Santa Crnz ... | 51.8 | 57.7 | 62.2 | 59.6 | 57.8 | 98 | 30 | 25 |
| Monterey ... | 50.9 | 56.7 | 61.6 | 57.1 | 56.6 | 90 | 25 | 60 |
| San Francisco | 51.3 | 54.6 | 58.5 | 58.2 | 55.7 | 95 | 19 | 65 |
| Sacramento... | 48.3 | 59.5 | 71.7 | 61.5 | 60.2 | 100 | 29 | 205 |
| Oroville | 52.9 | 64.5 | 78.8 | 64.3 | 65.1 | 110 | 29 | 305 |
| Red Bluff | 46.8 | 59.8 | 79.7 | 63.2 | 62.1 59.7 | 110 |  | 1,363 |
| Anburn | 46.2 | 56.4 | 74.3 | 61.7 | 59.7 | 106 | 18 | 1,303 |

* No Record.

It will be seen that the average winter temperatures, except that of Sacramento, are much higher in California. The spring temperatures are about the same in both places. In the summer temperatures California is several degrees cooler, while again in the autumn the temperatures equalise.
In connection with the highest temperature columns it may be stated generally that such elevations are exceptional. High temperatures in California are not oppressive. During the summer months, when harvesting is in active progress, men and animals work throughout the long days under the cloudless skies, with the thermometer at $110^{\circ}$ or $120^{\circ}$ (in the sun), yet sunstroke is almost unknown. I do not think that this peculiarity has been satisfactorily explained. Many ascribe it to the drymess of the atmosphere, and there would seem to be a foundation for this belief in the history of cases which hare occurred in Sacramento.
For the invalid or convalescent a fact of great importance is the universal prevalence of cool nights. During the afternoon the south breeze commences to blow, and very soon the air is pleasurably cool. This breeze arrives at different hours, according to locality: in the coast towns, early in the afternoon; at Los Angeles, about 3 P.M.; at Sacramento, usually about 5 P.M., and continues to blow during the night. It is but rarely, in an ordinary well-rentilated room, that bedclothes can be dispensed with ; in fact, during a constant residence of almost five years in this city I can remember just four occasions that I slept without cover.
Table No. IlI gives some idea of the number of fine days which can be relied on. The figures indicating the days on which rain fell for fise of the stations were not at hand. Clear, fair, and cloudy days are estimated on the Signal Service basis, a clear day being one on which cloudiness is three or less in a scale of 10 . Sacramento, with "240 clear days, leads every town in the United States at which an observer for the Signal Corps is stationed. I regret that the number of days on which rain fell is not given for all stations, as this is a matter of considerable importance for the invalid.
1 I am Indebted to Sergeant James A. Barwick, the Signal Corps observer at Sacramento, for compiling the tables contained in this article.

＊Clear and fikir diys combined；they are not recordel separately．
The following table is self explanatory ：
Tanle IV．－Average Direction from which the prevailing Winds have been observed to blow．The Alerayes are from 7 to 13 Years； those in San Diego and San Franciscoare Averages from 1871 to 18S4，while Los Angelos，Sacramento，and Red Bluff are from $157 \%$ to 1854.

| Stations． |  | 空 | 立 | 勆 | 空 | 沶 | $\frac{3}{3}$ | 为 |  |  |  | 苟 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| San Diego | NE | NW | W | W | W | W | W | W | NW | NW | NW | NE |
| Los Angeles．．． | $\therefore$ NE | NE | W | W | W | W | W | －W | W | W | NE | NE |
| San Francisco | ．．． N |  | W | W | W | sW | SW | SW | SW． | SW | NW | N |
| Sacramento．．． | ．．．SE | SE | S |  |  |  |  | S | S | S | N | SE |
| Red Bluft ．．． | $\ldots$ |  | S |  |  |  |  | S | N | N | N | N |
| Cape Mendreino | $\ldots$ NW |  | SE |  |  | NW | NW | N | N | N | SE | NW |

The relocity of the wind is notgiven，but I may say that in the interior of the State what sailors call a＂moderate gale．＂is practic－ ally unknown． 1 have but＇seldom seen even a＂stiff breeze＂in the capital city．
These facts and figures are submitted without extended comment．We who live in the Far West are，perhaps，too apt to boast of our＂glorious climate，＂but those only＂wo hare existed for years in less hospitable regious can appreciat what it truly is． For persons of comfortable or ample meatis California is easy of access，and can be reached in eighteen days from any point of departure in the United Kingdom．The journey can be made in comfort and even luxury．By the Royal Mail and Pacifie Mail the trip can be made hlmost mholly by sea，and for good sailors it is the easiest way to travel．

## A CASE OF OSTEO－PLASTIC RESECTION OF THE FOOT BY THE METHOD OF MICKULICZ．

Be Sir Willialf Maccoryac fr．c．s．<br>Surgeon，St．Thomas＇s Hospital，

THE lad whose case I wish to bring before the Society this even－ ing is now 16 years old．On March $12 \mathrm{th}, 1887$ ，I performed the operation introduced by Mickulicz，of Prague，and Wladimiroff，of Kasan．So far as I know it has not been previously performed in England，and as now more than a year has olapsed since the dato of the operation，the Fellows of the Society will be able to estimate the amount of usefulness attained in the limb．The notes were taken by Mr．C．H．James，dresser of the case．

W．B．，aged 15，a clerk，much emacinted，with a＇pasty face and dull，suftering expression，was admitted to St．Thamas＇s Mospital January 29th，1887．There is no history of phthisis，and both parents are alive and well．Six months before the boy fell down－ stairs and sprained his left ankle．He was treated as an olt－ patient with strapping and plaster－of－1’aris splints without im－ provement．One abscess had formed behind the inner malleolus， which was opened，and anotber in the sole of the foot．The swelling was very prominent on each side of the tendo Achillis， The sinuses led down to diseased bone，and it was evident the
joint between the astragalus and os calcis was extensively diaeas． Two further abscesses presently formed，and ．the general con tion of the patient became much worse．I There was now evidel ＇that disease was beginning in the ankle－joint．The parents ve reluctantly consented to．an operation，stipulating，howerer，th the foot must not be amputated．The soft parts covering the $b$ －were much infiltrated and riddled with sinuses，but consideri the disease to be limited to the os calcis and astragalus，and volving secondarily the joints adjacent，Sir William decided perform the following operation．
The patient was placed in the prone position．If it be th right foot，the knife is introduced on the inner border of the $f_{f}$ ， just in front of the scaphoid tubercle，and a transrerse incisi extending to the bone is made across the sole of the foot tc point a little behind the tuberosity of the fifth metatarsal bo On the left foot the direction of this incision will，of course， reversed．

From the inner and outer extremities of the wound incisic are prolonged upwards and backwards over the correspondi malleolus and their extremities（Fig．1），united by a transverse if


Fig．1．－Direction of the incisions ：Mickulicz＇s operation：
across the baok of the leg，made down to the bone，at the levsl which it is to be sawn，usually immediately above the joint si face of the tibia．In cases where a larger removal of the tibia a fibula is required，the lateral incisions must be more oblique，a the posterior transrerse cut made＇at a higher level．

The ankle－joint is now opened from behind，the disarticulati completed，and，after flexing the foot，the soft parts are careful separated in front until the medio－tarsal joint is reached，whe disarticulation is effected，as in Chopart＇s operation．The hi portion of the foot－consisting of the astragalus，os calcis，and $t$ soft parts covering them－is thus removed．The articular 81 faces of the tibia and fibula，with the malleoli，are now sawn c as well as those of the cuboid and scaphoid bonea（Fig，2）．T


Fig．2．－Line of section of the bones．
aterior portion of the foot remains connected with the leg by a lose bridge of soft parts. The blood-supply appears to be ample, ir almost directly after the operation blood issued freely from e distal ends of the divided plantar arteriea.
All hæmorrhage having been arrested, the foot was brought into straight line with the leg, and the cut surfaces of bone were utured together with kangaroo tendon. The attempt to discover ad unite the divided ends of the posterior tibial nerve failed on scount of the sodden condition of the soft parts. Suitable ressings and a plaster-of-Paris splint were applied, the toes eing brought into a position of complete dorsal fexion. I need not detail the after-treatment; the boy made an excelnt recovery, and a firm bony union eventually took place. ensibility began to return in the sole of the foot in about a lonth, and this gradually became more complete. In December ie boy returned to the hospital to be fitted for the boot he now ears. (Fig. 3.) He can stand or walk with ease and comfort. he left limb is half an inch longer than the right. (Fig. 4.)
 Che sensibility of the left foot appears to be perfect, showing that he divided nerre must late united. The toea are mobile. I egarded such a result as this, obtained under very unfavourable :ircumstances, as an exceedingly satisfactory proof of the utility of he operation.
Wladimiroff, of Kasan, in 1872, appears to have been the first o perform the operation, but Mickulicz first published an account of it in Langenbeck's Archic, 1881.
The functional result, as I think this case will show, is an adnirable one. An artificial pes equinus is procured, the object being :o preserve the toes and metatarsal bones, which are sacrificed n other amputations of the foot; these are brought into a straight ine with the leg, and the toes bent at a right angle, so that the patient walks on the ends of the metatarsal bones, covered by the hick pads of tissue which invest them (Fig. 4). A broader surface of support is provided than is afforded after either Syme's or Pirojoff's amputation, and there is some elasticity of foot left. In ordinary cases the limb will be longer by nearly an inch, which can be readily compensated for by a thicker sole on the ather batt. As regards indications, it may be at once conceded that, the
operation will provo better adapted to casea of injury-gunshot
injury more especially-than for those of diseare. Hy experience of this casc, howeyer, would tempt me to adopt the procedure again in any case where the bones of the heel and soft parts covering them were extensively damaged or diseased, the anterior half of the foot remaining healthy.
The patient, when shown to the Medical Society, walked with the greatest facility up and down the room, both with and without the boot. There was perfect union at the line of section, and he was evidently very proud of his power to walk so well, and with such ease.

## OBSTETRIC MEMORANDA.

## CASE OF LABOUR, WITH DOUBLE UTERUS AND VAGINA.

Mrs. C., aged 23, sent for Dr. Culpin on September IIth, 1883. Previous to her marriage, she had always had good health, never haring had occasion to seek medical advice. Neither the patient nor her husband had ever suspected any abnormality. She had been married sixteen months, and had had one miscarriage when three months pregnant. She now believed herself at the full term of pregnancy. Labour pains were firat felt at 2 A.3. on September 17 th, and soon after the imembrases ruptured. At 10 A.M. Dr. Culpin was sent for. He found a double vagina. The two canals were about equal in size, and the finger entered one as readily as the other. At the end of the right vagina, the os uteri was found dilating, and a foot presenting. At the end of the left was an undilated cervix uteri, and to the right of this the presenting foot could be easily distinguished through the septum, which was entire throughout the whole length of the vagina. There was not any unusual obliquity of the uterus. A sound could be passed into the left cervical canal. Dr. Herman subsequently saw :the patient with Dr. Culpin, and confirmed the existence of the state of things described. Delivery was left to Nature until the pelvic extremity of the child had been born, which happened about midday on the 18th. The delivery of the shoulders and head was then accelerated in the usual way; but presented difficulties greater than would have been expected from the size of the child. After delivery, the upper half of the raginal septum was found to have been torn through. The child was stillborn. Nothing abnormal was noticed about the third stage of labour, or the lying-in. Nothing like a decidual membrane was noticed in the discharges. The patient was delivered of her second child on February 27 th, 1888, Mr. Plaister being in attendance. She believed herself to have gone the full term of pregnancy. Mr. Plaister was not sent for until the head had descended well down into the ragina, and was pressing on the vaginal septum. This he pushed to the left aide. In the intervals between the pains, he could distinctly feel the eft os uteri, and, after delivery, he ascertained that the child weighed 51 lb . 10 oz.. and measured I9 inches in was a male, living, was a quick one. On March 3rd Dr Culpin and ir. Plaitabour amined the patient together. The sound entered the left uterus two inches. No decidual membrane was seen by them, or noticed by the nurse. The left cervix uteri had the appearance of that of an unimpregnated uterus. On April 16th, Dr. Herman examined the patient, with Mr, Plaister. By bimanual examination the two uteri could be distinctly felt; they moved together, 1 The left uterine body was smaller, rounder, and harder than the right. The sound entered the righit uterus for three inches. The raginal septum had been completely torn through.

In this case the kind of abnormality present was that known as uterus bicornis duplex: I There were two distinct uteri, each with its own cerrix and vagina, but the two cerrices were united. The researches of Kussmaul show that some abnormality in Jabour was met with in about half of the cases with thisjformation. But, as in ensy labours an anatomical peculiarity is likely to be overlooked, he thinks this proportion too high to represent the truth, althougli high enough to show that the occurrence of difficulty is more than a coincidence. The more common sources of difficulty are those exemplified by the first labour in this case: first, that the vaginal septum offers resistance to dilatation, a resistance was partly destroyed in the first labour, completely in the second Secondly, that the fault in the development of the uterus is apt to lead to irregularity or meakness of pains, and so to protraction of I Von der Mangel dor Terhimmerung und Verlopplung der Gebiarmutter. Würzburg, 1539.
labour. The first labour in this case was lingering, owing to feebleness of pains; and to this cause, and the unfarourable position of the clild, with the premature escape of the liquor amnii; the death of the child apprared to be due. Both pregnancies were in the right uterus, and the left uterus did not appear, so far as may be inferred from its condition after delivery, to have at all shared in the development during pregnancy of its fellow. In some cases, the unimpregnated uterus was enlarged durimg the pregnancy of its fellow; but Cruweilhier saw a case in which, as in this, the unimpregnated uterus remained small and hard.

Mililice Cutipin, L.R.C.P.ED.
W. H. l'laister, M.R.C.S.
G. Ernest Hervan, M.B., F.R.C.i.

## A CASE OF PUERPERAL CONTULSIONS TREATED BY CHLOROFORM.

O. November 23rd, 1837, I was called to see Mrs. G., a young woman about eight months advanced in pregnancy for the first time. She was then in an unconscious condition, having just had a convulsion. She had grent œedema of the lower extremities, and passed only in small quantity of blood-stained urine. I went home and fetched some chloroform, and during the time I was gone she had a conrulsion about every hour, and stronger than the one before. I at once commenced giving inhalations of chloroform ( 6 P.M.), not henvily, except when a fit threatened, at which time I gave it freely. She bad a strong conrulsion at 6.30 , the right side being chiefly affected, but the convulsion was cut short by increasing the chloroform. From 6 p.M. to 10 P.M. I kept her under chloroform, only the above mentioned convulsion taking place. At 10 I went home for some more chloroform, and whilst gone she had a convulsion. From 10.30 to $4.30 I$ gare chloroform without intermission, at which time the child (stillborn) having been born I ceased, there having been no convulsion in that time, nor after I ceased giving it.

When Istopped the inhalation the patient was quite unconscious, and she continued in that state the rest of that night, all next day, and the following night, and recovered conscionsness the second morning after the nttack. She made a good recovery nnder ordinary treatment, and is now quite well.
I think this case interesting, from the ready manner in which the chloroform stopped the convulsions, the length of time the patient was under the anresthetic, namely, ten hours, and the time she was totally unconscious, namely, about forty hours.

Bourton, Dorset. B. Pope Lartlett, M.R.C.S.

## TETANUS AFTER MLSCARRIAGE.

The patient, a married woman, aged 27, was small, thin and delicate, having suffered from painful oraries; she had had two children and four miscarriages.

On September 25th, 1087, a miscarriage at three months took place; all went well for three days, when the temperature rose to $102^{\circ} 1$. at night; this was found to be due to the presence of a small portion of very adherent placenta, partially decomposed, in the aterus. Under clloroform it was removed, the os having to be dilnted by the fingers; the temperature that evening rose to $104^{\circ}$, but was normal the next morning. On Octoher and, two days after its removal, stiffness of the back of the neck was complained of; next day the teeth conld only be slightly separated, the masseters being hard and contracted. Spasms on drinking, slight opisthotonos, and the risus sardonicus succeeded in the order mentioned; severe and painful spasmodic contractions of the muscles of the back occurred frequently; the patient could swallow only while under the partial influence of chloroform, but later on even this was impossible.

On October 4th a severe general spasm occurred, followed by others; the temperature rose to $102^{\circ}$, and death soon followed. No necropsy could be obtained. Treatment: chloral hydrate gr. $\begin{array}{ll}20 \text { every three hours; frequent inhalation of chloroforme and } \\ \text { nutrient enemata. } & \text { T. G. P'ARnotr, M.I.C.S., L.R.C.I.Lond. }\end{array}$ Aylesbury.

## CLINICAL MEMORANDA.

## CIRRIIOSIS OF THE LTVER.

Dr. Drummond's case of cirrhosis of the liver, described in the Journai of February 4th, is of especial interest to me, because I now have a paticnt, suffering from that disease, who has mani-
fested nervous symptoms, similar in character though not so in tense in degree. The history is shortly as follows:-
T. P., a labourer, aged 48 , formerly addicted to drink, consulte me in January 1887 for jaundice, etc. He got gradually worse and in March kept his bed. Soon after ascites appeared, he be came very restless, and sleepentirely left him. Ile had delusions and at times got very excited. He lost his memory, and talke in a very rambling manner; his speech became slow and draw] ing. He remained in bed about two months, when lie began $t$ improve. The ascites disappeared, a fact which seems to bear ou the remarks of Dr. Wilks in the Journal of February IIth. Th delusions left him and he now talks rationally. He can go abou a little, but his gait is unsteady sud staggering. His memor, continues defectire, and his speech slow and drawling.

Oswestry.
Janes T. Neech, L.R.C.P.E.

## THE PROPOSED METHOD OF OBTAINNG VACCINE LYMPI WITHOUT PUNCTURING THE VESICLES.

The introduction by Dr. Grigg of a new method of obtainin lymph entitles him to the gratitude of every practitioner wh has much raccinating to do. 1 am disposed to think, howere from the results of my own experience, that the rationale of th proposed method depends, not on exosmosis of lympl, but o: rupture of the vesicles, and consequently direct admixture of th lymph and glycerine.

A characteristic vaccine vesicle, if carefully examined on th eighth day, is seen to consist of minute ridges, radiating from th centre. Now, it is easy to understand that any friction applie. transversely to these lines may break through them and let ou the imprisoned lymph, I am disposed to think that Dr. Grigg method acts in this way. A salient point in his procedure i: rubbing a globule of glycerine on the vesicle. The result of $m$ ! few experiments leads me to infer that this rubbing is a sine qui
non, and that the success of the new method depends more on th non, and that the success of the new method depends more on th rubbing than on the glycerine, though the latter is an excellea
rehicle. vehicle.
It so happened that I was in the midst of my half-yearly vac cinations when Dr. Grigg's valuable article appeared in thi Jounvar, and I had an early opportunity of testing his method I applied the glycerine to vesicles onn three different children, ant in so doing varied the degree of rubbing. In case No. 1 , I merel: applied the glycerine and spread it on the vesicle with the en of a director. In case No. 2 I rubbed it in gently. In cas No. 31 rubbed it in with moderate force, but not so hard as t" cause pain; in this case a minute streak of blood was visible The result on the serenth day was that the fluid from No. produced no sign of vaccinia, while the flaid from Nos. 2 and produced redness and apparently commencing raccinia. I woulc infer from this that to obtain fertile lymph friction is essential The presence of blood in one case, No. 3, showed that the resicl. had been ruptured, and the same probably occurred in No. 2. Thi fluid from No. I, where rubbing was not employed, produced ni effect whatever.

Of course, I am aware that the results of one or two experi ments are very apt to mislead, and practically prove nothing; bu at the same time I think that we should not attribute certais. results to such intangible causes as exosmosis and endosmosis, i those results can be explained on merely mechanical grounds. is difficult to conceive how glycerine could have such an effect or the dense and lorny cuticle as to allow the lymph to diffus through it in a few minutes, unless the glycerine produced actua disintegration of the cuticular structures.
At all events, whatever the way in which Dr. Grigg's methoy acts, there can be only one opinion as to the great value of his suggestion, and it will without doubt prove a real boon to thosd who hold the thankless and troublesome office of public rac cinator. FitzJ anes Molony, L.K.Q.C.P.I., Public Vaccinator. Porlock, Somerset.
The American Merical Association.-The meeting of the American Medical Association will begin on May 8th. wnder the presidency of Professor A. Y. P. Garnett, of Washington, at Cincinnati. An address on General Medicine will be given on the following day by Professor Bartholow, of Philadelphia; an address on General Surgery by Dr. F. M. Moore, of Rochester, on May 10th and address on state Medicine by Dr. H. P. Walcott, of Boston The eight sections, which include a "Section on Dental and Oral Surgery," will meet on each of the four days during which the
Congress Iasta.

## REPORTS

OF

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES

## WOLVERHAMPION AND STAFFORDSHIRE GENERAL stind :HOSPITAL.

ERY LAROE SARCOMATOUS TCMOUR OF THE RIGHT BREASX OF A FEMALE: SUCCESSFUL REMOVAL.
(Under the care of Mr. Vincent Jackson.)
E., aged 44, unmarried, was admitted on September 25th, 1887. cer previous personal and family history was unimportant, negare, and barren of causal origin. Eighteen months since the right reast began to enlarge, and it gradually continued to do so until he mamma attained its present unusual dimensions, and it was in onsequence of the unsightliness produced therehy, as well as of be weight and dragging of the organ, that she felt constrained 3 apply for surgical relief.
To the eye there appeared to be a general enlargement of the Thole of the right lareast; the nipple was not interfered with ither in aize, appearance, or position. The subcutaneous veins eing enlarged were visible, and they arboresced in rarious direcons. With this exception the skin uniformly appeared quite ormal, everywhere free and of natural tint, and in no part eleated by underlying bosses.


The weight of the breast was very much added to; this was specially appreciated when with the same hand first the left and hen the right mamma was lifted. To the feel all over the imression conveyed was one of semi-elaticity, although here and here a greater resistance to finger pressure was undoubted; the reast mored easily over the underlying thoracic structures. The xilla was roid of any enlargement of the axillary glands. The iollowing measurements were taken:

> Mcrizontal
> Vertical

September 30 tli. Fther ${ }^{\text {. Waving been giren, amputation"of the }}$ Whole breast was performed, the weight, after removal, being ; lbs. 1 oz .
October 12th. The wound haring quite liealed, the patient returned to her home. The length of the linear cicatrix by measurement is 11 inches.
Remanks by Mn. Vincent Jackson.-The above case is one of considerable interest, both on account of the large size of the growth involving the right breast and its somewhat doubtful histological character. For a mammary'tumour to weigh six pounds is rare, although, of course, not at all a unique circumstance, for Dr. S. Gross records in a foot-note in his work on Tumours of the Mammary Gland, that a case is narrated irom the practice of Dr. Kremer in which the tumour weighedjtwentytwo pounds. The growth of the tumour appears to have been
fairly regular from tho time it was first observed. Although arcomata are generally admitted to become in time the most bulky of the mammary tumours, yet they seem frequently to run an irregular course, starting and than growing a little, stopping awhile, then growing again, once more quiescent, and finally, as if with increased energy, rapidly enlarging to a bulk which apparently is only limited by the life of the unfortunate sufferer. The surface temperature of the two breasts to the bare hand was not perceptibly different, but the test of the thermometer was not resorted to.

Dr. Heneage Gibbes on this occasion, as on many previous accasions he has done similar work for me, examined microscopically a portion of the tumour, and I quate as follows from, his written report: "I find the morbid growth is of a fibrous character. In some parts it resembles myxomatous growth, in others a homogeneous tissue of a fibrous character is formed. The appearance of cysts is caused by the new growth surrounding the gland acini having absorbed the major portion, leaving only a larger or smaller space, which is lined by epithelium identical with that in a normal gland. I think the growth is of a sarcomatons nature, as it resembles some I have which show a distinct sarcomatous change in parta; hut, at the same time, I have similar growths which have been remosed from the breast without any recurrence." The illustration taken from a photograph will assist in explaining the previous description.

## HOSPITAL FOR SICK CHILDREN, GREAT ORJOND STREET.

LUMBAR HERNIA; RADICAL OPERATION; RECOVERY.
(Under the care of Mr. EDMund Owne.)
[Reported by the late Registrar, Dr. Penrose.]
Alice J., aged $5 \frac{1}{2}$ years, fell down six steps in the antumn of 1886, and scon afterwards complained of pain in the small of the back and in the right foot. She was kept from school, and whilst staying with some friends in the country during the succeeding December an abscess broke above the left hip-bone. After this the child walked better, but the sinus continued to discharge for three months, then the mound closed. Six weeks before her admission into the hospital, the date of which was Norember 18th, 1887, a painless lump had appeared where the criginal abscess broke; it was for this that treatment was sought.

On examination it was found that the back was stiff, and that while the dorsal region of the column was unusually straight, some of the lumbar spinous processes were prominent. The lump, which was about the size of a small orange, was just above the left iliac crest, in the interval between the anterior border of the latissimus dorsi and the posterior border of the external obliquethe triangle of Petit. The tumour was resonant on percussion, and its contents could be completely returned into the abdominal cavity; they slipped back spontaneously, moreorer, when the child lay on the right side. The sac being emptied, the finger conld be invaginated into the abdominal cavity, and at the same time could clearly define the margins of the abnormal aperture, which was about as large as the end of one's thumb. A cough or strain would at once drive the bowel again into the sac. and another cough would still further distend the coverings of the nernia and stretch the painless white scar upou its surface, which
marked the spot at which the abscess had burst. The emigrant bowel was probably part of the colon, for hardish masses, were taken to be fiecal, could be felt in it Operation.-On January 1Sth last, chloroform being administered by Mr. Priestley, Mr. Orren made an incision orer the tumour until he reached what he thought was the transversalis minal cavity without makine and its contents within the abdominal cavity without making a special examiuation of them, and oblique by three deep sutures of strong catgut. The sutures were then cut short; the wound was closed and dressed with blue wool. The child was much collapsed after the operation, but she made an uninterrupted and perfect recovery. Before leaving the hospital she was allowed to rum about the ward without a truss or pad being placed orer the mound. The hernia is now soundly cured, though there is still some fulness, not to say weakness, in that region.

Remarks by Mr. Owes.-A chronic abscess in the situation referred to is of common occurrence, so that. When a surgeon sees a soft, rounded tumour above the back of the iliac crest, and
notices at the sama time that there is a stiffness or a curvature of the spine, he is apt to conclude that the tumour ia an absoess. Indeed, that error liad been committed in this very case. Should the swelling be incised in mistake for abscess, however, the result might he disastrous. Lumbar hernia is rarely met with, at any rate in such a definito form as that in the case just recorded, and 1 apprehend that an operation undertaken for tho cure of a reducible lumbar hernia is quite an exceptional procedure; at any rate, 1 can find no reference to a similar case.

## REPORTS OF SOCIETIES,

## PATHOLOGICAL SOCIETY OF LONDON.

## Tuesday, Max Ist, 1888.

J. Hughlings Jackson, Mf.D., F.R.S., Vice-President, in the Chair. Primary Cancer of the Fallopian Tube. Mr. Alban Doran exhibited a right Fallopian tnlue and ovary. The tube was dropsical, and its walls were invaded by a cancerous growth. The ovary was small, but completely converterl into new growth. The patient was a married woman, aged 43. For three years she lad been snbject to a clear vaginal discharge, which sometimes contained membranous fragments. In January, 1887, Dr. Amand Reuth scraped out the interior of the uterus, remering a quantity of red fungous growth. An attack of pelvic inflammation followed, and during the patient's recovery a tumour was detected, rising to the right above the pubes. The tumour gretr slowly larger, and the patient lost flesh; fragments of solid matter came away in the discliarge. On March 1st, 1888, Mr. Knowsley Thornton removed the tube and ovary; the patient recovered. The uterus was free from malignant diseasc. A series of sections of the new growth were also exhibited. The tumour-sibstance was nade up of collections of large polymorphous cells, surrounded hy trabecule which were inflitrated with small cells. A few tubules lined with ciliated epithelitm were to be seen; they were surrounded by a wide area of large flat cells. The tubules and their surroundings suggested the glands which, as Mennig and Bland Sutton had demonatrated; existed in the Fallopian tube, and further indicated that the cancer briginated in those glands. The same collections of large cells' (with wide oral spaces caused by vacuolation) and trabecula, showing small cell infiltration, were to be seen in sections from the ovary. The history of the case, and the small size of the iufected orary compared with the large proportions of the growths in the tube, would appear to prove that the tube was the primary seat of cancer. A cancerous orary grew' very rapidly, and seldom infected the tube till it had become a large tumour. Only three cases of primary malignant disease of the tube had been described. The first, Scanzoni's, was doubtfiul ; in the second, Dr. Senger's, of Breslau, the tumour was sarcomatous; the third occurred in Dr. Martin's practice, and was described by Dr. Orthmain as an instance of truly cancerous papilloma. In the specimen exhibited by IIr. Doran, malignant degeneration of previously innocent pajiblomatons frowths might have taken place ; but in any case he believed that the cancer was histologically of glandular origin.

Cystic Disease of the Testis.-Mr. Quarry Silcock showed a specimen of 'rstic disease of the testis. The body of the testis was the seat of an interstitial fibroin evergrowth, apparently radiating from the mediastinum testis, with an accompanying progressive cystic dilatation of the seminiferous tubules. The cysts, to the naked eye, paried in size from a pin's head to a pigeon's egre, but, microscopically, every stage between a well formed seminiferons tubule and the fully developed cyst was observable.' $A$ srotal tumour was thus formed, whicli consisted almost wholly of touch-walled cysts, some of these having ruptured, owing apparently to absorption of the intermerliate fibrous tissue, so giving i:se to multilocular cystic cavities of considerable size. The eystic contents varied, heing a clear lydrocele-like flnid in the larger cpsts, and a thick glairy fluid or caspous material in the smallest. Tacespecimen ras remored from the hady of a middle-aged man Who dierl in the medienl wards of, St. Marys Hospital, and no histoy attached to it. The disease appeared to be analogeus to some cises of cystic dispase of the breast, with general dilatation of the ducts, and to pure cystic diacase of the kidney. There was no evidence to the nakerl nye, or microscopically, that it was in any Wiv connected with the formation of a neoplasm, such as an siden ama or fibroma. The vas deferens appeared to be permeable and healthy. The vesicule seminales were not examined.

Conjenital Heart Disease in Ahults.-Specimens from two
cases of congenital cardiac malformation in adult women we shown by Dr. Montagu Muriray. The first specimen was example of patent ductus arteriesus, in a woman who died at tl age of 26 , of malignant cndocarditis. During life there was systolic thrill over the pulmonary cartilage, and a systolic mu mur loudest orer the same place. The patient died with ordina, symptoms of ulcerative endocarditis. She had never been cy nosed, and there had not been any clubbing of the finger-end
At the necropsy the lieart weighed 18 ouncea; the hypertroph At the necropsy the hoart weighed liouncea; the hypertroph
chiefly affected the left side: vegetations were found on all tl valres; the ductus arteriosus was patent, about three-eighths an inch in length, and large eneugh to admit a quill. A lar mass of vegetation was found in the pulmonary artery, near th opening of the duct. This condition occurring in the adult was rar The position of the mass of regetations, the dilatation of the pu monary artery, the absence of cyanosis and the position of tl
murmur and thrill seemed to show that blood passed from tl aorta into the pulmonary artery, while the absence of any mark hypertrophy of the right rentricle was evidence that there cou have been but little obstruction caused in the pulmonary arten by the entrance of the blood. In the second case-the aorta aro from both ventricles; the interventricular septum was incon plete; there was atenosis of the pulmonary artery ; phthisis ar tubercular meningitis were present. The patient was quite we until she reached the age of 21 years, when she had rheumatist and perhaps heart disease. This was followed by attacks of ca diac failure with persistent cyanosia. A systolic murmur wi heard at the apex, base, pulmonary and aortic cartilages, in $t$ grent ressels, and at the acapula, the patient finally dying phthisis followed by meningitis; vegetations were found on the valves after death; the infundihulum was small and the pu monary valves adherent, so that the opening only measured quarter of an inch. The ventricular walls were of equal thicl ness. Attention was called to the age of the patient, and tl absence of cyanosis till she reached the age of 21 , and to tl probahility that the pulmonary stenosis was partly acquired. Dr. H. Habershon referred to a specimen which he exhibite obtained from a child aged 4. The pulmonary artery was atry phied, and a large aorta arose from both cavities, the ventricle being in communication at the undefended spot; the lungs wer supplied through a large ductus arteriosus. In the same paties the kidneys were conjoined, lying in front of the vertebr: column, forming but one flattened, so-called "horseshoe," kidne with twe pelves and two ureters.

Multiple Cancer.-Dr. Joseph Coats showed a specimen multiple cancer of the lungs, bones, brain, etc. There w an eld cavity with cancerous walls in the right lung, whic was regarded as a primary ulcerating cancer of the luns There were secondary tumours in the lungs, bones, live pancreas, and kidneys. The most extraordinary condition fowerer, was that in the brain. Here there were cysts various sizes, numbering no less than twenty-four, the large: about two inches in diameter and the smallest about a quarter an inch.' There was only one instance of a consistent tumour i the brain, and even this was soft and evidently to a large exter cystic. Microscopic examination showed in the lung tumours typienlly cancerous structure. The tumour which was regarde as the primary one, owing to ita size and apparent ag and to the bronchial glands heing the only glands affectec showed alveoli resembling in size and shape the norme lung alveoli, but occupied by epithelial cells, the per pheral ones of which had a regular cylindrical shape. In th secondary tumours in the lung the alveoli were less regular i size and shape, and they showed a tendency to cystic develop ment, apparently by colloid metamorphosis of the cells. In th bones it was found that the expanded ends of the femur wer Inrgely occupied by cysts in various stages of development, fror simple collections of epithelium to large spaces filled witl colloi material. The bone was greatly atrophied, being only repre sented by narrow trabeculae. In the brain the cysts had definite lining of epithelium. In the case of the semi-solid tumour cysts in rarious stnges of develepment were visible, much resem bling those in the bone. It was regarded as very extraordinar that in the bones and in the brain the secondary tumours shoul have shown this cystic character. The clinical history of th case was given from notes by Professor Gairdner. P. H., aget 1" was affected with various nervous symptoms, of which the chie Teere rimaurosis, squinting, and nystagmus, but without an definite paralysis or loss of intelligence. In the course of thi
ase tumours in the bones were observed. The case ended with rulsions. rimary Cancer of Brain, Dr. Josepr CoATs also showed an
mple of Primary Cancer of the Brain. The tumour was byal in mple of Primary Cancer of the Brain. The tumour was oyal in situated above the pons and peduncles, apparently growing be aqueduct of Sylvius, distending it and projecting into the eth ventricle. The anterior part of the aqueduct was unaffected the third ventricle normal. Under the micrescope the prin-
a constituents were cylindrical epithelium cells arranged in and enclosing spaces. Dr. Coats suggested the origin of the rour from the epithelium of the aqueduct. The clinical history plied by Professor Gairdner showed the principal symptoms lave.been "weak turns," pain in the head, vomiting, and redifficult to hous. She gradually became, very lethargic, and
she underwent progressive cmaciation up death. rimary Carcinoma of Liver.--Dr, Crooke (Birmingham) exhid specimens from a case of primary growth of the liver. The Was a painter, aged 65 ; who had been under the care of
Walter $\mathrm{F}^{2}$. ae under treatment, was uniformly enlarged; there was some ites and distinct jaundice. After systematic examination the gnosis of primary cancer of the liver was given. At the nepsy, this diagnosis was confirmed; no other organ or part of
bedy was affected., The liver, which was uniformly enlarged, ighed 101 ounces; its general shape was unaltered, but its ire surface was covered by round nodules. On section the whth was diffused, in the central part of the right lobe, the reral celour heing greyish-white, bnt streaked by lines of fatty jeneration. Throughout the whole of the left and the exmity of the right lobe there was discrete nedular infiltration.
nicroscopical examination of the growth revealed appearances lich illustrated one mode of origin of primary growths in the er, namely, from proliferation of the liver-ceils. Groups of cells ree to be met with in the adrancing part of the growth, which d very large nuclei, some of which might be observed to be riding; in other parts a more active division of nuclei might ohserved, and the various stages of karyokinesis. With this clear division, vacuolation, and even division of the liver-cells elf occurred, and thus at the margin of the small nodules of owth columns of liver-cells were formed in which both processes sorbed, whil. The bridges between the racuoles finally became is way a column of liver-cells was converted into a tubule led ly a highly nucleated protoplasmic. border or even filled ith proliferating epithelioid cells; a tubule thus formed sprouted all directions, the nuclei at the same time rapidly proliferating, id thus the adenoid structure was oltained. The stroma of the orth was, Dr. Crooke believed, derived from the perilobular ${ }^{1 d}$ intercellular connective tissue. Well-defined blood-vessels ere present only in the larger nodules, involving several lobules here Glisson's capsule entered considerably into the formation of le stroma.-Dr. CoArs thought the prevalent notion of the at if Dr. Crooke's yiew was correct it would afford a powerful onfirmation of the theory that cancer was disseminated by some ecific agent.-Dr. Crooke briefly replied. Arteries.-Dr. Turner
Contraction of Orifices of Coronary howed the heart of a man aged 52, whe had been found dying. he cause of death had been extreme contraction of the orifices of he coronary arteries from atheroma at the commencement of the orta. The left ventricle was somewhat hypertrophied; the pecimens previ of healthy appearsice. Referring to similar ohich a similar lesion had been the cause of sudden death in ases of anginia pectoris, he argued that stenosis of the coronary rteries cansed death in all cases by interference with the blood $\underset{\substack{\text { upply to the myocardium, and not indirectly through interference } \\ \text { vith the }}}{ }$ Jickinson nutrition of the nerves, as had been suggested by Dr. ittack as tending to the recovery of the sufferer by arresting all novement, and thus aiding \& restoration of nutritive equilibrium n the heart wall.

Mamme in Dermoid Cysts.-Mir. Bland Sutron said that it was by no means uncommon to find in the interior of an ovarian lermoid cyst tags of skin resemblingia nipple. Such tags might be associated with a more or less rounded projection, recalling in a striking manner Ithe shrunken mimma of a woman who had
suckled many children. The surfaces of such mamma occurring in avarlan dermoids were dotted over with numerous small pits, indicating the orifices of sebaceous glands, and a crop of hairs usually sprouted from the skin-covered surface. The condition the Royal College of Surgeons:. Standing besido it, in the same collection, was another ovarian dermoid, prescnting a mamma of the size of a walnut, furnished with a nipple growing from the cyst wall. The surface was covered with dark-coloured fine hairs; it was made up of fat, covered with skin containing sebaceous and sudoriparous glands. In the museum of the Dliddlesex lLospital there was an ovarian dermoid cyst of the size of an orange. Standing out from its wall was a mass of fat, covered with skin, and furnished with a nipple. The mamma itself was supported upon a piece of skin-corered bone, lodging three teeth. On section, the interier of the mamma was seen to be occupied by a series of ducts leading to a glandular mass at its base. This specimen had
been put up long ago, and the histological features were not well preserved. A recent ovarian dermoid cyst, removed by Dr. Bantock, contained a mamma with a nipple passing from each side to join the cyst wall. The mamma was of the size of a Tangerine orange, and made up chiefly of fat. Lying in the midst of this of the mamma; above, these tubes passed directly into the nipples. When recent, the nipples were widely distended with a fluid resembling rery poor milk, but rather more viscid. Under the microscope this fluid had all the characters of milk, and presented even colostrum globules. The microscopical characters of the glandular tissue resembled that of the normal mamma in the ing the regular the ducts and acini, but differed from it in lackwere interesting in affording support to the view that mammary glands were modifications of sebaceous' glands.

## CLINICAL SOCIETY OF LONDON <br> Friday, April $27 \mathrm{th}, 1858$.

Sir W. Mac Cormac, F.R.C.S., Vice-President, in the Chair. A Case Illustrating the Advantage of Early Irisision with Drainage as Opposed to Ercision of Joints.-Mr. Walminarght described the case. The patient, a boy, aged a, was admitted to superficial to the periosteum, covering almost the whole of the outer aspect of the left thigh, which was said to have resulted from a fall a fortnight previously. This was treated by antiseptic incision and drainage. A fortnight later, before the incision was quite healed, the right hip began to inflame, and, at the end of another month, distinct fluctuation being detected in four of his joints, it was incised, and a quantity of pus evacuated. Carious bone was then found in the anterior part of the neck of the femur, which was removed by scraping, the joint being otherrise healthy.
An antiseptic dressing was applied, and the wound healed in An antiseptic dressing was applied, and the wound healed in an-
other month, leaving a perfectly movable joint. Meanwhile some thickening, which had existed about the left knee from the commencement, became more pronounced, and that joint became tender and painful-so that, shortly after the righthip had healed, the left knee was freely incised, and the cartilaginous surfaces freed from an overgrowth of synorial membrane, by which they were completely covered, by means of a sharp spoon and scissors. Antiseptic dressing and drainage were used, and the child left the hospital about six weeks later, with a plaster splint on the left knee, the wound having healed. Ile was admitted abent seven months later, and a small exfoliation of bone was removed from a healed, but the knee had become partially flexed, from the splint having heen removed by the parents against ordere. An effort had since been made to correct this by extersion and another plaster splint, but considerable deformity still existed. The knee was now nearly immovable, but all the movements of the right hip Mr. Wainwright could say said it would be interesting if he described as having been removed from the side of the knee. He thought, on the whole, it was a sort of case by no means rare. The abscess described was such a one as followed in-
flammation due to injury. In such case the supuration in fammation due to injury. In such case the suppuration in the
right hip while the child was lying quiet might be explained on the ground of pyemia. This was a matter of some importance. He expressed himself is misled by the title of the paper, seeing
that the advantage gained by the operation performed on the knce-joint was the removal of the fungous material rather than simple drainage of the joint. On the whole he queationed whether the condition of the joint which Mr. Wainwright had described was better than would have followed excision. He asked what was the present condition as regarded locomotion.-Mr. Lucas mentioned a case in which three joints had been affected in succession and required excision. lle thought that so far as the hip was concerned he would agree with what Mr. Wainwright had adrocated, namely, incision, examination, and removal of any carious bone in the neighbourhood. With regard to the other operation, he felt with Mr. Bennett that the title of the paper was misleading, and he thought that the joint might have done as well.with excision. Excision as at present practised was a rery different operation from what it used to be. Ne always clipped away the pulpy material and the synovial membrane as much as could be seen before proceeding to remore the bone. Did the exfoliation come from the neighbouring abscess or the erased joint? -Mr. Howard Marsh thought the paper turned on the question as to whether the disease ol the joint was tubercular or pyæmic. Jle had often seen good results, with perfect morement, follow Mr. Wainwright's treatment in pyiemic abscesses in joints in children, but doubted whether this would be the case in tubercular disease. He thought excision was destined to become more rare than heretofore. He himself had been very disappointed with the results obtained from excision of the knee in ehildren; often no, bony union followed, and the leg remained flexed and useless.-Mr. Parker hoped that the possibly misleading title would not be allowed to detract from the excellent results of the arthrectomy carried out by Mr. Wainwright. Ife himself had not obtained such good morement of the joint after drainage alone.-Mr. Bennett asked whether Mr. Parker considered multiple abscesses evidence of tubercular disease.-Mr. Parker aaid they did not absolutely prove the existence of tubercular disease, but if a child had multiple abscesses, and then disease of the knee, the eridence was in fayour of struma.-Mr. Srmonds said he had examined the child, and thought it was a brilliant result. At the same time he thought that the child was not suffering from tubercular disease. He suggested that the hip disease was due to extension upwards. His own experience was decidedly in favour of the operation. There were, however, a number of cases in which excision was the only operation. The after-results of exeision of the knee were very good, and the union often quite solid. -Sir William Mac Curmac said the knee was evidently the seat of strumous synovitis, which Mr. Wainwright had erased with arthrectomy.-Mr. Wainwright, in reply, said that the title of his paper should, have been "early incision with drainage and seraping." What he had done to the knee was an erasion, but not to the hip. The bone removed from the thigh was not carious: it came from about an inch and a half above the knee, and was caused by superficial necrosis of the femur in a granulation cavity. As to the question of pyrmia, the child's temperature never exceeded $101^{f} \mathrm{~F}$., and was usually normal, even when the suppuration started in the hip. It would be strange if such a condition could be compatible with pyremia being set up in the apposite hip. Probably the knee had been injured at the same time as the hip, and the injury had caused pulpy degeneration of the knee, and necrosis of the femur. He had scraped away a pit from the front of the neck of the femur. The pus was sero-pus, not foetid. As to the result with the knee, probably it would have been as good had excision been performed. The paper was read more for the hip than the knee, and the bad result to the knee was probably due to the fact that the parenta took off the splint without permission.

Perihepatitis.-Dr. IIale White began by giving an account of a man, aged 99 , in whom the abdomen had been tapped 3.5 times for ascites, and from whom 790 pints of clear fluid had been drawn off. The tappings extended over a periorl of about 20 months, and at times the fluid re-collected at the rate of 2 pints a day. On one occasion $31 \frac{2}{3}$ pints were drawn off at one time. The patient had been abroad a great deal, and had had ague, dysentery, rheumatic fever, typhoid, and probably syphilis. ${ }^{\text {. }} \mathrm{He}$ gradually sank from diarrhnea, and at the neeronsy it was found that he had geveral lardaceous disease, granular kidneys, and universal perihepatitis, perisplenitis, and chronic peritonitis. There was never any jaundice, nor was there any evidence of dilatation of the portal vein. For these reasons, and because of the extreme rapidity with which the fluid re-collected, Dr. Hale White ranintained that neither pressure on the whole liver nor on
the portal vein could explain the ascitcs. He examined 40 cas in the Guy's Records, of which 22 were cases of universal al 18 of partial perihepatitis; of the latter, 6 werc examples malignant or tubereular peritonitis. The conclusions at whi he had arrived were that universal perihepatitis was, in the gre majority of cases, part of a general disease consisting of chror peritonitis and universal capsulitis of spleen and liver. It w almost invariably nssociated with granular kidneys, and $f_{r}$ quently with gout, syphilis, orer-indulgence in alcohol, or disea of the heart or lungs, causing backward pressure. That the cau of the ascites was the general chronic peritonitis seemed prov by the fact that there was no ascites in the very rare cases which chronic peritonitis was absent. There was never any et dence that the disease could remain latent, or that it tended reeover, so that the prognosis was bad. The cases of partial we probably distinct from those of universal peribepatitis. In t former the thick capsule would not peel off ; there was no foldis of the anterior edge ; the capsulitis of the spleen was not ut versal, and there was but rarely any peritonitis or ascites. It a peared probable that the unirersal perihepatitis began equally : over the liver, and that the partial was never converted into $t$ universal form. The average age at death of cases of univers peribepatitis was, $47 \frac{1}{2}$ years, the oldest being 60 , youngest 29. There were 13 males to 8 females. iIt $w$ suggested that if the author's contention that univers perihepatitis was only part of more general disease turned out tol correct, it would be better to have a new name for that disease. Dr. Kingeton Fowler said he had very frequently demonstrat the presence of this membrane on the surface of the liver in cas of aseites of long standing. The same thing was found on tl peritoneum elsewhere in cases of chronic peritonitis. He attz buted the membrane in some eases to the peritonitis set up by r peated tapping. If peeled off, the membrane was found to 1 fenestrated. A very similar condition was seen in the pleur carity when dropsical fluid had been long present, and it was th membrane which often prevented expansion of the lung after tl withdrawal of pleuritic fluid by tapping.-Dr. Sidney Pumun said he had often remarked how very rapidly the abdomen refille after tapping in cases of perihepatitis. He said that sever varieties had been deseribed, and designated three which occurre He mentioned the case of a man under his care at St. Mary's IIo pital who had jaundice a long time without ascites, hut in who: the ascites was rery acute a month before death. Being tappe the abdomen quiekly refilled. At the post-mortem examination thick band was found blocking up the portal rein. He agreed $i$ discarding the theory that the liver was constricted by the men brane; it was usually enlarged.-Dr. Longhurst inquired ho far the condition deseribed might be due to elimatic influence and asked where the patient was when the disease first showe itself. - Mr. Lucas quoted two cases. The first was one under $D$ l'ye-Smith, in which the abdomen rapidly filled up after repeate tappings. The patient was a youth with a peculiarly blue con plexion, and he diagnosed periearditis with perihepatitis. In the ease there was an inguinal hernia, and they bad attempted drain the peritoneum through the patent tunica raginalis. Th proved unsuccessful in consequence of the blocking of the tut and the closure of the opening by lymph. The diagnosis wa confirmed at the post-morten examination, at which was found a adherent pericardium, with perihepatitis, and a thick membran was found biuding down the lungs. The second case was und Dr. Goodhart. In that ease he made an oblique incision throug the linea alba for the purpose of drainage, and it succeeded ac mirably. The patient went out cured, as the fluid did not $r$ colleet. For months it was possible to turn him on his side, arl when the wound had nearly elosed if a probe was passed in larg quantities of fluid eseaped. If a tube were kept in, sueh wound always quickly closed.-Mr. Smmonds quoted another case undr Dr. Goodhart in which an unsuecessful attempt was made to drai the peritoneum, as the tubes became quickly blocked with lympl He said that they could not wipe over the whole peritoneum wit earbolic acid, and nothing short of that would be of use. IIe wra of opinion that surgical treatment in such eases was useless. Po sibly Mr. Lucas's suecessful ease was not similar to the one queter by Dr. Hale White.-Dr. Ilale White, in reply, said there migh be a general cause at work, but what it was could not be made out Climatic influence could not be traced.
A Case of Tumour of the Right Ovary in à Child aged 7. Asso ciated with Precocious Puberty.-Mr. R.. Clemexny Lucas read, paper on this case. The patient was admitted in to the Evelini
normal. Had been losing flesh since about two months. Distended rems on right side of chest; pupil permanently contracted, With slight ptosis on the same side. Never any difficulty of breathing. Dulncss, on percussion, under right clavicle. No history of syphilis.-Dr. Fortescue Foz asked if there were any history of strain, or any cardiac symptoms.-Mr. Bowreman Jessett said the history of the case and the interference with the circulation were too rapid to lead one to think of an aneuryem. He suggested sarcoma of the mediastinum. - Ilr. TCRENER mentioned a somewhat similar case, but the pressure was symmetrical. He summed up the evidence in farour of a neoplasm.-Mr. ADams Frost said he could detect no impairment of the movements of the eye, and said that the ptosis, if present. Was probably due to pressure ou the sympathetic, bearing in mind the condition of the pupil.-Dr. Bervor said that, in monkeys, the nerves to the pupil came off with the second dorsal nerre, and suggested that the disease was in that neightourhood.-Dr. Heron, in reply, said, that the eye movement was not impaired, and mentioned that the patient had told him that the drooping of the eye existed when he was a child.

Reducible Iumbar Hernia Cured by Operation.-Mr. BerNARD Pitis, in the absence of Mr. EDMOND OwEN, showed a child who had been successfully operated upon for lumbar hernia, the details of which are published on page 957.

Osteo-Plastic Resection of the Foot (Method of Micku-lica).-Sir Wilisam Mac Cormac showed a patient upon whom he had operated for carious disease of the calcaneo-astragaloid joint, involuing the ankle-joint, the details of whicl are published on yage 954.- Ir. Bernaro Pitts said that lie had looked upon the operation as the pious observation of a promise not to amputate, but seeing the highly successful result, it was evidently a great deal more-Mr. Bowreman Jessett asked Sir Wibliam What condition he expected to find when the growth of the hone was complete. He mentioned a case of disease of the astragalus and calcaneum, in which he had obtained an cxtremely satisfactory cure by gauging out the diseased bone, leaving merely a shell.-Sir William Mac Cormac, in reply, said it was not so much in the body of the os calcis as between that bone and the astragalus that the disease was. The operated limb was fully an inch longer than the other, so that there was room for growth.

Functional Contraction of the Right Hand.-Dr. Beeror showed a lad who had contused his hand in May last. Five days later he noticed a tendency to closure of the hand, and this shortly became permanently flexed. The flexion mas followed by total anesthesia up to the shoulder, with loss of muscular sense. The movements of the arm and forearm were however intact. He considered it to be purely-functional, but had never heard of a similar case in this country as following injury.-Sir William Mac Cormac mentioned that M. Charcot had sliown him a case of anæsthesia of both superficial and depp structures following injury.-Dr. HaDDEN inquired whether there was any defect of vision, and meationed an exactly similarcase as having been admitted to St. Thomas's llospital some yeara ago. Such cases were generally preceded by loss of sensibility. He then alluded to the medico-legal interest of such cases in connection with railway accideuts.-Dr. Beevor, in reply, said that after the shock of a railray accident the patient might be able to walk home, the symptoms developing subsequently.

Obstructive Jaundice with Enlarged Gall-Bladder.-Dr. MERRINGHAM showed a man, aged 68, healtly and temperate, who was attacked in the second week of March with riolent pain in the abdomen. Janndice followed ten days later. When seen he was deeply jaundiced. The liver projected one incl and a half below the ribs, and the mall-bladder could be felt as a rounded tumour reaching to the level of the umbilicus. The liver was tender. The gall-bladder felt elastic, and there was an indistinct crepitation, suggesting gallstones when it was pressed. N゙o stones hare been passed since he came under treatment. The 1 rincipal complaint is of intense itching, preventing sleep. The diagnosis was obstruction of the bile-duct by a gall-stone. Trestment consisted in opium pills to relieve attacks of pain, a draught of tartrate of soda internally, and lotions, none of which proved of grent benefit, for the itching.

Curvature of Spine and Kyphosis.-Dr. IImRnNGEAM showed a boy, aged 17. much affected with rheumatism. and possessing a systolic cardiac murmur. Il is back presented a long kyphotic curse, beginning about the tenth dorsal and ending at the third lumbar. The boy maintains that he has had it ever since he can remember, but his history is probably not rery
trustworthy as to this, thengh it it is cortainthat he has had it for two years. Before that he had had for three years to carry two heavy milk-cans. The case was shown for diagnosis. Dr. Herringham thought the choice lay between rhoumatic arthritis, aud kyphosis, from the pressure of the weight, and was inclined to the latter.
Tracheotomy for Syphilitic Disease of the Larym:-Mr. Bowaeman jessett ehowed a man on whom' he had performed tracheotomy five years ago for syphilitic disease of the laryns. Ite subsequently had to serape away a large quantity of papillomatous growths, since which time the roice had returned and continued good.-Sir Wifitasa Mac Commac asked what had been done to prevent blood trickling into the trachea.-Mr. Ber*asd Prits asked whether tubage had been attempted.-Mr. Jessett, in reply, said he had used tampons to prevent hæmorrhage as far as possible.

## royal academy of medicine in ireland. Section of State Medicine.

 Friday, Apric 6th, 1888.C. F. Moore, M.D., President, in the Chair.

Distribution of Enteric Fever in the City of Dublin.-Dr. Gmasshaw, Registrar-General for Ireland, in conjunction: with, Sir Charles Cameron, Medical Officer of Public Ilealth for the city of Dublin, brought before the Section a paper on the distribution of enteric fever in the city of Dublin. The authors stated that their nttention had been especially directed to the subject in' connection with an inquiry which they had recently conducted into the prevalence of enteric fever in the Royal Barracks, and part of the information utilised for their paper had been compiled with the view of throwing light on the barracks inquiry. They showed that while typhus ferer had steadily diminished in Dublin for many years, and relapsing fever had been almost absent, enteric fever had remained statienary as to prevalence, not showing any marked tendency to increase or diminish. The death-rates from typhus and enterie fever, and from zymotic diseases generally, had been at the following rates per 1,000 of the population of Dublin during the past eight years :

|  |  |  | 1851 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Typhus | $\ldots$ | $\ldots$ | $\ldots$ | 0.70 | 0.30 | 0.52 | 0.30 | 0.18 | 0.11 |
| 0.07 |  |  |  |  |  |  |  |  |  |
| Knteric | $\ldots$ | $\ldots$ | 0.35 | 0.40 | 0.37 | 0.42 | 0.42 | 0.38 | 0.38 |
| Principal | zymotics | 2.80 | 0.81 | 0.52 | 0.57 | 0.47 | 0.37 | 2.22 | 5.12 | $\begin{array}{llllllll}\text { Principa zymotics, } & 2.80 & 0.81 & 3.52 & 3.57 & 3.47 & 2.23 & 5.12 \\ \text { It was also shown that enteric fever was not evenly distributed }\end{array}$ among the populations of the city and various townships of Dublin-the average death-rate per 10,000 for the whole district being 3.7 , which varied from 1.8 in Finglas and Glasnevin district, to 3.9 in the city itself. It waa pointod out that while the deathrate from cnteric fever in England and Wales was 0,25 per 10,000 of the population, and in London only 0.23 , or nearly the same, in Ireland the rate was only 0.17 per 10,000 . In the Dublin district, however, it was 0.47 , or nearly three times the amount. Thus, Dublin, aituated in a country with a low enteric fever death-rate, had a higher rate, relatively, than London, situated in a country with a higher rate. It was clear, therefore, that enteric fever had found in Dublin favourable conditions for its spread. The question was, What were these conditions? The greater portion of the Dublin district was supplied by the excellent Vartry water ; but it was a rcmarkable fact that in the only division outside the city where there was not a Vartry water supply, namely, Rathmines, during the past eight years, the enteric fever deatli-rate.was 3.7 , or equal to the average for the whole district, and exceeded all the divisions of the district, except the city. Nthough Rathrines ann the adjacent district of Donnybrook were providen with an -excellent system of main drainage, such as did not exist in any other portion of the Dublin district, Blackrock and Kingstown, inhatited ly the same classes, and aupplied with Fartry water, bal extremely low enteric fever death-rates. There were also varieties in the grological nature of the Dublin district which had an important influence on the prevalence of onteric fever. Many portions of it were situatell on pervious, others on impervious, atrata, and enteric fever prevailed most (cxcept in the case of Rathmines, which had a bad water eupply) on the pervious atrata. The rate of prevalence of enteric fever among the population situated on the pervious stratum was 6.82 per 10,000 , while en the impervious stratum it was only 4.6 per 10,000 . In the ease of the denthe it was fouml that the cnteric fever death-rate on the parviour atratum wns at the rate of $\cdot I$ in 365 of the inhabitants,

while on the impervious stratum it.was only 1 in 531. This vious stratum consisted of a sand and gravel bed formed ba old raised sea-beaeh, which ocoupied the centre of the city a both sides of the river Liffey, into which was discharged all city sewage. This cravel bed lay in clay and rock, so that 1 tained all the fluid filth cast upon it or soaked into its pores the river, and might be considered to be like a basin of c water placed in the middle of the city, over which houset built inhabited by about 80,000 people. The authors believod to be the great ground for the propagation of enteric fere Dublin, and pointed:out that the only remedies were $t$ directed towards the prevention of the saturatiou of the gr hed with selwage, and the complete isolation of the housea the foul airi contained therein. This must be done by 1 drainage, the abolition of privies and cesspita, and the coucre of the basements of all the houses situated in the gravel.-A cussion ensued, in which Dr. J. W. Moorr, the Presidernt, Litilee, and Sir C. Cameron took part, and Dr. Grims) replied.
Hypnotism.-Mr. G. M. Fox read a paper in which he traced history of hypnotism from the days of the notorious lrishn Valeutine Greatrex, who was specially commissioned by Charl. as a."Stroker," and gave an account of the wonderful boy " $k$ teller," Duncan Camphell, the Scoteh lad, who, had De Foe biographer, and was the subject of some of Dick Steele's pal in the Spectator; up to the advent of Mesmer. Mr. James Br examination of the claims of Mesmerism was detailed, and fact that many surgical operations of a severe nature were cessfully performed by Esdaill, Cloquet, and others was ? tioned, together with the views held on the oubject by Hei hain, Tuke, Carpenter, and others. The practical. questic "What. therapeutic use can medicine make, of hypnotism awaited an answer, and the author did not mueh favour the of the remedy, as it was attended with: many dangers, and not always reliable in its, action. Hypnotic sleep had, howe given rest when ordinary remedies had failed, and in the case very hysterical woman it not only diminished the pains of lab but also protected the lives of both mother and child, which endangered by the wildness of the patientes acts. In cases w beart or lung troubles precluded the ordiuary anesthetics, 1 notism might fairly claim a trial, but such cases were few. On whole, the remedy could nit, in our present insufficiency of knt ledge of psychology, look for support from scientific medicine.
Gilengarriff as a Winter Mealth-resort.-Mr. Edg AB Funnn Glengarriff supplied a want long felt in Ireland, where the ferer recovering from a long, tedious illnees might find a clit mild equable, and yet invigoratiag-a climate similar, and many respects preferable, to that of Torquay, Bournemouth the Isle of Wight-a loeality now more-ensily arrived at, completely sheltered from the east, north, and north-west. Wi There could be no question of the suitability of Glengarrift residence for sufferers from hronchial affections, consumptire asthmatic patients epecially deriving great benefit and relief $f$ a sojourn there. Rheumatic and gouty patients requiring a temperature and a minimum of variability of weather derive considerable relief during the winter menths from a to Clengarriff. 'In February of the present year, when the aut visited Glengarriff, the thermometer at mid-day in the sun re? tered as high as $76^{\circ} \mathrm{F}$., and in the afternoon never went $58^{\circ}$, and so. mild was the climate in the evenings that pere were enabled to sit, in the open air without feeling the sligh discomfort or chilliness.-Dr. James Liticle, from personal ob vation, oxprossed his entire concurrence with Mr. Flinn. garriff compared very favourably, as far as climate and $h$ accommodation were concerned, with the English seaside hica resorts, including Torquay, Bournemouth, and Ventnor. Indi he thought, making a contrast with Contimental reserts also, t Glengarriff lacked the culdness, dampness, gloom, and rain $\pi t$ prevailed during a great part of the year at Pau.-Sir Crimn Cameron considered the worst featire of Glengarriff, fron health point of view, was the large rainfall, between 40 and inches. The discomfort of Buxton was the frequent rainfall it was nothing to that which prevailed at Glengarriff, if return given was authentic. It would be of great value that meteorologieal statistics should be accurately known, giviug average number of rainy days, the mean temperature, and the treme each month.--Dr. J. W. Noons: regretted that there was meteorological atation at Glengarriff, and unti] there was suep atation the place would never be known outside Ireland. It

F the establishment of climatological atations that certain places 1 the South of England came to be known and frequented. The earest atations to Glengarriff were those at Killarney and alencia. It appeared, that the bulk of the rainfall descended the late summer, throughont the autumn, and in the early inter. Therefore, at the aeason that Glengarriff was most eeded as a health-resort-namely, epring-the elimate must be mply delightful. There was a moderate. rainfall, the aky was ear, and the wind, though aasterly, was deprived of all its arahness by passing over a considerable extent of water surface. he desirability of establishing a station at Glengarriff should be ought under the notice of the Council of the Meteorological ciety, and some suitabla parson in the neighbourhood ought to 3 induced to take the observations.-Dr. Cosqrave said that a stient of his, who had been for the last four weeks at Glengarriff, id written to him, atating that he had been out from morning 11 night during the whole period without feeling the slightest convenience, though when he left Dublin the apex of one lung as affected, and he had great difficulty in breathing. In addition the advantage of liaving sueh a desirable climate within easy ach of Dublin, there was also the advantage that Glengarriff as an exceedingly eheay place, the botels charging only from ? to £2 10 s. per week for bed and board. -The PaESIDENT rearked that it was also an important fact in farour of Glenrriff that no such violent and sudden changes of weather from sat to cold occurred there as in Southern Europe along the editerranean shore.-Mr. R. Montgonery said the great draw ck- to Glengarriff was the difficulty of access and the want of ausements to supplement the pieturesque seenery and balmy r-Mr. G. Ciarke and Mr.J.J. Murphy made some remarks, d Mr. FLINN, in reply, said he had called the attention of the oprietors of the two hotels at Glengarriff to the necessity of ving a regular. system of meteorological observation, and they id they had applied. for it fire or six years' ago, but their request is refused. The rainfall at Torquay was 40 inches in the year, lich came very near to that at Glengarriff. Wherever there was autiful scenery, mountainous especially, there was sure to be excessive rainfall.

## NORTH OF IRELAND BRANCH. <br> Thursday, April 19TH, I8S8.

J. Jingengh Pativer, F.R.C.S.I., President, in the Chair. Cases.-Dr. WHithA showeḍ a case of abdominal aneurysu: "Dr. Jeill two children on whom he had operated for congenital ruino-scrotal hernia (radical cure) ; Dr. J. A. LINDSAY a patient fering from paralysis agitans.
Specimens.-Dr. O'NEILLexhibited anovarian tumour suecessfully noved; Dr. JoHn W. Brers a multiloculax, cystoma of the ovary zeessfully removed; Dr. Bumden a series of mieroscopic prerations of tumours.
Injection of Carbolic. Acid in Hydrocale-Dr. EsIeER presented ommunication on this subject.
Tejmal Enterectomy.-Professor Sincliain brought forward a ceessful case of jejumal enterectomy for the cure of an artificial us in the right groin, the result of sloughing in a femoral hernia hteen months previously. About, four inches of bowel were noved, and a single row of Lembert's peritoneo-muscular'stitches roduced. No wedge of intestine wasl exeised. The specimen s exhibited, and the patient reported as having returned to his rk.
Turpentine in. Whooping Cough.-Dr. John StraHAn read a per on turpentine in whooping cough and adme other affections, which he drew attention to the great value of this drug. i He ;arded it as one of the best stimulants, and his rule was to give inder much the same circumstances that hospital physicians seribed brandy and whisky., Professor Cuming, BDr. mpsey, Dr. Grey (Castlewellan), Dr. Byers, Dr. Lindsay, Scotr, Dr. Burden, and tho President took part in the dission on the paper.

## ABERDEEN, BANFF; AND'KINCARDINE: BRANCH.

Wednespar, April 18tm, 1888.
Dr. Smith, Presideut, in the Chair.
ase of Uterine Fibroid Complicating Labour.-Dr. AImer, 1 -vic, contributed notes of a case of labour obstructed zby a oid tumour of the utcrus in the pelris. The patient, aged 39 , married for four years, was delivered of "\& stillborn child
three years previously, miscarried, at the seeond month in De cemher, I881, and January, 1883; and in F'ebruary, 1881, was-in labour at full term. The posterior vaginal wall was pushed gn far forward by a round, hard body about the size of a foetal bead, that the examining finger could not reach the os. Rectal examination showed it to occupy Douglas's ponch and completely ${ }^{2}$ to block $u p$ the pelvis. An attempt was made under chloroform to push up the tumour, but without avail. ${ }^{\text {r It was then punctured }}$ per rectum with negative result. The os was now reached, and the head found presenting in the first position. The hand was introduced, and with great difficulty insinuated past the tumour into the uterus, and first one and then another foot seized and turning effected. After steady traction for an hour and a half, a stillbora child was delirered. Opiatea internally and regular antiseptic uterine douches were ordered, and the patient got up twelve days after delivery. Since then pregnancy had not again taken place, but the tumour now oceupied the whole abdomen, extending four inches abore the umbilicus, and having an umbilical cireumference of thirty-eight inches. Menstruation was regular every three weeks, lasted four days, and was not excessive. For the past year ahe had suffered from frequent severa neuralgic attacks in the right iliac region, which were relieved only by hypodermic injections of morphine. Last January therpatient was sent to Dr. Thomas Keith, of Edinburgh, who considered the case unsuitable for operation on account of the fixed mass in the pelvis, but suggested eleetrical treatment.

Specimens and Casts of Cirrhotic Lungs.-Dr. Gibson ahowed the lungs removed from a man, aged 32 , and zinc-gelatine casts of the same. There was a history of hamoptysis of two months duration. The left lung was in a state of ehronic interstitial pneumonis and bronchiectasy; while the right showed wellmarked compensating hypertrophy: Save the kidneys, which wers slightiy eirrhotie, the other organs were healthy:

Specimen of "Hammer-toe."-Dr. Mackenzie Booth showed a strongly-marked specimen of "hammer-toe;" which he had removed from a teacher of gymuastics, aged 36. The deformity, which was "due to contraction of the Hexor tendons and the lateral ligaments, had begun' twelve years previously after, an awk trard fall from the horizontal bar, and was operated on nine years age by subcutaneoua division of the, Hexor teudons, aud continued extension. A short time after the operation the contraction recurred, and soon became worse than before, the patient walking on the tip instead of the plantar surface of the thiti phalanx, and a painful corn resulting on the tip of the toe in addition to that previously existing at the junetion of the first and second phalanges. Remoral of the toe latterly becamer necessary on account of the pain and interference with the patient's occupstion.

## SOUTH-EAST HANTS MEDICAT SOCIETY: Wednesday, AprH, $18 \mathrm{TH}, 1858$. <br> Jayes Watson, M.D., President, in the Chair.

Sacculated Kidney.-Mr. James Green exhibited a large aacculated kidney, in which all traces of renal structure had disappeared. A coneretion occupied the pelris. During life the patient had not suffered from any marked symptoms of renal calculus.

Round-celled Sarcoma of Kidney.-Dr. J. O'Conon exhibited the specimen. The patient was admitted into the Rayal Portsmouth Ilospital, suffering from rextreme dyspnoz from rapid offusion into the right pleural cavity. The removal of two pints of bloody serum was followed by temporary relief. After death the primary growth. Was found to accupy the riglit: kidney, and secondary deposits were diseovered in the lungs, liver; and peritoneum.

Spindle-celled Sarcoma.-Dr. J. O'Conor showed a large nodular growth which had been removed by Dr. Wiard Cousins at the Royal Portsmouth Ilospital. It covered half the sternum, and extended into the dower part of the neck. It was a recurrent grosth, the primary tumour having been romored two years bufore. The collular tissue and skiu were extensively involved. The wound was nearly closed by freely detaching the skin subeutanepously over the pectoral regions. The patient mado a good recorery.

Nephro-Pyelitis and Stone in the Bladder.-Dr. J. O'CoNon also exbibited thekidneys removed from a boy, aged 10 jears, who. har been admitted into the hospital for stone in thebladder. A few hours before the time tixed for the operation, he was attacked with all
the symptome of acute peritonitis, constant vomiting, and almost entire suppression of urine. Renal suppuration was suspected. The abdomen was greatly distended, but there were no loenlising symptoms. At the necropsy an old abscess was found in the left lidney, the ureter was dilated, and the structure of the entire organ was destroyed. The right kidney was large and much congested. Dr. Warn Corsins remarked that the patient succumbed from acute septic disturbance. If lithotomy had been performed before the onset of the attack, the operation would probably have been fatal from the advanced discase of the left kidney. At the time of admission the stone in the hladder was found on examination, and the condition of the patient appeared favourable for surgical treatment. The vesienl symptoms were not urgent, and the urine contained only a little muco-pus.

Large Round-celled Sarcoma of Ovary.-Dr. Ward Cousins cxhibited the specimen. The patient was 17 years of age, and the tumour had developed with great rapidity. The first symptom obsorred was cedema of the right leg. The abdomen measured thirty-five inches in circumference below the umbilicus. The mass was solid, nodulated, and immovable, and appeared continuous with the upper horder of the ilium on the right side. The uterus appeared healthy, but firmly fixed to the hase of the tumour. After death the right iliac vessels were found much involved in the growth, and they had a very circuitous course through the fibrous structures which fixed it to the pelvis. Secondary nodules were present in many of the abdominal organs, and were scattered also over the peritoneum.

Chronic Phthisis with Atlento-awoid Disease.-Dr. Ward Cousins exhibited the specimen. The patient had been many months under treatment with all the characteristic signs of the disease of the upper cervical vertebre. IIe could only rest with the head carefully fixed and inclined to the right side. Once only he complained of dyspliagia. Deep-seated tenderness was present, but no swelling of the neck. Physical examination of the chest clearly indicated old disease of the lungs, but the thoracic symptoms were only occasionally troublesome. At the post-mortem examination the atlas and axis were found in many parts extensively softened and disintegrated. The odontoid process was rough, completely denuded, and surrounded by purulent fluid. A tbin collection of pus existed in the anterior surfaces of the three upper vertebre. Dr. Ward Cousins remarked that the secondary disease of the cervical spine was the result of purulent infection. The extensive disease of the apices of the lungs was of long standing, and the exciting canse of the pyrmic caries.

Calculi Removed by Suprapubic Lithotomy.-The patient, aged 60, was under the care of Dr. Ward Cousrns, in the Royal Portsmouth Hospital, labouring under urgent symptoms of stone in the bladder, attended with fetid cystitis. On examination a concretion was readily detected, apparently impacted in the vesical wall. There was no history of hremorrhage. The lithotrite was introduced, but the attempt to seize the stone was unsuccessful. Three calculi were then removed by the suprapubic method. They were detached by the point of the finger from the wall of the bladder, which was very thick and vascular. The patient died on the fourteonth day after the operation. The necropsy revealed old renal disease, with dilated ureters, and also the presence of a new growth involving the bladder around the ureteral orifices. -The report on the nature of the growth was postponed until the next meeting.

Early Diagnosis of Typhoid Fever.-Dr. AxFord made some remarks on the difficulty attending the diagnosis in the early stages of some cases of typhoid, especially instancing cases of typhoid simulating intermittent fever. Ic then read notes of a case which to all appearance was metritis and parametritis, but which ultimately showed itself to be in reality enteric fever. Miss W., aged 33, had suffered from dysmenorrhcea. Commencing to menstruate on Sunday, November 20 th, she was exposed to severe cold on the following day; the flow ceased at once, and severe pain in the uterine and left ovarian region came on, and there was a patch of dulness in this part. There was acute pain of a spasmodic character in the lower part of the abdomen, and the attacks of pain were accompanied by retching. A vaginal examination caused most acute suffering. The os was swollen harder than usual, and very tencler, and pushed somewhat forward. On pressing upwards towards the left ovary there was some swelling to be felt, and very great pain was produced. At first the bowels were confined, but early in December there was diarrhea for a few days, but this was never severe. Typhoid spots were seen about the fourteenth day. The patient was treated by hot fomentations
and poultices, with laudanum and quinine internally. The t $\epsilon$ perature on the fifth day was $104^{\circ} \mathrm{F}$.; it generally ranged ir $101^{\circ}$ to $103^{\circ}$. In the early stages there was little differe between the morning and evening temperature. Convalesce: was established bythe twenty-eighth day, and resulted in compl recovery.

Ovarian Tumour and Ascites.-Dr. II. L. K. Hackman sta that the first symptom complained of hy the patient was a 0 stant desire to micturate. Early in 1887 the left leg beca swollen, with tenderness along the femoral vein, and indurat in the left iliac region. The bladder symptoms continued, $\varepsilon$ soon after marked ascites followed. After careful examinat an ovarian cyst was diagnosed, surrounded by peritoneal flo The patient refused to undergo any surgical operation. The domen was tapped to relieve the distension, and then a w defined tumour was readily detected. The operation ras peated several times, and the patient at length died fr exhaustion. Only a very imperfect post-mortem examination permitted. The abdominal viscera were matted together by adhesions. The eyst was brittle and evidently undergo necrotic changes. It was firmly adherent everywhere, and c tained a dirty fluid and much cheesy-looking material. Hackman said that he considered tapping in ovarian disease dangerous treatment, and he thought the case favourable for dominal section, but it was impossible to persuade the patient submit to it.

Aural Inflator and Evacuator.-Dr. Ward Cousins exhibi an aural inflator and evacuator especially adapted for $t$ Eustachian catheter. By this apparatus the treatment of alt nate injection and evacuation of air could be applied to one, only.

Microscopic Sections.-Dr. F. J. Driver exhibited: 1. Rou celled Sarcoma of Kidney. 2. Sections of Heart-Muscle a Kidney in a Case of Phosphorus Poisoning. 3. Sections of Lu and Trachea affected with Chronic Syphilitic Induration.

New President.-Mr. H. B. Forman was unanimously elect. President of the Society for the ensuing year.

## MIDLAND ${ }^{-}$MEDICAL SOCIETY. <br> Wednesday, April 18th, 1888.

W. Ross Jordan, M.R.C.S.Eng., President, in the Chair.

Ataxia in a Brassworker.-Dr. Hogden exhibited a case ataxia, occurring in a man, aged 31, who was a brassworker. I patient came to the out-patient room at the Qucen's Ifospital t years ago, complaining of tremors and weakness in the legs. had the green discoloration of the teeth characteristic of his oc pation. His gait was staggering, and he suffered much fr static ataxia, being quite unable to walk in the dark, or to stat with his eyes closed. On examination, his muscular sense pis found to be much impaired in the lower extromities; there w no loss of sensation. The patellar tendon reflex was exaggerat and ankle clonus present. His pupils responded to light and commodation, and the fundus oculi appeared healthy. There ${ }^{\text {a }}$ no history of syphilis, nor of gastric or other crises. The patie had continued under observation for two years without much $p$ gress for better or for worse.
Specimens.-Mr. Lawson Tart exhibited the following epe mens: a Sarcomatous Kidney, weighing one pound two ounc removed from a child three years of age; a Dermoid Tumour Orary, with a long twisted pedicle, and adherent to the ascendi colon; a large Cystic Kidney, removed from a woman aged 52 Mr. E. L. FaEer showed a case of Dupuytren's Contraction ir. man successfully treated by multiple incisions.
Treatment of Spinal Curvature.-Mr. Freer also read a pay on "The Treatment of Curvature of the Spine," and demonstrat the mode of applying the divided plaster cuirass.
Presentations.-Mr. William L. Thomas, M.Ir.C.S.Eng., b been presented with a purse of money and an address, ou retiri as Medical Officer to the Weald of Sussex Lodge of Odd Fellows. Mr. Robert Francis Symmons, M.R.C.S.Eng., of Colchester, has be, presented with a purse, containing npwards of $£ 100$, by his patier and friends, as a mark of esteem and goodwill.- At the present tion of certificates to the successful lady members of the l'ont. pool Ambulance Class by Dr. Lawrenee, of Usk, Dr. E. Stanl Wood, who had conducted the class, was asked to accept a valual gold pencil case, bearing a suitable inscription, from the trent. one members of his class.
in the direction of romance of a plysician well known and respected for his literary and artistic attainments. - fact which cannot be denied, and although there are mumerous isolated instances of talented doctors who have distinguished themselves by their contributious to general literature, it must be confessed that our calling as a profession is not famed for its imaginative or romantic productions. Whether this is due to want of leisure, to the intrinsically engrossing nature of its duties, or to the practical and materialistic line of thought which it entails, it is needless at present to discuss. The fact remains that doctors, as a rule, are not novel-writers. " This is perliaps to be regretted as medical men in reality have opportunities of observing and studying human nature under varied aspects, and of coming in contact with incidents and scenes which should provide them with a rich soil for the cultivation of romantic and imaginative works, and which, if properly utilised, might provide us with more wholesome and intelligent reading than the insipid publications so frequently met with.
Of the details of this book $\pi \theta$ do not-propose to speak. We can only express our opinion that it is cleverly written, that the literary style leaves nothing to be desired, and that the characters and incidents of the story will be found to be interesting and psychologically instructive. There is nothing strictly medical in the book unless it be that one of the chief personages is a fashionable doctor, whose character is admirably drawn. lle represents
a type, unfortunately too common, of man whose strle of a type, unfortunately too common, of man who. Dre strle of the astute, worldly-minded indiridual, who, without being crimin ally culpable, or even placing himself beyond the pale of the profession, sails close to the wind and succeeds in gaining the confidence and money of the public in greater abundance than the respect of his own colleagues.

## NOTES ON BOOKS.

Shepherds First Aid to the Injured. Revised and Rearranged by Robert Bruce, M.R.C.S.-This shilling handbook of the St. John Ambulance Association has been carefully revised and much improved. The illustrations will very greatly assist the reader in following the practical descriptions of improrised splints and stretchers. A very useful chapter on Conveying lnjured, by Mr. John Furley, will be found invaluable by those lecturers who are instructing ambulance classes of men engaged in factories and mines. No manual can be found equal to this for the purpose for which it is intended, that is, to give some plain rules to non-proinsional persons, which will enable them to render immediate aid in many of the cases of accident and illuess which occur in our daily life.
Royal University of Ireland. The Calendar for the Fear 18ss.-Eramination P'apers, 188\%. A Supplement to the University Calendar for the Year 1898. (Dublin: Printed for the Royal University by Alexander Thom and Co. 1885.)-The Royal University of Ireland has this year published the Calendar proper and the examination papers in separate rolumes. The innovation will be a great convenience to students preparing for its examinations, all the papers set during isst matters of absorbing iuterest all the papers set during 1887, matters of absorbing interest.

The Calendar of the Pharmaceutical Society of Great Britain. 189s. (London: Printed for the Society.)-The new volume of the Calendar of the Pharmaceutical Society contaius the usual classified lists of members, associates and apprentices, and abstracts of Acts of Parliament affecting the interests of pharmaceutical chemists and others engnged in the drug trado.
Jabmil from tiee Dutcil Indies.-Dr. J. A. Quanjer, of Amsterdam, records in the Weekblad a case of diabotes in which he administered an infusion of jambul with great success. The specimen employed was imported from Dutch India, where the plant, Syzygum jambolona, is called by the natives Diobet, and is to be found everywhere in the gardens. The drug appeared to exert so out inch an effect that the strict diabetic diet was relaxed without increasing the sugar. It is not clear whether this is the same plant as Eugenia jambolana.

## BRITISI MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Senscrimtrons to the Association for less became due on January 1st. Members of Branches are requested to pay the samie to their respective Secretaries. Members of the Association not belonging to Branches are requested to formard their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Ofice, High Holborn.

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## SATURDAY, MAY 5T甘, 1888. <br> THE DUTIES AND THE DIFFIOULTIES OF EDUCATIONAL WORK.

We have often urged in these columns the necessity of providing special classes or day schools for those children whose feeble constitution or low brain-power renders them unfit for education in the ordinary classes of our public elementary schools. This subject is ably discussed in the last two numbers of the Journal of Mental Science, and reference is there made to the auxiliary schools which have been established in several of the more innportant German towns, mainly through the efforts of Herr Kielhom, these schools being intended for children who are unable to bear the strain of the ordinary curriculum. Those children who after two years' trial have been shown to be quite unable to follow the instruction given in the olasses of the national schools are drafted into these special schools, where, all the pupils being on about the same intellectual level, it becomes possible to place them under the charge of a specially trained teacher, who instructs them in classes not exceeding twenty members, so that some care may be devoted to their individual capacity and requirements. This withdrawal of the feeble and more lackward children from the national schools enables more care to be given than to the ordinary children working in the curriculum, a heavy incubus and tax upon the teachers' time being thus removed. It is manifestly unwise in the interests' of society, and unjust to the weakly children to leave them practically uneducated; allowing them to be sent out into tho world to meet the many dangers which await the weaker members of the community, tendiug to draw them towards pauperism or criminality if left untraiued and unprepared. Dr. Shuttleworth, of the Royal Albert Asylum; Lancaster, advocates the introduction of a similar system in this country. No systematic effort has thus far been made among us for the special training of those children whose weak mental capacity renders it impossible for them to keep pace with the requiroments of "the code.",
A similar movement has been made in Norway, where it is said that the ratio of the "abnormal", children in public elementary schools bears a ratio to the ordinary school children of 0.4 per cent. This ratio appears müch
lower than that suggested by our own experience in En land. The requisite funds are provided through the Sche Board, and the annual cost is about $£ 615 \mathrm{~s}$ s. ouch pupil. Su auxiliary schools are at work both in Christiania and in Berge Dr. Shuttleworth has suggested that an experinient might made with some central school or special department of a schc for exceptional children. Such school department would have distinct sphere of usefuluess, apart alike from the common sche and the imbecile, institution. An important hiatus in our En lish educational system is thus pointed out. The subject is ri for practical consideration and action. A satisfactory soluti of the problem has been found by our Continental neighbow and we must be prepared to do likewise. It is not fair to $t$ ordinary National Schools, which have to depend for their i come in a large degree upon the results obtained at examin tions, that they should be burdened by a number of feeb children, and it is unjust to neglect such children. Sufficier scientific kuowledge exists among us for the selection Yof the "special children" by those whose studies have led them to o serve children with care. It seems to us unnecessary to wait t two years' failure in school has demonstrated the ffeeble brai power of the children. Selection might be made by the oce sional visit of a medical inspector, acting in conjunction with th opinion of the teacher and managers. The subject is within tb scope of the Royal Commission on the blind, dumb, and childre who, from exceptional circumstances, require special methods education. We believe they have already received some ev dence as to this class of children.
A very temperate article in the current number of the Educe tional Times refers to what sounds something like à declaratio of war between the National Union of Elementary Teachers an the Education Department. The causes of quarrel are princi pally two-payment by "results," and the "cast-iron system which ignores every consideration of humanity.". Two hear. indictments, but of different significance. They both, howeves have some foundation in certain points within the cognisance n our profession. Results of education, as the bellicose school master points out, are not simply to be tested by scholastic cxamination, but partly by results seen in appearance, in con duct, in accuracy and quickness of brain-action. Some tangibl results of education must be looked for; let the schoohnasters say what in their opinion are the visible results of their besf work. Members of our profcssion often have to work long anc hard without reward or recognition, contented that good almays follows good work. A medical practitioner does net take as the standard of his work the amount of money it will bring him but is bound to do the best he can in the discharge of his pro fessional duties. We cannot echo the sentinuent contained in a letter from the President of the Teachers' Union, as quoted in the article we have noticed, when he says: "I advise the teachers of the country to leave overt acts as to the moral training of our children to their parents, their ministers, and the inagistrates., Neither of them have to enter in a punishment book the deterrent good they do to their own' disparagement.

- this advice seems very shocking; still, I hold it to be olicy." We cannot ourselves recommend that a "safe 'be placed before loyalty to the honourable traditions of - profession. We greatly sympathise with elementary teachers in the unwise attempts of certain magistrates to the power of maintaining discipline in schools by means horal punishment ; children may not like it, the remedy is id it by obedience. As long as such means are found ury in higher schools and in families, it is only just acderate and reasonable means of punishment be left in nds of teachers. We agree with the Educctional Times in that " more stringent discipline is needed in an elemenablic school than in a higher school." There is too much entality nowadays about corporal punishment.


## RISH PRISON SURGEONS AND CONSULTANTS.

rbitrary conduct of the Irish Prisons Board towards, and arference with the powers and duties of, prison surgeons, bliged us more than once to comment on its proceedings. the inquiry and report of the Royal Commission on Priiscipline, better relations appeared to have been established, ; was hoped that further attempts to curtail the indeace of the medical officers of prisons would not have been
question asked by Mr. Murphy in the House of Commons ,ril 17 th-which, with Mr. Balfour's reply, was noted in ournal of April 21st-shows that such hopes were vain, lat the Board is again endeavouring ultra vires to interfere he rights of the medical officers.
ppears that the Prisons Board issued a circular to goverof prisons, directing them, after consultation with the al officers, to forward a list of medical practitioners g qualification and religion-to be called in from time to n consultation.
ras asked whether the power to call in additional medical ance was not given by the 105th Rule of Local Prisons lations. This was a mistake-and a very natural one-for )5th Rule professes to give the power. But the 105th Rule rerbatim extract from the 53rd Section of the 40 and 41 irap. 49 (the Prisons Ireland Act), so that the power of g in a consultant is statuteable, and necessarily involves hoice by the person on whom it is conferred of the conat to be called in.
England, the mistake of confounding the provisious of an of Parliament with the rules made by the Prison Commisss could not occur, because, in the rules for local prisons, the ons taken from the Acts are printed in Roman characters, the rules in script type. In the Irish rules, however, the pts from the Acts and the rules made by the Board are ed in similar type, numbered consocutively, and presented to le world as made by the Board and approved by the LordLi

Advantage of the mistake was taken to furnish Mr. Balfour with his reply; and the only explanation of his answer which we can arrive at is, that his informant confused the appointment of, wardens with that of medical officers, so that a specious reason might be given for an autocratic action on the part of the Board.

Mr. Balfour is reported to have repliod that "The appointment of medical officers required the sanction of the authorities, and it seemed to him to be certainly within the spirit of the rules that some effective control should be exorcised as to the election of consulting physicians."
There is a grave error in the first statement : the appointment of medical officers does not require the sanction of the authorities; the latter part is a mere sequitur ; and, finally, there is no such office as that of consulting physician, nor any election thereto.

As it stands the reply is incomprehensible, but what is intended to be expressed appears to be that the power of calling in consultation being conferred by the Board, it is natural that the anthority giving that power should also have the right of controlling the exercise of it. But, as the power is not given by the Board, that body has no more right to control or to interfere with its bona fide exercise than the junior clerk in its office has.

The Act of Parliament is specific. Section 53 says: "He" (the medical officer) "may in any case of danger or difficulty, which appears to him to require it, call in additional medical assistance; and no serious operation shall be performed without previous consultation being held with anothermedical practitioner, except under circumstances not admitting of delay, to be recorded in his journal." Now it is clear not only that the medical officer may call in additional medical assistance, but that he is constituted the sole judge of when it is requisite; and it is a recognised principle of law that a power conferred carries with it, unless expressly stated to the contrary, a discretion to the person so empowered as to whell and how and by whose means he shall exercise that power.
The effort of the Board to regulate or assume an authority to approve of the practitioners to be called in may seem a small thing to cavil at; but when it is remembered that there is in existence an uncancelled circular of the Buard directing, in distinct opposition to the provision of the Act, that additional advice is not to be obtained, except in urgent cases, without the sanction of the Board, and that the Board has taken it on itself to specifically order that certain practitioners are not to be called in again because they have refused to accept a fee of one in place of the ordinary consultation fee of two grineas, or hecause they have compelled the Board to pay money le rally, and equitably due, or for other trivial reasons, the matter assumes larger proportions.

But the real objection lies in its being only one of a number of porsistent attempts to take away the independence deliberately conferred on the prison medical officers by the Acts of Parliament. The medical ofticer is intended and ought to stand independent between the prisoners and the discipline authorities.

It would be difticnit to conceive why the Board should seek to deprive the doctors of their rights, wero it not that the Board appears to mistrnst its officers, and more ospecially the medical ones. It probably suspects that they give a preforence to those medical gentlemen who discharge their duties when absent. There is no evidence that this is the case; but even if it were, we see nothing objectionable in it; on the contrayy; the man who has some experience of the peculiar circumstances of prisou life, from having acted as the medical officer's substitute, is the one best suited to appreciate the relaxations of discipline or changes in diet requisite in particular cascs.
We trust the matter may not be allowed to rest, and that members of Parliament will closely watch the action of the Board, and prevent by gradual encroachments its acquiring supreme authority.
Nor is there any need for such encroachment. The work of the Irish prisons surgeon has been well done. The reports of the Board, year after year, show a rentarkably small mortality, which is mainly owing to the medical officers' attention to the sanitary state of the prisons and their eare of the sick prisoners; on the other hand, discharged prisoners testify publicly to their eficient discharge of duty.
With such testimony from both parties, it seems particularly hard that these officers, whose responsibilities are serious, whose work is arduous, and whose salaries are inadequate, should have been publicly slighted by being twice passed over for promotion, and that now injury should be added to insult.
It would be far better for all parties concerned if the Prisons Board adopted the sensible policy of tristing their medical officers. If their powers are large, they must act with a full sense of the heavy responsibility such powers involve; for 110 good cause to try and curtail those powers, lowers the sense of responsibility; and when the conviction of being distrusted is added, all heart for or interest in their work is taken away. Were the Board capable of appreciating advice, wo would say: Trust your oflicers fully, and do not hampor them in the dis clarge of their duty. If an officer is proved unfaithfil or carcless or negligent by all means apply to the Lord Lientenant to got rid of him; but until he is so proved unfit for cenfidence, trust him fully; and we venture to say on behalf of tho medica officers that they are not and will not be found unworthy of such confidence.

A contersazione will be given by the sedical Society a its rooms, 11, Chandos Street, Cavendish Square, on Monday May 7 th, after the annual oration, to be delivered by Sir Josepl Frayrer, M.D., K.C.S.I., at 8.30 .

AT the meeting of Cenvocation of the l'niversity of London Tuesday next (Hay 8th), a resolution will be moved, at the in stance of the annual Committee, empowering, it, in conjunctio with the Committce appointed at the instance of Sir I'hili Magnus in 1885 , to take steps to represent by suitable witness the views of Conrocation to the Royal Commission appointed inquire inte the condition of the higher education in London.

Lord Randolph Churchill, Mil'., will preside at a Special estival Dinner, to be held at the Hôtel Métropole on May 12th, in d of the scheme for the extension of St. Marys llospital, menboed in the Journal on April 21st (p. 865).
H.R.H. the Dechess of Albany has graciously consented to stribute the certificates to ladies who have passed the examination Alowing the lectures on Domestic Hygiene, by Dr. A. T'. Schobld, at the Parkes Museum, Margaret Street. The ceremony will ake place at 3 P.M. this day (Saturday).

HE SIR GEORGE BURROWS MEMORIAL PORTRAIT. Fe are asked to state that the subscription list for this portrait ill be closed on May 15th. Intending contributors are, therere, requested to send their subscriptions without delay to any rember of the committee, or to the hon. treasurer, Sir Dyce uck worth, M1.D., 11, Girafton Street, Piccadilly, W.

THE SOCIETY OF APOTHECARIES.
fiss Macdonald has obtained the diploma of the Society of pothecaries. Subsequent to the admission of Miss Garrett in IS6.5, egulations were adopted by the Society which had, up to this ate, prerentel the further admission of ladies to this examinaion. These, it will be seen, have now been relaxed.

ROYAL COLLEGE OF SURGEONS OF ENGLAND. 'he surgical lectures to be delivered by Mr. Thomas Lryant at be College will be three in number, and will be given in June. The hour for their delirery has been, as our readers should note, aftered to 5 P.M. The subject of two of the lectures will be the Causes, Effects, and Treatment of Tension in Surgical Cases, and that of the third lecture will he the Surgical Treatment of Injuries of the Cranium.

## THE CROONIAN LECTURE.

The Croonian Lecture of the Royal Society will, as we have previously stated, be delivered this year by Dr. Kühne, Professor of Physiological Chemistry in the University of leidelberg, on May 28th, in the theatre of the Royal Institution, Albemarle Street. Professor Kühne, who will speak in German, has chosen for the title of his lecture "Ueber die Entstehung der vitalen Bencegung (On the Source of Fital Morement)."

ROYAL COMMISSION ON UNIVERSITY EDUCATION IN LONDON.
Wr are enabled to announce that the Larl of Selborne will be the Chairman of the Royal Commission on University Education in London, and that the other members of the Commission will be the Right IIon. J. T. Ball, lately Lord Chancellor of Ireland; the Right Hon. Sir James Ifannen; the Hon. George Brodrick, Warden of Merton College, Oxford: Dr Weldon, Head Master of Harrow; Professor Stokes, M.I., l'resident of the Royal Society; and Sir William Thomson, LL..D., F.R.S., with John Leyburn Goddard, barrister-at-lan, as Seeretary. The Commission will be signed by the Queen at the next Council meeting.

## DONDERS MEMORIAL FUND.

As the subscription list to this fund must shortly be closed, it is requested that all who still wish to subscribe will send in their mames to the Honorary Secretaries, Messrs. Gerald Yeo and Brailey, on or before Monday, May l4th. It is to be hoped that some of our countrymen may be able to attend the ceremony at l'trecht on May 2sth. Donders's 7Oth birthday falls upon the day pre-
rious, but since that is Sunday, tho ceremonial of presentation is deferred until Monday. It is needless to say that all who cau attend from this country will be most heartily welcomed. It is expreted that the total amount of the fund will exceed $£ 2,000$, of which some £250 will be from this side of the Channel. A programme of the ceremony will be published.

## THE GERMAN EMPEROR.

As we go to press, we are glad to learn, by special telegram from Charlottenburg, that II Majesty is daily gaining strength. The highest temperature on Wednesday night (the 2ad instant) was $101.4^{\circ} \mathrm{F}$., the lowest on Thursday morning was $99^{\circ} \mathrm{E}$. There is still an abundant purulent discharge. The local condition is unchanged.

## RABBITS IN AUSTRALIA.

Ture Australasian Medral Giazette states that the Minister for Jands in New South Wales, in whose department the administration of matters relating to rabbits, has recently been placed, tas: communicated with the Governments of the other colonies, asking Whether they will co-operate with the motber colony in the appointment of a Commission to advise on the subject. Considerable doubt was felt as to whether it, would be possible to constitute a Committee which would command general respect, since the inquiry would involve much trarelling to make investigations on the spot, and a consequent expenditure of much time. Our contemporary suggests that a more effective loody might be constituted by appointing a Committee consisting of a human pathologist recommended by the Council of the Royal College of Phy-, sicians, London, a veterinary surgeon by the governing body of the Royal Yeterinary College of London, a pupil of Pasteur, and one educated under Drs. Virchow and Lioch.

## MEDICAL SELF-HELP.

Taf quarterly report which we published on April 21 st of the Medical Sickness, Annuity, and Life Insurance Society shows in bright colours the excellent results of mutnal co-operation among melical men to secure for themselves provision against sickness, accident, or temporary or permanent disablement from those maladies, accidents, and misfortunes which so often strike down practising medical men unexpectedly, and deprive them for a time at least of the means of continuing to carn an income. This Saciety provides for each subscriber a claim to weekly payments of from £2 2s. to $£ 44 \mathrm{~s}$. a rreek, in addition to lifelong maintenance pay-. ments in case of permanent disablement or in old age. The last 1 quarterly report states that the Society, although only four vears in existence, has now 855 members, and an annual income of about £10,000, exclusive of interest on its invested funds, which already. amount to upwards of $£ 2,2000$. It is paying out uprrards of $£ 1,500$ a year to members who have suffered frem sickness or accident, and two insurance claims have falleu in, and during the year been promptly met. All the departments of the fund show a handsomo surplus, and the singular and indeed altogether unprecedented cconomy of the management is shown by the fact that although in view of the wholly mutual character of the organisation, and the honerary serrices of its Council, only 10 per cent. had been reserved for management (which is about half the cent. of the premium actual outlay for the year has been $3 f$ per hands of trustees, and the flrst-class securities slow an imnorement of about 10 per cent. since the date of investment. The success and prosperity of this fund has been continnous and unfaltering from the Ilrst. It is proring of the utmost benefit to a great number of professional men, not only by afforling them the means of securing themselves from inconvenience at times when
income censes and expenses increase, but by reliaving them of auxicty of mind and of the sense of insecurity which so often darkens long ycars of professional life. Reports and forms of proposal for this Socicty may he obtained from the Secretary, Mr. Radley, a6, Wynne Road, Brixton, London. S.W.

## MALIGNANT SYPHILIS.

Dr. Kopp states in the Münchener Medizinische Wochenschrift that, out of nearly thirteen thousand cases of skin and venereal disease under his own ohservation, he only detected four cases of malignant syphilis. This form he recognised as manifesting itself by very early and regular development of what, in ordinary syphilis, would be considered as tertiary bymptoms, especiaily in the skin, with screfe constitutional disturbance. In these characteristics the variety in question resembled the great epidemic at the end of the fifteentl century. As the phenomena in the latter case indicated that syphilis, when it appeared in countries and amongst races where it was hitherto unknown, always assumed a severe trpe, so Dr. Kopp concludes that malignant syphilis in a European in the nineteenth century implies that the patient's ancestors happen to have been free from that disease. He a drised great care in the administration of mercury, and found that the cases did best under a course of quinine and iron, nourishing diet, and plenty of fresh air, iodide of potassium being administered when the patient showed distinct signs of improvement.

## IDIOPATHIC NEPHRITIS IN CHILDREN.

Dr. Strphen Mrrconit states, in the Centralblatt für a. Med. H"isenschaften, No. 40, 1887, that between August and September, 1885, he observed fourteen cases of primary nephritis amongst children between the ages of 3 and 10 , in a town of 3,000 inhabitants. The illness began with high fever, which disappeared at the end of the third or fourth day; then very firm cedema developed. Convalescence began in the majority of cases at the end of the second week. Three children died. In the kidneys from one of these fatal cases Dr. Mircoli discovered the appearances seen in diffused acute nephritis, and also numerous little specks, which, when strongly magnified, appeared of an elongated oval form, and consisted of collections of germs resembling groups of pneumococci. The germs were arranged either in balls or in chains, and were most abundant in the outer part of the cortex, then in the glomeruli, then in the midst of the hood-vessels around the tubuli uriniferi, and most sparingly in the tubuli themselves. The germs had caused the formation of thrombi in the ressels of the cortical and medullary part of the kidney, causing either obliteration of the lumen or dilatation of the vessel. Dr. Mircoli could not explain the nature of the micro-organisms, and he most rightly took care to note in his report of these cases that "he could find no germs in the kidneys of the two other tatal cases. At the time of this epidemic of nephritis in children, none of the zymotic diseases which most frequently cause inflammation of the kidney were prevailing in the same district.

PROFESSOR SEEGEN ON DIABETES MELLTTUS. Professor Sbegen's paper, "On Diabctes Mellitus in regard to recently acquired knowledge regarding Dugar-formation in Animals," is to be found in the Zeitschrift fiir Klin. Mcdicin., 13d. xiii. The chief results of his investigations are formulated in the following theses: I. The formation of sugar is a normal procesa, going on in the liver uninterruptedly. 2. The daily amount of sugar formed in the liver is very considerable. 3. This sugar is continually "converted" in the body; but where and in what way this occurs has not hitherto been explained. 4. Sugar or carbohydratea taken as nourishment do not participate in the formation of sugar within the liver. 5. Albumen and fat are the materials from which the liver forms eugar. 6. The formation of glycogen,
in contrast to liver-sugar, is intimately related to the kind of nourishment taken, and is greatest when cane-sugar is taken. How do these facts agree with those derived from clinical observation of diabetes mellitus? The latter occurs in two forms; in the first of these (the light form), the patients are usually wellnourished, belong to the middle period of life, and voracity; thirat, and polyuria are only scidom excessive; in the second, or screre, form tho patients are usually young, lose flesh rapidly, and have great voracity and thirst, with an excessive amount of urine. The main distinction between these two forms lies in this, that patients of the first class only excretesugar when they take sugar or carbohydrates in their food; the symptoms of diabetes cease when these are discontinued. In the second class of patients, the sugar excretion is scarcely influenced by the avoidance of carbohydrates in the food. Seegen is of opinion that these two different forms represent two distinct pathological processes. In the lirst, the excreted sugar is derived undoubtedly from the sugar ingested, and the diabetes must be regarded as the result of incapacity of the liver cells to dispose of the carbohydrates in the normal manner, In the second form, it must be assumed that the normally formed liver-sugar is excreted. The whole body, or more or less of its elements, has not the capacity to "convert" the sugar conveyed in the blood; hence the graver prognosis in this form than in the other. The ultimate cause of diabetes is still unknown, but the author is of opinion that nerrous derangements very frequently underlie this disease.

CHLOROFORM-WATER AS AN ANTISEPTIC.
Professor E. Salkowskr has an article on this subject in the current issue of the Deutsche Medicinische Wochenschrift. He has used chloroform for some years to preserve, urine from decomposition (a few drops added to a specimen preserve its acid reaction apparently for any length of time), and has lately examined the action of chloroform-water upon former ferments, and on some pathogenic bacteria. Chloroform well shaken up with water, in the proportion of 1 to 200 , dissolves perfectly at the ordinary temperature, and it was found that such a solution prevents the occurrence of all fermentations which are dependent on the vitality of micro-organisms; for example, alcoholic fermentation, ammoniacal urine-fermentation, the fermentative decomposition of hippuric acid, lactic acid fermentation, and the bacterial decomposition of albumen; while it has no influence upon unorgarised soluble ferments (enzymes), and therefore does not affect the action of ptyalin, pepsin, trypsin, invertin, diastase, etc. The latter fact was known already. Of course, in this use of chloroform, care must be taken that it does not 'escape by evaporation; the bottle should be well corked or stoppered. Thus used cbloroform is convenient for revealing the presence of minimal quantities of ferments, the actions of which are only developed after some months; for the observation may be continued as long as desirable, without the intervention of any micro-organisms, and chloroform, while it can be removed from a liquid when desirable, does not injure the nutrient suhstratum. This is well shown in milk shaken up with a little chloroform and kept in a closed vessel. After some months the casein and fat separate, but a clear albuminous fluid remaina, just as in sterilised milk. Solutions of cane or grape augar shaken up with yeast do not ferment, but the augar is inverted by next day, the inverting ferment of ycast being a soluhle ferment, and therefore umaffected by chloroform. Albuminous liquids are sterile with chloroform-rater, nid Feven meat in small pieces may be thus preserred without essential alteration, though a certain degnee of rancidity may be perceived after a time from the gralual oxidation of fat. But chloroform has a powerful disinfectant and destmactive action upon bacteria already present. A putrid meat infusion is rendered sterile by it
a few hours: and the same destructive action is exerted upon e bacillus anthracis (though not on the spore-form) and on the mana bacillus. The chief use of chloroform nas a disinfectant 11 probably lic in the preserration of solutions of the soluble ments, the action of the latter not being inifuenced by it , but rious other uses suggest themselves, both pharmaccutical and erapentical. Chloroform-water is well tolerated by the system. a supplementary note Professor Salkowsky writes to the effect at most of the ethylic chlorine compounds possess antiseptic operties, and that chloroform, from its superior volatility, is the st as a respiratory antiseptic.

## ORBITAL SYPHILIS.

Macerk observes, in the Wiener Klinik, that orbital philis, is rare, but may be observed in the inherited as well as e acquired form of the disease. It usually begins in the roof of e orbit, heing first recognised by severe pains, which are conint, but worst in the evening and at night. The lid swells, and en the eyeball may become unusually prominent. Symptoms of ralysis of the recti or oblique often appear. These symptoms d develop alowly, and are of long duration; as a rule, a clear story of ayphilis, or symptoms of that disease in other parts of e patient's body, is at hand. Orbital syphilis must be promptly zated, as the eyeball may suddenly become involved, or the pross, which is essentially periostitis of the bony boundaries of the bit, may extend into the cranial cavity, attacking the meninges the brain itself. The cure, which consists in the administration the ordinary antisyphilitic drugs, is always slow. Dr. Macerk tends to publish a complete series of histories of cases of orbital philis which have come under his observation and treatment.

ABDOMINAL SECTION FOR RUPTURED UTERUS.
3. Garrigues, of New York, performed abdominal section for pture of the uterus, last January, and contributed a paper on the bject to a medical society, which is published in the Philadelia Medical News, March 3rd. The patient was a multipara, aged
She fell in labour at term, a few days after a bad fall. About relve hours after the pains began her medical attendant, Dr. cCauley, reduced an extreme left lateral obliquity of the uterus. pur hours later the waters broke, but the head did not advance. a hour later crampy pains occurred, without shock, and the gina was found full of clots. Abdominal section was performed; e placenta was free in the peritoneal cavity, with a quart of nid blood and lumps, of meconium. The child was large, dead, id ensanguined. The rent comprised the whole anterior wall and int of the posterior; it went down too low to allow of Porro's peration. . The. rent was sewed up on Sclröder's principle, by irty-seven antisepticised silk ligatures, deep and superficial. The dominal carity was washcd out with warm water, the uterine vity with a hot solution of bichloride of mercury ( 1 in 5,000 ), afortunately the patient lived in a lodging-honse of very low ade, and was badly nursed, being allowcd on one accasion to get it of bed. She died of peritonitis four daye after the operation.

## INFANTILE OPHTHALMIA AND SUBSEQUENT BLINDNESS.

has been calculated that at least 30 per cent. of the cases of tal blindness existing in the United Kingdom (that is to say, hout 7,000 of the 22,000 blind persons enumerated at the last usus) have resulted from the neglect of purulent ophthalmia in fancy. The Ophthalmological Socicty of the United Kingdom, out three years ago, alppointed a deputation, comprising Mr . mathan Mutchinson, Sir W. Bowman, Mr. J. Tweedy, Dr. cKeown, Dr. Abcrcrombie, and others," which whited upon the egietrar-General and the Local Government Board, sind urged
that registrars when registering births, and relieving officers when issning orders for the parish midwife, should, at the same time, issue a printed slip containing the necessary warning. The Registrar-General did not, however, see his way to imposing on registrars this additional duty. Another, but unfortunately equally unsuccessful, effort has recently been made by the Committee of the Bradford Eye and Ear Hospital to enlist the co-opera-, tion of the central authorities. The Committee deserve great credit for their efforts to spread the warning in their own town, and the local registrars deserve thanks for their voluntary co operation in distributing the printed slips. Taking $1,000,000$, as a rough estimate of the number of births annually in the United Kingdom, about $£ 30$ would be sufficient to defray the cost of printing the same number of the slips already referred to.

ABDOMINAL SECTION ON A NEW-BORN CHILO. The Journal of the American Medical Association for January 14th describes a singular case of what may be termed radical cure of congenital umbilical hernia in a new-born child. Dr. Dunlap, of Springfield, Ohio, attended on October 2nd, 1857, at the birth of a healthy female cliild. There was a large umbilical hernia, which included the intestinal canal from close below the duodenum to the sigmoid flexure and the great omentum. The sac was formed by the tissues of the umbilical cord; its neck was so narrow that the hernia was irreducible. Dr. Dunlap therefore enlarged the neck of the sac by incision. A fresh difficulty was then encountered. Owing to the absence of the intestines from their normal position, the abdominal cavity was so contracted that they still could not be properly reduced. "I therefore," writes Dr. Dunlap, " made an opening commencing in the umbilicus, running up two inches, and then began stretching the walls of the abdomen with my fingers; then catching portions of the bowels and forcing them down into the carity, while assistants, with hooks passed throngh the cut edges of the walls of the abdomen, held them firmly up In about twenty minutes I succeeded in forcing them in and closing the wound with five sutures and ligatures to the cord close up to the matural skin." No anæsthetic was used. . The child neither struggled nor screamed, nor did any signs of shock follow the operation. A small teaspoonful of castor oil was given, and the bowels afterwards acted freely. Ten days later, when Dr. Dunlap read the case before the Medical Society of the District of Columbia, the child was suckling and sleeping well, the stitches were out, and the cord was separating in a satisfactory manner. The earliest age at which orariotony has ever been performed is one rear and a half, on patients at which teider period of their existence Dr. Schwartz and Dr. Küster have successfully operated.

## MICRO-ORGANISMS IN THE FEMALE GENITAL TRACT.

Much has recently been written about gonococci and streptococei in the vagina, uterus, and Fallopian tubes. Professor Bumm claims to have establislied pathological laws of high importance, relating to the infection of these parts by micro-organisms. He states that the gonococcus does not in itself cause suppuration, but by damaging the epithelium facilitates the admission of pyogenic streptococci. This is seen in inflammation of Corper's gland in gonorrhoea, which ends in resolution or in cystic degeneration of the gland when gonococci alonc have entered its duct; but should streptococci enter the gland, suppuration becomes certain. Gonococci, Bumm declares, readily ascend as high as the tubes, whilst the progenic micro-orgnnisms are slow to follow; hence the comparative rarity of pyosalpinx in proportion to the frequency of gonorrhes. Superticial obserrers lave detected hosts of micro-organisms in the normal tract, after death. But Dr. Winter has made a series of careful experiments in this direc-
tion, embolied in $n$ communication to the current number of the \%eifschrịt für Geburtshülfe und Gynäkologie. Ile concludes, flrst, that the normal tube contains no micro-organisms, and, as a rule, no contents of any kind. Secondly, the uterine cavity in health contains no micro-organisms, and in half the cases which he examined, no germs were found in the neighbourhood of the os intermm. The cervical secretion of overy healthy woman abounds in micro-organisms, and so does the ragina. In short, the genital canal of a healthy woman contains micro-organisms in the vagina and corvix, from which the uterus is free. and the boundary between the part bearing and the part free from germs lies about the os internum.

## ERGOT IN SUBINVOLUTION,

Some very interesting observations were recently made by Dr. Emile, Blane on the effect of ergot in involution of the uterus after labour. A fairly large number of women who had gone through normal labour were divided into three categories. Forty' of them, were left to Nature; forty were treated with daily hypodermic injections of Iron's solution of ergotine ( $1 \mathrm{cc} .=1 \mathrm{gramme}$ of ergot) during the first five days after delivery; and the remaining 'twelre were similarly treated for ten days. Daily external measurements were then made in all the eases to ascertain the size of the uterus, and on the fifth and tenth days its internal measurement was taken by means of the uterine sound. It was found that the administration of ergot during the first five or ten days failed to produce any favourable effect in hastening the process of involution, but that, on the contrary, it seemed to delay the normal retraction of the uterus. Ergot is nevertheless an exceedingly useful agent in the treatment of secondary hæmorrhage, and its action is more marked the less the interval of time that has elapsed since the confinement.

## COCAINE IN LITHOTRITY.

Is a case in which an attempt to perform lithotrity proved futile on account of the extreme irritability of the bladder and the prostrate condition of the patient, Dr. Pholip injected into the bladder sixteen grains of cocaine dissolved in twelve fluid ounces of water at a suitable temperature. After a few minutes, during which the patient was moved into different positions to ensure the anæsthetic coming into contact with all parts of the wall of the bladder, it was found possible to proceed. The patient felt no pain whatever, and the surgeon was enabled to do his work quietly and completely. The anesthetic condition of the bladder lasted about twenty minutes. The experiment, having proved so succesaful, was repeated on five subsequent occasions with the same happy result. It was noticed, however, that the effect produced by the last two injections was less marked and did not last as long as after the others. No untoward symptoms followed at any time, but it is recommended to allapt the dose of the drug to the degree of vesical irritation, and never to use the higher strength before trying the effect of in weaker one.

THE EFFECT OF OPIUM ON THE FLETUS IN UTERO. It is a curious fact that while therapentists are thoroughly alive to the danger of giving opium to young infants, they have not apparently considered what effect is likely to be produced on the unborn fretus by its administration to the mother. Dr. Futh, of Museatine (lowa), has recently investigated the subject, and lias arrived at the conclusion that it not infrequently causes convulsions in the foctus analogous to those produced in the infant. Bartholow states that opium kills by paralysis of the respiratory muscles, and more rarely by paralysis of the heart. The fœutus has, of course, for the time, no respiratory function, and this may nccount for the small number of deaths from administering opium to pregnant women when labour is not threatened or in progress; will also account for the relaxed condition and feeble hold upon
life that children have when born while the mother is under the influence of an opiate. Given what we know of the effect of opium on infants, it is ohvious that the moment a child is born whose blood is charged with opium, so soon do the influences of jaralysis of the respiratory muscles manifest themselves. Opium is the stock remedy in cases of threatened abortion, but it prohably does more to bring about the very contingency that it is sought to avert, while it seriously imperils the infant's chances of a separate existence. The foregoing observations may possibly afford an explanation of the preference which has of late beed given to chloral in cases of threatened abortion.

## SCOTLAND.

## LECTURESHIP OF BOTANY, UNIVERSITY COLLEGE, DUNDEE.

Mr. Patrick Geddes, F.R.S.E., late Assistant to the Professor of Botany in Edinburgh University, las, at the request of the an . thorities at University College, Dundee, consented to deliver tha summer course of lectures on botany in the College.

## GLASGOW MATERNITY HOSPITAL.

We are glad to be able to record what is said to be the first completely successful case of Cesarean section performed in Glasgors The operation was performed at the Maternity llospital by Dr Murdoch Cameron nearly three weeks ago. Both mother and sor are alive and well, and the latter has been appropriately christened "Ciesar Cameron."

## GLASGOW EAR HOSPITAL.

AT the annual mecting of the subscribers of the Ear JIospital, the medical report was read, and showed that the hospital was in flourishing condition and increasing in popularity. In the out door department there were 789 now patients, an increase of $\&$ patients over the previous year; and in the indoor departmen there were 57 admissions, an increase of 5 . As a means of diffus ing knowledge of ear disease among" atudents and "practitioners the hospital had beea utilised during the past year, to an unprece dented extent. At the last annual meeting it was reported that 1 i students attended Dr. [Barr's course of lectures. During the pasi year 75 names were enrolled, including medical men from botl town and country.

## INTERNATIONAL EXHIBITION, GLASGOW.

THis exhibition, which is to be opencd on May 8 th by their Roya Highnesses the Prince and Princess of Wales, promises to be on of the most interesting as it is the largest exhibition of recen years. It will doubtless form a special attraction to members 0 the Association at the forthcoming Glasgow mecting in Augus next. The press view of the exlibition took place on April 21st when over one hundred journalists, representing the daily pres of the United Kingdom and also some Continental and Americas papers, came to Glasgow and visited the buildings. They wer hospitably entertained by the executive, and fortunately wer favoured with beautiful weather. They were evidently muci impressed with the architectural beauty of the buildings, thei magnificent situation, and the interesting nature of the exhibit. Not the least interesting feature of the exhibition to professiona men will be tho large and magnificent display of historical an archreological treasures now being arranged in the Bishop's Palac on the slope of Gilmorehill:
GRADUATION CEREMONY, UNIVERSITY OF GLASGOW. Tirf graduation ceremony took place on April 27th in the But Ilall, the Vice-Chancellor presiding. There was a large attend ance of students and their friends. Besides the honorary and othe
rees conferred, the general University prizes were awarded, 1 then tho Vice-Chancellor delivered an clocquent address on the wral idea of knowledge and of the higher education on which h au institution as a university is based. The idea was that ro was not only no discord; but no hard and fast distinction, ;ween the various departments of human knowledge; that each nt upon and could be rightly apprehended only in its organic ation to the rest. Although limitation was the necessary conion of success in either study or work, there was no incompatiity between knowing a wide range of aubjects in their leading ttures and some one subject with the completeness of those who we it their principal occupation. It was this combination ich created a truly cultured mind and an enlightened, educated blic.

## FAITH HEALING.

: the last monthly mecting of the Parochial Board of Dunoon, a d case of insanity was reported. A woman, who, some time ago, is delivered of her fourth child, had since been affected with ralysis. It was stated that a local clergyman, with one of his acons, visited the woman, and prescribed the faith-healing cure. e roman was accordingly prayed over, and anointed. The cure, wever, failed, and the poor woman went mad, and is now an mate of Lochgilphead Asylum, suffering from religious mania. e case was severely commented on by several members of the sard, and a committce was appointed to investigate the matter, d report to a future meeting.

## EDINBURGH ROYAL INFIRMARY.

ST week this admirable institution was subjected to a wholly warranted attack in regard to a case admitted to its wards. A man who had been seut in from the country to be treated for pposed ovarian disease, very shortly after her arrival was livered of triplets. This fact was made the basis of a highlyiced descriptive article in a local newspaper, which detailed all ecircumstances of the case in a manner that is nnusual in the y press. It is not as yet generally known who has been the ility party in producing so sensational a version of a very simple cident, and in giving his canard so successful a flight.

EDINBURGH MUSEUM OF SCIENCE AND ART., T IE original design of the Edinburgh Museum of Science and t, so inseparably associated with the name of its distinguished under, the late Professor George Wilson, has at length, after the pse of many years, been fully carried out. The new addition nsists of a large west wing, which completes the symmetry of tho ilding externally, and gives it additional internal accommodaamounting to at least a third of its previous area. The new lleries it provides are to be dedicated in part to works of art, liefly from Italy, to a collection illustrating the arts and manuctures of aavage racea, and to maps and model sections showing e results of the geological survey of Scotland.

## EDINBURGH UNIVERSITY.

ie summer session commenced on Tuesday, May Ist, when the rioua professors and teachers who hold summer courses met eir classes, and delirered introductory lectures. In the Botauy partment, at the large lecture hall in the Botanical Cardens, a eat gathering of students and teachers assembled to listen to ofeseor Bayley Balfour's inaugural address, on his induction into e duties of the Chair. The new l'rofessor was very leartily ceived, and listened to with great attention by his large audiice. In the department of Physiology, Professor Rutherford deiered a ehort address introductory to the work of the practical iysiology courses that are hell during the summer session. In saddress he adverted to the fact of his absence for twelve
months from the post of duty, and to the satisfaction with which he again met his gtudents, completely restored by'bis visit to a southern climate. Healso referred to the ability and conscientious thoroughness with which his teaching duties had been performed in his absence by his friend and former assistant, Professor Haycraft, of Birmingham. In all the departments, and in the wards of the Royal Infirmary, the opening lectures were attended by a plethora of students, from which it would appear that the new gession shows no falling off in the numbers coming forward for the Edinburgh degree.

THE SANITARY WORK OF A GREAT CITY. In the course of a lecture delivered on this subject to the Philoaophical Society by Mr. Peter Fyfe, sanitary inspector, some of the provisions of the Burgh Police and Health Bill were discussed. Glasgow, it was stated, was supplied from the country with about 35,000 gallons of milk daily from 1,175 farms, many of which were dangerous to the community from defects of structure and the nature of their water supply, yet all that conld be done by the sanitary officials of the city was whenerer a case of infectious disease was known to exist at any of the farms, at once to stop the milk supply from that farm. The new bill provided no such central authority as medical and scientific inspectors as England had possessed for years. The Bill only applied to burghs and populous places, while the country was left to feed the towns from amid insanitary conditions which, through ignorance and carclessness combined, many of its landlords or farmers would not remove. The lecturer insisted that, besides compulsory notification of infections diseases by medical men, there should be more power in the hands of local authorities of remoral and isolation. This would entail great expense and difficulty from the want of hospital accommodation and the increased work of disinfection. There should also be more summary power of compelling landlords to remove nuisances. But the most difficult problem of all was what was to be done for the people who were condemned to live in such conditions as were pictured by the words " 348 to the acre." Such a state of things went on from day to day in some districts of the city. Nay, during the night little knots of humanity were found huddling together at the rate of 4,400 to the acre, or 10 persons in 11 square yards. To give some idea of the atmosphere in which many of the populatiou nightly sleep, he had caused two samples of air to be taken for analysis. No. I was taken at 3.40 A.v. from a single apartment honse measuring 700 cubic feet, and in which four adults and three children were sleeping ; the amount of carbonic acld gas was certified by Dr. Wallace to be 21.9 in 10,000 volumes of air. No. 2, taken in somewhat similar conditions, contained 14.1 in 10,000 volumes. In the first case the carbonic'acid gas was five times and a half, and in the second case three times and a half, what it sloould be. What could the sanitarian do to decrease the chances of discase in such homes?

## SCARLATINA AND COW DISEASE.

Dr. J. B. Russecr, Medical Oflicer of Health for Glasgow, has issued a report on the outbreak of scarlatina at Garnethill. After a careful house-to-house visitation of the district he found that there were niuety-five cases in all, and that each of these cases ottained milk from the one dairy. All the cases had fallen ill since March 15th. The milk was, therefore, tho obvious medium of infection. Further investigation leal to the suspicion that the milk in this dairy had come from a farm at which there had been a case of scarlet fever. The son of the farmer who brought in the milk was scized on March :3rd with the first symptoms, and the byreman on March -4th was seized with sore throat. No other person had been ill. With the view of answering the question, Did the milk derire its infection from the cow? as in the Hendon case in 1886, Dr.

Mussell and Mr. McCall, veterinary surgeon, carefully inspected the stock. Two cows were found with scabbed sores on the teats. One of these was miserably thin and mangr-looking, casting its hair aud skin; the other was in good condition, not casting its hair, and the sores on the teats bled freely. These cows were renoved to the Veterinary College for observation on Mareh 3Ist. Owing to the state of the law no inoculation experiments were possible, and consequently the field of observation was much restricted. This much, however, Dr. Russell says, is certain: a calf fed ou the milk from these cuws was almost at once seized with a highly febrile illness, which nearly killed it, but from which, it is now, recovering with loss of hair and copious casting of the skin. The cow which was not casting hair or skin when removed is now doing so freely. Dr. Russell's object iu muking the present report is not to draw premature inferences or make rash statements, but to show that he has in hand a question of immense importance both to the consumer and producer of milk, and to obtaiu permission of the local authority to buy these cows and otherwise make a certain expenditure of money on the question.

## IRELAND.

## HOW DISEASES ARE SPREAD.

A mar mamed Sproule haring died at Athlone recently from ferer, his wifo was cautioned against holding a" wake" over the remains. She however persisted in doing so, and ten persons were found "waking" the deceased. A summons has been issued against Mrs. Sproule by order of the guardians.

## NATIONAL LYING-IN HOSPITAL, HOLLES STREET, DUBLIN.

AT a meeting of the President and Council of the Royal College of Surgeons in Ireland, held on April 19th, it was resolved, on the recommendation of the committee of inspection, to accept from candidates for the diplomas of the College the certificutes issued by this hospital.

## WOMEN'S AND CHILDREN'S HOSPITAL, CORK.

Tne work done at the hospital during the past year has been much greater than in any previous year since its foundation, and this has been carried out at a greatly reduced averaged cost. The system of sending out nurses to private cases, inaugurated in 1886, has been carried out during the past year with marked success, and the probationer nurses hare in all cases given the greatest satisfaction. In addition to the public wards there are private rooms attached to the hospital, which have been largely availed of by many ladies resident in the country. During the close of the year the sovere epidemic of measles whieh universally prevailed in the South of Ireland materially interfered with the work of the hospital. The disense laving found its way into the wards, it was deemed necessary during the continuance of the enidemic to close the children's ward, so as to limit as far as possible the spread of tho lisease.

## THE SANITARY CONDITION OF CORK.

Tur prevalence of iafectious diseases in Cork has been for a number of years a matter of anxiety to tho corporation, and it has been shown that the existence of enteric fever and some other zymotic diseasns is, in a great measure, traceable to the defective sanitary condition of the sewers in consequence of the want of ventilation. The medical afficer of health, Dr. Donovan, and the City eugineer hava recently furnished a report to the l'ublie Health Coramitter on this subject, which states that sewers several miles in extent are in almost all cases unprovidud witls ventila-
tors of any kind, for the ordinary strect gulies are trapped, as in the words of Dr. MacCabe: in a report made, in 1877 on $t$ prevalence of onteric fever in Cork during that year, "Her he says, " we have couditions all farourable to the developme of enteric fever-unventilated main'sewers, trapped gullies, tic pressure twice a day, compressed sewer gas, with no possil outlet except through faulty drains; and sink-traps within houses, and fanlty traps and valves of water-closet basins." Bir if the traps and valves of water-closet basins are constructed What may be termed scientific plumbing principles, yet the tir and atmospheric pressure at the mouths of the sewers will, many instances, force the gas through those traps and valves in the interiors of the dwelling houses, where, mingling with t confined air of the room, it frequently becomes dangerous, if $r$ fatal in its effects. Dr. O'Farrell, late inspector of the Lor Governmeut Board, in December, 1886, among other suggestios recommended that all the main sewers should be ventilated their higheat levels, and that they be provided with side entranc man-holes, and not less than twenty ventilators for each mile sowers; but financial difficulties prevented the matter bel carried out. What is known as the "open grid " system is thoug to be the best of the kind; and it has been resolved that a sum £750 shall be borrowed from the Government for the purpose carrying into effect a complete system of sewerage ventilati throughout the city.

## DWELLINGS FOR THE POOR IN DUBLIN.

The Dublin Corporation, whatever shortcomings may be charg against it, has done a great-public service. - It has built and about to let dwellings for the poorer classes, which' will accor modate 730 individuals. The work in this direction has hither been done by a public company, which, with the aid of the C poration, bas taken pössession of squalid corners, and built upt them suitable homes for those who could only pay small week rents. The undertaking, besides conferring a great benefit on t poor and on the general community by the removal of horrib rookeries, has prored a marked financial success. Now the Co poration itself has followed the example, and we hope it will co tinue to pursue it. In 1881 the leases of some old tenements one of the worst streets in the city fell in; and it was determin to clear away the tumble-down houses, to erect new building open a now street, and to erect tenement blocks. These bloeks al subatantially built in red brick. The total accommodation pr vided is 'as follows: -5 shops, 9 treble-roomed dwelfings, 1 double-roomed 'dwellings, 65 'single-roomed' dwellings, and 1 beds for casual lodgers, making in' all habitations for about \%: persons. All the rooms are 9 feet high, except the basemet rooms, which have a height of 11 fect. The length and width raz from 12 by 20 to 14 by 13 feet. Each floor is supplied with wat supply, scullery trough, and dust receptacle, whence the conten pass into the yard bins, which are emptied by the servants of t] Corporation. The roofs are flat and asphalted, and give a surfac of 16,250 feet. They are to be used as playgrounds, and they ar of course, properly profected. One of the blocks is set apart for : lodgers, who will be aceommodated at 4 d . a night each, and prin vided with a bath for an additional penny. There is a suppe room 32 by 11 feet, and 13 foet high. The'rents will vary frol 1 s .6 d . to 2 s . per week for a single room; from 3 s . to 4 s . for $t \mathrm{~m}$ rooms; and from 4 s . 9 d . to 5 s . for three rooms. The whole cost ( the buildings has been $£ 25,000$. Sir Charles Cameron, the supp intending medical officer of health, has carried out the schem with characteristic energy, and it is certain that it will prove $n$ munerative. The Corporation deserves the highest credit for th enterprise. If it only continues in the same path, it will to mue to improve the pbysical and moral health of the Irish metr polis.

## PARLTAMENTARY BILLS COMMITTEE.

NOTIFICATION OF INFECTIOUS DISLASES.
c a meeting, on Thursday, April 26th, of the Subcommittee apinted to draw up reasons for opposing the compulsory notitition clauses in the Public Health Prevention of Infectious Disses (Hastings) Bill-present, the Chairman (Mr. Ernest Hart), r. Bridgwater, Dr. Alfred Carpenter, Dr. Grigg-Dr. Carpenter inded in the following returus:-

## Voluntary Notification.

| Towa. | Population. | Zymotic Death-rate. | Tymotic Deaths. | Scarlet Fever. | Non-certified. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1883. | - | $2.6{ }^{\circ}$ | 2,426 | ¢89 | 3.48 |
| rightor:.......... | 112,954 | 1.7 | 197 | $\underline{29}$ | 3.0 |
| rrdiff ................ | 93.46 .8 | 4.8 | 456 | 122 | 4.4 |
| ull .................. | 181,225 | 3.5 | 654 | 45 | 5.6 |
| seds .............. | 327,324 | 4.9 | 1,476 | 487 | 2.3 |
| lymouth ......... | 75,509 | 2.0 | 15.3 30.1 | ${ }^{2}$ | 1.6 |
| olverhampton | \%8,367 | 3.8 | 304 | 40 | 2.4 |
| 1584. | 863,847 | 3.85 | 3,240 | 725 | 3.2 |
| rightor............ | 115,186 | 2.2 | 260 | 10 | 3.1 |
| ardiff ............... | 104,580 | 2.3 | 263 | 20 | 2.2 |
| ull ................. | 196,855 | 2.5 | 558 | 67 | 4.4 |
|  | 345,080 | 2.7 | 925 | 115 | 1.7 |
| lymeuth ........ | 77,125 | 2.8 | 174 | 14 | 1.2 |
| olverhsmpton | 80,887 | 2.5 | 202 | 16 | 1.5 |
| $188 \%$. | 922,673 | 2.5 | 2,382 | 242 | 2.3 |

Dual Notification.

| Town. | Population. | Zymotic Death-rate. | Zymotic <br> Deaths. | Scarlet Fever. | Non-certified. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1583. | - | 2.3 | 1,941 | 262 | 3.1 |
| irkenhear | 90,870 | 2.2 | 204 | 10 | 4.6 |
| olton .............. | 108,068 | 4.3 | 878 | 15 | 2.4 |
| lackburn ......... | 110.498 | 3.1 , | 363 | 48 | 4.3 |
| madford .: : ......... | 209.564 | 2.4 | 518 | 333 | 2.6 |
| eicester ............ | 132,773 | 4.0 | 54 | 62 | 2.0 |
| alford.............. | 196,153 | 4.2 | 843 | 139 | 4.7 |
| 18 \% 4. | 818,920 | 3.36 | 2,850 | 307 | 3.4 |
| irkenhead........ | 97,703 | 3.2 | 311 | 88 | 2.2 |
| oiton .............. | 119,354 | 3.2 | 359 | 37 | 2.4 |
| lackburı ......... | 116,844 | 4.4 | 509 | 158 | , 3,1 |
| radford ............ | 22,5,517 | 2.9 | 640 | 95 | 2.8 |
| eicester ........... | 143,153 | 8.1 | 153 | 5 | 2.5 |
| alford.............. | 218,608 | 4.4 | 969 | 156 | 4.0 |
| $185 \%$. | 913,299 | 3.5 | 2,941 | 5.12 | 2.1 |

Dr. Carpenter observed, in commenting on the above: -It is said that, where dual notification has been in xistence for a certain number of years, there has been a arked decrease in the amount of zymotic disease in those orrus; that the death-rate las gone down; that the number of eaths has materinlly diminished in consequence of dual notificaion ; and that, in consequence of that diminution of the zymotic eath-rate, it is ouly right that dual notification should be exended all over the country. I have (he continued) examined the eturus published by the Registrar-General; and iu those thirtyight towus which he publishes there are six towns where there is - dual notification-mamely, l3righton, Cardiff. Ilull, Leeds, lymouth, and Wolverhampton. Those six towns have a populaion of 922,000 people. In 1881 those six towns had a zymotic eath-rate of 3.55 . Taking the 900,000 people in them, they had 240 deaths from zymotic disease, and 725 of those from scarlet over, In 1887 tho number of zymotic deaths had fallen from ,240 to 2,382 , and the zymotic death-rate from 3.85 to 2.5 , rithout dual notification. The scarlet feyer cases had gone own from 72.5 to 242 . Auother point in comection with he return is that the non-certified deaths bad fallen from 2 to 2.3. These are the facts with regard to the only ix towns where dual notification is not in existence. Now take out of the same list six towus that correspond in numbers
and population as near as I can to those I have just mentioned. Instcad of having a population of 92:, 000 these aix towns have a population of 913,000 . They are : Birkenhead, Bolton, Blackburn, Bradford, Leicester, and Salford. The first four are the first in the list, then I have to pick out two others to get them near to the population. Now what is the case with regard to the zymotic death-rate in those six towns in I884 (and the other years correspond)? In that year it was 3.36 . In the non-notification towns it had in 1883 come down to 2.5 , but in these towns it has risen to 3.5. The number of deaths from zymotic disease in the dual notification towns in 1884 was 2,850, and in 1857 there were 2,941 ; there is an increase of zymotic deaths, not a decrease, as in the voluntary notification towns. The number of scarlet fever cases had gone up from 307 in 1884 to 542 in 1887. Then I come to a town like London. London in I 880 had a population of $3,644,000$. The zymotic death-rate in London in 1850 was 3.73 ; in 1887 it had come down to 3. Then I take Kensington, a large district in London, where they hare no notificatiou except that which is voluntary, and it is very well looked after. 1 find in Kensington in 1880 the zymotic death-rate was 2.9 ; that of 467 deaths 105 were from scarlet fever. In 1886 the zymotic death-rate had come down to I.6, and that of 280 deaths (against 467 in 1880) 11 only were from scariet fever (against 105 in 1880). What inference do I draw from these facts? A very important town is Edinburgh. It is said in Edinburgh the success of the principle has been most marked, but what dol find in Edinburgh with regard to scarlet fever? In 1884 in Edinburgh there were reported 1,205 scarlet fever cases, with. 42 deaths. In 1887 (three years afterwards) when the system is said to be working so excellently well, there were reported 2,487 cases, with 145 deaths. In the very place which is quoted against us as being the one which ought to recommend it to other towns, actually the number of deaths and the number of cases of ecarlet ferer have risen year by year. It is the same in Dundee and Aberdeen with regard to the spread of scarlet fever. What is the reason for that? The reason is that in those towns there are individuals who are now perfectly sware that if scarlet fever is in their shop, in their lodging house, in their public-house, in their business as a tailor or whatever it may be, and it is communicated to the anthority, there is a tendency to close that place of business, and the result is just this, that the disease, when it is not likely to be fatal, is not treated by a medical man, They do not employ a medical man (in my own neighbourhood I know it to be. so), and the consequence is these mild cases of scarlet fever (which are such a source of danger) distribute the disease more abroad, and, as.a consequence, there is a spread of disease from dual notification, and not a repression. Well, then, I argue that our object is not notification, it is prevention; and that it is not so much disclosure that is required as it is to prevent the spread of the mischief; and that if a person, say a shopkeeper, has gat scarlet ferer in his premises, and that shopkeeper's children are taken care of by a qualified medical man, who will advise him how to isolate them, you are very much less likely to hare an extension of the disease than in haring these mild cases treated by herbalists and druggists, by which means the disease is spread much more generally than before. Now you will say, Have jou any other grounds to support it? Yes, I hare. In some of the towns I have got evideuce from, one finds that the number of deaths that are reported show. in those towns, a high mortality compared with the number of cases reported. That means to me that the cases are not all reported, and that where you have in other towns a possibility of getting at any information, as in Kensington, as to the number of cases, you find the mortality is not so high as it is reported to be from Edinburgh and Aberdeen. Ilere is an argument that I hold against the notification being thrown upon tho medical man, lihave another argument, and, to my mind, it is a very strong one. Our great object is to get the people themselres to take measures for the purpose of repression; but in tiwns where this dual notification is in existence, the people do not hare anything to do with it. It is supposed to bo all ou the shoulders of the inspector for the local authority, and the result is that there is nothing done by the people themselves. Our great object is to bring it home to the people, and to spread a knowledge of sanitary matters amongit them. If we do not get the notification given by the people themselves, they think it lias nothing to do with them. I want to kuow by what right an Act of Parliament is to be set aside in the way that the dual notitication Act is? In no case do they summon the other party-the occupier. But why should the medical man, as in Croydon, be aingled out as the one man who had failed to comply
with a certain Act of Parliament, while 3 other persons who do not comply are left alone? It scems to me a wrong principle.
The following document was then discussed, and ordered to bo circulated as amended:-

## Memorandum of Reasons

Why the British Medical Association oljects to the Penal Clause against Medical Men as proposed in the Notification of Infecfious Diseares Bill, 1888.
The promotors and objectors ngree upon some of its principles, namely, the necessity for the enaetment of compulsory notification which shall equally apply to the whole of the kingdom.

They agree that when a medical practitioner is employed to treat a case of infectious disease, it is his duty to make its nature clearly known to his employer, or to the person legally in charge of the case.
They are agreed that this information slould be conveyed to the local authority for use by the State.
They are agreed that the information, if conreyed by the medical attendant, should entitle the latter to a fee from the local authority.

They disagree as to the means whereby that information shall reach the local authority. The objectors base their ohjections to the independent action of the medical uttendant upon its being the establishment of a new crime, if failure to perform the duty is to be penal that it is an interference between the relations of employer and cmployed, which the State has no right to claim.

Dedical men object to doing an invidious duty which ought by law to devolve upon the employers, and them alone. They do not object to disclose the fucts if the law takes proceedings against the true defaulter, and they do not object to act as the cmployer's agent, when the latter requests the medical attendant to do so.

They beliere that repression and prevention can only be effectire by the act of the people themselves; that to reliere them of the duty of notification either by themselves or their agent is to lead them to believe that the doctor is the person to secure repression, although this effect can only be produced by the proper disinfection and isolation, which must be carried out by the householder himself, and not by the doctor.
The proposed plan is encouraging the people to think that it is a question for the doctor and for the local authority, but not for themselves; by which course sanitary knowledge among the people is impeded.
That it proposes to enact a clause which past experience has shown will be a dead letter as to one part of its dual action, namely, that which imposes a duty on the householder. That such legislation is contrary to the principles of justice, and is likely to lead the people to think they can set aside the clanses of en Act of Parlinment when it suits their convenience to do so; that there is no moral or legal obligation on their part to conform to it, and that in this view they are upheld by the act of the local anthority - $a$ ricious course which must be contrary to equity and good government. Although so-called dual notification is at present enacted in forty-six towns, the obligation upon the householder is, it is alleged and believed, nowhere enforced.
The objectors believe that a penal medical clause defeats the object sought for, inasmuch as it leads to the employment of irregular, unqualified, and non-registered practitioners for the treatment of mild cases of an infectious eharucter; and so the disease is spread hecause skilled aid is not sought. It should be remembered that such mild eases are apt to lie the most potent and efficient agents in the sprualing of epidemic disease. The skilled adviser would advise efficient methods of personal disinfection and isolation. Thus hotelkeepers, innkeepers, dressmakers, tailors, some retail tradesmen, lodging-house keepers and others, who prould be serinusly injural in their husiness by the visits of official persons, and their businesses possibly put a stop to for a time, avoid auch visita and altowether wade such notification by employing quacks and herbalistš instead of legally qualified medical practituoners, upon whom alane the responsibility of notificafinn at present renlly virtually falls under the operation of the dual claness. The objectors lelieve that there is no harm in secrecy if proper measures are taken on relress disease, and to ensure that it does not spread to other people, discovery being uacd only to avoid extension.

The penal clanse as drafted in this Bill can only reach the carc-
less, and will not reach those who dishonestly fail to notify. Thi carefess will be equally reached by the clauses proposed by thid British Medical Association.

It is not shown that zymotic disease is materially lessened in districts in which it is penal against the doctor if ho does no notify; but statistics iudicate that these diseases are as prevalen in those districts as in others in which notifeation is voluntary It is contended that the plan proposed by the British Medica Association would be more ellicacious, though possibly giving is little more trouble to the medical officer of health.

The British Medical Association proposes that notifiention shal be compulsory on the householder or person in charge of thi patient, but that he may empley the medical attendant as hi, agent, and that when so employed the latter should be eutitled ti a fee from the local authority for the certificate given.

The British Medical Association contends that the enactmen of this clause would procure much more satisfactory results that that in the proposed Bill. The compulsory clause puts the whoh profession in a false position.

That, until medical officers of health are forbidden to engage in general practice, it may casily cause friction as plaeing the repu tation of practitioners at the merey of a professional rival, inas much as an error on the part of the ordinary medical attendant might be used for malicious purposes under the cloak of zeal fo. the public good, whereas diagnosis is e'specially dificult in somi forms of infectious disease.

For these reasons, the British Medieal Association urges upor the Government the propriety of not assenting to the proposed penal clauses against medical men.

On the notice of the Chaibmas, seconded by Dr. Bridgwater it was agreed to forward copies to the promoters of the Bill, tc the President of the Local Government lioard (Mr. Ritchie), and $k$ other members of Parliament.

PUBLIC HEAlitil ChaUses of the local governmest BILL.
A Subcommitee of the Parliamentary Bills Committee of the British Medical Association and a delegation from the Society of Medical Officers of IIealth appointed to cousider the public health clanses of the Local Government Bill, met nt the oflice of the British Medical Association on Wednesday, May 2nd.
Present: Mr. Frnest Hart in the chair; Mr. W. II. Michael, Q.C. Dr. Alfred Carpenter (Croydon), Dr. Woodforde (Rending): Dr Wilson (Leamington), Dr. Fosbroke (Didford), Dr. Armistead (Shelford, Cambridge), Mr. Shirley Murphy (London), and Jr George Turner (London).
The Chaimanastated that he was informed that all were agreed a to the general principles and objects to be attained, which wert to secure that the County Conncils to be constituted by the nem Local Government Bill should have attached to them medical officers of health, and that the neeessary powers for making such appointments eflicient should be transferred from the existing health authorities.
The Chairman laid on the table the following documents: (1) A Report, dated Augnst, 18 II, of the joint committee of the British Medical and Social Science Associations, adopted at the annual meeting of the British Medical Association annual meeting of the reasons for desiring the estab. lishment of County Councils, and the appointment thereto medical oflicers of health of adequate skinl, having authority ore: large arens, were laid down in detail. He thought it desirable that this document should now be reprinted, in order to point ont that the Assoeiation had consistently urged upon suceesaive Gorernments, from that date, the creation of sueh an organiaation as that which was now the sulject of impending legislation, to gether with the creation of medical officers of health in nection with such councils. It was to him a matter melancholy reeollection that this report was drawn partly hy himself, with the aid of Dr. Stokes, Dr. Fumsey Dr. William Farre, Dr. Sibson, Dr. A. P. Stewart, and others o hardly less eminence and weight in the Association, few of whon now survived to see the fruit of their labours recognisel as legislative imminence. (2) There were also laid on the cable Tw Reports prepared by Dr. F. Bond, medieal officer of health for the Glourestershire colnbined district. headed "The Loenl (ioverument Poard in its relation to Medical Officers of Ilcalth and Sanitary (rganisation in general; " and (3) on behalf of the l'urliamentar)
medical officers of health, to appoint such officers, to sanction the appointment of the same person as medical officer of health for two or more districts, and to prescribe the amounts to he paid by each district towards the expenses, salary, and charges of such officer of health."
The above amendments rere discussed and ultimately adopted.
A delegation, consisting of the above gentlemen, with the addition of Mr. Sibley, subsequently waited on Mr. Stansfeld, Jf.P. (the author of the Public Health Act), and discussed the subject with him prior to official proceedings of a more formal character.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

ANY qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will be beld on July 18th, and October 17th, 1588. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27th, September 26th, and December 28th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Conncil unless his name has been inserted in the circular summoning the meeting at which he seeks election.

## Francis Fowke, General Secretary.

COLLECTIVE INVESTIGATION OF DISEASE.
The Report upon the Connection of Disease with Habits of Intemperance, which was presented to the Section of Medicine in the Annual lleeting of $\mathbf{1 8 8 7}$ will shortly be published in the Journal.

Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribution of certain Diseases, are in preparation, and will be published as soon as ready:
The following inquiry only of the first series remains open, namely, that on the Etrology of Phthisis.

A fresh inquiry into the Origin and Mode of Propagation or Epidemics of Diphtheria has been issued.
Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collective Investigation Committee, 4z9, Strand, HI.C.

## BRANCH MEETINGS TO BE HELD.

Staffordshire Brasct. - The third general meeting of the present session will be held in the Bell Librar and Medical Institute, Cleveland Road. Wolver hampton, on Thursday, May 31st. The chair will be takell by the President, Mr. W. D. Spanton, at 3 oclock in the afternoon. The follown papers watin be read:-Dr. C. A. Mc.Munn: Excretion of Reduetion Practical Management In Disease, Dr. Alfred H. Carter: Observations on the Fractica, Landon: The of Chronic Diseases of the Heart. Mr. W. Murry Fenwick, Land the HinElectric lllumination of the Bladder and Uretlura, and its Falne fil the Nin Electric Inumament of Ohscure Vesico-Urethral Diseases. Dr. Mc.runt will guusis aud Treament of adapting a photographle camera to the niercseole.T. Vreest Jackson, Wolverhampton.

South Fastern Braveri-A meeting of the Executive Conseil of this Branch will be lueld at the Bridge Ilouse hotel. Loudon Bridge, on Thurgday, May loth, at 3.lis r.m.-Crahe ES Parsors, M.D., Ionorary secretary, 2, St. James's Street, Dover.

South-Eastery Braveit : Fast Kinst Distaict.-The annual meetiug of South- Fastery Bravert: Fast Rast Durst ou Thursday, May 2th. Dr. the above District will be held at Canterburgion to send papers. etc., sliould parsons, of Dover, in the chair. Honomery Secretars, W. J. Trson, Folkestone. communicate at once with the Honorary Secr

Fast York and Nohth Linmly Branch. - The annual meeting will be held Gast the Infirmary, Hull, on Weduesday, May $30 t h$, at $1.30 \mathrm{p} . \mathrm{m}$. Gentlemen who at the Infirmary, Hull, on wentestay, ta propose any resolution, are requested intend to make any communiation, or to propose to inform the Secretary Bank, II
Secretary, so, Sprimg Bank.

Metropolitan Cotnties Branch : South Lonion District.-The annual meeting will be held at Bethlem Rogal Hospital. St. George's Hasd, S.E., on meeting will be held at Bets. The chalr will be taked by Dr. Prederick Taylor Tuesday, Msy 8th, at 5.30 P.ar. The chair will To read the minutes of the last Fice-President of the District, Election of Vice-President, representative member of Council. Com
mitteo, and Secretary for the ensulng vear. All the present officers are eligible for reelemlon. Dr. Savage, Mesldent Physician to Bethlem Hospital, will give a demanstration on Cases of Insanity in the Warits of the Hospital. All medical practitioners wil! be welcomed. There will be a Committec meeting it. the ame place at $\$ \mathrm{P} . \mathrm{M}$. Gentimen desirous of reading papers, exhititing specimens, etc., at. future mectings. Are requested to communicate with h. Percio S.vifk, Henomry Sceretary; huthlem Rogal Huspital, S.M.

South-Fistrara Bravol: East Subrey District.-The next meetiug will he hold at the Greyhound Hotel, Creydon, on Thursday, May 10th, at i P.M. T: A. Kichardson, Esq., of Creyton, in the chalr. Dianer nt 6 P.N.; charge is.. exolnsive of wlae. The following papers have been promised. Dr. Goodhart: On Certain Innominate Febrile Cenditious and Antipyretics. Mr. Bruce Clarke; On the Treatment of Stricture by Electrolysis. Dr. Philpot: On the Clarke; On the Treatment of Stricture by Electrolssis. Dr. Philpot: On the Local Treatment of Eezema. Members desirnns of contributing papers will pleaso com
Creydon.

## NORTH OF FNGLAND BRANCI

THe spring meeting was held at the Infirmary, Sundcrland, on April 25 th.
Cases.-Mr. Morgas showed a little girl who had suffered from a eerere attack of cancrum oris, resulting in great destruction of the cheek, and distortion of the mouth.-After some remarks by Dr. Lawrence and Dr. Embleton, Mr. Morgan said that he intended to repair the deformity by operation.-Dr. IIUME showed a patient on whom he had performed the operation of inguinal colotomy with a good result.-Dr. Murphy showed a man on whom he had performed the operation of gastrostomy about seren months ago. The patient's condition improved so much after the operation that there was a hope that the original diagnosis of cancer might be given up.-Drs. Watson, Gibson, and Embleton discussed these cases, and Drs. Hume and Murphy replied.-Dr. Murphy showed a girl with closure of the jaws from cicatrix, caused by accidentally inhaling flame. It was suggested in the discussion (Mr. Morgan and Dr. Mume) that if the adhesions did not give way on stretching under chloroform. that they should be divided, and, if necessary, the strong bands of scar dissected out, and also a piece of fresh mucous membane might be transplanted to the surface of the wound.
Specimens.-Mr. Morg an showed some of the parts from a case of tubercular peritonitis simulating cystic disease of the ovary. The case raised a discussion on the question of diagnosis and treatment, the surgeons thinking it desirable to explore the abdomen in donbtful cases, and, as far as possible, cleanse the peritoneum, whilst Dr. Drumsond, as a physician, urged the advantage of general and local medicinal treatment.-Dr. Drummond shored a tumour of the brain, removed after death. The interesting feature of the case was that there was no optic neuritis, although other symptoms were present which established the diagnosis.-Dr. Dremimond also showed the parts from a case of intestinal obstruction, in which there were pendulous growths of the structure of a cylindroma. He also exhibited a spleen with many infarcts of uncommon appearance, and a liver full of adenomatous growth.
Congenital Gastric Fistula.-Dr. IItue read notes of a case of congenital fistula of the stomach cured by operation.

Quack Advertisements.-31r. Morgan moved the following resolution on quack advertisements, which was seconded by Dr. Eastwoon, and carried: "1. That inasmuch as the evidence is before us that the newspaper notices, the pamphlets, hooks, and handbills issued hy advertising quacks on the subjects of 'Nerrous Debility,' 'Courtship and Marriage,' 'The Philosophy of Life,' and such like, are most injurious in their effect and most debasing in their moral tendeney, suggestive of impurity, and giving false notions of health, it is the duty of this meeting of the North of England Branch of the British Medical Association to warn the public, and especially the young, against those who pretend, under the garb of philanthropy and religion, to minister in some secret way to the physical and moral well-heing of their fellow men. And further, to point out that 'health, energy, and manly rigour' are best maintained, and if lost thropgh iicious habits, best recovered, by self-restraint and purity of life. 2. That this resolution be printed, and a copy sent to each of the mayors in the district which onr Branch covers, asking him to take such steps as he mny deem right and practicable to bave these advertisements suppresserl within his jurisdiction; and also to the chairman of each bench of magistrates with the same request: and, secondly, to arch newspaper proprietor in the said district. drawing his attention to the evil, and asking him, as a respectable journalist, to refuse insertion of such adrertisements; and, thirdly, to allow such resolution to be publicly advertised, as our warning to the puhlic againat this baneful thing."

Over sixty members were present at the meeting.
Dinner.- Afterwards the members and their friends dined together at the Queen's Hotel, Sunderland.

## JAMAICA BRANCH.

THe usual bi-monthly meeting was held at the Public Library on April 4th, the Hon. J. C. Philappo, president, in the chair. There were ten members present.
Multiple Mammary Tumours.-Dr. J. Lescie Cox read a paper on a case of Multiple Nammary Tumours. The patient was shown.
Renoval of Foreign Body from Male Bladder.-Dr. T. H. SAUNDERS read a paper on the removal of a pipe-stem from the bladder of a man.

## ABERDEEN, BANFF, AND KINCARDINE BRANCII.

The April meeting of this branch was held in 198, Union Street, Aberdeen, on Wednesday, April 18th, at 8 P.N., the president, Dr. Smith, of Kinnairdy, being in the chair.
Tew Member:-The minutes of last meeting having been read and approved, Dr. James Crevie, Newburgh, was ballotted for and admitted a member of the Branch.
Petition against Proposed Horse and Carrage Tax:-Dr. WIGHT mored that the Branch petition the House of Commons against the taxation of horses of medical practitioners, as proposed by Mr. Goschen in the Budget, and recommend individual members to use their influence with members of Parliament to attain the above object. Dr. Wight further proposed that the petition should take the form suggested by Mr. Ernest Hart at page 761 of the current rolume of the Journal.-This motion was seconded by the President, and unanimously adopted by the meeting.
Post-Graduate Course.-Dr. Edmond, the convener of last year's? Post-Graduate Course Committee, made a statement regarding the advisability of a course for 1888, and wished to elicit the feeling of the Branch on the matter.-Dr. GARDEN proposed that a year should be missed, and no counter motion having been proposed, the motion ras declared to be carried.

## GLOUCESTERSHIRE BRANCH.

An ordinary meeting was held at the Gloucester Infirmary on April 17th, İ 88 , at 7.30 P.M., under the presidency of Dr. Currib.
The minutes of the last meeting were read and confirmed.
Next Meeting.-It was proposed by Dr. Batren, and seconded by Mr. WadDy: "That the half-yearly meeting be held in June at Gloucester." Carried.

Therapeutical Society.-It was proposed by Mr. Wadnr, and seconded by Dr. Snutar: "The Branch haring beard the offer ol Dr. Percy Wilde, of Bath, to bring the subject of the aims and object of the Therapeutical Society before this Association, this Braneh accepts lis offer." Carried.

Communications.-Dr. Soutar read a paper on Epilepsy.-Dr, Brown showed the Temperature Charts of a Case of Hysterical Pyrexia.

## BATH AND BRISTOL BRANCH.

The fifth ordinary meeting of the session was held nt the Graad Pump Room Hotel, Bath, on Thursday evening, April I9th, Dr. (7. F. Burder, President, in the chair. There were also present thirty members.
New IVenbers.-The following gentlemen were elected members of the Association and the Branch:-Messrs. B. R. T. Trevelyan, M.R.C.S.E., Bristol General Mospital: W. R. Ackinnd, M.R.C.S., I.D.S., Rodney Cottage, Clifton ; and A. I'ring, L.R.C.P., 4, Arlington Place, Clifton.
Diphthera.-The evening was devoted to a discussion on Diphtheria, which was opened by a short, practical paper by Dr. A. B. Brabazon, medical officer of health for Bath, who pointed out the lines on which the discussiou should be developed. Ile was followed by Jrs. Crossman, Davies, J. Broom, Stockirlle, Bontille Yox, and E. Fieli, and Jessrs. Trckets, llinto., Waugh, Pollard, and R. J. H. Scott, who spoke severally on the etiology, the distinctive fentures, and the treatment of the disease.

Some of the medical societies in the United States, following the lead of the Georgia State Medical Society, are agitating for the, remoral of all customs duties now leried on surgical instruments and medical apparatus and supplies.

## PROCEEDINGS OF COUNCIL.

a meeting of the Council, held in the Council Room of the ociation, 429 , Strand, London, on Wednesday, April 18th, 1888 sent:--
Dr. T, Bringwater, President of the Conncil, in the chair, C. Holman, Reignte, Treasurer J. W. Baker, Southport II. Barnes, Carlisle
G. B. Barron, Southport J. S. Bristowe; F.R.S., Loudon
H. T. Butlin, London
A. Carpenter, Croydon
seon-Gencral W. R. Cornish, ondon
J. Ward Cousins, Portsmouth G. W. Crowe, Worcester
A. Davidson, Liverpool
J. L. H. Down, London

George Eastes, London
J. If. Galton, Upper Normood Bruce Goff, Bothwell
O. Grant, Inverness
W. C. Grigg, London
T. W. Grimshaw, Carrick ines
James Ifardie, Manchester
Mr. T. R. Jessop, Leeds
Mr. H. R. Ker, ilalesowen
Dr. W. G. V. Lash, Weymouth
Dr. J, MeIntyre, Odiham
Mr. F. Mason, Bath
Dr. W. W. Moore, Brighton
Mr. W. Jones-Morris, Portmadoc
Dr. F. Needham, Gloucester
Dr. C. Parsons, Dorer
Dr. R. Saundby, Birmingham
Dr. A. Sheen, Cardiff
Mr. S. W. Sibley, London
Dr. W. Strange, Worcester
Mr. T. Sympson, Lincoln
Mr. J. Taylor, Chester
Dr. T. W. Trend, Southampton
Mr. F. Wallace, London
Dr. F. Waters, Chester
Mr. C. G. Wheelhouse, Leeds.
Mr. A. Winkfield, Oxford
he minutes of the last meeting having been printed and cirend, and no objection having been raised, were put and confirmed. ead letters from the Registrar-General, of which the following copies:
bruary $39 /$, 1898. Sir,-I am directed by the Registrar-General to acvedge the receint of your letter of the lst instant, and to state that he $b$ regrets that, for the reasons fully stated in his former communication November $19 \mathrm{th}, 1887$, he is unable to comply with your request that dahulation of causes of death shall be extended in the way proposed by you. egards the suggestion made by the Registrar-General that the informa yon wish for conld probably be obtained by you from the hospitals on the itry; this was, of course, no more than a passing sapmes, and the strar-General regrets that it should have heen one wbich, as it appears, Id not in vour judgment meet the case. I am, Sir, your obedient servant. HOGLE, M.D., Snperintendent of Statistical Depar
Sietary, British Medical Association, 429, Strand, W.C. bruary $29 . t h, 188$, Sir, - Enclosedred officially, was a letter addressed to istrar-General, Which has been answerd oniew with the signatories of that sersonally inviting me to have an intervew that I shall he happy to receive munication. Wily you be so good as any convenieat time, and to convey to gentleman who wishes to see me, at any conveniest to make on the subject Registrar-General any remarks which he niay wish to make on the sunject hich the letter refers. I take it, however, that the object of such an inter -would be to insist upon the importance. from a medical point of view. of information asked for. As, however, the Registrar-General does not in the contest this value, of which, of course, the medical signatories are far contest this value, of whim, antion of causes of death upon perfectly different grounds. I hardly think the proposed interview and discussion would be of much service. I am, Sir, obedient servant, W, OGLE M.D. Superintendent, of Statistical Depart-t.- The General Secretary. British Xfedical Association, 429. Strand. W.C. cesolved: That a reply be sent to the Registrar-General in words following:
To the Registrar-General of Births, Deaths, and Marriages in England.
r,-We are desired by the Council of the British Medical Association to cowledgeand thank you for your communications, dated February 29th, signed by゙Ilr. William Ogle.
we understund that rou are umable to comply with our request on accoint ie necessity of avoiding any inereased expeaditure in ronr department, efrain from pressing the matter at the present moment. But we sincerely that the time is uot far distant when you may see your way to providing letalled statistics of cancer which we have suggested. We are, Sir, your hetalled statis.
lead proposed by-laws of the Perthshire Branch
esolved: That the proposed by-laws be approved, and that the agnition of that Branch as a Branch of the British Medical dociation be and it is hereby confirmed by this Council: that in nifying this resolution the Council of the Association desire to bess to the Perthshire 13ranch their high sense of the mutual $b$ efits that this union should necessarily insure.
iesolved: That the 319 candidates, whose names appear on the cular convening the meeting, be and thes are hereby elected noers of the British Medical Association.
lesolved: That the Financial Statement for the rear ending I rember 31st, 1887, as certified by the auditors as correct, be reched and approved, and published in the Jovrsal in accordunce rh 33 r-law 26.
esolved: That the minutes of the Journal and Finance Com-- tee of to-day's date be received and approved, and the recomn dations contained therein carmed into effect.

The minutes of the Journal and Finance Committee contain the accounts for the quarter ending March 31 st , amounting to $£ 5,9: 9$ 16s. 3d. Report of the quartors for the quarter, and a recommeodation that the bditor salary be increased by $£ 250$, the Manager's by $£ 150$, and the Assistant Salary be increased by ${ }^{2}$ and
he Treasurer reported the investment of $£ 2,000$ in Nottingham Corporation 3 per cent. inscribed Stock.
Resolved: That the President of Council, the Treasurer, and the General Secretary be empowered to seal power of attorney anthorising the London and Westminster Bank to receire the dividends.

Resolved: That the minutes of the Premises Committee of April 17 th be received and approred, and that the recommendations contained therein be carried into effect.
The minutes of the Premises Committee contain communications from the Hunterian Society stating that, in consequence of new arrangements by the London Institution, their medical library would remain there
The President of the Council placed before the Council letters from Dr. Prosser James and Dr. DeDonell.
Read minutes of the Committee appointed to consider the subject of Relative Rank.
The minutes of the Committee appointed to consider the subject of Relative Rank, contain the reply of the Secretary of State for War to the communication of the President of Council on beball of the Association.
Resolved: That the correspondence be referred to the Parlismentary Bills Committee, and that Surgeon-General Cornish be added to the Parliamentary Bills Committee.
Resolved: That the minutes of the Branch Organisation Committee of April 17 th be received and approred, and the recommendations contained therein carried into effect.

The minutes of the Branch Organisation Committee contain recommendations that copies be struck off of the map of the Branches, aud one sent to each Honorary Branch Secretary.
Resolved: That the minutes of the Scientific Grants Committee of April 17 th be received and approved, and the recommendations contained therein carried into effect.

The minutes of the Scientific Gmants Committee contain particulars of seventeen applications for the scholarship varated by Mr. Watsob Cherne, and recommendation that Dr. Ralph Stockman, Edinburgh, be appointed to the racancy for one year.
Resolved: That the President of Council, the Treasurer, and Mr. Sibley be a Committee to draw up the Annual Report.

Resolved: That the arrangements for the Annual Meeting be approved and confirmed.

## SPECIAL CORRESPONDENCE.

## PARIS.

[FROM OLR OWN CORRESPONDENT.]

## "Phthisiogenic" Pleurisy. - Vaginal Antisepsis. - Orthosyphon

 Stamineus.-Treatment of Typhlitis.-Tclepathic Remedies.In a clinical lecture at the Hôpital de la Pitié, Professor Jaccoud recently made some interesting remarks on a case of dry diaphragmatic pleurisy, and on the possible connection of such cases with tubercular phthisis. The case was extremely severe at the outset, and the patient breathed with great difficulty, and suffered much pain. On examination. it was found that the affection was localised at the postero-lateral part of the left side of the chest in communication with the diaphragm. The severe symptoms soon gave way to local treatment, and recovery was rapid. At the end of eight days the only traces left of the pleural inflammation consisted in a slight fibrinous exudation indicated by some want of resonance, harshness of breath-sounds, and retraction of the two intercostal spaces in the lower posterior part of the chest in inspiration. Dr. Jaccoud attaches epecial importance to the persistence of this exudation after apparent recovery, as it may lead to pleuritic adhesions, and, on account of the elose eonnection between pleurisy and pulmonary phthisis. It is generally supposed that only pleurisy of the apex can lead to tuberculosis of
the lungs. This where located, may precede and pave the pleurisy, no matter Moreover, as Dr. Jaccoud already stated in 18S2, the esseles. chareover, as Dr. Jaccoud aready stated in 1882, the essential
character of "phthisiogenic" pleurisy is that it occupies the lower region of the pleura at its antero-lateral part. and generallyon the right side. In a case of pleurisy of this description the patient recovers rapidly, with, perhaps, some loss of strength : this is the first stage. But after some weeks, or perhaps months. he again falls ill; a pneumonic patch is discorered at the seat of The pneumnnic patch, and the patient is obliged to take to his ber.
known as caseous pneumonia, This is the second stage. Lastly, should the patient surrive for a few months there may be $n$ third slage, represented by more or less generalised pulmonary tuberculasis. Dr. Jaccoud thinks that the cannection between these pletrisies ending in adhesions and the formation of a pneumonic focus, which is, after all, tuberculous, mny be explained by the fact that the portion of ling baund by the adhesions to the chestwall has lost its power of expansion, nnd participates little or not int all in the respiratory process. On the other hand, the blood circulates perfectly in this region of the pulmonary parenchyma, the ressels are compressed by the pleuro-costal adhesions, stasis becomes frequent: consequently there is a diminution of the nutritive action. extremely favourable to the multiplication of the bacilli, which have already taken up their abode in this part of the lung, while direct examination of the apices shows that these are still quite free from microbes. Dr. Jaccoud draws the following practical conclusions from the ahave facts: Pleurisy may as readily lead to pulmonary phthisis when it affects the lower parts of the pleural carity as when it is in the aper. This is particularly the case as regards dry pleurisies ending in adhesions situated in the antere-lateral parts on the left side, such pleurisies being more often "phthisiagenic" than anyother. On the appearance of such symptoms actire measures must be taken natWithstanding their apparent mildness and the rapid recovery of the patient. Every effort must be made to prevent the formation of adhesions, particularly by extensive blistering of the side of the chest. This will often succeed. The inlalation of compressed air is also very useful if it is continued during several weeks.

The France Médicale of March 3rd publishes an nrticle by Dr. F. Verchere on vaginal antisepsis, of which the following is an abstract:-Vaginal and uterine cleanliness is one of the greatest achievements of modern times, and, thanks to it, gynecology has become surgical and effective. For a few days before operation or ehildbirth raginal asepsis must be established and maintained. The author passes in review the various liquids employed to obtain vaginal asepsis, carbolic acid, boric acid, bichloride or biniodide of mercury, etc. Carbolic ncid, in order to be efficnciaus, must be used at a strength of 40 in I, 000, Then it becames too irritating to the mucous membrane of the ragina and uterus: baric acid, on the contrary, is nat energetic enough. There remain the mercurial solutions, which are the best; above all Van Swieten's solution. For vaginal injections it may be used pure, but for intra-uterine injections it is better to employ a weak solution of about onethird of the liquid to twa-thirds of water. The surgeon or accoucheur should not trust to the patient, but should give the injections himself twice a day for four or five days before the confinement or operation. Between the injections occlusion must be maintained by means of a pad of iodoform wool, which should remain in situ night and day. Should the odour of iodeform be disagreeable to the patient, ground coffee. Tonka bean, etc., should be used to disguise it. After operation, the antiseptic measures must be continued with the same care until healing is complete. After delivery, the iodoform pad is not necessary, and may be replaced by iodoform ganze.

Dr. Frachard recommends, in the Gazette des Hôpitaux, of March Ist, a powerful diuretic, orthosyphon stamineus, in the form of Jaca tea, in treating gravel and arthritis. He records the following eases. I. II., aged 60 , had passed gravel in his urine for a Jear. An infusion of Java tea (five grammes to the litre) was prescribed daily. The urine gradunlly became clear and abundant. Ir. F.. aged $5 \%$, for six menths had suffered avery three weeks from nephritic colic, fallowed by the expulsion of large calculi. Java tea was prescribed in the same wny as in Case r. In the next two months he had only one attack, and luring the five months which had since plapsed he had not suffered at all. 1II. M.. aged 46. had suffered since 1883 from nscites due to cirrhosis of the liver. For a month he toak Java tea, nt first five grammes, and then ten grammes in a litre of water. The alrlomen diminished in size several centimetres weekly: The drug is perfectly harmless. Dr. Frachard has only userl it in the form of Java tea, and pills obtained direct from the importer, M. l'érinelle.
11. Bouchard recommends the following treatment for typhlitis: Sonthe pain by a morphine injeetion, if very sharp at first; if nat, a thack layer of Nenpolitan ointment with belladenna, covered by n large, very hot poultice. Aseptic rectal injections twice a day, with at least one litre of water, to which are added five grammes of borate of soda, and two or three teaspoonfuls of tincture of benzoin, mixed with camphorated alcohol. The injections must
be given rery slowly: Alsolute rest is indispensable. No purge tives, or, if any, only those of the mildest kind, such as magnesi in water, etc. Only the lightest diet, which will leare no depos: for intestinal fermentation, sliculd be allowed. Milk and alkalin drinks may be given in small quantities at a time ; later on, mill thickened with yelks of eggs. If at the end of $a$ fortnight som thickening can still be felt round the crecum, a small blister shoul be applied.
Professor Bernheim, of Nancy, writing in the Rerue Hypnotqu observes that, since recent oxperiments have led the medical prol
fession to beliere in remedies whicl can act at a distonce, fession to believe in remedlies which can act at a distance, exper ments on that subject should be made in a more serious and cor scientious'manner. Substances having a definite netion should b chosen and enclosed in numbered tubes by a person not present a the experiments, the names of each being put in sealed envelopi bearing corresponding numbers with those on the tubes. substances should be chosen for subjects wha have already bee submitted to those experiments, in order to prevent their first im pressions being recalled. The various phenomena should be note immediately after they are ohserved. The envelopes should b opened only after the experiments are terminated and the subjec las gone away. If, after all these precautions have been taker the effects produced agree with the known action of the drug, th? presence of something more than the influence of suggestion i telepathic medicine will be proved. Professar Bernheim's ans experiments on a roung girl considered susceptible to the actio of telepathic medicine hare given negative results.

## VIENNA.

[from our own correspondent.]
Acute Quinine Poisonnmg.- Rare Form of Congenital Syphilis, Dr. L. Rosenbusci, of Lemberg. in a recent number of thi Przeglad Lekarski, reports a case of acute quinine poisoning which he had observed in the hospital of that city. After th administration of a gramme of the sulphate of quinine, the patien was attacked with shivering, tinnitus aurium, seyere headache, col and pains in the extremities, palpitations, and vomiting, with grea prostration. An hour later the patient became unconscious, th temperature rose to $39.7^{\circ} \mathrm{C}$., the pulse was 158 and compressible the pupils contracted, but rencting to light, the tongue dry. Th skin of the face and the whole body presented a uniform redness resembling that of scarlet fever, and composed of many small can fluent patches. The likeness to scarlet fever eruption was th more striking ns the neck and the thighs were very deepl: coloured. Respiration was difficult. Castor-cil, caffein, and coli compresses to the head and the cardiac region were ordered. Of the following day the temperature was conly 36.5 C. , the puls
108, with considerable arterial tension. The patient 108, with considerable arterial tension. The patient had a restles night and wrs delirious; the bowels. acted towards the morning
the rash became paler, the pupils regained their normal size, th the rash became paler, the pupils regained their normal size, th tangue became red and coated with yellow patches. Sensation of tearing and trembling in the extremities were complained of Bromide of sodium was given. The rash and all the other sym ptoms just described disappeared in two days, and only a sligh pigmentation of the skin remained. The patient had stated that, in years aga, lie had a similar attack after taking two nowders, eaci containing half a gramme of sulplate of quinine. On that occasion the rash disappeared the next day. Dr. Rosenbusch points out that thi cnse is specinlly interesting lyy reason of the high temperatur $\left(39.7^{\circ} \mathrm{C}\right.$.). which had never before excecded $38.7^{\circ} \mathrm{C}$; also or account of the grent resemblance of the rash to that of searle ferer, from which int first it could hardly be distinguished. Thi absence of thront symptems nnil the sudden occurrence of a dif fuse and uniform blush over the whole body were the chie features which differentiated the affection from scarlet fever.
At a recent meeting of the Royal Society of Plysicians of Buda Pesth, Dr. Rôna showed a balyy two months old which whs affecter with congenital syphilis of n particularly interesting type. Som dayspreviously Dr. Róna had olserved the followingsympltomsin thd child: coryza (which had nlready been present in the first weel after birth); muccus patches on the lips; a papule ns large as
pen on the left cleek: hroad condylomata and ulcers around the pen on the left cheek; hrond condylomata and ulcers around the
nnus ; pseude-paralysis of the two upper and right lower extremi ties, due to considerable swelling of the lower ends of both the arms, the ulne and radii, and the lower end of the right femut The metatarsal bones and the first phalanges of the middle fingers were swollen to such a degree that the palm of the hand was a; conrex as the back. The spleen was enlarged; the liver anc
made. When the alleged facts are absolutely denied in the most public manner by the persons accused, Professor ron Bergmann of professional cthics, and refuse to take up the challenge thus openly given.
it is a somewhat suspicious circumstance, moreover, that this virtuous resolution of the Professor should be announced just at this particular time. Ile did not appear to be ao scrupulous a few weeks ago, when, at the Langenbeck Memorial Featival here, his speech was understood to contain a covert attack on Sir Jorell Mackenzie, which was received with the fullest appreciation hy the andience. I happen to know also that, whether he has "inspired" the press or not, he has been in frequent communication for a long time back with the Berlin correspondent of a powerful English newspaper, whose "candid friendship" towards the English specialist has been obvious to the most casual reader.

I dare say there have been faults on both sides, but when the Whole miserable business comes fully before the medical world, as it is sure to do one of these days, I think it will be seen that Sir Morell Mackenzie has had such an amount of provocation that, after all, he may well, like Lord Clire, "stand astonished at his own moderation."

## GLASGOW.

[FROM OUR OWN CORRESPONDENT.]
Meeting of Glasgow University Council.-Opposition of the University Authorities to the Universities Bill.-Queen Margaret College.-Typhus Fever in "Tinkler" Wigwams.-St. Mary's Industrial school Epidemic.-The Scotch Education Department and Leaving Certificates for Secondary Schools.
THE annual meeting of the University Council was held on April 25 th, and was characterised by the largest attendance for very
many years. It soon became evident, however, that the evpected many years. It soon became evident, however, that the expected discussion on the Universities Bill was not the cause of the unusual ing up for rotes on the part of indefatigable candidates for the vacant clerkship of the Council. Three candidates were put forward, one by the University Council Association, but his name and that of another were withdrawn after the firat vote, as soon as the enormous majority was evident in favour of a strictly nonparty man, Mr. Arch. Craig, LL.B., for whom 392 rated. As soon as this rote was orer, two-thirds of the meeting trooped away. On the question of approving the arrangements made by the University Extension Board for the extension of unirersity teaching, Dr. MeVail expressed a strong objection to the scheme. He maintained it was completely inadequate because the unirersity element in the certificate proposed to be granted would be reduced to a minimum, and there was no provision for accepting any of such certificates as qualifying for the degree in the University. He refrained from proposing an amendment because he hoped that they would soon find themselyes working under a new Universities Act, with a different Unirersity Court, and a
Senate reduced from its position of dictation and Senate reduced from its position of dictation and universal con-
trol. In the discussiou that followed on the Uni trol. In the discussiou that followed on the Universities Bill
there was nothing of marked importance elicited. The Committee of Council had suggested that general approval of the Bill shonld be expressed, coupled with a desire for a fuller definition of the meaning and conditions of affiliation, and for an increased grant. An attempt was made, on a motion moved by Principal Douglas, seconded by Sir William Thomson, to get the Council to express an opinion in farour of restricting the Commissioners to investigation and report on the question of affiliation with a view to legislation, on the ground that the subject had not yet been sutti-
ciently matured by discussion. This however was defeated by ciently matured by discussion. This however was defeated by a
majority of 81 against 63 . The falling fin ance from between 450 and 500 , when a small piece of pattendcame up for disposal, to less than 150, when the reform of the University was under discussion, is not a favourable comment on the claim of the Council for increased power in the administra-
tion of the University. Subsequently a motion was carried objecting to the interference with the patronage of bursaries as proposed in the Dill. Owing to the lateness of the hour two motions by Dr. J. R. Wolfe were postponed to next meeting. They proposed that a representation be made to the University Court to consider, with the managers of the Royal Infirmary, how, by endowing chairs of clinical medicine and otherwise, the clinique
of that institution might be utilised for the University, and to consider the disadvantageous position of extra-mural teachers in
medicine, in respect that they are not represented among the Examiners for Degrees, and to report in which way this disadrantage can best be removel. Should it be necessary when next meeting comes round for these motions to be brought up, considerable support is promised for them.
The anthorities of Glasgow University are directing all the force of their attack on the new Bill to the affiliation clauses, and to the proposal to give the Conrt power to review, ex proprio motu, the decisions of the Senate. These are the portions of the Bill to which the University Court itself, at a recent meeting, took strong exception. They also expressed the opinion that the Court, as proposed, was too large for business purposes, and recommended that only one asscssor, instead of two, should be appointed by the Crown, on whom the title of Dean of Faculties should be conferred, with a view to maintaining that historical oflice. The deep dislike entertained to the Bill by many of the Senate is shown in a letter addressed by Professor Dickson to the University member of Parliament, Mr. J. A. Campbell.' Professor Dickson offers a most uncompromising criticism to the whole Bill, objecting to the proposals bearing on the General Council, because "they are understood to have emanated from a self-constituted association," formed of scarcely one-fifth of the whole body of graduates, and representing those mainly resident in Glasgow and vicinity, because they limit the freedom of choice of the Council in its representatives, and because of the proposal for a Standing Committee of, Council. He objects to the size of the proposed Court and to its extended powers of review, and speaks of affliation as "an unknown quantity under a metaphorical name," finally characterising the Bill as "legislation at haphazard", and as "a perilous experiment." There is no doult that the Senate will use all its infuence to have all the affiliation clauses removed from the Bill, and the question referred to the Commissioners simply for consideration and report; and the Senatorial breast is animated with no little hope that in this attempt they will be successiul.

Queen Margaret College closed its fifth session on April 30 th', when the prizes were distributed by Sir J, N. Cuthbertson. The total number of students was 242 .

Dr. Russell gives another example, in his latest report on the bealth of Glasgow, of the conditions which maintain typhns. It is that of a one-apartment house from which five cases were removed. The house was inhabited by two families, consisting of fourteen persons. The parents of the first family were 44 and 41 years of age, and they had a family of four girls, of ages $16,11,9$, and 7 years, and three boys, of ages 13 and 3 years, and 16 months. The parents of the second family were 35 and 24 yeara of age, and had two children, one a boy of 4 years and a second boy of 5 days. The mother of this family was a daughter of the first. Iler age is 24 , and her mother's 41, and hoth were suckling infants. There was besides an illegitimate child, aged 2 years, of a grown-up daughter of the first family. The people belonged to a class known in scotland as "tinkters." They had no furniture but a table and some soap-boxes, one bed and shakedown, and a very scanty supply of cooking or feeding utensils. The complicated indecuncies of life in these circumstances, Dr. Russell, remarks, may be evolved by anyone's imagination. The existence of such circtmatances depends in this case on the will of the parents who choose to revert to the savage state. Ought the liabits of the wigwam, he asks, to be permitted in the midst of a city? If they are, tho smallest penalty is the expense of treating typhus and maintaining people in the reception-house.

St. Mary's Industrial School remains free of disease, and only five of its patients remain in hospital. A total of 310 cases are at present in Belvidere, of which ltis are cases of scarlet ferer, 52 of enteric ferer, 34 of measles, 25 of typhus, 19 of whooping-cough, 6 of erysipelas, and 5 undefined. There is also a solitary case of small-pox-that of an actor, who left Sheflield on April 1st, remained in Edinhurgh fulfilling an engagement till the 8th, and then come on to Glasgow. It is a mild case. A fortnight ago the total number of cases of fever in hospital was 344 , and at the corresponding period of last year they were only 254 .
The scoteli Education department has now offered to secondary schooks placed under their inspection leaving certificates of three grades: one aiming at the standard maintained in the senior local examinations of the university, or the examination preparatory to the three years' course ; $\Omega$ second corresponding to the junior local examination or the medical preliminary; and an honours certificate for the benefit of such schools as ain at still higher standards. The examinatious will be held in the third week of June.

## CORRESPONDENCE.

To Correspondents.
OUR correspondents are reminded that prolixity is a great bar to publicati and, with the constant pressure upon every department of tho Jouns. brevity of atyle and conciseness of statement greatly facilitate early inserd We are compelled to return aud hold over a great number of communicatic chiefly by reason of their unnecessary length.
tile sanitary condition of haileybury college SIR,-I trust that you will allow me space for a feir remar under this head, and for the statement of some facts which not appear in your commissioner's report, in fairness to $t$ authorities of the College and to the parents of the many boya school there. For the sake of clearness I shall follow the order Mr. Bailey Denton's report.

1. Sanitation: External Arrangements.-There are no wat closets "in the Master's house;' there are two in houses "Assistant Masters." This correction may appear a mere quibt but it will be appreciated by those who know Haileybury and acquainted with the relative position of its several buildings.
Internal Arrangements.--Dormitory ventilation. In fairness the College, it should be known that the method of ventilation ferred to was originally adopted as one which then held a positi) of considerable prestige, and only after its adoption had been commended by a sanitary nuthority of acknowledged positi Although now somewhat discredited, it may still be regarded a fair "s system," as anyone who examines the dormitories under conditions would, after uoting the low percentage of carl dioxide present in the air of all the rooms, admit. But the r advantage originally claimed for the "system," namely, that practically converted each set of dormitories into one large apa ment, and ventilated them as such, constitutes its essential dra back; becanse it the more readily admits of the conveyance infection (should there be such in one dormitory) to the ro abore. [As a matter of fact, none of the recent cases held sucl alationship to any of the others as would be explicable on $t$ hypothesis.]
hypothesis.] account of this special feature in the rentilat: that $I$, as medical officer of the school (not "the medical officel health") stated in my report to the Council for 1887 - in wo which Mr. Bailey Denton gives partly as mine and partly as own-"The system of ventilation which exists in most of 1 school dormitories cannot be considered as satisfactory, or as accordance with the otherwise good system of sanitation olta ing in the school. I believe that it could he greatly improved but a small outlay, and that without any material alteration the buildings. I hope shortly to be able to draw up a detai memorandum on the subject." In the same letter (dated A 9th, 1888) in which I supplied Mr. Bailey Denton with this in! mation, I added that the Council had, immediately on receiv this presentment, agreed to the undertaking of such alterati in this respect as were recommended; and that the actual car ing out of these changes was now held over only in order await the detailed report of the sanitary authority to whom question had been committed in connection with an investigat into the recent cases of diphtheria.
In the same letter I also stated to Mr. Denton that, on representation, it was, some time ago-and quite independed of the late illness-arranged that the Tobin's tubes in the house should be heightened, and that this work had been prponed until the Faster holidaysa imply in order that it might
carried out in conjunction with other structural alterations carried out in conjunction with other structural alterations repairs which were due at that time. This work, with a minor details, has been completed; but, in . justice to parents
others interested in the College, these facts should, I think, have been made public simultaneously with the criticisms ferred to.

As regards the condition of some of the ditches between Il ford Heath and Haileylury, it should be known that-these hecome pure as soon as the new sewage farm, now in process arrangement for this district, is completed. Many of the boy: 1 Iaileybury must often pass these ditches, as, at times, they others for miles ronnd; but, it is not the ease that they "cl-
stantly play "in Little Amwell. It may be added that the stantly play" in Little Amwell. It may be added that the
lege has, in successive years, spent very considerable sums in lege has, in successive years, spent very consioerable simply in of that it might improve and have control of the drainage, etc.
II. Water-supply.-The present position of, the well may not exactly such as would be chosen were it now proposed to sink new well for the College. Whether its contents are, or ever we, been, prejudicially affected by its position is another matter. 2 this head it should be noted that:-

1. Not only does the well for a large part of its depth pass rough a dense and practically impermeable clay, which would rtainly allow impurities to be washed array over its sloping rface more readily than to penetrate its mass, but that all the idence of repeated examinations, made under the most rarious nditions, at all times of the year, at short intervals, and, again, ter pumping the well dry, is quite against the entrance of fluid to it, except from the one point, at the very bottom, whence the ater issues from the chalk. As a result of the numberless exainations made during the last quarter of a century there has !rer been found the slightest trace of soakage through any part its walls.
2. There is certainly no permanent contamination of the wellater, from sewage or otherwise. In such a case, successive talyses could not have given such results as "a phenomenally re water," "a most excellent water," "of the highest degree of rity." In his last, report, dated April 2ttl, 1888, Dr. Sterenson 3. describes the water as " of the highest degree of purity. me yellow in colour. Examinations of the well under these contions prove that there is no leakage through the well-walls. ther chalk wells in the district exhibit a similar phenomenon, 1d the conclusion is that this yellow matter enters at the bottom the well after percolating the chalk and thick superjacent rata, the filtration through the chalk being naturally less rapid ad less effectual under the pressure resulting from a heavy and ng-continued rainfall. [I do not know the "authorities" who aver" that this vegetable matter percolates "laterally from the ea." Inasmuch as the Ordnance data show that the bottom of 1e well is some. sixty feet above the level of the river Lea, such teral percolation from this source is obviously impossible.] nalyses of the water at these times show the yellow matter to e vegetable, and peaty in character. Dr. Sterenson, for exmple, analysing the darkest sample which could be collected fter awaiting very heary rainfall for the purpose, states that the cganic matter "is of a peaty character, and does not appear to e due to sewage matters"-a conclusion obvious from the figures isclosed by the analysis. This rould rebut the suggestion that uface contamination (due to the proximity of "urinals and arious gulleys down which sewage is thrown"?) was the cause of he irruption of organic matter referred to. Moreover, after floodig all the drains with carbolic acid and other substances, no trace $f$ contamination has been obtainable in or about the well.
It should also be noted (as showing that the authorities were ot blind to the possibility of risk, nor careless as to its prevenion) that Messrs. Allen and Hanburys, analysing similar (disoloured) samples of water in February, 1866 (again after henvy ain), state that "the softening process" [which is applied to ail be well-water before distribution] "has reduced the vegetable rganic matter to a very small amount. It is now a satisfactory rater, and is fit for drinking and domestic purposes."
1 think it will be admitted, therefore, that
(a) There is no permanent contamination of the usually "most xcellent" well-water.
(b) That the accasional discoloration noticed after leary rain is lot derired from surface contamiation of the well, or from ateral soakage into it. That it is due to a temporary irmption if yegetable organic matter, and is not dependent on sewage polution. That the College authorities were justified in relying ou be analyses which showed that this regetable matter, when it lid find its may into the well-water, was effectually removed by he Porter-Clark softening process, before the water was distrisuted throughout the College; and
(c) That the anthorities have takeu every reasonable precaution -by frequent examinations of the well itself, and by regularly-- epeated analyses of its water (both before and after softening, lways) under various conditions-to keep theraselres pasted as 0 the state of the water-supply, and forewarned with respect to my possible impairment of its quality. he direction suggested by your commissioner, if they are not anicipated in this matter by Mr. Wells himself. Of course, as egards the recent cases of diplitheria, the same argument which Ur, Bailey Denton quotes, from my letter to him, as opposed to
the idea of the water-supply being the fons et origo mali, applies with at least equal force to the milk also. I prefer not to commit myself to any theory with respeet to the origin of the diphtheria until we hare all the facta abtainable at our command. These are being rery patiently aud thoroughly collated by Dr. G. Turner, to whom the inrestigation of the subject was, entrusted by the Council at my suggestion. Ilis full report will, I hope, be completed shorty. Deanwhile, I can conscientiously state that all the evidence before us unites in exonerating the College from the suspicion of any such lacal defect in sanitation as could be considered responsible for an outbreak of epidemic disease.-I am, etc., Chas. Edwd. SHelly, M.B.Cantab.,

## Medical Officer to Haileybury College.

** The above letter appears to us to be somewhat of an admission of the facts. described in our commissioner's report, although Dr. Shelly apparently does not concur in the remarks made therein as to the possibility of the College well being or becoming polluted owing to its position. The best way for Dr . Shelly to strengthen his case as, to the immonity of the 5rell from suspicion will be to send us for publication Dr. Sterenson's last analysis, with his notes and remarks thereon, which, we presume, are by this time in the possession of the College authorities. We will gladly publish them.

## THE NATIONAL PENSION FUND FOR NURSES.

SIR,-Now that the subject of the Pension Fund is under discussion, there are many nurses who would be glad to have their an opinion on the matter made public, and who would be grateIn you if you would make it known through your paper.
In the first place, surely the word "pension" is misleading; the dictionaries define it as "an allowance made without an equiralent." Of course, no nurse mould be so unreasonable as to expect her services to be so remarded, but there certainly is a very widely spread feeling of disappointment that the terms of for nurses to join it.
So much has been written in the Hospital about the "duty of making provision for the noble women who are deroting their lives to the nursing of the sick," that the first feeling on receiving the prospectus was one of surprise that the provision was to be made almost entirely by themselves.
It is true that rery young nurses will find the torms comparatively easy, but the vast number, who have already spent many years of their lives in this work, will find it difficult, if not impossible, to spare regularly from $£ 20$ to $£ 40$ per annum out of a salary which, in the case of nurses, never exceeds $£ 40$, and is in most instances considerably less.-I am, etc., A Nurse.
** We believe that self-help and self-respect will be found to be the dominant principles by which the great body of nurses are animated. At the discussion at the Society of Arts in Octaber stated that the Pension first instituted, the founder emphatically eleemosynary. Nurses were then, and are now, wauted to join the fund by paying into it at least one-eightl of their earnings by year. All who do this may, we believe. rest assured that those who lave already shown so much liberality and tinterest in the cause of nurses by promating this Fund will take steps 'to conserse the, best interests of every; nurse who entrusts her savings to their care. There are nccessarily a large number of nurses who hare
already no reserve, wed many years of their lives to nursing, and who hare cult, if not imp will, as our correspondent points out, "find it difliannum ant of a salary which, in the case of murses, never exceel f40, ond is in salar instances considerably of the fund, with the ohject of meeting such cases, we beliere notified that nurses so placed, and who are desirous of being assisted to help themselres should apply to the Secretary, 38, Old Jewry, F.C. for a special form of application to be filled up and returued with as little delay as possible, With reference to some statements which hare beeu published, and are beimg circulated. intimating that the nayments required are from an actuarial point of riow excessive, it is right to say that they are effectually refuted by the report of Mr. King, the well-known actuary, aud that the comparisons thurein made are based on palpable error.

## THE LOCAL GOVERNMENT BILL AND SANITARY ADMINISTRATION.

Sir,-In a leading article in the Journal of April 28 th you have pointed out a defect of the most dangerous kind in the Local Government Bill, namely, the careless provisions made for the appointment, tenure, and duties of the medical officer of health. It may seem from the Bill itself that little attention has been given to this department, and that old provisions have been inconsiderately thrown into the new Bill to take their chance there.

I sincerely hope that the medical profession will make its roice plainly heard on this matter, for 1 am sure that we should carry the public with us; indeed, I can scarcely doubt that when the attention of the Government is drawn to their defects the clauses in question will be fully reconsidered. Sir Lyon l'layfair's speech on this subject on the second reading displayed his usual ability and knowledge, and must do good service; other speeches, I trust, will follow his lead. It was my intention to secure an opinion on this subject at the recent special meeting of the West Riding Quarter Sessions, but we did not reach the sanitary clauses. The Quarter Sessions stand adjourned for May 8th, but time presses, and it is possible that even then these clauses may not be reached. Our chairman, Colonel Spencer Stanhope, has, however, expressed his own opinion to me in the terms of the enclosed letter, which he permits me to publish, and which I therefore now enclose for that purpose.

The views which we hold could not be better or more tersely expressed.-I am, etc., T. Clifford Allbutt.
Athenrum Club, Pall Mall, S.W., May Ist.
"Dear Dr. Clifford Allbutt,-As you suppose, the Quarter Sessions did not find time to discuss the sanitary question. I think the adjourned session of May 8th will hare to be adjourned again, as I believe the deputation to Mr. Ritchie will be later than that.
"I think that sanitary matters will fare worse under the Bill than they do at present, and I think medical men should raise an independent protest against Part 111 (Sir Lyon Playfair has, I see, spoken on the second reading).
"The proposal is that sanitary work shall be done by a District Council, which will be elected by the cottagers in rural sanitary districts, divided into wards for the purpose of election of one councillor.
"Practically speaking all ratepayers rated above $£ 4$ per annum will thus be disfranchised, as they will have a rast majority of smaller ratepayers to outweigh them. I do not think it would be possible to have a more ignorant council than that which will probably result from this proposal, and I should think that vaccination and all compulsory sanitation will in most cases be opposed by them.

It is these clauses to which, in my opinion, public attention should be directed. The powers of the County Council can be increased after they have come into action.- Yours very truly,

## "Cannon Iall, Barnsley, April 2!th."

** The views here urged are those first brought forward by the State Medicine Committee of the British Medical Association, and forcibly urged by them upon the Royal Sanitary Commission and the Government, when the resulting Public IIealth Act was framed. It will be seen that the Parliamentary Bills Committee, acting in concert with the Society of Medical Officers of Mealth, whose co-operation they have courted, are now engaged in framing clauses to carry out the object stated (see report, p. 276). The Memorandum of the State Medicine Committee in 1871-a most valuable document, drawn up with the aid of Dr. Stokes, Dr. Farre, Dr. Rumsey, Dr. Sibson, and Mr. W. M. Michacl, Q.C.has been reprinted; and further memoranda on the existing situation hare been prepared by the Parliamentary Bills Committee, with the aid of Mr. W. M. Michael, Q.C., and of Dr. Bond, of Gloucester. Medical officers of health and others interested in this highly important question are invited to apply for such copies of these documents as they may require for their own use and that of members of Parliament and others. They will be forwarded post free. Communications on the subject. by way of criticism or suggestion, should be addressed to Ernest Ilart, Lsq., Chairman of the Joint Subcommittee on the Public Health Clauses of the Lacal Gorernment Dill, at the offices of the Association.

RESECTION OF TIIE PYLORUS FOR CANCER.
Sir,-A mortality of 70 per cent. of cases in which pylorectol has been performed-to say nothing of the number of cases cancer of the pylorus in which surgeons have commenced to op ate with a view of resecting the pylorus, but have had to aband
the operation for some more expeditious method of relievi the operation for some more expeditious method of reliev
symptoms (such as duodenostomy or jejunostomy) from wh the patients suffer-is more than sufficient reason for classing $t$ procedure among the most severe and fatal operations in surge The reasons for this high rate of mortality are not far to First, patients are rarely seen until the disease has existed so lc that they are reduced to a state of approaching inanition fr starration, and the neighbouring mesenteric glands are more orl affected; And, secondly, the length of time occupied in perform: the operation is such that the patients, who are invariably is condition not well adapted for prolonged operations, run great risks of immediate death due to shock, the result of operation, or more remote death from exposure to infecti These dangers may be diminished in proportion to the shorten of the time consumed in the operation, and by inducing patie to submit to operation at as early a stage of the disease possible.

Dr. Senn, of Milwaukee, in his admirable address entitled Experimental Contribution to Intestinal Surgery, with Sper Reference to the Treatment of Intestinal Obstruction, read in Surgical Section of the Ninth International Medical Congress Washington last year, has given us the results of numerous periments made by him on dogs and cats; and although, so far
i know, he has not published any experiments of resection of pylorus on these animals, yet, from his description of operati such as gastro-enterostomy and resections of portions of intestines, I think a great deal can be learnt which may enable to reduce the time occupied in the performance of pylorecto very considerably.

In reading Dr. Senn's very able paper, I was at once struck the simplicity of the operations he suggested, and I can see reason why, with some slight modifications, the same metl should not be adopted for uniting the duodenum and stomi after excision of the pylorus.

I would suggest, then, supposing the preliminary steps of operation to have been performed, and the cancerous pylorus w a portion of the stomach and duodenum to be bronght out of abdomen in the usual way, that the incision for the remora the cancerons mass from the stomach should be somerwat of $t$ shape: ~, so as to allow the end being fasbioned to fit i the duodenum. Two plates of decalcified bone, of the shape and about a quarter of an inch in width should be pared, as recommended by Dr. Senn, with double holes in th or four places, about an inch apart, through which loops of ase silk should be passed through and tied so as to form loops on back; then long threads of silk or carbolised catgut with nee corresponding in number to the loops, should be tied together fastened securely to the loops on the bone. Each plate of being accurately adapted to the mucous lining of the stom thickness of the stomach walls, and the edges inverted so bring the two plates covered with the stomach walls accurat together. The corresponding sutures on the two plates are the be tied; in tying the sutures, the centre one should be tied f then the end ones, and finally the intervening threads.
The end of the stomach, which is to become the intussuscept is to be lined with a soft pliable rubber ring, made of a rub band transformed into a ring by fastening the ends together $\pi$ catgut sutures. This ring must be the length of the circum ence of the end of the stomach, and about half an inch wide; lower margin is stitched by a continuous catgut suture to lower end of the stomach, which effectually prevents the bulg of the mucous membrane. Then a few carbolised catgut sut are threaded, each with two needles. The needles are pas from within outwards, transfixing the upper portion of the rub ring and the entire thickness of the wall of the stomach, equidistant from one another. The cancerous pylorus should now remored with scissors from the duodenum, all bleeding points be caught up and ligatured with fine catgut. The needles which attached to the threads passing through the rubber ring and 'r of the stomach are now passed through the peritoneal, muscl and connective tissue coats of the duodenum at corresponding poil about one-third of an inch from the margin, and when all needles hare been passed, an assistant makes equal traction
e threads, and the operator assists invagination, by turning in e margins of the cud of the duodenum evenly with a director, ad by gently pushing the end of the stomach completely into the rodenum. The inragination accurately made, the catgut sutures e tied nnly with sufficient firmness to prevent disinvagination, ould vomiting occur.
The invagination effects accurate, almost hermetical, sealing of e visceral wound. After a few days the rubber ring becomes tached and passes by the bowel, and the decalcified bone bemes absorbed.
The importance of this subject inust be my excuse for the ngth of this communication, but it will be evident if the above ethod of performing the operation can be carried out with equal fety and efficiency as by the adoption of the Czerny-Lembert ture, there must be a material saving of time, with a proporonate less risk to the patient.-I am, etc.
16, Upper Wimpole Street.
Fred. B. Jessett.

## TEA AND TEFTII.

Sir,-Having seen in a recent number of the Journal an ticle on the old question of the harm in excess of tea-drinking, write to allude to a point that does not appear to be touched pon. Some years since, when on duty at recruiting stations in ie north of England, 1 took ohservation on the great amount of isease and loss of the teeth existing amongst the class of men ffering themselves. It became a cause of rejection of itself in reat numbers. As far a3 my inquiries Went l was led to trace it , the excessive tea-drinking indulged in by the working classes ithe manufacturing towns, and this went on all through the ay, whether with food or not. In fact, instead of five o'cloek , an ing the invention of the upper classes, it was found to exist me. Tea seems to have a peculiar tendency to cause hypermia in the tooth-sacs, leading to inflammation and, eventually, bscess of the lang, with, of course, dentalgia at every stage. Thether this special tendency was due to theine or tannin aving an elective affinity for dentine it is not possible for me to ich manuld be curious to know if medical men, practising in etll to be coincident with tea-drinking.
W. T. Black, F.R.C.S.F., Surgeon-Major.

## CHIAN TURPENTINE IN CANCER

Str,-I observe that in his lecture on diseases of the tongue, eported in your issue of April 21st, Mr. Christopher Heath refers o the treatment of cancer by the use of Chian turpentine, and ays that he has employed the drug as an adjurant to surgical reatment, but without having seen any benefit from it. In illusration of this opinion Mr. Heath mentions the case of a patient ho came to me after having heen operated upon by him, and who feath adds, ime, without haring receired the slightest benefit.
Will you permit me to say that when this patient came to me e did not look as if he could live more than three or four weeks, astead of three or four months, the period for which he did live? The case was a hopeless one: It was one of recurrent cancer of he stump of the tongue and the floor of the mouth, the growth ling the mouth up to the level of the teeth. As Mr. Meath did ot see the patient after I saw him, I cannot think him justifled a contending that the sufferer received no benefit, and I am sure ie will admit this when I say that after treatment by Chian turentine there was an evident arrest of the growth, and a large ortion of it sloughed away, so that the gums and the root of the ongue could be seen; and, as I have often ohserved in such cases, fter taking the Chian turpentine for some time the enlarged subaaxillary gland broke up and dischargel freely. The immediate ause of death was hemorrhage; a slough, separating from the tump of the tongue, exposed an artery which during one night led to the extent of twenty ounces, the patient relusing to allow nedical assistance to be obtained for the purpose of arresting the semorrhage.
Out of regard for your space I will not now discuss the general ise of Chian turpentine as a palliative, and in some instances a emedial agent in cases of cancer. I will only say that generally peaking recourse is had to this agent only when the disease porends a fatal issue, and not at the commencement, when, as my wn practice and the experience of others conrince me, a bene-
ficial effect is capable of being produced. Fren when the use of the knife is clearly desirable, the drug might be concurrently employed; indeed, in cases of the tongue and mouth 1 know that it is not useless, as I have seen several cases of cure, some of them recurrent caucer after operation.- 1 am , etc.,
Birminglam.
John Clay.

## NAVAL AND MILITARY MEDICAL SERVICES.

## ARNI MEDICAL DEFENCE FLND.

Sin,-In the Jocrnal of April l4th you eay that the time has come when the medical officers of the army will have to offer, in the defence of their own interests, the most strenuous opposition to the changes which are now in contemplation. In order to do this effectually 1 would suggest the formation of an Army Medical Defence Fund, with a paid secretary, and a committee formed of pensioned officers of the department, the officers now in the service subscribing a small sum for the purposes of the committec.

The committee would endearour to interest members of Parlisment, issue printed letters and circulars setting forth the grievances of medical officers, and endearouring to induce editors of professional as well as non-professional journals and newspapers to bring the suliject before their readers.
One of the most effective ways of bringing pressure to bear on the authorities is to stop the supply of candidates, and this may be done by issuing a notice of the grievances of the department, which should be posted in every medical school in Great Britain and Ireland, setting forth that the service is not worth entering till the grievances complained of are redressed. I was a member of the Indian Medical Defence Fund, and we issued such a notice to every medical school in the kingdom, with the result that the number of candidates fell off to such an extent that at one or more of the competitions there were not men qualified to fill the vacancies which were before eageriy sought after. After this was great concessions were made and the status of the service wheir interference This, of course, we believed!
If this idea meets with approval, I shall be very glad to give any information I can as to the mode of working the agitation. I need hardly say that the names of subscribers to the fund would be known to the committee and secretary only, and that merely a small sum of money would be necessary, which might be obtained by the secretary issuing a circular to every member of the sertice, setting forth the object of the committee and the amount re-quired.-I am, etc., Jumes Irving, M.D., Surgeon-General Fowey, Cornwall, April 16th. Dengal Army, retired.
CHAN OF RESPOTSIBILITY N MILITARY HOSPITALS.
Referring to a late instance in which the chain of responsibility for an inzorrect diagnosis in a military hospital was stretched to its utmost, a correspondent points out that the said chain is rery clearly and fairly laid down in paragraph 111 of the Army Medical Regulations, defining the duties of medical oflicers in hospitals as follows:-" They will invariably draw the attention of the medical officer in charge to all serious and important cases in their wards, immediately on such coming under their observation; and will, in all cases of professional doubt and difliculty, seek his advice, and consult with him as to the course to be pursued, but it must be clearly understood that each medical officer will be held personally responsible for the proper treatment of patients under his care.
This judicious regulation is, with reference to the fact that, while the medical officer in charge diagnoses, as far as possible, the nature of each case on admission, such diagnosis is necessarily subject to revision on a fuller investigation in the wards. Consultation by the whole hospital staff is often necessary in obscure cases, and sheuld always the carried out, both for the patients ${ }^{\circ}$ sake and for the mutual support and safety of the medical oflicers.

AINE-TOL, LE CLEL TAINERA" takes exception to the actioti of an "Adminl-AIME-TOL. LF CIEL T ATMEA strative Ofticer in the appeat of ineir juniors in the army. Instend of saying
 "Don't kick up a row. (he ond on behalf of those under hlm against the unjust Indian Army the cudgels on behalf of those under him against the the contrasts this latsse faire attituie witls the vigorous action under order. Inc contrasts this latsse faire attituie witis the gofineer. The Medical similar circumstances of, say, s Commancing Royn
Drpartment ratst learn iv tigh: its own tattles or submit ta be sat upon.

## THE NAYY.

Surgeoy 11. J. Goruos has been appointed to the Ganges.
THE MEDICAL STAFF.
Brigade-Suberan Thomas Rumd, M.D., is promoted to be Deputy SurgeonGencral (ranking as Colonel), vice 12. W. CHfton, retired. Dr. lindila previous commlsslons are thus dated: Assistant-Surgeon, August 1st, 1857 ; Surgeon, Noveniber 18th, 18i1; Surgeon-Major, March 1st. 18i3; and Brigade-Surgeon, March 13th. 18e3. He rerved with the sth Hussars duriag the Indian mutiny In $1857-58$, and was present at the capture of Kintah, battle of Kotaria and Kooshana (mentlaned in despatches, medal with clasp). He also served in the Afghan war of 1 sis-80 (1nedal).
Surgeon-Major G. W. MCNALTx, M.D.. F.R.C.S.I., is prometed to be BrigadeSurgeon (rankiag as Lieutenaut-Colonel), vice T. Rudd. Fe entered as AssistantSurgeon, April 14th, 18ti3; became Surgeon, March 1st, 1873 ; and SurgeenMajor, Aprll 1st. 1sit. He was (says Hart's Army List) with the British Ambulance, $B$ Division, durlng the Franco-German war from Octeher, $18 \% 0$, to Marel, 1871, and was present at the siege of Paris ; accompanied the 22nd Prussian Dlvision in the operations heiere Chartres and Orleans, and was present at several ebgagemeuts (received the thanks of General von Wittisch, commanding the Division, for attending wounded on the field, German steel war medal). He subsequently proceedad to Le Mans and Connerre (French bronze cross for anceouring wounded French). Served in the Ashantee war in 1873-74. Was in medical charge of the ILeadquarters Staff, and present at the battle of Amoaful, battle of Orilabsu, and capture of Ceomassie (mentioned in despatches, promoted Surgeon-Major, medal with clasp). Was Chief Surgeon and Commissioner of the National Aid Society in the Russo-Turkish war in 1876-7\%, and was present at the siege of Plevna. Served in the Afghan war of 1878-s0, and was preseat wilh the expedition into the Lughman valley and in the eagagement at Saidabad; accompanied Sir Frederick Roberts in the mareh to Candahar, and was present at the battle of Candahar (mentioned in despatches, medal with clasp, and bronze decoration). Served in the Fgyptian war of 1882 as personal assistant to the Principal Medical Officer with the Iadian Contingent. and was preseat at the battle of Tel-el-Kebir (medal with clasp, 4th Class of the Osmanith, and Khedive's star).
Surgeon-General Johy Irvine, M.1., Monorary Physician to the Queen, has been granted retired pay. His commissions are dated: Assistant-Surgeon, March 15th, 1850: Surgeon, Octoher 2ad, 1857; Surgeon-Major, Navember 16th, 1869 ; Deputy Surgcon-General, November 8th 1810 ; and Surgeon-General, June Ist, 1843 . He served throughout the operations with Havelock's column in $188:$ in medical charge of the Royal Artillery (Maude's), including the actions of Futtehpore, Aoung. Pandoo Nuddee, Cawapore, Oonao, Busserut Gunge, Mnngawarra, and Alumbagh, relief and delebce of the Residency at Lucknow (meotionedl in despatches) ; twith Outram's force in the Alumbagh from November, 185', to March, 1858, and at the siege anil capturo of Lucknow by Lord Clyde (medal with two claspa, and a year's service).
Deputy Surgeon-General Johs Tulloch, M.D., is also granted retired pay. He entered as Assistant-Surgeon, Juae 7 th, 2854 ; became Surgeon, February He enter as Assisant-surgeon, Juae 1 th , 1854; became Surgeon, February 1874, 1806: Surgeob-Major. March 1st, Ma73; Brigade-Surgean, November 27th, 1879; and Deputy Surgeo-General, May 2nd, 1383. He served with the 10 th mutIny at Benares, capture of Atrowleea, advance to Lucknow, and actions at Chanda, Umeerpare, Saltanpore, and Douraha, siego and capture of Lucknow, relief of Azimglur, aud operations near Jugdespore (medal with clasp).
Brigade-Surgeon W.J. Wilsos, M.D., is granted retired pay. His commissions bear date: Assistant-Surgeon, April 1st, 1861 ; Surgean, March 1st. 1873; Surgeon-Major, April 16t, 1876; and Brigade-Surgean, Mareh 2sth, 1887. Dr. Wilson was with the Southera AIghanistan Field Foree during the war in 188081, and during the campaign in the Soudan in 1805 he was in command of a bearer company (medal with elasp, and Egyptian liroaze star).

Surgeon-Major S. G. Whire, M.D., also has retired; having appled prior to January 1st last, he is. granted the honerary rank of Brigade-Surgeon. He entered the aervice as Assistani-Surgeon, October list; 1860; became Surgeon, March 1st. 1973; and Surgeon-Major, Novenber 2nd, 18\%5. IIf served with the Rosal Artllery ia the fazara campaign of 1568, includiog the expedition against the tribes on the Blark Mountain (medal with clasp). He was also in the Afghan war of $1878-80$, and was present in the engagements at Ahmed Kheyl and Urzoo near Ghuzuce (medal with clasp).

## ARML MEDICAL RESERYE.

Twe nadermentioned Surgeons-Major to be Surgeons-Major (rankiug as Lien-tenant-Colonels): Frascis Bonser, 3rd Battalion East Surrer Regiment (late the 1st'Surrev Militia); F. A. Rawsos, Sth Battalion King's Royal Kifles (late the Carlow Militia) ; O. H. Stowey, M.B., 3rd Battalion Prince of Wales's Lelnster Regimeot (late 'the Kiog's County Militia).
The undermentloned Surgeons to be Surgenas-Mijor (ranking as Majors): Andrew Ciark, th Middesex Volunteers; William Male, Fill.C.S.E., 5th Lancashire Artillery Volunteers.
The unlermentioned officers to he Surgeons (ranking as Captains) : Surgeon W. H. R. Chockwell, Manchester Diwision Volunteer Medical Staff Surgeon T. W. Ricyardsor, ${ }^{\text {ast }}$ Volnntere Battalion Norfolk liegiment (late the Ist Norfolk Voluntecrs) : Acting-Surgeon K. B. Ponteucy, M.D., 2nd Lancashire Volonteers; Acting-Surgeon lt. T: A. O'Callaghas, ist jilintshire fingineor Yolunteers; Actiog-Surgeon F. J. Walkea, M.B., ist Volunteer Batalion Lincoln Ripiment (ate the 1st Lincole Volualeers): Surgen A. D. Mac-
 the lst Dumfries); Aeting-Surgeon James Tuatos, lat Volunteer Battalion Royal Sussex liegiment (late the 1st Sussex) ; add Actiog-Surgeon J. A. MaczErziE, M.B., Whi LaicushlreVolunterrs.

## THE INDIAN MEDICAL SERVICR.

Surarons-Major II. De Tamaim, M.1), Dombay Eistahlinbment, has heen allowed to retire. He entered the service ss Assistant-Surgeon April 1st, 1867, and became Surgeon-Major twelve years threalter. He was engaged in the Abysinian war in $1867-68$, and bas the medal granted for that campaign. The reliremeot of Brigade-Surgeon Fimanefed Romavia, M.D., Beegal Eatablistiment, alrealy announced in the Jouksal, has received the sanction of the Queeri
Surgeon G. B. Invims, Dengal Fistablishment, has passed the examination in

THF: uadermentioned gentlemen THE VOLUNTEERS.
regimenta apeeiticd: RoDent DFwMas, 2nd Volunteer Brigade Souther Division Rayal Artillery (late the lst Dorset) : Acting-Surgean J. W. Beatriz from the 1st Northumberland Artllery te the 1st (lato 5 th) Durhama and M. WHyte, M.B., 1st Volunteer Battalion Royal Highlanders (lato the Fortar).

## MEDICO-LEGAL AND MEDICO-ETHICAL.

## A IIARD Case.

An appeal is being made to the profession on Dehalf of Mr. II. Bayfield, L.R.C.P., who has been subjected to heavy cost (amounting to f106) in defending an unfounded charge brough against lim under the following circumstances: On Februar 26th, 1886, an attempt was made to poison his wife's mether b: introducing laudanum in tea prepared for her use. The polic made exhaustive Enquiries, and on their own responsibility, aa entirely in opposition to Mr. Bayfield's wish, took the parlourmai into custady on the charge. Fully persuaded in his own min that the girl was not guilty, Mr. Bayfield supplied her with lega assistance. As may be remembered, the cook confessed to th crime. The parlourmaid, who was acquitted, then brought el action against Mr. Bayfield for $£ 200$ damages for false imprisoa ment. The case, of course, was decided in Mr. Bayfield's favou but the plaintiff having no means he was left to pay his own cost which, as we have stated, amount to $£ 106$ on the soliciter's bi alone, to say nothing of the very heary incidental expenses.
The following subscriptions have been received:-

Heary James, 31, Sisters
Mr. Bellamy, 17, Wimpole
J. Winiams, M.D., 11, Queen

Anne Street
Mr. Pitts
${ }_{\text {Hy }}$ Whiting, Esq., Lavender
Hill, S.W.
Subscriptions will be received by Ed. Bellamy, F.R.C.S.; 1 Wimpole Street: R. F. Frazer, L. K.Q.C.P., etc., Lavender Hill; Tandy, L.R.C.1'.Ed., 43, Cedars Road, Claphan : Joseph Sutclif L.R.C.P.Ed., G4l, Wandsworth Road; Fredk. Hunter, L.R.C.P IIaycroft House, Lavender Hill.

## THE LAW AS TO INFECTION.

taylor v. spalding.
Thrs case, tried before Mr. Baron Huddleston and a special jury raised some important questions of public health law interestin to medical practitioners and the public. It was an action brough by a lodging-house keeper at a seaside resort to recover damage, on the ground that the defendant, who had on June 16 th, 185 taken rooms in her house for herself and four children, had im ported the infection of scarlet ferer into it, and so caused th house to be shut up for a considerable time. In Jay the de fendant's cook had an illness resembling scarlet fever, bu attributed to drain-peisoning. The childrea were, however, sen away, but the day after their return developed sore throat. The medical man did not consider that the children ha scarlet fever, and lookerl npon the disease as diphtheritic. Th children quickly regained their health, and it was not until Jua 25th that one of the sons, who had not been previcusly ill, sick ened with scarlet fercr. The defendant's family left the houst which was shut up for six weeks, disinfected, and re-papered, bu scarlet fever again broke out among fresh visiters.
Mr. Baron Ilundefston said that the questions which he shoul. leave to the jury would be: I. Did the infection which commu nicated the scarlet fever to the son originate in connection wit the sickness in defendant's honse? !. Wid the defendant know or ought she to have known, that there was any danger of iafec tion from any of her children at the time she answered the questio of the plaintiffe daughter on that subject? 3. Was there on the par of the defendant a wilful concealment of the risk of infection? the learned judge said, the first question was answered in th negative there would be an end to the plaintiff's case ; if, how' ever, in the affirmative, then the question arose as to whethe there was at law an implied warranty on pari of a person takia, lodgings that he was free from infectious or contagious illnest Upon that he had no hesitation in holding that there was no suc
d warranty in cases where the person taking lodgings was ware of the danger of infection, and even in cases where scienter was clear, he had his doults unless there was eviof fraululent concealment of the fact. In cases of express nty, however, there would be no doubt, but here there was :h plea in the statement of claim. judge considered that the parties ought to come to terms, le case was settled out of court upon terms which did not ire.

## MEDICO-PARLIAMENTARY,

## The Horse Tax.

 last announcement the following petitions have been lodged by our last announcement1 men against this tax \& By Mr. M. Bass, from Grent Haywood and SanY Mr. Yerburgh, from Chester; by Sir 1I. Fletcher, from Shoreham, ng, and Southwick; by Sir E. Lechmere, franch of the British Medical tho Worcestershire and Herefordshire Branch of the Brits by Mr. A. tion ; by Mr. L. Fry, from Walter E. Horland and others; Alton; by Mr. - eys, from members of the protession in the Mr. Stanley Leighton, from lauds, from Aberayron and Lampeter; by Mr. Stanley Leigaton, Falk ; by Mr. A. Egerton, from Eceles, Swinton, Pendlebury, and WaikSir W. Lawson, from Maryport; by Mr. Haldane, from Haddington; J. Kennaway, from Dr, Southcott, Axmouth; and, by Mr. W. Lowther, irkby Stephen.

## HOUSE OF COMMONS.-Monday, April soth.

dical Officers.-Sir H. Fletcher asked the Secretary of State ar whether it had been customary to grant medals, gratniad other rewards, to the medical officers and establishments yed on board hospital ships in time of war; and whether it he case that the medical officers who served on board hosships in the Abyssinian, Ashantee, Egyptian, and Soudan aigns received medals, including those who served on board Idian hospital ship Cesarewitch at Suakim.-Mr. E. Stanreplied to both questions in the affirmative.
demic of Pneumonia in Fermoy Barracks.-In reply to Dr. ER, Mr. E. STANHOPE said that, probably on account of the of Ireland, and lung disease lad been rather prevalent in the rdshire Regiment ine weekly retura shown that them the thirteen admissions for pnewmonia, and one death. The ury state of the barracks was reported to be satisfactory, and use other than the weather had been assigned for the outFurther inquiry had, however, been ordered.
Tuesday, May 1st.

- Vaccination of Infants.-Mr. Fitchie, in answer to Mr. W. IneN, said his attention had been drawn to the two inquests ed to by the hon. memher. As regards the case of the child in the Greenwich Infirmary, the verdict of the jury at the er's inquest was not that the child died from being vaccinwhen six days old, as stated in the question, but from being entally suffocated while at the mother's breast. The child oe infirmary thirteen days after the vaccination, and, accord, the statement of the medical officer of the guardians, was atly healthy at the time of the vaccination and at the time of ig the infirmary. A post-mortem examination showed, howthat the child had one lung in a state of collapse, probably the time of birth, and had other congenital malformations; he jury, having this evidence before them, added to their ct a rider to the effect that the child was, in their opinion, in ceptioually delicate state of health, and that its vaccination nuch to be regretted. As he had already stated, however, the of death was accidental suffocation. As regards the case of hild boru at Queen Clarlotte's IIospital, it mas vaccinated five days old, as was the practice in that hospital unless the it objected. In this case the mother was aware of the rule, did not ohject. The child, whon discharged from the hospipas certified by the plysician to be in good health. The child when just over a month old. The coroner stated that death lot due to tho vaccination, but to injury to the vaccination , followed by inflammation, which was prohably of an erysious character.
, ball-pox at Sheffeld.-Mr. Ritchie, in answer to Mr. Picton, an exhanstlre inquiry into the circumstances of the epidemic lall-pox at Sheffield by one of the lioard's medical inspectors still in progress, and added, in reply to Mr. Vincent, that the mic had been so far suppressed that the town could be said : clear of small-pox.
aployment of Retired Officers M.S.-Mr. S. Staniope, in
reply to Dr. Tanner, baid retired medical officers would be employed from time to time as their services became necessary. When so re-employed their remuneration was limited by the Royal Warrant to a sum of $£ 150$ a year heyond their retired pay, and their service did not count towards increase of retired pay. He might add that this re-employnent during peace was entirely at the option of the retired officer. If a retired officer were called out for seryice in a time of national emergency, the conditions of employment would be altogether different.


## Wednesday, May ind.

The Early Closing Bill.-Sir Walter Foster, in seconding the motion for the second reading of the Bill on general grounds, with reference to the effect on the health of the population, re$18 \pm 5$ the Commission health question involved. As long ago as who were compelled to work in the ritiated atmosphere of shops and private dwellings was greatly injured. Twenty years ago he himself had undertaken an inquiry into this subject, and he had ascertained that confinement in factories and workshops largely tended to the incrense of lung-disease among the persons, especially the females, employed in them. The decennial report of the Registrar-General showed that while the death-rate among the agricultural class was as 644 , that among the shopkeeping class was as 877. In the same report it was shown that, taking the death-rate of fishermen, who lived in the purest air, at 198 , that of agricultural labours was 237 , that of persons employed in grocers' shops was 283 , and that of persons employed in drapers' shops was 430 . No figures could be more eloquent than these, which showed the necessity of this Bill for the purpose of securing the health of the population.-After a lengthy discussion the House divided, and the Bill was lost by a majority of 183 .

## UNIVERSITY INTELLIGENCE،

## CAMBRIDGE.

At the congregation on Thursday, Edwin Cooper Perry; M.A., late Fellow of King's College, Senior Classic 1880, assistant physician at Guys Hospital, was admitted to the degree of M.D. A grace proposing the purchase of the site of the Perse School, adjoining the new Chemical Laboratory, was carried.

## GLASGOW UNIVERSITY:

Extension Board.-This Board has appointed the following lecturers on scientific subjects:-Magnus Maclean and John G. Kerr, M.A. on Natural Philosophy and Mathematics. Patrick Geddes and A Somerville, B.Sc., on Botany and Zoology. Iule Mackay, M.D., and Bruce Young, M.B., on Anatomy. J. MeGregor Robertson, M.D., and IW. Snodgrass, M.B., on Physiology: G. G. ITenderson, M.A., B.Sc., on Chemistry or Mineralogy, D. Forsyth, M.A., B.Sc., on Physical Geography. J. H. Fullerton, M.A., B.Sc., on Geology. It has heen further intimated that each course of lectures will cost about $£ 50$, but where there may the require in raising this sum, the Board will endeavour to meet the requirements of each case as far as possible.

## UNIVERSITY OF DURHABI.

Flculty of Medicine.
Examination for Degrees in Mledicine and Surgery, Easter Term, 1888.- At the First Examination for the Degree of Bachelor in Medicine, the following candidates satisfied the examiners.
In Elementary Anatomy, Elementary Physiology, Chemistry and Chemical Physics, Botany and Medical Batany.
4. W. Collego of iredicine Neweastle-upon-Tyme; J. D. Wardale, College of Medicine, Neweastle-upon-Tyne.
In Flementary Anatomy and Flementary Phrsiology.
A. C. Baca St Bartholomews Hospital; R. C. Brown, Colloge of Medicine. . C. Baca. St. Datholome; J. J. Dale. Collego of Medicine, Newcastle-upon-Tyucastle-upon-1ypo; College of Medicinc, Newcastle-upon-Tyne; J. Y. Tyuc; W. M. Davism, Concgr of Medicile, Nom-Tyne; F. W. Kirkman. tredale, Collepe of Moldiciue; $\mathbf{F}$. W. Standish, College of Medicine, NewSheftield sohool of
In Chemistry with Chemical Physics, Botany with Medical Botany.
F. If. Alderson, Midulesex Hospital; II. A. Claridge, Queen's College, Birminghan; C. V. Dingle. College of Medielne, Seveastle upon-Tyne: E. W. Diver, University College; O. P. Felvus, College of Jedicine, New-
castle-upon-Tyno; F. F. France, College of Medicine, Newcastlo-upon-

Thre: E. Gane, St. Bartholomew's IInspital: 12. MeConll, College of Medicine, Newcastli-upon-Tyne; J. I'. Molyneax, onvens College; A. W. Wear, College of Medieine, Nuwcastle-ugon-Tyne; G. F. M. Wood. Luy's llosCollege of A J . Woul. Uweus College
In Chemistry with Chemical llysics.
T. A. Collinson, M.H.C.S.. L.S.A., College of Mfrlicine, Neweast le-apou-Tyne; A. Jervls, L.1R.C.1., M.k.C.S., Si, Genrge's Hospital J. S. Tew, M.K.C.S., A.S.A.. Unversity Collerre : A. A. D. Townsend, Quceu's College, Birminghana.
Old Regulations. Botany only.
L. A. Baine, College of Mcilicine, Neweastle-upon-Tyue.

Chemistry only.
W. J. Barleigh-1Robioson, London Lospital, and College of Medicine, New-castle-upon-Trne; N. liaw, Collese of Medicine, Newcastle-upon-Tvne.
At the Second Examination for the Degree of Bachelor in Medicine, the following candidates satisfied the examiners.
. weond Class Honours.-A. Gane, St. Hartholomew's Hospital.
Pass List.-J. Arnoit, College of Medicine, Newcastle-upon-Tyne; R. 0. Benington, L.I.C.P., M.R.C.S., L.S.Se., St. Thomas's Hospital, G. B. S. Darter, St. Thomas's Hospital: A. E. Davis, College of Mediclne, Newr castle-upou-Tyne; E. Gane, St. Bartholomew's Hospital ; J. L. Joynes, Middlesex Hospital ; F. B. Jiutter, London Hospital; If. L. Rutter, London Hospital ; A. J. Swallow, St. Thomas's Hospital; A. M. Wilson, St. Thomas's llospital.
At the Firamination for the Licence in Sanitary Science, the following candidates satisfied the examiners.
F. Eastes, M.D., M.R.C.S.Eng.; J. P. Williams-Freeman, M.B., M.R.C.S.Eng

## OBITUARY:

## HORACE TURNER, M.R.C.S.EsG., L.S.A.

THE death of Mr. Horace Turner, of Norwich, at the age of 39 , occurred on March a7th under pectliarly melancholy circumstances, the deceased gentleman having contracted diphtheria whilst attending his patients. IIe was a student of University College, and formerly house-surgeon at University College Ilospital, house-physician at the Middlesex Hospital, and resident medical officer of the Female Lock Ilospital. He had been in active practice in Norwich for about ffteen years, where he held some local appointments. He was medical superintendent of the Bethel Asylum and surgeon to the Jenny Lind Infirmary. He was a member of the Norwich Medico-Chirurgical and Meteorological Societies. . IIe leaves a wife and four childreu.

## CIIARLES GOODTIIX, M.R.C.S.Evg., L.S.A.

Formich has lost another of its most respected practitioners in the person of Mr. Charles Goodwin, who died on March 92nd at the age of 76 . The deceased, who was the son of a solicitur of that city, studied at St. Bartholomew's Hospital. Ile was formerly house-surgeon to the Norfolk and Forwich Ilospital. Ilaring filled the post of senior surgeon to the Norfolk and Forvich Eye Infirmary, he subsequently hcld the position of con-sulting-surgeon to that institution. He was a Justice of the Peace, and occupied many influential positions in connection with local charities, taking a keen interest in all that concerned the welfare of the city.

## WILILAM ALEXANDER, M.D.EDIN.

We have to announce the death of Dr. William Nlexander, who died somewhat suddenly at his residence at Blackrell Lodge, Halifax, on April 13th, nt the ripe age of 81. Dr. Alexander was the son of Dr. Gervase Alexander, and grandson of Dr. Kobert Alexander, of Hopwood Hall, and for two centuries the Alexanders have practised as medical men in the Ifalifax district. The deceased geutleman was born in 1806 , and educated at Hipperholme Grammar School, and afterwards at the University of Edinburgh. Ite took his degree of M.D. in 1830 , and commenced practice in his native town, where for many years he enjoyed a large and lucrative connection. ITe was clected a Fellow of the College of Physicians in 1889, was a member of the Council of the University of Edinburgh, honorary physician to the Halifax Infirmary for nearly half a century, and on his retirement two years ago was appointed consulting physician to that institution. He was a member of the magisterial luench. He was the author of sereral works, including The Spa Water and Sea-bathing at Scarborough, The Adulteratimn of Food and Drinks, etc., The Sanitary Condition of IIulifax, etc. By Dr. Alexander's death Halifax has lost one of its best known and most respected citizens.

# PUBLIC HEALTH <br> POOR-LAW MEDICAL SERVICES <br> <br> BELFAST WITER SUPPLY. 

 <br> <br> BELFAST WITER SUPPLY.}

The public mind of Belfnst is nt present much exercised alarming statements which have been made before some of public boards and in the press regarding the alleged contami tion of the water supply by sewage matter, surface water, other impuritics. On April (th a meeting of the Public Hea Committee of the Town Council was held to consider the sta ment of Councillor Finnegan. This gentleman states that a weeks ago, as he was walkiug near one of the reservoirs of Water Commissioners, he was surprised to see a number of $d$ fish lying about. Seeking for a cause for this remarkable fact, examined the sources of the reservoir, and found that a tur constructed some time ago for the purpose of draining off pollu water proceeding from the Oldpark 3 lill and adjoining meadc had become leaky; aud was discharging into a watercourse le ing to the reservoir. Ife further stated that at one portion of waterworks there wns a metal pipe carried over the reservoir height of only two feet, that this pipe contained servage mat and that at the time of his examiuation matter of a foetid. disgusting character was escaping into the reserroir.
These extraordinary statements naturally excited the utr astonishment and alarm. The question is being thoroug examined by the Water Commissioners, the public health offic and the borough analyst, and is still under consideration. results hitherto made public are mainly negative. The pu health officers and the borough engineer visited the waterwo and were unable to rerify the statements made. They saw dead fish, and deny that sewage matter finds its way into public reservoirs. They decline, howerer, very properly to press any opinion regarding the quality of the water until t obtain the results of the examination of the borough analys whom sis specimens have been sent. Mr. Macassey, the engir of the Water Board, states that the water escaping from on the culverts, and alleged to be rery foul, is only discoloured little iron rust. Councillor Stewart, M.D., who took a samp] the leaking matter, finds that it contains nothing worse than face water.

It is also clear that the rery high death-rate which has vailed in Belfast during the past winter is not directly attri able to impurity of water, the chief sources of mortality hes been measles and whooping-cough, typhoid fever not having vailed to any ahnormal extent. While we should deprecate public panic until the alleged facts are more thoroughly vestigated. the public attention now directed to the w supply of Belfast can hardly fail to exercise a snlutary influe That supply has certainly been inadequate in point of quan during the recent period of drought, but it is only fair to Water Commissioners to recognise the efforts which they art present putting forth to give the town a thoroughly satisfaci supply. The engineering works at present in progress can however, be completed for some time, and it is eminently a able that in the interval which mnst elapse until then every caution should be taken to preserve the great and growing patic
lation in Belfast from the manifold evils resulting from defic lation in Belfast from the
or impure water supply:

## NOTIFICATION OF INFECTIOUS DISEASE.

## Offichal Statement by the Chairman of the Selec

 Committee of the Ilouse of Commons.The Select Committee of the Ilouse of Commons, consistin Mr. George IIastings (Chairman), Dr. Farquharson, Mr. Hardea, Mr. Mayne, Mr. P'owell, Mr. Sexton, Mr. J. L. Wharton, and Williams, sat to consider the clauses in the Kingston Improven Bill, on Wednesday, April 25th, when Dr. Biddle, Dr. Corbet, Dr. l'aradise appeared on behalf of eighteen members of medical profession to oppose the notification clauses, so far provides for the compulsory notification of infectious disease medical men, and urged the arguments which have already stated in these columins in farour of the limitation of compul to the occhpier of the house.
The Chairman stated that it wras not necessary for the cou to address the Committee in support of these clauses, but the (o
see were anxious that in giving their decision with regard to retention of these clauses in the existing form, he should say ew words, for which publieity was desired. Ine pointed out it the Committee lad now sanctioned the insertion of these uses in many Bills dating from the year 1882 , because they bered them to be framed and to have acted for the benefit of the ale commanity, the medical profession included. After giving senee of notification, he proceeded to speak as follows: Zymotic ease is like fire-you can put it out very easily and quickly at commeneement, but allow it to spread, and it rery soon gets pond your control. I venture to say that a very large propornof zymotic diseases in this country are caused by the absence notincation where the disease breaks ont in Lo Lo Gord Governat Banrd, made in the IIonse of Commons a very few weeks ce, there are upwards of fifty boronghs in the United Kingdom tat proof is system of notitication of disease in force. I ask, 3 followed? We have had two instances given to us to-day e in Croydon where it has been in existence four years, during lich time one case of prosecution is recorded; one other in rrow, where for some reason or other-we know nothing of the - Act. I think that really proves the ease for notification. In ty towns you have had this Act in force for years, and only two nor complaint have arisen, which proves that the Act is adfession. In Edinburgh the medical profession stands rery high ercising immense influence in the eity and university throngh cir own high attainments. They were at first opposed to the does a great deal of good, aud according to a statement sent to by Dr. Littlejohn, there is not a single medical practitioner in e city of Edinburgh who is now in any way opposed to the is could equally be done if the dutw was left wholly that all useholder. I totally differ from that opinion, and I must act on my own conseientious conviction in the matter. Is it to be pposed that if a man is gaining his living by keeping a lodging-
g-house he will willingly send notice that infections disegse his house? And do we not know that one of thectious disease is uses of the spread of a scarlet fever is through people contract$g$ it in lodging-houses, where its existence las been carefully ncealed, and they have gone out from those places and spread it oadcast. To leare it to the occupier to notify is, in my opinion, ft to them I shond be in farour of striking ont the clanse altother, for that would be simply a delusion and a suare. There is le great town in Great Britain which did adopt that very prosion, which is the town of Creenock, where they imposed notifi-
tion only on the houselolder, and I have the authority of the edical ofticer of health of that town for saying that the system notifying by the householder proved a complete failure. No de notifies unless they want to do so for some reason of their mand if they do not want to notify they simply leare it alone, try authe is no remedy either for the medical ofticer or the sanihoord, and las printed borough. Ne has placed these facts apon m very well aware that the British Medical Assaciation has exressed an official objection to these clauses, but we all know how f the otes are taken. I had the honour of being present at one lajority against was exceedingly narrow. I would not do the redical profession at large the dishonour of thinking that they, or purely private reasons of their own, are in fayour either of he community. I am quite suro that, when these provisions have een made-as they will be made by Parliament-universal, and pplicable to the whole community throughout Freat Britain, hat the medical profession will within three Jeurs themselves cknowledge that no wiser niece of legislation has ever been 18 dc. Mr. Powell: Being connected intimately with the borough of radford, where the notilication of infectiuls distase is enforced Y these clanses, 1 wish to hear witness to the salutary operation aluable lives, und giving entire aatisfaction to the whole popuation of that great borough.

THu following letter has been addressed to the Right Honourable C. T. Ritchic Boltod, February 20th, 1983.
Sin,-Some time ago a serics of queries, anent the notification of infectious disease, was sent by your Board to medical oficers of health. Tho medical oflicer of health for Bolton, without consulting eithar the medical men of Bolton, or the Town Council, forwarded lis roplites to you. The medical men of Bolton wish you to know that the action of our meslical officer of healtha has beou repudiated by vote of the Town Councll, and emphaticalls con-1 demmed by $4 \delta$ per eeut. of the medical practitioners iu Bolton. The opinion of the latter body is set forth specifically in the subjoinel protest, unammously adopted at a meeting of the profession held on February 2ud, ask for it your meeting I was instruct-C am, Sir, your obedient servant,
careful consideration,- 1 an, sir, your obedent Norman McLiese. 'l
Query 2. Weassert that the removal is carried out most capricloully. In some cases, where isolatlon is carried out atisfactorily, the patiput is nevertheless hustled off to the fever Hospital. In other cases, where remoral has been urgently required, the sanitary authorities have refused to take action. In our view a preference in remoral is given to persons of the better chass, and to persuns outside the borough. Morenver, serious hardship is otten innicted on members of the working class. The wives are threatened and terrorised $\bar{F}$ on members of the working com their work, or they are compelled to find; the husbands are stopped irom family is either pauperised or its resources. lothings elsewhere thus, the fandy is erippled at the hour of its utmost need. All this is done without seriously crippled at the hour
Query 3. We ohject to compulsory notification by the mertical attendant, as an infringement of the confidential relations which subsist between patient and practitioner. Speaking from an abundant clinical experience, we emphatically assert that compulsory notification does often leai to the conceal ment of infeetious disease ; and as the medical officer of health is not, and ment of iateethous disease, aractlee, we hold that his opinion on this question is absolutely worthless.
Query 4. We agree that notification should be compulsory, but that the compulsion ought to rest on the householder. The proposal to provide an solatiog hospital we hold to be simply preposterous. It would inevitable lead to the spread of infectious disease.

Query 5 . The medical officer of health states that he restrains scarlet fever. In poiat of fact, the number of deaths from that disease in 1887 was double that of 1856 . Again, his percentages are wrong; for in the inst halt of his layour able decade, many zymotic patieats were removeder as deaths occurring out of the borough.
Query the Theposal to give the medical officer of health and his inspector ower to enter 0 house in which infectious disease is believed to exist we characterise as most unwarrantable. We deem it probable that, if sucha yower were ever attempted to be enforced, it would in most cases be men not ously resisted. It may also be added under this head, that medical baen not resident within the borough, as well as illegal practitioners, are not sed they preferred to attend cases of infectious disease in the horough, because dey are not. required to report. Generally we couserer health, with respect to persons, has any tendency to restrict the spread of infectious disease.

Health of English Towns.-During the week ending Saturday, April 28 th, 5,781 births and 3,400 deaths were registered in the twenty-eight large English towns, including London. which have an eatimated popnlation of $9,395,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had been 21.9 and 19.9 in the two preceding weeks, further declined to 18.9 during the week under notice. The rates in the aeveral towns ranged from 14.7 in Bolton and in IIull, and 16.1 in Manchester, and 25.9 in Blachburn. The mean death-rate in 24.3 in twenty-seven provineial towns was 20.0 per 1,000 and by 2.5 the rate recorded in London, which was onls 15.5 per 1,000 . The 3,400 deaths registered during the week under notice in the twenty-eight towns included 328 which were referred to the principal zymotic diseases, against 359 and 364 in the tro preeeding weeks; of these, 143 resulted from whooping-cough, 45 from scarlet fever, 33 from measles, 35 , from diphtheria, 34 from pox. These 328 deaths were equal to an annual rate of $1 . S$ per 1,000 ; in London the zymotie death-rate was 1.9 while iu the twenty-seven provineial towns it areraged 1.7 per 1,000 , and ranged from 0.0 in Birkenhead and Preston, and 0.4 in Brighton and in Sunderland to 3.0 in Oldham and 3.4 in Cardiff. Measles caused the highest proportional fatality in Leicester, Bradford, and Bristol : scarlet fever in Oldham, Blackburu, and Cardiff; whoopingeough in Wolverhamptou, ILalifax, Jlanchester, and Salford; and "fever" in Leicester. The 35 deaths from diphtheria in the the 7 fatal cases of small-pox recorled during the week under notice in the twenty-eight towns, 5 occurred in Sheflield, 1 in London, and 1 in Bristol. The Metropolitan Asylums Hospitals contained 21 small-pox patients on Saturday, April 2sth, of which tained 067 scarlet fever patients on the same date, against $1,00^{2}$ and 961 at the end of the two nreceding weeks ; there were 79 admissions during the week. The death-rate from diseasee of the respiratory organs in London was equal to 4.2 per 1,000, and was below the average.

IIealeth of Scoter Towns.-In the eight principal Scotch towns, 839 births and 530 deaths were registered during the week ending Saturday, April 2sth. The annual rate of mortality in these towns, which had been 20.8 and 21.2 per 1,000 in the two - preceding weeks, declined again to 21.0 during the week under notice, but exceeded by 2.1 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns the lowest rates were recorded in Greenock, Aberdeen, and Leith, and the highest in Glasgow and Paisley. The 530 deaths in these towns during the week under notice included 49 which were referred to the principal zymotic diseases, equal to an annual rate of 1.9 per 1,000 , which slightly exceeded the mean zymotic death-rate during the same period in the large English towns. The highest zymotic rates were recorded in Perth and Paisley. The largest proportional fatality of measles occurred in Glasgow, and of whooping-cough in Glasgow and Aberdeen. The 5 deaths from diphtheria recorded in these towns during the week included 4 in Glasgow. The mortality from diseases of the respiratory organs in these towns was equal to 4.5 per 1,000 , against 4.2 in London.

## THE LOCAL GOVERNMENT BILL : SANITARY ADMINISTRATION.

 Dr. Paul Q. Karkeek (Medical Officer of Health for Torquay and St. Mary: charch) writea: I foresee that the proposed new county medical officer maypoasibly turn out a douhtful blessigg. If this officer be chosen by the County Council, there is a probability of all the evils now ascribed to local inflnences belng perpetrated. Some protegé of a local magnate, or a raw boy with a new dipioma in sanitary acience, or perhaps a difficult man to work with, may get appointed, and turu out to be a rouad peg in a square hole, or worke.
I renture to auggest that these county medical officers be depaties of the Local Government Board sent into a county or division to work, and answerable to the Board, althongh advising the County Conncil. Let them form a "Sanitary Service of the Local Government Board," just as the "Army Medical Department." Such men, if impracticable or unsatisfactory in any way, could be removed by the Board, or admonished, advised, etc., and they would carry more weight from the fact of their being the representatives of the Board. But if the officer he elected by the County Council, he would be then
for ever suhject to social and other influences, and anawerable only to a few local magnates, whom he might keep in pith. Io fact, he might do what, bow, and when he liked. The nearest resemblance I can point out to my idea of a connty medical officer is that rery active, independent set of men called, I think, surveyors of taxes, though I should be sorry to see the county medical officer 80 nпpopular. If my idea of a Sanitary Service be adopted, very many probable evils will be avolded and many adsantages follow.

Roval Surgeon writes: With reference to your leading article of April 28th, allow me to anggest that the appointment of sanitary officers should be vested - neither in the County nor the District Councils, though the former propoaition is obviously the less objectionable; but that such offices should be filled by a competitive examination open to all qualified medical men of a certaln age and atanding. This course would put an end to the familiar and, too often, succesaful attempts to secure these appointments for ill-qualified persons, by backstair inHuence and petty party and religious intrigues. The ratepayera Woold bave the hest guarantee that the best man was selected, while aspiring candidates would bare an opportunity of galuiag the object of their ambition by honourahle competition with their fellows, instead of having, hat in hand, to solicit the rotes of village magnates, while if auccessful they would enter on their duties unharapered by obligations to their village patrons.

## HUMAN AND CALF LYMPH.

Maxcemester, jndging from the course and almilarlty of the veaicles ohtained from calf lymph to those of humanised 1 ymph (taking as a standard the calf Iymph uscd at the Animal Vacciae Fstablishment of the Local Government Board), the protection would appear to be almost certainly the same, but there exist no statistics in Grmat Britain to prove it. With reference to his second question, "Manchester" wfll find a full account in the Report of the Medical Officer of the Local Government Board for 18R2, page 34 ; aiso a shorter account in the Journal for June 29th, 1834 . As regaris the private vendora of lymph menLloned in "Manchester's" letter, we have no opportonity of expressing an opinloa.

## TFXTBOOKS ON HYGUENF

I. J. T. will find advice sa to books to rearl for the diploma in Public Health at page 49 and at page 724 of the curreat volume of the Jourval.

## MEDICAL NEWS.

Royal College of Physioians of London.-The following gentlemen, having conformed to the by-laws and repulations, and passed the required examinations, were admitted Licentintes of the College on April efth.
H. P. Alasworth, Guy's Ifospital; V. Allen, St. Qeorge's Hospital ; J. N. Anwyl, St. Bartholomew"s Hospital ; "J. W, Applegate, St. Bartholomew's Ifospital: "J. E. Appleton, St. Mary's Hospltal: C. II. Ashford, St. Bartholomew's Hospltal: T. Austen, Charing Cross Hospital; H. T. S. Aveline, Briatol ; J. L. Aymard, Guy's Hoopital: "G. A. Ballingall. Rdiahurgh Unlveralty and St, George's Hoapltal; "A. M. Barford, St. Bartholomew's Hosplial :H. Barnett, Cambridge Unlversity and St. Thomas's Ilospltal;
"H. N. Baron, Klng's College; J. O. Barr, St. Mary's Hoeplal; "L.

Beckett, London 1Lospital: *D. T. Beiding, St. Bartholomow's 110 ospi "E. S. Bell, St. Thomas's ilospital; "R. Bird, St. Martholomew"a Hospi Iospital ; E. F. Bour, University Collego; "it, W. Boyce, Universitr lege: *G. Braide, Manchester; K . J. Braye, Londom Ilospital : II, Bristowe, St. Thomas's 1Lospital; E. H. Brock, Guy's Hospital; "F.
Brooke, St. Mary's Ilospital ; \#. D. Brom, St. George's Hospital: II Brooke, St. Mary's Ilospital ; "J. D. Brown, St. George's Hospital;
Cappe, Uaiversity College; A. E. Ohambers, Manchester; F. Chand, Cappe, Uaiversity College: A. E. Ohambers, Manchester; F. Chand
castle-upoa-Tyne; H . S. Charslep, Westminster Hospital; C . II. tou, University College; T. Clifford, Newcastle-npon-Tyne; *J. Colby, St. Bartholomew's IIospital; C. Collier, London IIospital; lina, University College ; E. Cooper, Charing Cross Hospital ; F. Con
London Hospital; *J. K. Couch, Middlesex Hospital;*J. J. Coalt London Hospital ; A. E. Cox, St. Thomas's Hospital; H. C. F. Cra London Hospital ; AJ. D. Cruickshank, Guy's Hospital; G. W. B. Danj St. George'a Hospital; B. A. Daniell, Duhlin : "C. S. Dowdell, Uaiveri College; "C. W. Edwards, Middlesex Hospitai; "W. S. Fenwick, Lom Hospital: 1I. S. Fremlin, Westrainster Hospital ; "O. B. Flux King's lege; P. G. Gilmour, St. Bartholomew's Hospital ; P. D. Goldsmith,
toria University, Onfario ; A. Goulston, St. Thomas ${ }^{\circ}$ Hospital; ${ }^{*} \mathbb{F}$. Gras Cbaring Cross Hospital ; T.J. Head, Loudon Hospital ; E. M. Hearuc Guy's Hospital ; F. Heasman. St. Bartholomew's Hospital ; S. M. Heb thwaite, St. Bartholomew's Hospital; G. A. Heberden. St. George's pital; *W. M. Helsham, St. Thomas's Hospital; "P. Micka, St. Barth ${ }^{*}$ mew S. Hospital : *H. Hill, Bristol ; F. S. D. Hogg, St. George st. Goorge T. Hudson, Bristol; A. H. W. Hunt, West minster Hospital; *J. A. Hnt Middlesex Hospital: *A. W. L. Jones, St. Bartholomew's Hospi *R. Jones, London Hospital ; H. R. Ken rood, London Hospital ; J, Ker, St. Thomas's Hospital ; "W. B. Lane, St. Bartholomew' H Hospits pital ; W. J. Maillard, Guy's Hospital ; W. L. Mathias, St. Thomas's I pital; G. H. Metcale, Guy'e Hospital; S. C. H. Moherly, St. Barth Thomas's Hospital; E. W. Morris, St. Thomas'\& Hospital ; ED. Moss, G Hospital; *J, E. Moyse, Gny" K Iospital ; W. B. Nelaon, Middlesex pital "F. OKinealy, St. Dartholomew's Hospital "F. J. Oxiey, Loo lege ; F. G. Parsons, Mirdlesex Hospital ; F. V. Pegge, King's Colle F. F. L. Peano, University College; D. V. Phillips, St. Thomas'a Hospi A. E. Poolman, Guy'a Hospital ; W. F. Pridham, St. Mary's Hospital ; Richarda, Bristol ; *N. C. Ridley, St. Mary'a Hospital; *T. W. Robt Loadon Hospital; J. L. Roberts, Guy's Hospital; *N. B. Robineon, George'a Hospital; J. W. Sandoe, Guy's Hospital; G. II. Seagrave, versity College: "C. E. Seai, University College; ${ }^{* 1 H}$ II. S. Seddon, Thomas's Hospital ; "W. S. Sharpe, St. Mary 's Hospital; G. S. Sims Thomas's Hospital; "C. J. Stanley, King's College; E. A. T. Steele, Li pool ; C. H. Steveos, University College; W. C. Swayne, Guy's Hospi Walker, St. Thomas's Hospital; W. K. Wails, Manchester; "E. W Bristol ' J. Watson, Westminster Hospital and Newestle-upon-Tyne; H. Whitehead, St. Bartholonew's Ilospital; "H. Williams, St. Bartl mew'a Hospital ; *J. P. Williams, Manchester; A. E. Wynter, Si tholomew's Hospital ; W. B. Yates, Manchester.

* Approved by Lzamining Board.

Royal Colleges of Phybicians and Surgeons of Edburgh, and Faculty of Phybicians and Surgeons of Gl Gow. - At the April sittings of the examiners for the Triple Qu fication, held in Glasgow, the following candidates passed respective examinations :

First Examination.
W. P. Lonergan, F. Rawlings, junior, A. J. D. Reid. J. C. Ferguson, W. Davies, J. Suley-Wheeler, J. T. Mislop, and J. C. Sturdy, of the Glas
Medical School; C. F. Lester, of the Edinhurgh School; J. M'Cullor Medical School; C. F. Lester, of the Edinhurgh School; J. M'Cullor
of Queen's College, Belfast ; P.B. M'Loughlin and P. F. Godirey, of Dublin Medical School; W. Hamsay, of the Liverpool School.
Second Examination.
M. M. Campbell. J. Stecle, T. M•Milian, J. Smith, J. Kerr, of the Gins Medical Schonl: W. E. Tomme, F. F. Craster, and A. G. Ginders, of Edinburgh Medieal Sciool: J. W. Cuapman, of Queen'a College, Belf 1I. Stedman, Miami, U.S.A.; II. C. Panli, of the Leeds School; A. Bull of the London School.
Final Examination (and admitted L.R.C.I.Ed., L.R.C.S.Ed., L.F.P.S.Glasg.
C. Carruthers, E. Brooks, A. Nicholson. A. F. Crioan, D. Buchanan, J. Dr J. F. Fergua, M.A., A. A. Rumuatyme, R. W. Foberts, J. T. IIawortl Steele, and J. Kelly, all of the Glasgow Medical School ; C. F. de Mell, Bombay and Glaggow Schools: E. Carter, of the Iondun School; V Vanderstrasten, of Ceylon Medical College.

Soctett of Apothrcaries of London.- The following ent dates having passed the Qualifying Examination in Medic Surgery, and Midwifery have received certificates entitling thin to practise in the same, and have been admitted as Licentinter the Society.

Andrew. Bennet IIarvey, 33, Tyrwhitt Road. St. John's, S.I.
Cooke, Montague Percy, Fern Ilouse, Landkey, Barnstaple.
Eyton-Jones, John Arthur, Wrexham, North Walea
Goldamith Perry David, Campbellford, Ontario.
Macdonald, Isabella Macionald, Windmill House, Arbroath.
Merrall, Harry, 102, Victoria Terrace, Bury, Laucashirc.
Nall, Joseph, Whalev Bridge, near Stock port.
Nall, Joseph, Whalcy Bridge, near Stockport.
Reichardt, Ernest Noel, St. Bartholomev's Hospital
Valiatine, Thomas Ilarcourt Ambrose, Green Lane, Addestone. u ir-

The following candidates passed the Surgical portion of the imination,
W. Evans, of St. Bartholomew's Hospital ; B. P. Johnson, of the LiverpeoI School of Medicine; W. De la Motte. of the London ILospital ; J. S. Part, ol Westminster Hospital; P. de C. Potter, of Owens College, Manchester; J. A. Smith, of the Leeds School of Medicine; O. T. Stephenson, of the Liverpool School of Medicine.
The following candidates passed the Medical portion of the mination.
J. Brewn, of the Middlesex Hespltal ; J. M. Cochrane, Toronto; A. J. De Butte, of St. Mary's Hospital ; S. II. Seccombe, of Guy's Hospital. rimary Examination.-The following candidate passed the ale examination.
C. M. Given, of the Liverpoel School of Medicine.

The following candidate passed in Anatomy and Physiology. . P. M. Swales, of St. Bartholomew'e Hospital.
'he following candidates passed in Anatomy only.
P. Cadel, of Guy's Hospital ; J. M. Fry, of Westminater Hospital.

The tollowing candidates passed in Chemistry, Botany, and teria Medica.
E. Atkins, of St. Bartholomew's Hospital ; M. Massingham, of the Lenden Hospital ; J. T. R. Miller. of St. Themas's Hospital; W. L. G. Morgan, of St. Thomas's Hospital; II. B. Shillingford, of Guy's Hospital.

## MEDICAL VACANCIES.

he following Vacancies are announced:
SOATS HOSPITAL, Manchester.-Junior Visiting Surgeon. Salary, £60 per annum. Applications to the Henorary Secretary.
MINGHAM GENERAL DISPENSARY.-Resident Surgeon. Salary, £150. and $£ 30$ eztre for cab hire. Applications by May 10 th to A. Forrect, Eaq., Secretary.
OMSBURY DISPENSARY.-Physician. Applications by May 15 th to the Secretary.
STOL ROYAL INFIRMARY.-Honorary Assistant Physician (to out patients). Applications by May 5th to the Secretary.
AY DISPENSARY HOSPITAL.-Junior House-Surgeon. Salary, £60 per annum, with board and residence. Applications by May 5th to the Honorary Secretary.
JYDON GENERAL HOSPITAL.-House-Surgeon. Salary, $£ 100$ per annum, with beard and residence, increasing to $£ 120$. Applications by May 11 th to the Honorary Secretary.
RTEORD BRITISH HOSPITAL, Paris.-House-Surgeon. Applicailions to the Secretary, Rue de Villiers, Levallois, Paris.
LTWELL UNION, Whitford District.-Merical Officer and Public Vaccinator. Salary, \&42 per annum, and fees. Application by May loth to $\mathbf{P}$. Harding Roberts, Esq., Union Oftices, Holywell.
LYWELL UNION.-Medical Officer to the Workhouse. Salary, f40 per anuum. Applications by May 10th to P. Harding Roberts, lisq., Union Offices, 1 Holyw ll.
SPITAL FOR DISEASES OF THE THROAT, Golden Square.-Resident Medical Officer. Salary, $£ 50$ per annum, with beard and lodging. Applications by May 26 th to the Honorary Secretary.
SPITAL FOR EPILEPSY AND PARALYSIS, 132 , Portland Terrace, Regentia Park.-Assietant Physician and Registrar. Applications by May 14th to 11. H. Graham, Esq., Secretary.
NDON TEMPERANCE HOSPITAL.-Registrar and Chloroformist. Salary,
e50 per annum. Applications by May 5th to the Secretary.
NKWEARMOUTH DISPENSARY AND ACCIDENT HOME.- HeuseSurgeon. Salary, 880 per aunum, with board and ledging. Applications hy Say 5th to T. R. Blumer, Fiqq., Honorary Secretary, Avenue House, Honkwearmouth, Sunderland.
IIONAL LIING-IN HOSPITAL, Ifolles Street, Dublin.-Two Assistants to the Master. Applications to Ur. Roe, 13, Lower Fitzwilliam Street, or at the llospital.
WPORT AND COUNTY INFIRMARY.-Ilouse-Surgeon. Salary, £loo per annum with board and residence. Applications to J. K. Stone, Esq., The lafirmary, Newport, Men.
RTI STAFFORDSIIIRE INFIRMARY.-House Physician. Salary £100, with board, washing, and apartments. Applications by May 23rd to the Secretary.
RTH-WEST LONDON HOSPITAL, Kentish Town Road.-Senior Resident Medical Oficer. Applications by May 7th to the Secretary.
RISH OF BARNET, ETC. - Medical Officer of Ilealth. Salary, 8443 per annum. Applicatious by May 14th to II. M. Turner, Esq.。 66, High Street, Watford.
MISIL OF LOCHS, Stornoway.-Medical Officer. Saiary, £I 40 per annum, with free heuse. Applications by May 16th to Mr. II. M. L. Ross, Inspector of Poor, Lochs and Barvas.
Ial FREE HOSPITAL, Gray's Inn Road.-Assiclant Physician. Applicathens by May l6th to the Secretary.
YaL FRLE HOSPITAL, Gray'e Inn Road.-Assistant Surgeon. Applicatione by May Ibth to the Secretary.
YAL IIOSPITAL FOR DISFASES OF THE CHEST, Cit.g Road.-Junior House-Physictan. Salary, $£ 50$ per annum, with board and lodging. Applications by May 19th to the Secretary.
YAL SOUTH HANTS INFIRMARI, Southampton.-Assistant to HouseSurgeon. Board and residence. Applicatione by May 5th to Dr. Thomas, Anglesea Place, Southampton.
LMAN'S HOSPIXAL SOCIETY,-Vislting Physician. Applications by May 5th to P. Miohelh, Secretary, Seainan's Hoapital, Greenwich, S.B.

WARWICK COUNTY LUNATIC ASYLUM, Hatton, near Warwick,-Assistant Medical Officer. Salary, $£ 100$ per annum, with board, etc. Applications to the Superintendent.
WESTPORT UNION. - Medical Officer, Achill and Ballycroy Dispensary. Salary, £117 per annum and fees. Applications to Mr. John Corrgran, Honorary Secretary. Election on May 8 th.

## MEDICAL APPOINTMENTS.

Bailey T. Ridley, M.D.Bdin., reappointed Medical Officer of Health to the Bilston Urban Sanitary Authority.
Fox, F. L., M.R.C.S., appointed Senior House-Surgeon to the Stanley IIospital, Liverpool, viee G. P. Newbolt, M.B., M.R.C.S.
Gioninos, George T., M.B., M.R.C.S., appeinted House-Surgeon to the London Hospital, vice G. E. Haslip, M.R.C.S., L.R.C.P.
Manning, P., M.B., M.R.C.S., appointed Junior House-Surgeon to the Borough Hospital,' Birkenhead, vice H. Scurfield, M.B., C.M., resigned.
McLear, C.J. R., M.D.Edin., reappointed Medical Officer of Health to the Yeadon Urban Sanitary District.
Newbolt, G. P., F.R.C.S.Eng., M.B.Dur., late Senior House-Surgeon, Stanley Hospital, Liverpool, appointed Surgeon, No. 2 District, Manchester Ship Canal.
Pyle, W., M.B., C.M.Glas., appointed Medical Oficer to the Tarbat Parish, Ross-8hire.
Savery, Frank, M.R.C.S., L.R.C.P.Lond., appointed Senior Assistant HonseSurgeon to the Hull Royal Infirmary, vice W. F. Pedler, resigned.
Williams, W. G., M.R.O.S., appolated Junior House-Surgeon to the Stanley Hospital, Liverpool, vice A. Wood, M.B., C.M., resigned.

The New Laryngologicar Socrety.-The proposal to establish a society for the study of diseases of the throat and nose, to which we referred some time ago (Jotrnal, January 21st, p. 149), has been received with favour by members of the profession specially interested in these subjects. A preliminary meeting was held on April 27 th, at the rooms of the Medical Society, under the presidency of Dr. McNeill Whistler, to whose initiatire, seconded by the indefatigable efforts of Dr. R.A. Hayes, of Dublin, the society owes its existence. The following gentlemen, among others, were present: Drs. Whipham, Woakes, Prosser James, Dundas Grant, Gordon Holmes, J. W. Bond, Coleman Jewell, and Matheson, and Messrs. Lennox Browne, G. H. Bailey, W. R. H. Stewart, G. Stoker, and Arnold Woakes, of London; Mr. Cresswell Baber, of Brighton; Dr. Hanter Mackenzie, of Edinburgh ; and Dr. McIntyre, of Glasgow. Letters of apology were read from Mr. Sydney Jones and Dr. Norris Wolfenden. It was stated that there had already been fifty-one applications for original membership, the list including the names of nearly all the prominent laryngologists in Great Britain and lreland. It was unanimously resolred, that a "British Laryngological and Rhinological Association"should be established, and the first general meeting for the election of officers was fixed for Friday, June 29th. The acting Secretary, Dr. R. A. Hayes, 56 , Merrion Square South, Dublin, will be happy to give every information relative to the Association to any gentleman interested in it.

The Centenary of the Linnean Society.-The centenary of the Linnean Society will be celebrated on May 24 th. A eulogy will be pronounced on Linneus, by l'rofessor Fries, the present accupant of the Chair of Botany at Upsala; eulogies will also be pronounced on Robert Brown and George Bentham, both eminent botanists, by Sir Joseph Hooker and Mr. Thiselton Dyer respectively, and on Charles Darwin by Professor Flower. A Linnean gold medal will in future be presented for eminence in botany and zoology in alternate years. This year two medals will be presented to Sir J. Hooker and Sir Richard Owen respectively.

London Slums.-The report of the Mansion House Council on the Dwellings of the People presented at its last monthly meeting showed that action taken respecting several streets in the Shoreditch parish had been successful, and resulted in the almost entire remedy of the insanitary conditions reported, amounting to over 100. Action was also being instituted in regard to insanitary dwellings at Islington and Ifolborn. Upwards of £200 had been received in answer to the Lord Mayor's appeal, and it was hoped that the receipt of further donations would enable the operations of the Council to be extended.

St. Mary: Ilospital Medical School-Mr. John F. H. Broadbent, of IIertford College, Oxford, has been awarded a scholarship of $£ 50$ in classics: Mr. Price, of Pembroke College, Cambridge, a scholarship of $£ 50$ in mathematics.

An Open Space in the Citr.-The gardens skirting the moat of the Tower of London, between one and two acres in extent, have, through the instrumentality of the Metropolitan Public Gardens Association, been thrown open to the public.

Tife Lite Mr. Georaz Strior.- The death is announeed of Mr. George Sturge, of Woodthorpe, Sydenham, at the ripe age of ninety years. The deceased gentleman took a warm interest in hospitals, and showed his practical sympathy with them by liberally subseribing to their support. He not long since gave f4,000 to University College llospital, was a liberal supporter of the London Hospital, and had contrihuted largely to the NorthLastern llospitaI for Children. From its commencement, he substantially assisted the London Temperance IIospital. T'wo ycars ago he offered three prizes for the best essays on "The Causes of the Financial Depression in Ilospitals." Ile called attention to the variations in the expenditure on alcohol at the various gencral hospitals. IIe was the founder of the "Sturge Convalescent liome" at Folkestone, and was through a course of years engaged in the promotion and continuation of nuch eharitable and philanthropic work. Mr. George Sturge was connected by near relationship with that great philanthropist Joseph Sturge, of Birmingham, and was not distantly related to two or three members of the medical profession. ILe died, as he had lived, a member of the Society of Friends.
Suture of Wobnded Liver.-The Riforma Medica, of April 25th. states that Professor Postempski recently stitched up an incised wound of the liver. The operation, which is said to be the first of the kind ever performed, took place in the Ospedale della Consolazione at Rome on April 18th. The abdomen was opened, and the edges of the wound, which was situated in the left lohe, and which was seven centimètres in length and two in depth, were brought together with six eatgut sutures, applied by means of extremely the needles. The hremorrhage, which had been very free, was at once checked when the wound in the liver-substance was closed. On April 23 rd, four days after the operation, the patient's temperature was normal, and he mas doing well. Professor lostempski will publish the case in detail in due course.

As attempt to blow up with gunpowder a wooden structure intended for use as an isolation hospital at Trooper's Hill, St. George's, an extensive suburly of Bristol, was made on Sunday night. Yo patients had yet been sent there, and no great harm was done. There has been, it is stated, a strong prejudice against the use of the site (which was used as a children's playground) for the erection of the building.

Dr. Clemens Lozier, of the New York Medical College and Hospital for Women (of which she had been Dean since its estab)lishment in 1863), died recently from angina pectoris. She was the pioneer of the morement in America for the medical education of women, and also a leader in the female suffrage movement.

Tus London Gazette of Tueslay last announces that the Queen has been pleased to direct Letters Patent to be passed under the Great Seal of the Uuited Kingdom of Great Britain and Ireland granting the diguity of a Knight of the saiu United Kingdom unto John William Tyler, Esq., M.D., F.R.C.S., L.R.C.I'., L.M. and L.S.A.Lond., C.l.E.

Clonakilty Union.-The guardians last week passed a resolution alloring fis a year to the medical officer of the Hossearbery dispensary district for attending petty sessions at all prosecutions in vaccination and sanitary cases. "Dr. Bennett, of Clonakilty district, also receives the same sum for similar services.

Medical Honouns. - The name of Mr. Clarlea Williams, J.P. M.R.C.S., of Duffryn, the l'resident of the North Wales Branch appears in the London Gazette of April 2-th as a Deputy-Lieutenant for the commty of Merioneth.

The Medical Record (New lork) states that a Lill has been passed by the local legislature incorporating an institute for teaching "Christian Science"" which appears to be the same craze as faith-lealing.

The Vifnna Genfral Policlentc.-The Minister of Publie Instrnction of Austria, Ir. r. Gantseh, has given to the Vienna General I'olielinie a subvention of one thousand florins for the year 188.

Ar the beginning of the year, there were, according to the Australian Medical G'azette, sixty studtats attending the practice of the Prince Alfred Hospital, Sydney.
Ar the annnal festival of the King's College Ifospital, held on Mouday, April 30th, subscriptions amounting to $5: 200$ were anboluncerl.

Honours, to an Acstrifan Professor.-The Emperor Austria has conferred on IIofrath I'rofessor E. Briicke, Professor Physiology in the University of Vienna, the Order of $t$ "Ehrenzerichen für Kunst und Wissenschaft." This distincti was ereated by the Emperor only last year, and has hitlierto, far as medical men are concerned, been conferred only on IIytl

## MEETINGS OF SOCIETIES DURING TEE NEXT WEEK.

## MONDAY!'

Medical Society of London, 8.30 p.a.-Annual Oration, by Sir Joseph Fay, K.C.S.I.: The Natural History and Epidemiology of Chol to be followed by a Conversazione.
Odomtological 'Sochety of Great Britatn. 8 P.m.-Dr. Edward Bla On Dental Reflexes and Trophic Cbanges. Dr. Gearge Cunnl ham: On a Statiatical Inquiry as to the liesulta of the Immedi Treatment of Pulpless and Abscessed Teelh.

## TUESBAT.

Rófal Medtcal and Chimugical Soctrity, $8.30 \mathrm{p} . \mathrm{M}$.-Dr. C. Theodore liansy: On the Results of the Treatment of Pulmonary Conaus thon by Residence at High Altitndes, as exemplified by Analysis of 141 Cases. Dr. Percy Kidu and Mr. H. H. Tayl On the Value of the Tubercle Baiillus in Olinital Diagnosis.

## WEDNESDAY.

British Gix.ecological Sooietr, 8.30 P.m.-Specimens will be exhibited Dr. G. Granville Bantock, Dr. Bedford Fenwick, Mr. Law Tait, and others. Mr: Bland Sutton : On Dermoid Tumo Dr. Richard T. Smith : Cystic Disease of the Cervix and ki metrium.
Epidfmiological Society of Losdon, 8 p.at.-Election of Office-Besrers. B. A. Whitelegge: Age, Sex, and Season in relation to Sca Fever.
Roral Microscopical Societt, 8 p.m.-Dr. A. C. Stokes: New Infus Flagellata from American Fresh Waters.

## FRIDAY.

Clinical Societr of Londow, 8 p.ar.-Mr. Charters Symmits: Case of Rup of the Urinary Bladder, in which the Rent was Sutured, de If. Hall : The Lacal Application of Cocaine in Acute Pal ehymatous Tonsillitis. Dr. Percy Kidd: A Case of Comp Bilateral Paralysis of the Vocal Cords the Resull of Ac Laryngitis. Mr. Thomas Nunn: Necrosis of the Great Corn' Hyoid Bone.

BIRTHS, MARRLAGES, AND DEATHS.
The charge for inserting announcements of Births, Marricages, and Deaths is Ss. which should be forwarded in stamps with the annowscement. BIRTH,
Wallefr-On April 2 ith, at Weston Lodge, I6, Grore Find load, the wifi Dr. Angustus Waller, of a son.

## MARRIAGES.

Hamiluon-Bodivgton-On April 10th, at St. James'a Church, Vancou British Colnmbia, by the Rev. H. Edwardes, Lauchlan Alexander Ifamil D.L.S., of Windipeg. Manitoba, Lanif Commissioner of the Cana Pacilic Railwry, to Constance Eaton, daughter of George Fowler Boding M.D., M.R.C.P.Lond., F.R.C.S.Eng., of the City of Vancouver, B.C.

Parry-Howela.-On April 19th, at St. Mary's Church, New Walsingb Nortolk, by the Rev. G. K. Woodwart, assisted by the kev. E. F. Nor George Hales Parry, L.R.C.P. M.R.C.S., L. S.A.. of Docking, Flore second son of George Parri, M.R.C.S., L.S.A.G Docking. 20 Sarah only daughter of James Howell, Esq.. New Walsingham, Norfolk.
Smith-Pickerimg.-On April 27th, at the charch of SS. Philip and Jas Cheltenham, by the Rev. W. If. IIutchinson, rural dean, assisted by, Chev. Peicival Smith, brother of the bridegroom, Montaku H.R.C.S.Fing., of 26, Park Place, Cheltenham, son of the Iev. T. Smilt M.R.C.S.Fng.. Ot 20, Fark Pare, to Ethel, Foungest daughter of the Her. Edward Jickering, chaplain of Port Elizabeth, Sontli Africa.

## LeTTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Communications respecting editorial matters should be adidressed tol he Bdy 429. Strand, W.C., Loudon; those concerning business mattera, uonde of the Jourval, etc., should be audressed to the Manager, at the Omee Strand, W. O. London.
Is order to avold delay, it is particularly requested that all letters of N order to avold delay, it is particuiarly requesid Fditor at the oftioc editorial business of the Journal. be add
Jounval, and nat to his private honse.
Authors desiring reprints of their articles published in the Britas whe
Jounkal., are requested to conmunicate beforehand with the Manager Journai, are requested to commonicate beforehand with the Manm Strand, W.O.
Corresponnexts who whis notice to be taken of their mommunimations, ni authenticate them with their namea-of course not necessarily for publick CORRESPOMnFMTS not anawered are requested to lwok to the Notices to apondents of the following week.
gpondents of the following to the Office of this Jouraal canvot unde AYUsOMIPTS FOANAR RETURNEI
OIRCUMSTAYCFA BR RFTURNBD. WC ahall be much obliged to Medical Of:r Publio HRALTH Dhpartment. - We ahall be much obligod to bevical of of Health if they will, on
us whth Duplicate Copies.

## QCERIES.

Formila Wasten.
USTAY Doctor writes: Woald any of your readers be good cnough to give ne a rexipe for an "alkaline mixture," containing sodze bicarb., ammon arb, ziukiber, etc., concentrated so that an onnce added to seven ounces of vater would form an sgreeable mixture?

Practice in Spain.
RIPATFTIC PHYsICIAN would be glad if any member eould give him informaion with regard to the permission to practise in Spanish possessions. Wonld bligatory?

Medical Bookteeping.
B. and C. .I. asks to be recommended an easy and simple ${ }^{\text {Fet }}$ of "books for ledical bookkeeping

ANSTEERS.

## 2. D.-Quite correct.

## Avera.

W. Asprisll writes: In answer to a question by a member in the OHRSAL of April 28th, 1883, respecting "Aveoa," your correspondent ill find there are many varieties, the chief of which are: Avena sativa alba white oat; arena satira nigra, or black oat; avena nuda, or naked oat; grain formerly used to feed borses. There is another vegetable of the same ass, called avena strigosa, or thistle-pointed oat, or Spanish oat; an annnal und in corn tields. All these varieties were formerly used amongst the siek, it it is scarcely medicinal. I have never before heard of avena being preribed in epilepsy.

## PERSISTEXT Mamsing

Hexry Sutherland (Whitehall) writes : If your correspondent, " Ubique, ill consider what yawning is due to, he will not be long in finding remedies - its cure. Yawoing is caused by an accumulation of carbonic acd gas io te blood of the lungs, which is the result. of neglect on the part of the subct to assist Nature in her efforts to properly oxygenate the vital fluid ence a rellex and spasmodic attempt by a prolonged but unoatural inspiraoa to do the work which ought to be done by the respiratory muscles of ie chest.
Llis patient ia a middle-agred lady, one of a class and at a tirue of life when ercise is habitualls avoided. If sbe will take a brisk walk for an hour or o every day, and also make use of free exercises which tead to expand the io every day, and also make use of aoon cease to complain of this troublesome affection.

## Menico-Parlianextary Subiects.

Grorge Cordwent (Milverton) writes: Several questions raised and scussed at the recent meeting of the Parlamentary Bills Committee, invite iticism. Permit me space to direct attention to two of them.
In what consists the necessity of a medical coroner appointing a lawyer as s deputy ? A coroner and his cleputr do not sit at the bame inqnest. The $w$ of coroner is so little complex in its points of statute law, that a reasonle and cultured mind can have no difficulty, so far as those are involved in ch inquiries as come within his affice; on the other hand, most of those iniries present features demanding much pathological knowledge in the roner, some chemical koowledge atso; by these only in oceasional cases n essential evidence be brouglit out before the jary; the causes of death a best be inquired into of course by those who lest know the laws of orgaic What laryer, as such, conld, as readily as a medical man, canse to be reloper essential evidence in death doubttul as cansed by apoplexy or relnped essential evidence in death doubttu as cansed by apoplexy or ryer would not unfavourably compare with a medical coroner in inquiry as culpable interference or attributed neglect in a case of fatal child-birth? dical evideace would be called certainly, and may be duplicated, but thal the coroner should be as fully able to appreciate the evidence if conting, as shonld a law judge be able to appreciate points of law, aud iny h viers distinctly ant fairly before the jury. In cases of questionable ise of death, will the public be content to depute decision to an iodividual, will it still be preferred to retain an nnimpeabable mode by jury whieh 3 retained its public sanction anore tham one thons:nd years? And now, ere representative elections are more than ever promoted by the Governnt, and suited to popular taste, will freelsolders be content to be deprived their longest traditional right and a nominee of the Crown appoint their gratory magistrate, who ought to he familiar with the habits of the people his alstrict, and whose duty it is to iaquire whether a death among them ; occurred by fair or felonious means? That post-mortem examinations uld be more completely done than has been frequent is evident, but as tevil is markedly lesseming it wonld be insmiting to supersede the pracener in altendance, ind onerions lability to be called any day to xive precise evidence on a point of iscions liability to be called any ay ato xive precise evinence on a point of 1 never submit for inquests to be burdened with the furt ber expense of It an anumaly. How" can a medical coroner be other than an "assessor? i court is a court of inquiry, not of prosecution: he sits to develop apetent evidence, or secs that it is done, and is himself essentially an essor.
am past any persoual interest in this matter, and to that extent hare advantage not possessed, I fincy by many experimental legislators. I ald add that, in my experience, the attributed want of competence in in. ist juries has now bccome a buffoon tradition ; if errors occasionally oceur y are not more Irequent than those which happen in the higher courts of , as shown by daily applications for amended trials.
a regard to alarmist views as to spread of discase by perannal propagation, ald it not be of vast individual and commercial service belore proceeding ther with an effort towards penaltics, if we endcavoured to find out someag more definite than our preseut shipshod acceptance of spreat of epiies hy propagation from person to person, by whiels preconceived admis1 we less industriously seek a probably more frequent cause. Till recently llera was thonght infectious, 80 diphtheria; yet if it he so by possible inlation, I am certain instances of this must be extremely rare: every caso he many I have aeen has occurred in childbood or quite sonng adnlis, and origin has clearly been due to intense or continued exposure to privy gas,
if such a phrase tuay be ufed for distiaction. Is roseola infections? Istrpboid fever infectious? And if rubeola be doubtfully so, the first two cases in a rural distriet are often miles apart, and this, as other epidemics, oftea ubsides even district are ofter miles apart, and this, as other epidemics, ofteo absides even
more quickly than it invades. I have reen reveral casea of endemic amsilmore quickly than it invades. I have reen reveral cases of eademie amail-
pox refnsing as it were to propagate. A cosmic canse must give a condition esseatial to the epeed of an epidemic, ly intensifying or elaborating preexisting elemeuts. If this be true or approachea trnth, ought we not to molify our views iu regard to spread of epidemics hy personal propagatiou.

## NOTES, LETTERS, ETC.

## homeopateic Formelarirs.

Dr. F. A. Castle (Editor of the American Drugyist, and member of the Committee of Revision and Preparation of the Pharmacopaia of the United States of America) writes: In the Jourwis of March 10th, p. 545, you comment upoo a recently published report of The Temperance Hospital, for $1886-8 \%$.
The existence of this institntion has long been kaown on this side of the The existence of this institntion has lang been kaown on this side of the ocean, and there has been a justly general desire for information respection the forms adopted Ior the administ ration of medicinea which
I have several tinies addressed letters of ioquiry to the hospital, requesting information on this subject but, thus far, have never been davoured with an answer. Can you give any ioformation on this subject?

You areaware, of course, that alcohol is the menstruum for a very large proportion of the drngs used in medicine, and tinctures, fluid extracts, and wines would appear to be almost indispensable. If, however, the managers of the Temperance Hospital have succeeded in preparing a special pharmacopeeia or formulary in which alcolsol is replaced by something equally servictable, they would be doing something which would give very general satisfactiou in makiog their formulary more pnblic.
*** We believe that the tiactures at the Temperance Ifospital are prepaned with glycerine instead of alcohol in some such proportion ss 1 in 3. As, however, we hare no authentic information, we can only agree with Dr. Castle. that an autboritative statement of the precise form of the various oon-alcoholic preparations in use at this hosnital is greatly to be desired.

## a Case of Distress.

Donations receired since April 17 th .
Arthur E. Durham, Esq.
Dr. F. de Havilland Hali

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G. Bveritt Norton Fsq
£ s. d. Dr. F. de Havilland Hali … i 1 i 0 J. E. Kienyon, Esq., Bradiord or 1000 eired bv Dr. G. C. Jonson, 16, South Eaton Place, S.JF., or by Dr. Johy Mr. Brigbt, Forest Hill, S.E.

The Clifton Lusiacy Case.
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Prowse, A. B. M.D. $\quad$.. 1 W. H. HARSAKT, Honorary Secretaries.

Placenta Prefia.
Mr. 'W. M. Kype (Melbonrne, Derbrshire)writes: The following note of a few cases of placenta prasia may be interesting. 1. Primpara, strong pains, violent hæmorrhage, but labour over in a few minutes, the placenta being expelled with child; good recovery. 2. Second labour, patieut phthisical, repeated hamorrhage turning easily performed, child expelled after three quarters of an bour, aod placenta twenty minutes afterwards; atony of uterns and dralning bomorphage, in spite of every effort, uterus relaxing repeatedly, and death nine hours after the flooding ceased. 3. Multipara, tnroing, good recovery. A Separation of placeata round cervical zone failed to arrest lisemorrhage and Surning successful recorery. Several cases of partial placenta prievia also turning, successfnl recovery. Several cases of partial piacent meftore os is trested b
dilated.
Dr. C. R. Drofessor Verievil ox the Catsation or Seqior Phrsician Metropolitan Ilospital of Iondon writea: In a debate upou cancer in the Jocksal af April ith. 1'rolessor Terneuil is reported to have quoted with approval the resmits of some statistics collected br M. Reclns, which showed that catcer was all but unknown among perons whose food was exclnsively regelable. Ife also mentioned among perse ins inteme in Lisfranc's wards in Is44. there were nothing like the number of cases of caccer in the same number of patients as thero are at the number of cases of caace that there were four times sa many cases a preseat in his wards; indeed. that there were four inmes alernany cases of cancer now as there were forty years ago. This Professor
largely to the carairorous dict of the present genestinguished and learned sur geon as M. Verneuil deserves the greatest attention. Is there not, however, another reasou why cancer is far more fatal now than it was forty years ngo, and another reason why so great a celebrity as 3 . Vernenil sces mon of it it his mards? In 1814, in London the death-rate was 24 per 1. Mo, and now it is 19.9 rud a similar falling off in the death-rate has taken place in France 19.9 , mat a United Kingdom. Hence France, iu modern days, contains far more elderly people than she did forts rears ago; and as cancer is rare in youth, may not this acconnt more easily than the regetable diet hypothesis "Tor the greater proportion of lue cases seen by M. Vernenil than Iormerly
Again, the learned professor is so well known aod appreciated as the light of Freach surgery, that, in these days of railways. persous in the prosinces can far more easily hetake themselies to Paris than they could in former days. France. I have said, has the most adult population in Europe; out of days. France, I have said, has the most adult population ages of 30 and 40 ,


 (r)intry.





CRACKIN: ofy a liLy

DR. T. Sivctuary (liensington) writes: ln sour report of the meeling of the
 a case of perforatiom of the eycloall by the knot of a whip, nssicused as a reason for the flequelmemt of thas kiot from the lash that "the thong han become huntent." I do mot think this solntion of the thecident is the right one: sum njthoumb ir is lum a snall point, I venture to sugigeat that the knot flew off win Aconith of thi hali being so sharyly curvedinorder to produce the "crack" wif the whil?

An analugnis thing frequently lappens in fly fishing and was mueh comnumar beiore "'sel honks mine into vogme for artitheinl fles; in this cas there is erprtaluly no lipating, for in the majority of instances the fly is only jugt out of the cosl water, arm the mase of the fly "cracking "off is that the lime is returned tou smbilen! yrom the backwnel cast, thereby allowing it to make masemte ample with the line iustead of an easy mirve. And that this shoutt hipuph more freguently with catent than whiplash is explained by the fact of the conupanative brittleness of the former. Perlaps Mr. Mulke or Mr. Pridgin Teale eonla give their practical experience on this point.

As an illustration of the froree with which n liy "crarked off" in this way gres through the aib after its separatiou, I may mention a fact which oc-
 (not properiv suaked provions to using) enveked off and went thronghaglass
 the wimens without being detached from the line ; it must lave travelled
nearly tin yarls after separating botore it smashed the ghass, and it was pheked up on the floor of the roons subsequent! just as the knot of the whipjasll was fouma in the eyebnall.
Thas unique case is the more interesting to me personally as it necurreat whilst I was artimg m": mélecth en cher" to the IIppotrome at Olviniz: and berans" I sent it on to Mr. Dum for the operation which he so successfully performurl.
MR. F. W', Jowsnes (Jiverponl) writes: Now that the Oaths Bill has been introblued into the Ilouse of Commons, would it not be a favourable opportunity for effecting a reform in the manner of toking the oath? Fsen should the Bill jass, as somms cortain, there are many witnesses, medical and lay, as well as jurors and huiliffs, who will still feel bound to take the cath, in pres ference to making an affirmalion.

In all parts of the United Kingiom except Scotlami nnd (I believe) the Channel Islancls, the oath is administered to the witness by the eoroner, or in all other courts by an officer appointed for the purpose who repeats the form of worls, the withess being required to place to lis lips a cois of the New or ofit Testament: the only exceptions being Qinkers, who are permitted to atimm. This" kissingthe book, as it is malled, is, to say the very least, a disagreable mode of being sworn, from which niany would be glat to be re lieved. When regard is had to the ver varial ciasses of the wituesses, who arp all sworn upon the same book, this feeling of the clisagrecable is considerably enlanced. Nor loes it require any great stretel of lhe imagination to suppose that this mor?e of swearing, or taking the oath, may be a possible and sery probable source of infection. What is more probable than that a wituess or juror should lave conve from a house in winch one of its inhabitants was affecterl with fer're? Again (though l hardly like to suggest it), might not syplillis be convesed in this way? If the latter may be communicated hy kissing, by using n tobacco- or blow-pipe in common, of whin? we have absolute proof, thls hanulling ansl kissing of a book incliscriminately appears to me to be a perfectis possible means of contagion. Even kissing the apen book loes not remove the objectlon.
In Scotland the oath is given in each witness in a manner free from any such objections. The witness holds up his right hand ant repeats the form of nath after the juilge, No witness is requirel to kiss the book, and one is only used in the cwse of Roman Catholics, who loold the finger and thumb upon a cross made on it, while repeating the form, It appears to nevery resimable to substitute nt least a monlilication of the Scoteh form of oath for that now in use in binglana. The holding up of the right hamdand the rejetition of the oath lis mach witness is more impressive, nual free from any olijes tion. A very short clanse in the Act would suffice to ensure this, and woml facilitatu molier $t$ lan retaril its passing. I lave surgested it to two number of thu llouse of Cummons, im if nery associate who turpes with me will usi hif intluenco with ofler members, this much-meded riform, even if it be not -ffecterl, will at least receive some of the attent lon it slesertes.

## OOMMUNICATIONS, LRTTERS, etc, hare been recelved from

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# REMARKS <br> ${ }^{\text {os }}$ <br> THE ELECTRICAL TREATMENT OF DISEASES OF THE UTERUS. 

Read before the Brighton and Sussex Medico-Chirurgical Society.

By Sir T'. SPENCER WELLS, Bart., F.R.C.S.,
Surgeon to the Queen's Household.
I HAYE had, perhaps, a longer and more raried experience than most men in dealing with uterine diseases, especially those which are characterised by overgrowth. I have so constantly had to egret the inefficacy of medical treatment ; and the results of zurgical operations, though sometimes brilliant, have often come so short of $m y$ desires that 1 have for many years past fallen into a rame of mind readily disposed to listen to any suggestion of a node of treatment which offered a reasonable chance of success, ind avoided the risks and perils attending the bolder practice. so, when reports reached me from Paris of what Dr. Apostoli was ;eaching and doing, they came with a welcome ring.
Electro-therapeutics were no novelty to me. More than thirty years ago I liad put galranism to the test, and had gathered in parious ways evidence of its potency both in destroying and epairing tissues. What I had learned of the treatment of nicers jy galvanism was published in 1849 by Golding-Bird, and may still be read in an appendix to his book; but his son and Mr. Yunn are the only surgeons, so far as I know, who have made nuch use of the practice.
Not long afterwards I tried the galvanic stem pessaries of simpson in amenorrliœe, and have used them until now with ccasional good result. I knew also what Radford had done with galvanism in the treatment of uterine hrmorrhage, and what Simpson had taught as to the influence of galvanism on uterine contraction in labour. I have repeatedly made use of the galvanic autery in various ways, and have rery often remored masses of pithelioma, or the cervix uteri itself, by a platinum wire heated by a battery and used as an écraseur, with very satisfactory results. Quite recently, with Dr. Goddard, of Highbury, I removed a cervix ateri without the loss of one drop of blood. My attention was later on attracted to the electrical work of the French and American surgeons in reference to fibroid tumours of the uterus. This was so little satisfactory that it dropped ont of notice. Our English experiments were not soore encouraging, and surgical enterprise seemed destined to throw into the shade all less lazzling endeavours.
In the meantime, taking up the idea of the wonderful influence of galvanism upon the nutrition of tissues, Apostoli was unobtrusively resolving the problem of its right application in the treatment of abuormal growths and exudations. His published jbservations were so interesting, and the reports of eje-witnesses were so confirmatory, that in the autumn of 1886 I determined to see and judge for myself. I went to Paris, and was received frankly and cordially. Dr. Apostoli explained to me his views, and demonstrated his mode of procedure. He threw open the records of his daily practice, and gave me the opportunity of verifying his diagnosis, and witnessing his treatment of the cases 2ctually under his care. Besides this, he mustered for my inspeclion about sixty of the patients who lad passed through his hands. I lieard many of their histories in their own words, and conld contrast for myself their actual condition of good health ind activity with the symptoms reported in the early notes of their attendanee, and the deformity represented in the plaster sasts of their bodies, taken beforo the tumours had been influenced by the galranic current. I speut many laborious hours in what I may say was a rigidly sceptical examination of the evidence before me, seeking for weak points in the system and the resolution of heoretical objections.

The conviction was irresistible that, though the method might aot have reached its point of perfection, the work, so far as it went, was good. If the women were not radically dispossessed of
their tumours, they were symptomatically cured. Jothing but prejudice could have turned the back upon the facts; and it would hare been unjust not to put the matter to further proof. This I bave unhesitatingly done. If I have hitherto been silent, it was becanse I did not wish to prejudge the case. But I have not been inactire, for I wished that if the utility of the method could be made as manifest here as elsewhere, it should be advocated impartially, and presented to the profession upon reasonable grounds.
The uterine diseases which come under Dr. Apostoli's care range through all degrees of fibroid derelopment. He has to deal, as we all do, with simple cases of sub-involution, general hypertrophy of the organ, with metritic deposits all round, polypoid excrescences in the cavity, thickening, more or less irregular, of the walls, and sub-peritoneal outgrowths expanding into abdominal tumours. I'ractically all these cases group themselves into two classes: first, those which give no trouble and may be left alone; and secondly, those which threaten health and life by loss of blood, or, by mechanically interfering with the organic functions, caust a multiform series of distressing symptoms.

In the treatment of these conditions, instead of scraping and cauterising the cavity with a curette, or caustics, or fire, Apostoli does the same thing with a pole of the galvanic battery. We give ergot, or mercury, or iodine, or bromine in the hope of altering the nutrition of the diseased mass; he sends a disintegrating current through it. We castrate to cut short a woman's sexual existence; he seeks to quiet down neurotic sensibility, and induce regularity of ovarian function. Where we proceed to a root and branch extermination, he proposes a denutritive paralysis of the uterine substance. Time will show whether, and how far, he surpasses us in his results.
But the novelty at present is not so much in the fact of electricity being used, as in the mode of using it. Others liave tried the same means, but not in the same way; former methods were uncertain, dangerous, and insufficient. The point that Dr. Apostoli has arrived at is this: he has studied the effect that certain currents will produce, he measures the intensity of those currents, and he has found the means of safely directing them, of proper force, through the diseased tissues, to ensure the partial if not complete disorganisation of these tissues with the desired coincident relief of suffering, and often with restoration of general health.

It is the continuous galvanic current which is generally brought into action. For this purpose the operator must be provided with au apparatus which will guarantee lim an unfailing current of at least 250 milliampères, or electro-therapeutic units. I may say, in passing, that it may probahly be found convenient to speak of milliamperes as "units" of current strength-10, 20 , or 60 milliampères, for example-would be 10,20 , or 60 units. In practice at the hospital or the surgeon's residence a battery of Leclanche cells answers admirably., It is enduring and easily manageable. For work at the patient's home a portable battery of the bisulphate of mercury is convenient, but it requires great care and frequent renewal. An indispensable accessory is the galvanometer. With a fractional deviation it gives a measure of the intensity of the current passing. The graduation should rise to 250 mits or milliampères, though this intensity is rarely wanted. Before every operation the perfect working order of hattery, galvanometer, and conducting wires should be ascertained. As it is a characteristic point in the Apostoli practice that the galvanic current should be carried either into the cavity of the uterus or into the substance of the tumour, appropriate sounds and trocars are essential. To aroid loss of power by action on the metal, the sounds are made of platinum. For punctures with a necrative current stecl trocars are equally good, but when it is intended to transmit a positive current, a certain length of the sharp end of the trocar mnst be of gold. All that portion of the sonnds and trocars passing througli the vagina from the handle of the instrument to the mouth of the uterus or point of puncture must be insulated. Before every examination or operation the closest attentiou slould be given to nntiseptic precantions, both as regards the patient, the operator, and the instruments. During the whole course of the treatment raginal irrigations, with sublimate or phenol, are never to be neglected.

The labours of Apostoli have expanded and given a definiteness to our knowledge of the special power of galranic currents in the treatment of uterine disenses, and of the mode of applying the currents in a way which I may thus resume.

In the first place, we have learnt from lim better to under-
stund the double action of the uninterrupted, contimuous, galvanic currant. The one action is purely local, and coincident with the thow: the tissues immediately in contact with the pole which delivers it are decomposed; thie hases and acids of the substances and thads acted upon we set free, and, according to their nature, produce chuterisation of the surrounding parts, independent of auy thermic inlluence. This effect is local, immediate, and risible. The secom action is due to the interpolar passage of the current. It is a trophic action inthencing the nerves, vessels, and lyonhatics, followed by molecular changes, so as to modify than mitrition of the tissues throngh which the current goes, and varying according to the pole employed. The effect of the direct and of the secondary counter-current is chrable, and, whatever may be our interpretation of it, it is remedially of far more importance than the mere galsano-chemical cauterisation.

Secondly, though the congulating power of the current passing from the positive pole was kiown from the writings of Ciniselli and .1. Tripier, we have had disclosed much more since as to the distinctive character of the action of the currents from the two opposite poles. It was with the positive current that Apostoli begran his attack ipon nterine tibroids, because of the more striking nature ol the hamorrhagic symptoms, and it was the speedy relief of this grave trouble by the production of a hard, dry eschar, and resisting cicatrix, which encouraged him to persevere. The eschar resulting from the alkaline caustic action at the negat tive pole is just the contrary, softening and liquefying, and tending to promote discharge and hremorrhage. Logically enough, its dissolvent powers' were applied to the opposite class'of cases, where there was no hemorrhage, and the object was rather to reduce the bulk and solidity of compact masses of fibroid material. Experience has proved this to be as good in practice as in principle. The josilive pole is therefore designated as "anti-hemorrhagic " or "hemostatic," while the words "hemorrhagic" or "denutritive" are applied to the negative pole."
Thiclly, Apostoli has taught us a mueb more satisfactory way of utilising these currents in uterine diseases. His predecessors had used currents which were generally uncalculated and ineffective. They were often not strong enough to do much good, yet at other times sufticient to bring about mischievous results: They were brought into play in an ill-judged fashion, and, when nsed by means of pmeture, the punctures were made throngh parts which ought to have been left untouched. Now the operation is performed under such control as to be a matter of measurable certainty. A strong and regular current is at command. By neans of the galvanometer a knowledge of the exact intensity of the current employed is insured. The dosage can be regulated in proportion to the cauterising and trophic effects considered necessary. A current of high intensity can he made to traverse the tissues inoffensively, and brought out through the abdominal integuments in a dispersed fashon, without more than a temporary hinsh, and made to complete the circuit through the cutaneous Aectrode imbedded in wet clay. Than this clay nothing as jet has bren found moro effertual. Then, by insisting upon the intra-nterime introduction of the current by means of the uterine soumd, or its direct interstitial application through the inattackable frocar, a certainty of action is obtained which was otherwise out of reach. The whole performance is thus strictly at the will and unler the control of the operator, who, granted his mastership, wants no other guide either as to the dosage, direction, or duration of the current than the facial expression of the patient, no her theclaration of tolerance.

Ponirthly, other important points upon which we have clear and Iffinite information are the modifications which this treatment requircs apcording to the varying nature of the cases, and the succrasively changing circumstances of each case as the treatment is going on. and the wide range of uterine affections to which it is aduptable. firm a tumour and a current, there is no such thingas reciprocal automatic action. At every step of the process of cure, deliheration, judgment, and promptitude of resource are challenged. One day there is an unaccountable power of endurancer, another an exaggerated sensibility, one day a perplexing structural resistance, another an easy flow of current, all which have to the taken cognisance of, and throw an ever-recurring struin upen the mindfulness of the surgeon, enough to batle hook-guileal novices, and make inestimally valuable the more than five yars' experience to which we can recur for counsel. A fielef, ton, is operned ul) for exploration among the infinitely multiform preantations of disease of the female generative organs, untraversable by the limited powers of any one man, but to

Which Apostoli has pointed the way. This will be the work of the coming generation.

Lastly, there are several interesting questions upon which the work of Apostoli has thrown a new ray of light, such as the dangers and diticulties of the procedures; their being a cause, or the reverse, of subsequent sterility; the practicability of applying the treatment in cases where the uterus is impenetrable! the permanence of the benefits derived from the treatment in the mitigation of the symptoms and the reduction of the tumours; the relation of the menopanse to the production or dispersion of fibroid enlargements. It would take up too much of your time il 1 were to consider these in detail, and it is needless, as Apostol himself is here, on the invitation of your President, to give any required information.

But, admit that there may be danger in treating our patients by electricity: Is this a reason for rejecting it? What surgica operation is, free from risk? Would common sense sanction ous leaving disease alone till science has reached completion and skil infallibility? The danger lies not in the method but with the operator, and the moral is, that no man should undertake thi work till be has qualified himself to do it well.
Then, as to the permanence of cure, where cure there has been one can only say that though five years and a half is but a shor term to form estimates upon, when we are assured that during that time the return of symptoms, or the necessity for furthe: measures has been quite exceptional, it augurs well for the future and the objection of the possibility of relapse becomes of little weight.
Again, when Apostoli tells us that some of his patients now under treatment are women in whom the tumour developed afte the menopause, no trace of such a growth having previousl? existed, what are we to say to the principle of Hegar's operation To say the least, it would limit castration in the treatment 0 uterine disease to the cases where loss of blood is the prominen symptom in younger women. I night go on much further, but think I have said enough to show that whatever may be, or ma: not be, the merits of Apostoli's method, we have made since $1 i$ began lis work' a distinct scientific advance. And coupling th specific' information we have thus acquired with our previou diagnostic tact and pathological exactitude, it appears to me tha we are in a better position, even supposing that circumstance Winder the personal practice of the method, not only to discus the abstract principles upon which it is based, but as consultant to pronounce upon its respective applicability to the cases sul mitted for our opinion.
There are conditions of fibroid tumours in which it' would seen to me almost idle to suggest electricity: A polypoid growth fror the mucous surface of the uterus projecting into the cavity, 0 perhaps through the os, can be so easily and expeditiously takei away that I should not think of any slow or gradual proces: Neither does it appear very probable that a subperitoneal out growth from the body or fundus of the uterus could be in an great degree affected by any current that could be made to reac it. Myomotomy would be the work of minutes, and the ris scarcely worth mentioning. Even large solid tumours, the re moval of which means the removal of a great.part of the utern have been successfully removed by me and by others, and succes has increased with experience. But the risk must be alway great, and there are tumours so large, or with such intimate con nections, that po prudent surgeon would meddle with then Here, surely, is the occasion for the electrician to show h power. His methorl is a new resource for a desperate condition and shonld be welcomed as snch. It has been successful in suc cases, if not completely so yet to a degree which, has rendere life enjoyable. No weak prejudice should stand in the way of $r$ commending a trial under experienced guidance.
Where the object is mainly to suppress hæmorrhages, electrica treatment has decided advantages over other practices. Shoul the tumour be growing, but not adranced beyond the limits, reasonable surgical interference, balancing the comparative risk, should be disposed to put the matter to the test; since in case ( failure, the more hazardous operation of removal can still he don In my opinion, with the option before her, it would be neithi wise nor charitable to give a patient strong advice in favour ( an immediate cutting operation.
Experience seems to show that there is a group of case numerous as they are troublesome, of chronic metritis with el largement and surrounding deposits, which may be cited as pri eminently eligible for electric treatment. They are, as regar
the patient, painful and exhausting. Tho the judicious surgeon they are exasperating by their rebelliousness, and in some rash liands they have opened the way to practice more lamentable than the disease." It will be one of the crowning merits of electro-thernpeutics if proved to be equal to bring relief to these patients. Recent reporta give good reason to hope that this eud may be realised by a careful use of the positive galvanopuncture.

We have not, I am inclined to think, taken heed enough of the work of Tripier and Apostoli in reference to various disordered states of the uterine appendages. - The soothing effect of the raginal or uterine bipolar application of the induced current in some distressing forms of orarian neuralgia and vaginismus is said to be marvellous and enduring.

As a last word, 1 may say that we are face to face with an important revical; and though some American surgeons have gone before $u s$ in its acceptance, nowhere more than in our own country has there been shown an open-minded readiness to weigh fairly all the evidence which Dr. Apostoli has to set forth in support of his system.

In London we liave lieard, through the medical journals, of some failures, of one death, and of more than one accident, probably due to the inexperience of the practitioners. But we have far more encouraging reports from Edinburgh: and if some member of this Society who combines sufficient knowledge of electrical science with practical experience of the diagnosis of uterine diseases, and of the treatment by other methods, will carefully put to practical test the conclusions alrendy arrived at by Dr. Apostoli, I am very hopeful that the result will not be disappointing.

## THE ELECTROLYSIS OF FIBROIDS.

By W. E. Steavenson, M.D.Cantab., M.r.C.P.,
In charge of the Electrical Department at St. Bartholomew's Hospital ;
Physician to the Grosvenor Hospital for Women and Children.

Weat takes place when an electric current is passed through a flbroid tumour? 'Does any change take place in the substance of the tumour or only at the points of application of the electrodes? In interesting paper on this subject was read by Dr. J. Inglis Parsons before the British Gynacological Society on March 14th and 28 th of this year. The human body contains about fifteen lements combined in different proportiona to form the several issues. These elements, arranged in an electro-chemical series, tre as follows:


Sut each element in the series is electro-negative to the one which follows it, and electro-positive to the one which presedes it.
In the electrolysis of animal tissues the electro-negative elenents are freed or appear at the positive electrode forming at, mee new chemical compounds, and the electro-positive elements tre liberated or undergo similar recombinations at the negative lectrode.
It wonld require a most accomplished analytical cliemist to lecide what actual changes take place at the relative poles, but rhat we know is that oxygen and chlorine are liberated at the rasitive pole and give an acid reaction; and that potash and soda reformed, and hydrogen liberated, at the negntive pole. Some f the most likely hodies to be found in the sibbstance composing fibroid tumour are: Albumen, which contains C II N S O; nucin $52.2,117.0,112.6,028.2$ per cent.); gelatine (C 50.4, II 6.8 . i $18.3, \mathrm{~S}+\mathrm{O} 24.5$ per cent.) ; keratin (C50.3-52.5), H 6.4-7.0. N 16.2 $-17.7,50.7-5.0,0207-25.0$ per cent.) (llermunn's Physiology), nd the saline solutions of the body containing potassium and odiura phosphates. In these compounds "the inolecules of the impler bodies, as $\mathrm{OH}, \mathrm{CH}_{3}, \mathrm{NH}_{2}, \mathrm{C}_{6} \mathrm{FI}_{5}$, occur in the most varicd nd intricate combinations." "Of these complex substances"
which occur in the human body, "only a few can be olstaineal in a pure condition; the remainder cannot, either because they are too unstable, or because they are not crystallisable; with regard to the majority, we do not therefore know even their composition by weight, much less their constitution. The greater the number of atoms which combine to form a compound, the greater becomes the complexity of its composition, so that elementary analyses are insufficient clearly to indicate its formula. The formulae of the substances are for this reason unknown to us " (Hermann's Physiology).

All we can say with regard to the electrolysis of these bodies is that the oxygen and sulphur have a tendency to be liberated at the positive pole, and the hydrogen and potassium would traveree the space between the tro electrodes, and appear upon the surface of the negative electrode.

The fact that elements are only liberated at the surface of the electrodes is explained by the theory of Grotthiiss, which is, that the molecules of any electrolyte, under the influence of an electric current, turn themselves so that their electro-negative constituent is directed towards the positive pole of the battery, and their electro-positive constituent towards the negative pole. The molecule nearest to the positive electrode yields up its electro-negative constituent, and it escapes free, but the electro-positive constituent acts upon the next molecule in the direct line between the two electrodes, attracting its electro-negative constituent, and again repelling the electro-positive atom or atoms. This action, continued in each contiguous molecule, forms a direct chain of decompositions and recombinations across the substance being electroiysed, until the negatire pole or electrode is reached, and then the last molecule of the chain having yielded up its electro-negative constituent in the direction towards the positive pole, and there remaining no further molecules for the electro-positive element to split up, it is therefore discharged free at the negative pole. Súch is the theory of Grotthй ss , propounded in 1805, and, as applied to Water, it is explained by the accompanying diagram

$A$ is the positive electrode, and $B$ the negative one. In the upper line the molecules are seen arranging themselres so that the electronegative element, the oxygen, is turned towards the positive electrode (A). In the lower line the molecules are arranged in a chain across the liquid. The atom of oxygen nearest the positire electrode is then liberated as free gas, and the two atoms of hydrogen combine with the atom of oxygen directed to it in the next molecule, and form a new molecule. This action extends throughout the chnin, and ultimately the two atoms of hydrogen of the last molecule, having no further molecules to split up; are liberated as free hydrogen gas at the negative pole (B): Therefore the volume of gas liberated at the negntive pole is double that liberated at the positive pole. No appreciable action or change can be seen or deteeted at any point across the fluid; the gases are liberated only at thie points of contact with the electrodes. A similar diagram would explain the electrolysis of hydrochloric acid; only for the oxygen (the eleetro-negative atom), would hare to he substituted one atom of chlorine, and for the tiro atoms of hydrogen only one would be liberated by the decomposition of each molecule, because chlorine and hydrogen combine in equal volumes to form hydrochloric acid gas. This is the case with a simple compound composed of two elements, and constitutes primary electrolysis. When the compound is more complex, what is called secondary electrolysis takes place. This would be the case in a solution of sodium sulphate $\mathrm{N}_{\mathrm{a}} \mathrm{p}_{2} \mathrm{SO}_{3}$. We slould obtain at the anode, from the splitting up of the water, an equivalent of oxygen O , and also an equiralent of free sulphuric acid $\mathrm{H}_{2} \mathrm{SO}_{4}$, while at the cathode me do not obtain sodiun Na, but we hare instend of it hydrogen H, and in the solution we have also caustic soda Na HIO. This results also from the secondary splitting up of
the water (Sprague, Electricity. 188t). When we are dealing with mixed elcctrolytes, such as the substances composing aniuna tissue, the decompositions which take place are still more complicated.
It is diflicult, in the present state of our knowledge, to say how many secoudary electrolyses take place in the passage of the current through the body. That it meets several elements prescuting differeut states of polarity towards each other is certain, but whether chemical change takes place at the points of junction of each of these heterogeneous bodies it is at present impossible to determine. As a rule, electrolysis dues take place between any two substances of different electro-chemical polarity at the point where they touch one another, if they are capable of conducting electricity. If in the treatment of a nterine fibroid we use an external patter's-clay electrode, a water rheostat to regulate the current, and an intra-uterine electrode, we know that electrolysis takes place at four points: (1) in the cells of the battery; (2) in the water in the rheostat; (3) between the clay and the skin of the patient: and (4) at the point where the internal electrode tonches the mucous membrane of the uterus.

That electrolysis does take place in the tissues is probable from the fact that storage of electricity takes place in a patient subjected to the electrolytic treatment. The patient becomes a secondary battery, and is capable of giving off a current in an opposite direction to the one used from the battery. We have demonstrated this to be the fact on several occasions at St. Bartholomew's with patients under treatment for uterine fibroids. Immediately after the application of electricity has been discontinued we have disconnected the rheophores from the battery and united them to each other, still keeping them connected to the electrodes in contact with the patient; a reverse current has immediately been sbown on the galvanometer, at first about 12 milliampères, but rapidly decreasing to 8 and 4 . No storage of electricity could take place unless some decomposition of the fluids contained in the tissues electrolysed had taken place. The liquids bathing the cell elements of the tissues must have become split up, and their constituents accumulated on the opposite surfaces of contiguous tissue cells. It is this only which could produce a polarisation current. Becquerel and Faraday have shown that polarisation results from the depositions caused by the passage of the currents.
This possibility of converting the human body into a secondary battery was demonstrated by Dr. Stone in his Lumleian Lectures before the Royal College of Physicians in 1886. He charged the porter of St. Thomas's Hospital by placing his feet in a foot-bath containing a leaden electrode, and passing through him a constant current; he then disconnected him from the battery, and showed that he (the porter) gave off a constant current in a reverse direction to that given by the battery from which he was charged, and Dr. Stone asserted that he would continue to give off such a current, gradually diminishing in intensity, for about four hours (see Journal, vol. i, 1886, pp. 812, 813).

In the recent discussions on the electrolysis of fibroid tumours it has been asked: If the passage of an electric current has an effect upon the tumour, how is it that the normal structures, such as the bladder, muscles, skin, adipose tissue, etc., which are included between the two electrodes, are not also affected? It is quite possible that they are affected; that in them the normal tissue-changes always in progress are accelerated, and that assimilation or "progressive metamorphosis " is encouraged. This from analogy would appear to be the case; for when a galvanic current is applied frequently to an atrophied and palsied muscle very often its nutrition is improved and its bulk increased; and Dr. Apostoli has drawn attention to the extraordinary increase of subcutaneous adipose tissue which takes place in the abdominal walls of patients subjected to the electrolytic treatment.

Dr. Poore has said, " "it is probably impossible to pass a galvanic current through animal tissues without setting up some electrolytic action, and we are unable to say what part such action may play in the ordinary phenomena caused by the galvanic current." I hare elsewhere said," "it is probable that changes are induced in the ultimate tissue cells of a part exposed to a constant current of electricity, analogous to the chemical action produced in the electrolysis of water. If the current is weak, the process does not go so far as aplitting up the watery parts of the cells into oxygen and hydrogen, but produces some sort of activity in the

[^72]cell not present there before. It increases or alters the character of the secretion of the cells composing secreting glands, as evidenced by the increase of saliva and metallic taste in the mouth, produced by the application of a continuous current of electricity anywhere in the neighbourhood of the salivary glands. This probable increased cellular activity, the quickening of the building up and destruction of cells neverceasingly going on in the living body, is sufficient to account for the increased demand for blooc required for these changes, and the resulting increased supply afforded by the dilatation of the capillaries. The capillaries dc not dilate by any power possessed by the constant current ti cause muscular relaxation, but secondarily through nervous iufluence excited by the demand produced in the cells for mort blood. The action of the constant current upon muscular tissue if anything beyond, besides inducing these probable changes it the ultimate muscular elements leading to increased activity is the ultimate cells, increased nutrition, and therefore increase tone (as it is called), is probably to induce contraction rather thas relaxation. In considering these changes in the cellular element of the body and in the blood-supply, the osmotic power of elec tricity must not be forgotten. It has, been found that if $t w$ fluids of different densities be divided by a porous diaphragm ani an electric current be made to pass through them, osmosis take place in the direction of the current.". That is from the positiy to the negative pole. "If the current passes from the lighter t. the denser fluid the natural osmotic action is increased; but if th current passes in the reverse direction, the osmotic action is re rersed; the denser fluid passing through the diaphragm int the less dense. The osmotic power of electricity probably explain the influence of galvanism in causing the absorption of flui effused into joints, or serous cavities, when applied in suc cases."

The theory suggested by Dr. Inglis Parsons, that the electri current has a modifying influence on the cells of tumours whic from their lower vitality could not recuperate themselves so wel as the normal cells of the body, is also not altogether improbable In fact, it may be that in the tumours subjected to a currento electricity a " retrograde metamorphosis " is set up.

The tumours do not disappear so rapidly or so completely as $\pi$ hare been led to expect, or perhaps as British gynaecologists sul: posed would be the case. I do not think that the electrolyti treatment will supplant the necessity for abdominal section o removal of the uterine appendages in such cases as those in whic these operations would be appropriate, but I do think that in th use of electricity we have a means of treating fibroid tumour which is superior to any we have formerly employed, short e their entire removal. I have treated a large number of cases, an. in nearly all the symptoms have been relieved, in many th tumours have decreased in size, and in some the decrease bas bee considerable. The hemorrhage has usually been arrested; dysmenorrhoa has been relieved; the pain and discomfort har decreased; the rectal and bladder troubles lave also been lessenes and the patients able to get about and walk with much less diff culty. All these farourable symptoms are probably due to th relief from pressure caused by a slight diminution in the size c the tumour. Nearly all the patients I have operated upon hat expressed themaelves as feeling better-better in health and bettc in spirits. In those whose tumours were accompanied by menol rhagia no doubt the improvement in health was greatly due t the arrest of the hæmorrhage. That adventitious tissue dof decrease and get reabsorbed under the electrolytic treatment feel sure, and have been able to observe it in several cases of stric ture of the urethra.

NOTES OF A CASE OF HYDROSALPINX A NEW MODE OF ELECTRICAI.

TREATMENT.
By G. APOSTOLT, M.D., Parls.

The case of which 1 am about to give the particulars seemst me to be of great interest. It opens up a new question in therg peutics, and will serve as a prelude to a complete mcmoir which shall ahortly publish on the electrical treatment of salpingiti, In this paper I confine myself to a full and exact report of th case and a statement of the canclusions that may be draw from it.

Patient, 25 years old, general good health. Three full natural pregnancies; abortion at two months on September 21st, 1887, twenty days after a violent fall on the back, followed by incessant pain, excessive menorrhagia, general derangement of health, with sharp pains in the right iliae fossa; no antiseptie precautions. Came to elinic on October $27 \mathrm{th}, 188^{\circ}$, with indications of a threatening pelvic peritonitis. Swelling of the whole upper part of the vagina, with fluctuation on the right side.

On October 27 th first galrano-puncture, negative, on the left side, vaginal; $100^{\circ} ; 5$ minutes. Remained in bed for forty-eight hours, with some relief on the following days.

November 8th. Second galvano-puncture, negative, vaginal, in the cul de sac, right side, one centimètre; $140^{\circ}$; 5 minutes. Two dnys later spontaneous opening of a cyst, and discharge of fluid, without either pus or blood. Cessation of all pain and diminution of swelling.

November 18th. First appearanee of menstruation since abortion ; flow continued freely for three days; pain on left side only. Since then loeal condition has become natural, and all symptoms have disappeared. The periods of Deeember and January natural ; health good, and allowing of regular work at the sewing machine.

## Details of Case.

Mrs. T., domestic, aged 25, came to the clinic of Dr. Apostoli on ctaber 22ad, 1887.
History.-Native of the Vosges, was married when 20, came to aris a year afterwards, and has lived there since. No account of sereditary disease; no disease during childhood; menstruated at 2 years ; no infantile leucorrhœa. Menstruation has since been egular, but painful, the pains preceding the flow, continuing the vhole time, and then disappearing; quantity moderate; time hree days, and no leucorrhoea. Had no illness before her mariage, and was always able to do her work regularly. erm, at 21 , 22 , and 231, with natural labours, at full erm, at 21,22 , and $23 \frac{1}{2}$ vears. Each time kept her bed for truation resommeneed six weeks after the first two confinements, ut not till three months after the last. During the time of mariage menstruation has not deviated from its natural characters, nd has been less painful. Her good health has been uninterapted; she has carried on her work regularly up to the month of uly, 1887, has had no leucorrhœa, and conjugal relations hare ulused no suffering.
In July of 1887 her fourth pregnancy began, and for the first me gave her trouble, from severe pain in the body, though not using leer to give up work. On September 2nd, at the second ontly of pregnaney, she had a violent fall in the street, on her tck, after which slie had constant pains in the baek and lower arts of the body. This pain inereased day by day till September st, making her work very diffieult. A little diseharge of blood as seen on the 19th and 20th, and on the 21st there was an ortion. The patient affirms that there was no other cause for is accident, and it was eridently owing to the fall twenty days fore. The pains lasted for three hours. The expulsion of the atents of the uterus was complete, and followed by profuse morrhage. She had no medieal assistance, ond took no antiptic precautions. She kept her bed for eight days, rising only casionally for a short time, and used injections of warm water. iere was a pretty copious bloody discharge for four days, and is was supplanted by profuse leucorrhea, which lasted for a nth. On October 5 th she began again to attend to her honseld duties, and continued them till the 20th. Immediately after e miscarriage, for the first time in her life, she felt a serere pain the right iliac fossa. This confined her to bed, and prevented $r$ from doing any work for a fortnight. After a short respite e pain became worse, and she was obliged to give up on the th. The pain never ceased, but there were moments of exaeerbarole of the right hip, but was never felt on the opposite side, nor the lumbar region.
The patient lost flesh, strength, and appetite; her countenance wed how much she cndured, and, on October 20th, she was so "rpowered that she sought relief at the clinic.
Actual Condition, Octoher 22nd, 1887.-Woman somewhat under 1: medium size, very pale, with a distressed look; walks with ficulty, and complains of severe pain in the right side of the ly, Lymphatic temperament, without hysteria. She is in a te of feverish excitement, with high temperature. On eight
successive evenings has had a rigor about bedtime, and lasting for an hour. There is complete sleeplessness, loss of appetite, constipation, and foul tongue.
The abdomen is tender under pressure, especially on the right side, where, in the region of the broad ligament, there is evidently a phlegmonous deposit.

Local Examination.-The uterus is very low down, almost touching the raginal orifiee. The anterior cul de sac only is normal, all the others being obliterated, and the parts very tender to the touch. The uterus has on each side a large exudated mass. These encroach upon the posterior cul de sac. Though apparently the result of the same inflammatory action, they are in some respeets different in character. On the right side the projeetion into the raginal space is more marked, more tender, and more elastically resistant than on the left. It has almost the form of a hen's egg, with a rounded surface, the least pressure upon whieh canses intolerable pain. The evidenee of fluctnation on the right side is very clear. The swelling on the left side is less defined, less prominent, and not so painful. It is not so elastie and resisting as the tumour on the right side. Both swellings are amalgamated with the body of the uterus, and the whole mass seems to be adherent to the walls of the pelvis, for no morement can be made of any part.
The eondition of the patient is serious, the symptoms indicating the setting np of an aente pelvie peritonitis. I therefore put off any local operative treatment.
October 24th. The patient is worse, and eagerly demands relief. It was, however, decided that we should wait before making any applieation, but by the 26th the pain was so much inereased that the patient had been rolling on the floor; walking was nearly impossible, and it was with difficulty that she was conveyed to the
clinic.
Oetober 26 th . Diagnosis.-There is no sign of general peritonitis being really present, but it seems imminent. Taking into consideration the accession and inerease of pain, the local conditions, the manifest reniteney on the right side, together with the unmistakable fluctuation and the high temperature $\left(38.5^{\circ} \mathrm{C}\right.$.), there can be no doubt as to the existence of a peri-nterine phlegmonons suppuration.

Treatment.- At the urgent request of the patient, 1 with some hesitation decided npon the treatment by galvano-puncture in its most modified form. Hoping that it was not too late to expect an arrest of the threatening inflammation by this means, I proposed to make the slightest possible tentative puncture on the left side, so that 1 might judge by the effects there produced whether it would be possible or proper to do the same thing on the right side.
Oetober 27 th. After chloroform and a yaginal injection of weak solution of sublimate. I made a raginal negative galvano-puneture on the most prominent point of the swelling of the left side, in the lateral cul de sac, with a very small steel troear, entering only 1 eentimetre, with a current of 100 milliampères, for fire minutes. The trocar was one speeially made for the purpose. and not larger than the point of a subcutaneous injecting syringe. The puncture caused no bleeding. I again used the antiseptie irrigation, and placed a tampon of iodoform ganze in the ragina. The patient was put to bed at the clinic, and there she remained for two days.
During this time she was in a state of great excitement, almost constantly delirious, moaning incessantly, with green romiting and a temperature varying between 38 and $39^{\circ} \mathrm{C}$. The delirinm had all the characteristics of that produced by ehloroform, with alternations of agitation and quiet, during whieh she was scarcely conscions.
By the evening of the 28th, the delirium had all passed away. She slept well during the night, and woke up in the morning of the $29 t h$ refreshed and better. There was a coluplete transformation. She got out of bed without assistance to be examined and dressel, stood up and walked about free from pain and difficulty. The abdowen was much less tender, and bore such pressure as would have been intolerable the day before.
The raginal taupon was not stained. On examination, no change was found in the state of the right side, but on the left side there was a great change for the better, less tenderness, less swelling, and the space was freer. Contrary to adriee, the patient was imprudent enough to return home on foot. a distance of three kilomètres (about two miles). On arrival she was obliged to go to bed, and all the night suffered much pain in the right side. The next morning she was easier and returned to the clinic,

Walking with less difliculty. The pain was less, the tampon was clear, and there was no unusual discharge from the rugina. The injections were continued, and for several days she, remained under olservation, with gradual amelioration.
November Sth. On this day 1 made a second ragisal galranopnncture, under chloroform, with the same trocar, to the depth of a centimetre and a half, in the centre of the right cul de sac, and used a current of $140^{\circ}$ for five minutes. In order to insure the coaptation of the tumour with the wall of the vagina, and to give myself the certainty of making my puncture exact, I caused an assistant, during the whole time of the operation, to press downwards slightly with his band in the right iliac fossa. There was no escape of dluid after the puncture, and the injection and tampon were used as before.

As on the former occasion, the patient remained in bed for two days at the clinic. There was no delirinm, but she suffered some sharp pains in the right iliac region. They were sufficiently bad to prevent sleep, but she could take some nourishment, and was less fererish than before.

Norember 10th. Since the morning the patient has beenme more calm, and the shooting pains are less frequent. In making the raginal toilet, which has not been done since the operation, the tampon tras found dry and unstained. The abdominal tenderness has subsided, and there is no trace of distension. Examination shows that structural retrogression is going on; the raginal sensibility remains much the same. The dressings were replaced as usual.

In spite of remonstrance she persisted in going to her home, and was much fatigued by the journey. Cnable to keep about, she was obliged to lie down, and, while quiet in her bed, she suddenly found herself drenched by a fluid, clear and transparent as water, which ran from the ragina, without being accompanied with any pain. The patient says this liquid was without smell, unmixed with blood, somewhat serous, and continned flowing for sereral minutes withont washing a way the tampon. From this moment slie found complete relief. Her former pains ceased, and she had no, more suffering. A good night followed, and in the morning she felt so well that she rose and dressed without fatigue, and was not in any way inconvenienced when driving down to the elinic.

Norember $12 t h$. There is a great change in her appearance, her complexion is clearer and she declares herself well in all respects. She has no further symptomatic troubles. Locally the transforration is not less remarkahle; trio facts are especially to be noted.' The sensibility of the two culs de sac has disappeared to such a point, that this woman, who two days ago could scarcely bear to be touched, particularly on the right side, can now submit, to a thorough vaginal examination, accompanied with external pressure, without a word of complaint. The anatomical change is quite as complete, for in place of a resistant tumour as large as a fowl's egg, there is nothing now remuining on the right side but a fibrous substance, a little irregular on its surface, not one third of the original'size, nnresisting, not at all tender, and lixed to the uteris.

The conditions, both symptomatic and anatomical on the left side, have undergone a similar change. The tampon, which had been in place since the loth, on being removed before examination, had no blood stains upon it, but was found saturated with about two spoonfuls of serous fluid. A new light was thus thrown upon the question of diagnosis; the tumonr, supposed to be a collection of pus, was after all a serous cyst of the Fallopian tube.

November loth. The patient gots on improving both locally and generally, she walks ensily, and all the functions are regnlar. Absorption has taken place, and the culs fle sac have their natural depth. The punctures, made on either side on the same horizontal line, are now only to be found near the centre of the posterior cul de sac, in consequence of the general contraction of the raginal mucons membrane. The utemis, although attached behind, is in some measure movable. Same local treatment.

November ]7th. The improvement continues; though she cannot resume her full outdoor occupation, she manages to do her household work.

Norember $2+t h$. ller visits have been suspended because menstruation began on the 18th, for the first time since September 21 st. The appearance was preceded by two hours of sharp pain. The flow continued for three days, freer than usual, and the pain laster all the time. Comparing the present period with those of early gears, she finds that instad of having pains all orer the abdomen, they are now confined to the left iliac region, with none
on the right side. A feeling of weariness obliged her to lie dowr occasionally during the three dars. But, since the cessation, o the period, she finds herself as well as before it. began. Sh thinks she is a trifle fatter, and she looks well. There is somi tumefaction of the upper part of the raginal mucous menobrane and the points of puncture have resumed their original place in the lateral culs de sac.
Norember 29th. Nuch the same; but though her strength i returning, and she is gradually mending, she cannot manage mor than her home work.
December 3rd. Examination shotrs:-1. That the uterus i bigher up, and that the neek is slightly turned forward. 2. Dimi nution of the bilateral peripheral exudation, and complet absence of tenderness under pressure. 3. The two punctures ar no longer found on the sides of the uteris, but are actually in th posterior cul de sac. 4. The hinder part of the uterus is attache to the sacrum. The sound passes for $6_{2}^{\frac{1}{2}}$ centimètres, and cause a little pain.
The patient is completely free from all the symptoms caused b her malady; has no pain, wàlks well, has' no sensation of weigb in the body, eats well, digests perfectly; grows fat, and has $r$ e gained her strength and healthy look."

December 27th. Menstruation came on, for the first time with out pain, on the 20 th. The duration was five days, and th quantity rather more than usual. She, has resumed conjugal $r$ i lations, interrupted since September 1st, without inconvenienc For the last fortnight she has worked five hours a day at he sewing machine, with one pedal for the right foot; and, thoug the movement fatigued her, she was not obliged to give it up.
January 15th, 1888 . Since the 1st ot this month she has worke all day at the machine, and, notwithstanding the extra exertion has not been in any way troubled.
January 27 th. This month the period was rather later tha usual, bit she had no diffculties, and was able to do her machin work regularly, though away from her home' in a factory. Mel struation lasted thiree days, less abundantly and without pain.
February 10tli!' Since the last report the patient has been fre from all troublesome symptoms. Independently of her declaration -and she is generally rery truthful-the following fact is a cle proof of her full restoration to health: she has been able to g through her day's' work at the machine, from 7 oclock in tt morning till $\tau$ in the evening, regularly and without fatigue interruption, even during the last two menstrual periods, December and January. In fact her condition is so satisfactor
that she declares herself better than before her last pregnane that she declares berself better than before her last pregnane
and free from the little miseries which she then had to endure.
Local Condition.-1. No reasonable pressure on the abdome gives her any pain.
2. The uterus is natural as regards form and consistence, little low down, and retroflexed; the neck of right form an without ulceration.
3. The ragina is everywhere in its natural state, and there is, peri-uterine swelling.
4. The uteris is still adherent by its posterior surface, but admits of some movement.
5. Under strong pressure the sides and back part of the uteri show a little sensibility, especially when the finger toncles deep-seated nodule. about the size of an' almond, lying to t1 right side and a little behind the organ. This is probably th tube slightly hypertrophied.
With the finger in the rectum, pressure on the back of $t$ t uterus is not painful, and, eren in spite of the retroflexion, it nasy to trace the form and the upper border. On either sid
the tube and ovary may hade out distinctly a little enlarge the tube and ovary may he made out distinctly a little enlarge
more so on the riglit than the left side. Both sides are a trif more so on the right than the left side. Both sides are a
more tender than natural. The ovary on the left side is rer plainly felt; that on the right side forms a conglomerate ma: with the Fallopian tuhe.

Conchusions and Observations.-Without anticipating the ": tended memoir $\pi$ dich $\lceil$ intend to publish on the electrical trea ment of salpingitis, 1 may sum up in a few words my observatiol on this case. Other facts, to be produced at a future time, wi gire full confirmation.

1. In gynecology fever and intlammation are not to be $r$. garded as absolutely contraindicating the methodical aud prop application of the galvanic current.
2. Inflamation of the nterus and its appendages, when not $i$ the stage of suppuration, may be adrantageously treated by tr galvanic current. This current, though admissible in the fr
sages of congestion and inflammation, 1 consider onght not to be used when suppuration exists, uniess it be brought into action in the form of an electrical cauterisation, for the purpose of making a safe and certain outlet for the matter through the vaginal wall.
3. A galvano-caustic puncture is a valuable means by which we may gain two eads: first, to check the outbreak of inflammatory action or to stop its progress; secondly, to gire an easy exit to a collection of fluid, by the falling of an eschar, in any case where the cavity containing such fluid is accessible throngh the npper part of the vaginal wall.
4. Every inflammatory exudation presenting itself in the vaginal cul, de sac may be treated by means of the galranopuncture, except under the condition which I shall hereafter mention.
5. This method may be easily and harmlessly employed for the treatment of certain cases of salpingitis and hydrosalpinx, on account of the close relation hetween the tumonrs and the vaginal wall.
6. In making every galrano-puncture, all the rules which I have hitherto laid down concerning the seat of the puncture, its depth, the size of the trocar, the antiseptic precautions, the repose of the patient, etc., must he scrupnlously observed.
7. Two negative galrano-punctures, vaginal only, were sufficient in one case of hydrosalpinx to bring about very quickly an important anatomical change, and complete symptomatic cnre.

A CASE IN WHICH RUPTURED TUBAL PPEGNANCY OCCURRED TWICE IN THE

## SAME PATIENT.

BY LAWSON TAlT, F.R.C.S.,

'rofessor of Gynarcology in Queen's College, Birmingham; President of the Birmingham and Midland Counties Branch.

In May 10 th, 1885 , Mrs. E. R., aged 25 , was sent to me by Mr. W. $\because$ Whitcombe, Fictoria Road, Aston, suffering from urgent abdoninal symptoms. The history was to the effect that she had beeu iling from a short time before Christmas. She thought it was regnancy. Denstruation had been suspended for three months. n April she had a period, and again early in May, and at the atter time she complaineu of violent pains in the lower abdomen, nd on the 9 th she had an attack of fainting with romiting, the ain being referred to the lower abdomen. When I saw her she ooked extremely ill and anemic. A large ill-defined mass existed on the right side of the uterus intimately associated witb the rgan, and the roof of the pelris was fixed. There was no diffiulty in diagnosing the case to be one of ruptured tubal pregancy. 1 opened the abdomen on the I1th, and fonnd the belly ull of blood-clots and bloody serum. I removed the right Falloian tube, which was occupied by a pregnancy of about the third ionth, and in its walls a large rent had occurred, through which he footus and placenta were partly protruding. Some points of leeding from the intestine required touching with perchloride of on, I inserted a drainage-tube, and the patient made an easy ad rapid recorery. The case is published in a short paper on uptured Tubal l'reguancy, in the Journal of December $19 t h$, 580.

About eighteen months alter this operation, she was confined of child, at the full term, being attended by a midwile, and there 'as nothing remarkable about the labour.
Abont fifteen months after this confinement she again lecame fegnant, and her husband states that during the period of this regnancy (which she thought had turned four mouths), she had , symptoms of note, but only complaincd at interyals of slight in in the abdomen, but not sufticiently severe to induce her to all in medical assistance. The only point on which he lays any ress was, that she stated that she felt the child very jlainly, ore so, it seemed to her, than at the same period in any previons egnancy.
Br. Whitconlue was sent for to see her in the forenoon of Marelı h, but he being from lome, the patient was seen by his assistant ortly before lo'clock on that day. She was lying fully dressed the bed, her knees drawn up, and was complaining of great in in the hypogastrium. She was extremely pale and almost Iseless, and had had some romiting. Mr. Hall was informed it only half an hour before she had been cleaning her fireplace,
and, in the act of stooping, was scized with acute pain and a feeling of faintness. Stimulants were at once admainistered, and every effort made to restoreher without avoil, and the patient died shortly after 5 a'clock, clearly from internal hemorrhage.

Mr. Whitcombe made a post-mortem examination, and has been kind enongh to give me the following particulars: IIe found the abdomen full of blood-clots and fluid blood; a large clot was adherent to a portion of the placenta which protruded from the uterine wall, and when this clot was separated it bad a quantity of villous placental tissue adherent to it. All the organs were rery anamic, and there could be no doubt that the hemorrlage was the cause of death. Jr. Whitcombe was grood enough to bring me the preparation, and aided by my assistant, Mr. Teichelmann, I am enabled to give tle following report of the appearances presented.

There can be no doubt that the specimen represents an interstitial tubal pregnancy of the left side. The carity in which the foetus is situated is separated from the trne uterine carity by a strong septum of uterine tissue springing from each side of the uterine walls. Tbe under surface of this septum and the rest of the uterine cavity is lined by hypertrophied mucous membrane (decidua). The stump of the right Fallopian tube is attachel to What appears to be the lower angle of the nterus, but which is really the much displaced upper angle. This displacement, however, is only apparent, and arises from the enormons development of the left cormu of the uterus. A fine urobe may be passed from the true uterine cavity into this stump. The left Fallojian tube, ou the contrary, communcates with the cavity in which the fortus and placenta lie, and the rupture has taken place in the upper and back part of the left uterine corner. In this case we have the almost incredibly strange instance of a woman suffering from tubal pregnancy twice, With the still stranger fact of her having a normal pregnancy between the two occurrences. From the first of her disasters she mas saved by prompt surgical interference, and she might even hare been sared the second time, but there can be no doubt that the poor woman's doom was sealed hefore medical assistance reached her, and there was no time then to effect the interference which was necessary. All the appearances of the preparation point to the fact that the woman's estimate of the period of her pregnancy was correct, and we have therefore an indication that the interstitial form of pregnancy does, as we might have expected it would, take a longer time to arrire at the period of primary rupture than do those cases in which the pregnancy occupies the free part of the tube. In these latter we hare no eridence as jet of any instance going beyond the twelfth or thirteenth week before primary rupture. It may bu noticed here I am introducing a new phrase in using "primary rupture." I do so becanse 1 am becoming conrinced that unlcss we make such a distinction as I am about to indicate we shall still continue some of the elements of confusion which exist about this interesting displacement.

It is perfectly clear that in all cases of tubal pregnancy, when the ornm is growing, the tube nust burst, and that it Einsts in two directions, either into the peritoneal cavity or into the cavity of the broad ligament. In the free part of the tube this rupture takes place, as ] hare said, about the twelfth or thirteenth week. In the interstitial form, the case before us shows that the rupture may be deferred to a later date. The primary rupture into the peritoneal cavity seems to be almost necessarily fatal alike to mother and child; but when the rupture occurs into the carity of the lroad ligament, it may be followed by a continunace of the development of the child, and these only are the cases in whicla the child is permitted to reach a riable perion.

In a recent mmber of the Vew Iork. Medical Record. a case is reported by Dr. Taft as being one in which no rupture had taken place. But the description given makes it perfectly certain that this was a case where the primary rupture had taken place into the cavity of the broad ligament. In this croup of cases a sccondary ruptnre at any period is possible, and therefore it is that the adnution of the terms, used strictly to indicate relative dates, will become rery useful. This sernulary rupture was mo-t clearly demonstratél in Fonat's celebrated case as given hy l'epmutz, i case which, nin aceount of the occurrence of this secoudiary rupsture.
 This secondary rupture probably alio explains such an occurrence as tlat in Jessopis case.

Connected with the case 1 an now discussing there are many important points worth alluding to, some of which are new, nnd others, though quite familiar. are worth noticing on account of
the coufusion which still seems to exist in the mind of the most recent writers on this subject.

The patient was rather an intelligeut woman for her class, who, liaving uudergone the terrible experience inrolving her first operation, had obtained a fairly full knowledge of the nature of the accident, aud what had been the condition as a consequence. Yet, with this dreadful experience, and the knowledge of it when the same condition recurred, so little did she suffer that, up to the moment of rupture, knowing she was pregnant, she never thought ot asking for medical assistance, and this was the case also in her first tuhal pregnancy. There were no symptoms whatever to draw attention to her state until the rupture occurred; indeed, there were no symptoms eveu calling for examination.

The strangest thing of all to me is that, in the enormous experience I have now had of tubal pregnancy, I have never but once been called upou to make an examination until the rupture had occurred, and in that case there was neither history nor symptoms which enabled me to do more than determine that there was tabal ocelusion : not, indeed, until the rupture occurred and the abdomen was opened was a diagnosis possible. Under these circumstances, I think I may be exensed for maintaining a somewhat sceptical attitnde concerning the correctness of the diagnoses of those gentlemen who speak so confidently of making certain diagnosis iu cases of tubal pregnancy before the period of rupture, and Who speak with eqnal confidence of curing the cases by a puncture either simple, medicated, or electrolytic.

The great bulk of the utterances in these directions may stand very well in "society discussions" or in "library papers," but they will not stand the test of bedside experience. Upon these points I have been much misrepresented, and am glad to have an opportunity of clearly stating my views; but I wish to state that after the period of rupture a diagnosis can be, and has in my own experience been, made correctly in the majority of instances.

Another point in connection with this interesting case is the fact, made abundantly clear by the preparation, that, no matter what the symptoms had been previons to rupture, physical examination could not have permitted any diagnosis other than that of normal pregnancy of about four months and a half.

This is my solitary experience of interstitial tubal pregnancy, but it so closely resembles a number which I have seen in museums that I take it to be quite typical of its class. I am, therefore, disposed to believe that from physical examination interstitial tubal pregnancy could not be diagnosed, and I can imagine no symptoms which would help us to recognise it hefore rnpture.

If we were to assume that in snch a case as this a diagnosis could be made, much ingenions speculation might be indulged in as to what would have heen best to do for the patient. If a correct estimate of the relation of parts could have heen made, clearly what ought to have been done was to dilate the cervix, divile the septum freely, and empty the comual cavity. To have attempted to deatroy the child would not have benefited the patient one bit. The placenta would have gone on growing; and, "weu if it had not, putrescible material would lave been left, which must have lurat into the peritoneal cavity. At the time of rupture, if surgical assistance could have reached the woman with sufficient promptitude, she might have heen saved by a hysterectomy; and, from the appearances at the post-mortem examination, there is no doult that this conla have been wasily accomplished.

Ture Vifisa Medical. F'acelty.-The prospectus of the Vienma Merical Faculty for the summer semester shows that 102 lectures, courees, und demonstrations will be held during this semester by 19 ordinary professors, 3 3 extraordinary professors, and to docenten and nssistanta. luring the past semester, there were 6,157 students in the rlifferent faculties, distributed as follows:-(1) Thenlogy, 2.5 ordinary and 17 extraordinary students; (2) law, 1,127 orlinary and 2.50 extrandinary students: (3) medicine, 2.287 nerlinary and 836 extranrdinary students; (1) philosophy; tis ordinary and 353 extrandinary students. A comparison of these numbers with those of the winter semester of last year shows un excersa nf students in the law fasulty and an increase among the extraordinary medical students. The number of the ordinary membenl stmotents, on the othor hand, slows a slight decrease. The "xtraordinary students were this year, for the most part, foreigners, of whom 100 were Americans, 39 Russians, 36 Englishmen, 28 Prussians, 11 Swisa, 16 Roumanians, 12 Belgians, 7 Greeks, $\therefore$ Dustralians, and 4 Turks.

## AN ADDRESS

## THE VALUE OF PRACTICAL STUDIES

Delivered at the opening of the Summer Session in the School of Practical Physiology, Edinburgh, May 1st, 1888.

By Willitay RUTIIERFORD, M.D., F.R.S.,
Professor of Iastitutes of Medicine in the University of Edinburgh.
Gentlemen,-Before proceeding to the ordinary work of the session, I should like to direct your attention to some ideas regarding the value of Practical Studies. A short discussion o that subject may be of service to you who are still on the threshold of a life of study. It may help you to perceive the principle that has led your teachers to develop methods of practical study, and to extend them in all the departments of natura science and in those of medicine.

We can acquire a knowledge of Nature in two ways: in a direcl way by observing Nature by means of our own senses, and in al indirect way by listening to and by reading an account of the observations of others. All natural science springs from the observation of Nature. To assist our observation various instruments have been invented, and various experimental methods dcrised to induce Nature to reveal her secrets. The facts so dis. covered and the laws deduced from them have been marshalle in the orderly array that forms the characteristic feature ol science.

The first and obvious duty of the student is to gain a knowledg। of what is already known. He is not immediately concerned witl the adrancement of science, but with the attainment of a know. ledge of its facts and principles, and the methods by which scientific knowledge of Nature has been gained. The old metho of instruction in too many departments of natural aud of medical science consisted in the mere absorption of statements made by lecturers and authors, without prodnction of the necessary evi dence of their truth, and with imperfect illustration and explanation of the methods by which the eridence has been obtained The result of such modes of teaching could not be satisfactory The student's interest in the subject was not sufficiently awakened. The knowledge he gained was superficial, as, indeed it could not otherwise be on a method so imperfect. The mode of iustruction now aimed at in all departments of natural science is to bring the student as directly as possible into contact with Nature, so that he may have not a mere description or exposition such as may be found in a book, but may, as far as possible, studj phenomena directly by the use of his own senses, so that when an object is described he may, if possible, see it with his own eyes touch it with his own hands, listen to it with his own ears, and. if necessary, smell it and taste it. On such a method of instructiou the student is not treated as a mere absorber of the statements of others, but as an independent observer, requiring a de monstration of the truth of what is said, expecting that structure will be shown to him, that the properties of things will be revealed lye experiment, that methods of observation and experimeat will be demonstrated and explained, and that he will, as far as possible, be allowed to observe and experiment for himself. This practical study of Nature is attractive to all, but especially so to young minds. The nind at any age, but especially in youth, is apt to grow weary of ahstract sfatements, and to lose sympatlyy with a subject so treated. The young mind is enthusiastic, it is eagerly expectant, and keenly on the outlook for new impressions. It is not satisfied with mere descriptions of phenomena. It desires to realise them by direct inspection. Such desire is 80 natural that one can only wonder why so many years clapsed hefore a serions effort was made to satisfy it. This method of studying Nature by contact with it inspires a confidence that is not otherwise attainable. The mind feels the solin support given by the direct study of phenomena ; it feels itself on solid ground, and can advance with firm step. When hy this methor the student criticises and tests anew the observations made by others, they become to him living impressions printed on his mind in a way they never can be by merely listening to, and still less by reading descriptions of them. The student soon comes to feel that this practical method of study is the surest way to acquire definite
nd accurate knowledge of scientific facts. But in his eagerness o learn the facts, he is apt to lose sight of another mental proess that is being cultivated while his category of facts is growag: he is apt to overlook the fact that a great and leading object a practical studies is to quieken and increase the power of aaking accurate and independent observations.
To any student of Nature the exercise of such power is mportant, but it is doubly so to a student of medicine. The prac-
ine of medicine largely consists in an exercise of observing power. The correct diagnosis of disease requires this power to be acute nd highly trained. It not infrequently happens that the early tage of a disease passes undetected because the physiciau bas ailed to observe some symptom that is imperfectly developed, nd, therefore, apt to escape attention, unless his power of obseration be acute and highly trained. It is often the case that a ractitioner does not sufficiently use the ophthalmoscope, the aryngoscope, the microscope, and other appliances which would elp him in the diagnosis of disease, but of which he cannot with onfidence avail himself, because in his stadent days he had no pportunity of learning how to make reliable observations with uch instruments.
1 need scarcely remind you how greatly men differ in their ower of observation. If you listen to travellers giving an ccount of the impressions they have received in the countries and ities they have visited, you will find they vary rery much in the se they have made of their cyes ; some men let few things escape heir notice, others have only vague impressions of what they have ritnessed. Some men have that power of precision which enables hem to fix their attention firmly on an objeet until they have horoughly scrutinised it, and have obtained from it a deep and isting impression. Such men apply their minds thoroughly to he subject on hand. They proceed methodically; they avoid itting rapidly from one subject to another, knowing that by such uttertly method an abiding impression is not attainable. On the ther liand, there are many whose minds have no firm grasp; heir eyes are open hut they fail to see; their impressions are ague and indefinite; they hesitate to describe what they have zen because they cannot exactly recall the impressions. The sual explanation is that the mind was not firmly fixed on the bject, and the mental vision was not steadily turned towards it.
We shall not require to tra vel very far to have such experience
t the difference in men's powers of observation. It is soon obaned when a number of observers put their eyes to the micro:ope : all may be looking at oljects precisely similar, but if the ifferent observers be called upon to describe what they see, we uickly find great differences in observing power. I assure you, entlemen, that this is a subject of great moment to erery one of ou-especially great to those who intend to pursue medical science nd practice. Your power of observation must be carefully and ridely trained. You must strive to fix the mind so firmly on very object your teachers place before you that the power of cute and accurate observation may grow steadily; it is sure to row steadily if you will only refuse to be satisfied with impresions that are vague and indefinite. The power of precise and ccurate observation depends far more on the mind than on the rgans of sense. Most men's eyes are good enough, the relative auteness of their vision is mainly the result of a mental cause.
Again, in relation to the exercise of the power of obserration. sere is a principle of no small importance from an educational oint of view. There are some practical studies which from their ature must be undertaken by the student working in an isolated ranner; practical anatomy is one of these. As you know, it is ecessary in the dissecting-room for each student to pursue his wn way without reference to his fellows. Ife works ont the ahject with a book of referenco by his side, and with the help of teacher at intervals. There are several other subjects, of which ractical physiology and practical pathology are illustrations, in hich a collective system of study is adopted. On that system he teacher treats his pupils like a regiment, directing them all to erform the same opcrations and to observe the same facts at the zme time. That system has been to so great an extent originated ad developed in this university that it might almost be called le Edinlurgh method of practical teaching. This method has now een adopted in a number of other selools, yet I have heard it lversely criticised by teachers in the South, who prefer the sstem of isolated study, on the plea that a student who is quick I thought and movement ought not to be hampered and held ack by those less rapid, and that self-reliance is fostered by olated effort. Well, gentlemen, I believe our regimental system
of practical teaching has for you great advantages that far outweigh any drawbacks. Taking work with the microscope as an illustration, it is for you and still more for the teacher a great saving of time to be collectively told how to prepare an object for the microscope, and how to observe its several characters. You save a great deal of time by keeping your eye at the microscope while information regarding the object is not heing sought for in a book, but is reaching you through another organ of sense which more than any other stimulates the mind and keeps it vividly a wake.

Microscopic study is apt to proceed very slowly if information is heing searched for in a book. But it proceeds smoothly and quickly if the information come through the ear. To you who have so much to acquire in a limited period, any method that economises your time is important. But our regimental system has another great advantage that isolated study never can have; it creates at once a congenial mental atmosphere; each hourly section of our class becomes a miniature scientilic world, in which one mind reacts upon another, and stimulates it by sympathetic rivalry. In such an atmosplere the observer is at once thrown on his guard, for he knows that the same object is being looked at by many eyes, and that the accuracy of his description is being keenly scrutinised. Such an atmosphere seems to me of great ralue to young minds, for we all know that a characteristic feature of youth is desire for sympathy and love of generous rivalry. That mental glow we call "enthusiasm," which in youth is so readily kindled and fanned by the sympathy of other minde, is an invaluable help in study; it lightens labour, it carries the mind up different paths to high attainments, and induces it to forget its fatigues; therefore, it is our duty to do what we can to enable you to foster a spirit so helpful.
At the same time, gentlemen, I must guard myself against misapprehension in thus commending to you what 1 have termed the regimental system of practical study. That spstem must not be pushed too far. It is particularly suitable for beginners, and should for them be adopted in all subjects that permit of it. But for the adranced student the method of isolated study is preferable, in subjects characterised by elaborate practical details, requiring much time and thought for their execution, and for the full apprehension of their significance.

But practical studies carry with them another adrantage especially important to students of medicine, namely, cultivation of the power of manipulation. You have all, no doubt, felt how rapidly manipulative dexterity is cultivated by the practice of dissection, and you know that, from a surgical point of vier, it is nearly as important to acquire a dexterous use of the knife as it is to gain a knowledge of anatomy. Not a few medical practitioners make no use of the laryngoscope, because the use of a mirror at the extremity of a handle and the management of the light thrown upon it require considerable manipulative dexterity. Many a practitioner wonld refuse to perform such operations on the eye as iridectomy and extraction of the lens because he may have had no opportunity of practising such operations on dead eyes, under the supervision of a teacher. And I have heard not a few medical men bitterly complain that in their student days there were no arrangements by which on snitable models they could acquire the manipulative dexterity so essential in many obstetrical operations. It is a matter of commonobservation that men differ greatly in manipulative power. Some men are clever with their hands, quick and precise, and delicate in movement, accomplishing a practical result fluently; in others the hands accomplish their task with difficulty, there is lack of precision, and the result may be failure. Such difficulties are alwnys diminished, and sometimes eatirely orercome, by practical studies.
The Medical School of Edinburgh can lay claim to no small share in the development of practical teaching. In former years the derelopment was denounced as a needless imnoration by those who were victims of the curious popular delusion that the old times were good enough, and required little improvement. Believe me, the Medical School of Edinburgh goes far better now than it did twenty years ago; some of us have often turned the cye back to our student days and have marvelled at the change. Iractical teacling has been dereloped in nearly every department. and every year adds something to its efficiency, for though much has been accomplished, we have to keep in mind that tiee principles and methods of education are problems full of dificulty and perplexity, and that a perfeet system can only grow by degrees. Dut while pointing out the great development of practical
tenching in Edinburgh, 1 would not have you suppose that in this respect we stand alone. Many teachers have gone from this to other medical schools and have carried with them our methods, and have planted them there. And indeed alt the medical sehools of Eingland and lreland, as well as those of Scotland, have been making rapirl progress in the attempt to raiso the standard of attahment in every stmdent of modieme by providing him with incroased facilities for study iu every department. To thase of us who aro familiar with the results both of the old and of the new syatems of medical cducation, the great benelit of the newer luethod is apparent.

But although we have taken the right way in bringing the young mind more and more into direct contact with Nature, we must ask you not to fall into the error of supposing that a practical mode of study can ever supersede the older method by mans of lectures. It would be impossible for one mind to olserve independently all the facts of any science, even if it had all the means at its command. How mnch more impossible must it the for any one of you to observe independently the great muss of facts in the many sciences you have to learn within a limited period of time. In practical studies salient points have to be selected and many others omitted. The systematic lecture must alwaya remain as a systemised exposition in which facts and principles are arrased, not in the order that might be necessary tor practical study, but in the order required to produce a lucid couception of the subject. Both methods are necessary to enable the mind to gain a definite knowledge of detail, and a sufficiently wide conception of any science that deals with physical nature.

I have now seen a good many years of student life, and have watched the results of a good many educational experiments, and as the result of the experience, the adrice I offer you is to attend all the practical classes you can. Give no heed to their beiug compulsory or non-compulsory, for with their lelp you can obtain a kind of education whiel you never can find in books or get from lectures; and when you leare the university and pass into medical practice you will find the opportunity gone.

## NOTES OF A CASE OF CHOLECYSTOTOMY: RECOVERY.

IBy RUTIIERFORD MORISON, F.R.C.S., M.D.Edin.,
Late Visitiug Medical Oficer, Hartlepools Mospital, Newcastle-upon-Tyue.
11. I., aged 45, married, was the mother of six living ehildren, and had had four miscarriages. The patient was an active, intel-ligent-looking woman, with nerrous complexion and features, black hair and bright brown eyes. She was in good condition, though thinner than formerly. She had been occasionally intemporate. The organs, with the exception mentioned below, were hoalthy. Menstruation had been irregular lately, and for the last four years profuse. The tongue was furred, appetite poor, and lowels irregular.

She hall never felt well since a miscarriage, her last pregnancy, eight years ago, and had had pain in her right side from that date. So far as she could judge, the pain had always been of the same nature as that of which she now complained. The attacks of painstarted in the right side over the liver, and extended to the right shoulder and cpigastrium. They were accompanied by vomiting and shiveriog, and made her so ill that she was obliged to stay in bed. Latterly the attacks had increased in number and severity, so that threo or four days of each week had been spont in bed. The bad fits always terminated by diarrhoea. Exercise brought on these attacks.

The lump was first discovernd ly herself four years ago. It was tender then, and had remained so throughout, but was worse sometimes than others. She said that it becane decidedly less and not so sensitive after the purging.

Examination discovered a round, hard swelling in the position of the gall-bladder, about the size of an orange, and moving freely up and down with respiration. P'uneture with a hypodermic syringe showed its contents to be tho ordiuary opalescent mucous fluid of a distended gall-bladder.
The operation was performed on February 29th, the tumour heing exposed by a vertical incision through the abdominal pariates, immediately orer it, from two to three inches long. After placing a conple of small sponges behind the distended gallhladder, an aspirator needlo was introduced at the fundus, and six ounces of opalescent fluid removerl. The front wall of the
gall-bladder was now drawn forwards by two pairs of ordina artery forceps, and opened sufliciently between them to ada easily my lorefinger. Between fifty aud sixty small round ston the largest beiag no bigger than a pea, were scooped out with 1 finger, and washed ont with a lligginson's syringe. The ga bladder was sponged dry, the bile-ducts explored without findi anything, and the sponges removed from the abdominal cavity.

The only serious difticulty in the operation occurred at tl time. One of the sponges was lost amongst the intestines, a before 1 could find it I was obliged to enlarge the incision. future the sponges shall be under my control with ligature forceps. The difficulty of finding them has to be experienced be believed. The edges of the thickened gall-bladder wero at fixed to the abdominal wall, including the peritoneum, by a cc tinnous suture, the edges of the wound brought together abo and below with interrupted sutures, a rubber drainage-tube 1 in the bladder, and the wound dressed with carbolic gauze and wood-wool pad. The operation thronghout was conducted wi antiseptic precautions.
The after-progress was uneventful. The patient got up on t ninth day, and went home some distance by rail on the sevt teenth day. The wound was entirely healed at the end of fi weeks, and her bealth is now as good as it ever was, aud bet than it has been for years.

## A CASE OF TRAUMATIC CEPHAL-HYDROCEL

## By F. A. SOUTHAN, M.B.Oxon., F.R.C.S.,

dssiotant-Surgeon to the Manchester Royal Infirmary: Lecturer on Clinles Surgery in the Owens College.

As cases of traumatic cephal-hydrocele-the term now applied a tumour formed by an accumulation of cerehro-spinal fle beneath the scalp, occurring as a complication of simple fractr of the vault of the skull-are somewhat rare, the following i stance is perhaps werthy of record.
The patient, a male child, aged 6 months, was admitted into $t$ hospital nnder my colleague, Mr. Ieath, on December $28 t 1$, 18 suffering from an injury to the head, the result of a fall down fight of stairs the previous evening. The mother stated th when taken up the child was in an unconscious state, and,

mained so during the night. On admission the following mornit ho was sensible, though somewhat drowsy ; there was right ptos with slight conjugate deviation of the eyeballs towards the rig? side; the pupils were equal, neither contracted nor dilated. examining the head a fracture was found running obliquely acro the parietal add occipital region on the right side, causing a dee oval, gutter-shaped depression, two inches and a half in lengt one inch in width. Thero was no bruising of the skin, and 1
swelling beyond a little puffiness of the tissues of the scalp aver and around the seat of fracture. In the course of a few days the child became bright and lively, the deviation of the eyeballs and the ptosis disappeared, and on January 8th he was discharged from the hospital apparently quite well, no swelling being perceptible in the region of the fracture, the depression of which was still evident.
Four days later, on January 12th, the child was brought to my out-patient room, when I saw him for the first time, and on examining the head a distinct swelling was apparent immediately over the seat of fracture. The swelling was oval in shape, about two inches in length, one inch aud a quarter in breadth, and slightly constricted at its middle, its long axis running parallel with the direction of the fracture; it was raised about threequarters of an inch above the level of the surrounding surface, and was soft and fluctuating; it exhihited distinet pulsation synchronous with that felt at the anterior fontanelle, was partially redueible on pressure, and became fuller and more tense when the child cried; the skin covering it preseuted a normal appearanee. The fracture could be felt beyond the anterior and posterior margins of the tumour, and, after partially emptying the latter by external pressure, the depression of the bone beneath could also be distinguished. The child, though somewhat dull and drowsy; presented no other symptoms. The only treatment adopted consisted in applying moderate pressure over the tumour by means of a pad of lint and handage.
January 19th. The swelling was somewhat diminished in size, and the pulsation less distinet.
January 2 tth. The pulsation had quite ceased; the tumour was mueli smalier and softer; it still became more tense when :he child cried, and was only reducible after prolonged pressure. Felbruary 15th. The swelling had entirely disappeared and :he child appeared to be enjoying perfect health : there was still a narked depression in the bone aloug the line of fracture.
The condition, of whicla the foregoing ease is a good illustration, was first fully described by Mr. Clement Lucas, in the Guy's HosDital Reports for 1876; since that date other instances have been ecorded both by himself and other surgeons. Lucas believes that he cerebro-spinal fluid escaping through the fracture in the vault f the skull comes, not as one would suppose, from the subarachnoid space, but from the lateral ventricle, owing to the laceration of rain substance which accompanies the injury to the head inolving the rentricular carity. In two instances he has been able o verify this opinion by post-morten examiaation, and in two ther recorded cases a similar communication has been found to xist.
The present case, to some extent, supports this view, for the leep in-driving of the boue at the seat of fracture would almost ineessarily be aecompanied by a wound of the dura mater, while rom the nature of the injury and the symptoms which the child fterwards presented, it is probable that some laceration of brain ubstance was also produced. The fact that the swelling did uot appear until after an iuterval of thirteen days also agrees with he period at which the tumour has first shomn itself in other ases, and Lucas suggests that the inflummation which follows the njury to the braiu is accompanied by softening of the cerebral ubstance and increased secretion of cerebro-spinal fluid, "so that ressure from within and yielding of the brain-wall together conribute to the escape of fluid from the rentriele;" it accordingly ccumulates beneath the scalp in the form of a distinet tumour, rhich, owing to its communication with the interior of the ranium, presents the characteristic symptoms already described. :he absence of any cerebral symptoms at the time the tumour apleared is aceounted for by the very young age of the child, for it a recognised fact that in infunts extensive mischief may be oing on in the brain, without producing the same marked symitoms which would usually be present in an adult.
The cessation of the pulsation, and the diffieulty in reducing he tumour after the twenty-eighth day, were probally owing to hegradual closure of the tissure in the bone cuttiug off the eomunuieation with the interior of the cranium, and the gradual disppearance of the swelling after that date was the result of abprption of the Ruid by natural means, assisted by the application fexternal pressure.
According to Conner (American Journal of the Medical Sciences, uly, 1881), the prognosis in traumatic eephal-hydrocele is very nfavourahle, half the recorded eases (which up to 1534 were eventeen in number) having terminated fatally from the superention of meniugitis. l'he accompanying sketch illustrates the
shape and situation of the tumour. and ita relation to the subjacent fracture, the outline of which is ind:cated hy the dark lines.

## A CONTRIBUTION TO THE STATLSTICS OF

 STONE OPERATIONS.By JOSEPII PROCIINOV, M.D., Duda-Festh.

Not long ago the excellent work of Sir Henry Thompson, On the Surgery of the Urinary Organs, translated into German by Dr. E. Dupuis (Wiesbaden, 1885), came into my bands, and in the last lecture (p. 149) I read the following lines: "It is the sum total of result obtained by employing the two procedures which is to be regarded as the measure of the surgeon's success. And I think I may say that a list of 78.2 cases in male adults, the mean of whose united ages exceeds 60 years, with 82 deaths, or 1 in $9 \frac{2}{2}$ cases, is a result which will he held to justify the selection aud adaptation of the method to the case, which has beeu adopted throughout this series. I venture to sny that it is a result which has not, certainly to my knowledge, hitherto beeu realised."

Professor Kovács, at Buda-Pesth, has recently published his stone operations. It is true that Sir H. Thompson is able to show larger numbers, but the statistical data of Professor Kovács give a result whieh is a little better than Sir H. Thompson's.

Sir II. Thompson, on 716 patients, performed altogether 812 operations, with 84 deaths ( 10.3 per cent.). His cases are divided in the following manner:

13 female patients:

$$
10 \text { lithotomies, with } 1 \text { death. }
$$

3 lithotrities - -
15 children:

$$
12 \text { lithotomies, with } 1 \text { death. }
$$

3 lithotrities - -
2 extractions.
If these 30 eases are deducted, there remain 782 cases of mate adults.

110 lithotomies, with 39 deaths, 35 per cent.
672 lithotrities " 43 " 6.5 "

## Total

82
10.5

At the First Surgieal Clinic Professor Korács, on 233 patients, performed 248 operations, with 21 and 18 deaths respectively ( 8.5 per cent. and 7.25 per cent.). There were:
it sectio perinealis lateralis, with 4 deaths.
2 sectio alta
${ }_{16}^{16}$
les lithotrities.
, 16
1 extractio calculorum
But it must be remarked that among the cases treated by lithotrity there were 3 who died of intercurrent diseases-namely, one patient of 14 years died of apoplexia cerebelli, one patient of 67 years of cholera Asiatica, and one patient of 48 years of pueumonia. If these cascs are deducted, as seems to be reasonable, the mortality becomes less.
The cases of Professor Kovács, classified in the same way ad Sir II. Thompson's, give the following result :

13 female patients:
all 13 lithotrities
115 children (namely patients under 20 years) 70 lithotomies, with 2 deaths. 75 lithotrities ., (4) 3
1 extractio calculorum
2 sectio alta

## and 2 sectio alta

"" are cited separately, because Sir (Tho two cases of sectio alta are cited separately. bocause Sir the lithotomies of male adult patients.)

These 131 cases deducted, there remain 117 male adults treatod by lithotomy and lithotrity-namely:

7 lithotomies, with 2 deaths, 28.5 per c. $n^{2}$.
110 lithotrities, (12) 10 " (10.9 per e us. 9 per cont.
Total 117
(14) 12
(11.0 per cent.) 10.2 per cent.

Consequently, from this combnation, $i$ is clear:

1. In the female patieuts lithotrity was performed without a death.
2. In children-namely, patients under 20 years-lithotomy (sectio perinoalis) was performed 70 times, with only 2 deaths:
consequently, I death to 35 , namely, 2.8 per cent. Lithotrity was performed 45 times, with 3 deaths, hecause, if the one that dicd of apoplexia cerebelli be omitted, the mortality is 6.6 per cent.
3. In the list of male adults-namely, patients over 20 yearsthere were 7 lithotomics, with 2 deaths, a result which, in spite of the small number of cases, is better than Sir II. Thompson's, the mortality being only 28.5 per cent. Of the 110 lithotrity cases, 10 died, omitting the tro patients who died of intercurrent diseases, giving a mortality of 9 per cent.

Thus lithotomy and lithotrity were performed on 117 male adults, with 12 deaths-a mortality of 10.2 per cent.; consequently the result is about 0.3 per cent. better than Sir H. Thompson's result, which is 10.5 per cent.

## CLINICAL MEMORANDA.

## FUGITIVE (EDEMA OF EYELIDS

A Sister of Mercy consulted me on March Ist of this year. Her history was that she had not menstruated for four months. (She was 46 jears old.) She had been subject all her life to stomach and head troubles, and she had had many attacks of erysipelas of the face and head; the last attack of erysipelas mas six years ago. She had always had a puffiness of the face, often the headache. Her friends often used to say, "Hav'nt you a touch of erysipelas?, Your face is so swollen." Her present condition began in December, 1887 . The swelling of the eyelids was much worse in the morning, and was sometimes so marked that she could not see out of them until she had bathed them and been about for a time. There was a discharge from the eyes at times, which glued the lids togetlier. The swelling kept coming and going; it generally lasted two or three days, and returned when she got another headache.
She was a big-faced woman, with a large, loose frame. Her face and brow were covered by drops of sweat. There was quite a cushion of cedematous tissue overhanging each apper eyelid. There was nothing which would indicate eczema. She was free from anr organic disease of the heart or kidneys. The legs were not swollen.

Remarks.-Such cases as the one giren above are not uncommon. We often find those who are the victims of periodical headaches present a condition of fugitive cedema of the eyelids. In one instance the swelling was limited to one orbit, and looked as if the man had been stung by a wasp. We also find many women during the menepause who have localised swellings of the hands and arms-swellings which are tender, pit on pressure, are preceded by pain, but pass away after a few hours of cxercise.

Tom Roninson, 3.D.

## 9, Princes Street, Cavendish Square, W.

## A CASE OF HIP-JOINT DISEASE WITH PERIPIIERAL NEURITIS AND EPILEI'SY.

T. C., aged 15, was seen by me on December 20th, 1887. For the last three years he had suffered from disease of right hip-joint. The lower limbs were stretched out at full length in the bed. On the right thigh there were aix openings which occasionally discharged pus, three on the outer and three on the inner side. Both fect were "dropped," so that the upper part of each foot was nearly on a straight line with the front of the leg. A rule placed along the left leg and foot lay only half an inch above the surface of the leg. On the sole of the right foot the arch was deep, and on the upper part of this foot there was a slight rounded prominence. He conld dorsiflex the toes and fect to a amall extent. The skin from the knce down was dry, scaly, and cracked; its condition somewhat resembled ichthyosis. The nails of the feet were kept closely cut to prevent them growing into the flesh, otherwise they presented no trophic changes. The knce-joints were ankylosed. The legs were very hyperesthetic, so that the boy would not allow them to be washed, and complained of the Weight of the hedclothes. Ilis feet could not be bent into their normal position. There was no anæsthesia. Two months before I saw him he had had severe cramps in his legs. The kneo-jerks were well marked. The plantar reflex was present on both sides. The peroneal nerves were not tender. There was no difliculty in passing urine or fieces; no bedsores. Three months before I saw him he commenced to have "fits." IIe "screeched," lost consciousness, and was convulsed in them. He never bit his tonguc or passed his urine in those fits. There was no aura. He died on February 17 th, 1889 , from exhaustion. There was no necropsy.

Remaris. - The dropped feet, the trophic changes in the aki and joints, and the hyperesthesia were due to peripheral neuriti Dr. Gorers says that nerves near suppurating joints may becom inflamed. The nerves on the left side were involved, and thi was an instance of "sympathetic neuritis." The nutritive change in the skin are interesting. Irritative lesions of nerves ar specially liable to be followed by trophic changes. It is we known that peripheral irritation sometimes produces epilepsy.

Londonderry.
E. Donaldson, B.A.T.C.D., L.R.C.S.l., etc.

## THE SIGNFFICANCE OF BLOOD-PRESSURE IN゙ RENAL DISEASE.

While I thoroughly appreciate and agree with the whole tor of Dr. Broadbent's remarks on the significance of the blood-pre sure in acute renal disease, 1 feel that on one point 1 must diff from him. After well descrihing the course of the variations , tension usual in that disease, he points out, what is certainly tru that failure to develop increased tension generally means inabilit or defect of the heart, and is, therefore, of unfayourable pre gnostic import. But he goes on further to remark that " the lo tension is not always so eaused; there is sometimes diminishe resistance at the periphery; the capillaries and arterioles are $r$ laxed, and allow the blood to slip througb them as in pyrexia, ar the pulse is not only weak hut short. It is not easy to unde stand why this should be of bad angury, and it is only observation that this conclusion las been reached."

The correctness of the observation 1 can confirm, but the $c$ planation seems both unnecessary and deficient in probalilit Putting nerve influence on one side, the three principal factors the production of arterial tension are heart power, peripher resistance, and mass of blood to be propelled. With peripher resistance increased, heart muscle developed, and tissue was going on at nearly normal rate, we have the most typical exampl. of high tension, ns seen in men who, althongh suffering fro chronic granular kidneys, are struggling to do the work of healt If, howerer, as is apt to occur in more acute conditions, the hea does not develop power in proportion to resistance, we find t] pulse still persistent but not so hard. Persistency of the pulse, phown by the sphygmogram, commonly spoken of as the trace high tension, does not necessarily indicate raised tension, nor evt absolutely increased peripheral resistance; it only shows that th absoutely icreasedped relatively to the propelling force, and
resistance is increased found not uncommonly to co-exist with great sof tness or compres. bilits.
Shortness of pulse is, however, a different affair, and is on seldom found in conjunction with the increased peripheral resis ance common to all ferms of Bright's disease. Any interferenc however, with the mass of blood to be propelled may, at any ra for a time, take a way both the tension and the persistence, learii the pulse both weak and short. We see this nfter bleedin zometimes after purging, and 1 think it possible that in Dr. Broa bent's case the course of the disease had so interfered with the naa of the blood as to produce shortness, as well ns compressibility. the pulse, and that the condition may, therefore, bee.explaia without calling on the lyypothesis that the capillaries and arte, oles were "relaxed." The heart was very weak, and there was increased tissue change to produce excess of excrementory matt and, therefore, of resistance, so that there was no likelihood any incrense of tension, and I suppose that the disturbance both mass and quality of blood, produced by the large dropsic effusion, and the extreme alhuminuria would, like either bleediu or purging, be sufficient to produce the shortness of the pulse. make this suggestion merely for the sake of putting this case all fours with others which on any different hypothesis are ve difficult to explain.

While compressibility of pulse is not nncommon in the lat stages of chronic renal disease, such shortness as to be suggesti of diminished peripherat resistance is chiefly met with in cases which some intercurrent malady, such as paralysis, has so alter the patient's general condition as to food and waste and blow production, that the mass of blood to be moved is lessened. As fact, we do see men whose pulses have formerly been so tight to burst their arteries, leading an invalid semi-vegetable exi ence, with pulses beating shortly in slack arteries, the peripher resistance no doubt still heing sufficient to oppose the passage quantity, but, the quantity being no longer there, the amount be propelled is well within that which con be resisted.

This is, 1 think, the true explanation of these somewhat m


#### Abstract

ases in which the pulse is slack where we should expect it to be ersistent, and it may possibly apply to the one so well described


 y Dr. Broadbent.
## Halifax

## SURGICAL MEMORANDA.

## A CASE OF INDANTILE INTESTINAL OBSTRUCTION゙.

in October 8 th, 1888,11 rs. H. gave birth to her first child. Its owels not acting at the end of twenty-four hours, a dose of castoril was given by the mouth, which was repeated next day, and a mall soap suppository inserted. These were repeated on the third ay. Afterwards it was discovered that the rectum was all but ccluded just above the sphineter. Just before this there was a uantity of most offensive material vomited, which was so very isagreable that the babe was removed from its mother. Reeated trials failed to force a passage into the bowel. The skin -as rapidly changing colour, aud collapse seemed to be setting in. n the sixth day I succeeded in passing a small probe through the pex of the inverted cone in the reetum, and after wards the blades of small pair of dressing forceps, whiel were gradually expanded. hrougl this opening a No. 10 gum elastic catheter was passed to te extent of four incles. $A$ brass syringe, charged with an nulsion of castor-oil and warm water, was attacled to the ther end of the catheter, and about two ounces injected. This ad the effect of distending the bowel, and allowing the catheter i slip higher up still. By perseverance in this method, the hole of the catheter was passed into the bowel, and the distal id could be felt near the ascending colon. About six ounces of te above emulsion was then injected, and the catheter withrawn. Eight hours afterwards the babe passed a free motion of leconium. In eight hours more it passed another copious moon, which smelt very strong, aud looked dark olive-green. The ttle patient looked exceedingly ill. The skiu was mahogany-tint, ad very shrivelled; the bones of the head had sunk; the hands and feet :amped; the lips and tongue dark purple. The nurse then gave it a arm bath, and afterwards wrapped it well up in wadding, and ipplied it with a bottle of milk and water, which it sucked tvenously. It was then carried back to its mother, who had not en it for sixty-four hours, and never expected to see it again. he babe soon resumed breast-food, and for same time did well. I terely bring this case before the profession to show that these cases infantile occlusion of the rectal end of the bowel are not always , bad as to require colotomy. There was an undoubted stricture ithe bowel, a bout an inch and a half from the anus. This wasoverme by, first, a probe, and afterwards dilatation of the blades of small pair of dressing forceps, and the whole tract of colon disnded by enemata introduced througli a long gum-elastic atheter, which enabled the latter to slip along to near the secnding colon. Whether the emulsion passed through the ileoecal valve into the ileum, and so released a possible intussuscepon, I cannot say. Treves says (Intestinal Obstruction, page 38) that enemata do not pass this valve.

Thomas P. Hartey, M.D., L.R.C.P.Lond., M.R.C.S., etc. Springfield IIouse, St. Leonard's-on-Sea.

## THERAPEUTIC MEMORANDA.

## LIE ACTION OF ANTIPYRIN IN MGRAINE THAT OF AN AClD.

ince my paper on the treatment of the paroxysm of migraine $y$ aeids appeared in the Journal of January lith, 1888,1 have everal times been askel whether I could explain the good effects $f$ antipyrin in the sanse kind of headache.
1 was at first inclined to think that its action as a nerve sedave was sufficient to aceount for its effects, and that it perliaps cted like bromide potassium; there was, however, some diftialty in accepting this view, for several fellow-sufferers, who, ke myself, had found that bromides were of comparatively little se, yet found that antipyrin acted like a charm.
I therefore repeated my experiments with antipyrin, and found oat it quickly and decidedly increased the acidity of the urine, fact which I had overlooked in my previous experiments with - probably from taking too small a dose to overeome minor disarbing influences.
I now find that a dose of trenty grains raises the acidity of Io urime within the first hour after taking it, and the rise con-
tinues and increases for some four, five, or six hours more, and one drachm taken in three doses causes a very distinct rise in the acidity of the twenty-four hours, aud a decided fall in the uric acid excretion. Further, in experiments on myself, antipyrin caused the pleasant feeling of well-being, which I have noticed in my paper on Epilepsy in the Neurologisches Centralblatt of March 1st, 1888, as one result of taking acids. I should therefore have no doubt that the rise in acidity it occasions is sufficient to account for the action of antipyrin in curing any case of migraine which is due to uric acid.
Another instance of the samething is probably to be seen in the good results which some have obtained in these headaches with chloride of sodium (see note in Jourval, vol. ii, 1887, p. 523) as this drug also raises acidity, and acts as an acid.
I have not myself made use of antipyrin in the treatment of migraine, formy results with acids are completely satisfactory; and 1 frequently hear from other people of their obtaining good results. I notice also that somewhat smaller doses of acid than those I have recommended appear often to be sufficient.
30, Welbeck Street, W.
A. Haig, M.B., M.R.C.1'.

## REPORTS

HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUNS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

## QUEENS HOSPITAL, BIRMINGHAM. <br> cases of nervots disease.

(Under the care of Dr. C. W. Suckiing.)
Tabes Dorsalis, with Rapid Development of Ataxia.-In the following case the ataxia developed so rapidly that the disease in this instance deserves to be called acute. The patient, up to within a fortnight of his admission, was walking about in eharge of a team of horses; while, when admitted, he was totally unable to stand. Noreover, the inability to stand came on in a single night. H. B., a carter, aged 33, was admitted in February, 1837, complaining of loss of power in the legs. He stated that five years earlier he had a sore on the penis, but no rash or throat affection. Five months before admission he found that he staggered wheu standing up and washing his face. Later on he noticed numbness in his feet and a sensation like "walking on wool," with shooting pains at intervals. The symptoms rapidly increased, but he was able to walk by the side of his horses until a fortnight before his admission, when he suddenly found himself unable to stand. He had been out all day, walking perfectly well without any difficulty, but the next morning he was unable to stand, the ataxia thus developing within a few hours. When admitted he was quite unable to stand without support, swaying in all directions. He could more his legs about freely and with considerable force, but could not properly control the movements. There was no vertigo. The muscular sense was greatly deficient, both in the upper and lower extremities. There was a separation of tactile and painful sensations. When pricked with a pin contact was first felt and then pain. The knee-jerk was lost on both sides, the plantar reflexes were also lost; the other reflexes were normal. There was myosis, but the pupils responded to light and accommodation. There was nystagmus when the eyes were directed strongly to the right or left or in an upward or downward direction. Diplopia was also observed when looking upwards. The fundus oculi on both sides was normal. After admission the ataxy rapidly iucreased, and he soon found that he could not hold his pen to write, and he complained of loss of control over the movements of the little and ring fingers of the right hand, with numbness; his writing was almost illegible. The patient was at first treated with iodide of potassium, but the symptoms increased while he was taking large doses of this drug. Nitrate of silver was therefore giren, and in a few days he expressed himself as being better, the numbness and loss of control over the fingers had disappeared, and his writing was mucl better. The girdle pain and shooting pains in the legs were also relieved, but he still remains uable to stand. There were no crises of any kind.
Hemiplegia with Ilemianesthesia due to Cerebral Hamorrhage. -A. P., a woman, aged 59, was admitted in Mareh, I857, suffering from loss of power on the right side. The only feature of interest
in the family history was that her father suffered from gout, and that one of her brothers is gouty: A few days before admission, wbile standing, her right arm began to tingle, and in a few minutes she lost all power aud feeling in the right leg and arm, and also lost her power of speech. On admission, it was found that the right arm and leg were completely paralysed; the lower facial muscles on the right side were also weak, and the tongue was protruded to the right. There was also complete anæsthesia of the right side of the face. right arm and leg, and of the right half of the trunk to the middle line. Ve hemianopia or affection of the special senses was obserred. There was cardiac hypertroply with accentuation of the aortic second sound and a hard pulse, the arteries being very atheromatous. The urine contained a trace of albumen, but was otherwise normal.
The patient improved slowly, and in a fortnight could move her leg fairly well, but the arm remained almost completely paralysed. The anæsthesia to some extent had cleared up from above down in the upper extremity, sensation being quite lost on both surfaces of the hand, but having returned slightly in the forearm, and to a still greater extent in the arm. P'ainful impressions could be easily distinguished, but tactile and thermal sensations wero completely lost. The anesthesia formerly present in the right side of the face had also disappenred, and on the trunk and right leg was much diminished, sensation reappearing in the leg also from above down. The muscular sense was still completely lost in the right upper extremity, but was only slightly impaired in the leg.
On April 14th it was noticed that the anresthesia of the lower extremity was clearing up rapidly, and remained only along the outer surface of the dorsum of the foot, where she could not feel a pin prick, or a light touch.
On April 19th she complained of pain in the right elbow and wrist joints, which were found to be slightly awollen.
May 15th.-The patient got up, and could walk unaided, but with considerable dragging of the right foot. The power of movement had returned to a considerable extent in the right arm. In the lower extremity she could feel and localise a very light touch, and sensation was now recoverel in the right half of the abdomen, but was still impaired in the pectoral region. She was still unable to perceive the exact position of the arm or leg. The recorery of sensation was far in excess of the recorery of motion.
Remiths by Dr. Suchling.-Ilemianesthesia is far more eommonly due to hysteria than to coarse organic lesion of the brain. Still, it is not infrequently observed in severe cases of hremorrhage. The clot in the above case is, in all probability, in the internal capsule, and due to rupture of the lenticulo-striate artery. The sensory fibres of the internal capsule occupying its posterior third are evidently damaged. All forms of sensation were impaired, the loss of muscular sense being very marked. The sensory portion of the internal capsule is supplied by the posterior cerebral artery and not by the middle cerebral, so that, in cases of hemiplegia accompanied by hemianesthesia due to a vascular lesion, the case is alwars one of hiemorrhage, obstruction of the middle cerebral artery by a thrombus or an embolon not affecting the sensory portion of the capsule.

## ST. BARTHOLOMEW'S IIOSPITAL

a case of tumour of the fowbr jaw: endcleation: rehoval of the leff half of the lower jaw.
(Under the care of Mr. Walsham.)
M. W., a woman. aged 25 , was admitted on July 12th, 1881, having been sent to Mr. Walsham by Mr. Ifarrison, of Braintree. The patient, who appearel in perfect bodily health, stated that about nine yeara ago, whilst cracking a nut, she broke her second left molar tooth, and about two rears afterwards noticed a swelling of the jaw in that region, which then began to be painful. The swelling and pain had gradually increased, and had been attended with a discharge from an ulcerated opening in the gum. On examination there was found on the left side a awelling of the lower jaw, *xtending from the anterior bicuspid tooth backwards nearly as far as the angle, and downwards to the lower margin of the bone. It projected both externally on the cheek, and internally into the floor of the month. In the situation of the second left molar tooth, which was absent, there was an ulcerated opening leading into a cavity extending from that point downwards and forwards
towards the bicuspid teeth. A small quantity of puriform fluid
exuded from the opening, and a fleshy gramulation was aeen a the entrance of the sinus.

On July 16 th Mr . Walsham made an exploratory examination under gas, and a piece of the tumour was removed, and appeared on microscopic examination, to have the structure of a sarcoma.

On August 3rd an incision was made through the skin anc periostenm, along the lower margin of the jaw, extending from ; little to the left of the symphysis nearly as far back as the angle the periosteum was separated from the outer table, and sufficien of the latter was removed with bone-scissors to expose the tumour which was found expanding the bone around it. The tumoul was next enucleated with the aid of a raspatory, leaving a smootl walled cavity in the interior of the jaw. At the situation of the second molar tooth, however, the tumour had formed for itself: smaller loculus, and as at this spot the growth did not shell out se readily, Paquelin's cautery was swept over the interior of the cavity After all the growtb had been removed, the ulcerated aperture at the situation of the second molar tooth was found to communicat witl the cavity in the interior of the bone. It appeared, therefore, that the growth had commenced at this situation, and, expanding the bone, had protruded into the mouth through the socket of the tooth.
The growth is described in the notes as having the microscopicn characters of a sarcoma, but beyond this, and that it was of a papillary nature, the detailed account of its minute structure is unfortunately not giren.
The patient made an excellent recovers, and returned to the country on September 20th, with the wounds in the mouth and below the jaw completely and soundly healed. Nothing more was heard of her till February 25th, 1886, four years and a hall after the operation above described, when she was again admitted into the hospital with a large tumour of the left side of the lowet jaw. In the meantime she had married, and had three children. She had enjoyed perfect health till two years before, when she noticed a return of the swelling about the site of the former operation. The lower jaw on the left side was now found expanded by a tumour, which had fungated at one spot into the mouth, and was infilitrating the cheek. It extended along the alveolar margin of the jaw, and prevented the teeth from being completely closed. There were no enlarged glands, and the patient's general health was good.
On March 5th Mr. Walsham excised the left half of the lower jav in the usual manner, and a portion both of the mucous mermbrane of the cheek and of the masseter muscle, which were to some extent infiltrated. The natient made a rapid recovery, and was discharged Marcl 30th with the wound soundly healed. When last heard of, January 25th, 1888, there had been no return.

Remarks iy Mr. Walshant. - Thespecimen was examined by Mr. Bowlby, and slown by limat the Pathological Saciety; it is now contained in the hospital museum. The microscopical examination of the tumbur after removal of the jaw clearly showed it to have the structure of those growths for which Mr. Eve has proposed the term "mnltilocular cystic epithelial tumours." Such tumours appear to be the result of the ingrowing of the epithelium of the gum consequent upon an increase of the blood-supply attending certain injuries, the irritation of decayed teeth, and the like. Ther are generally of slow growth, frequently do not return, and show little tendency to involve the lymphatics or to become disseminated. The small portion of growth removed for microscopical examination before the first operation was thouglit to have a sarcomatous structure ; but, as the growth after enucleation does not appear to have been examined with sufficient care, it is questionable whether from the first it was not a multilocular cystic epithelial tumour. Its clinical character, moreover-namely, slow growth, its origin in connection with a brolen tooth, the absence of any glandular enlargement and of any tendency to general dissemination-bear out this view. The growth had already attained some size wheu it first came under my notice, and had perforated the bone in places, and consequently some outlying portion probably escaped extirpation. The propriety of an early and therough removal of the growth whilst it is yet confined within its bony case cannot, I think, be too strongly insisted upon.

Accident to Dr. Reid, Rotiresay.- While driving througli Rothesay on April 25th, Dr. Reid met with a severe accident, but is, we are glad to learn, now recovering.
Padmingtos Green Children's Hosprtat-Miss Augusta Forbea bas been appointed Matron of this hospital.

# REPORTS OF SOCIETIES, <br> ROYAL MEDICAL AND CIIIRURGICAL SOCIETY. <br> TUEEDAY, May 8TH, 1888. 

Sir E. II. Sievering, M.D., President, in the Cliair. On the Results of the Treatment of Pulmonary Consumption Residence at High Altitudes, as exemplifed by an Analysis of Cases.-D1. C. Theodore Fillians effered a contribution m his own practice of $1+1$ cases of phthisis treated in sanitaria rying in altitude from 5,000 to 9,000 feet, in the Alps, the Recky juintains, and the South African llighliands, during the last nime ars, in orlder te deduce certain 1 racetical rules therefrom. The licsises had bcen tabulated forstatistical purposes under the fellow-
3 headings: Sex. Age. The length of inluess before the comh headings: Sex. Age. .The length ot milless before the comture of cases. State of the lungs. Medicine and diet. Length residence at high altitudes. The Alpine climate was then comred with that of Celorado and the Senth African Highlands. c results of this treatment had been tabulated under the heads General-referring to the general health, vigour, and weightcal, including the cenclusions arrived at from the examination of cal, ings. The general results were divided into (1) cured 41.13 r cent., where the restoration to health was complete, (2) greatly proved 29.78 per cent., (3) improved 11.34 per cent., ( $t$ deterioted 17.02 per cent., thus giving a total of 82.25 p per cent. imored nnd $11.3 \pm$ per cent. deteriorated, including 13.47 per cent. deaths. The local results of the 141 cases yielded improvent, greater or less, in 74.82 per cent. (including arrest in arly 44 per cent.), and deterioration in 21.5 per cent., and a itionary condition in 3.59 per cent. Among the first stage cases ere was imprerement in 91 per cent., and arrest of disease in 63 $r$ cent., with detericration in nearly 7.5 per cent. Cases of unilacal first stage gave 92 per cent. impreved and 70.5 per cent. of rests, and cases of bilateral affection yielded 87.09 per cent. of proved and 48.38 per cent. of arrests. In the second and third ige cases there was improvement, to a greater or less extent, in per cent., arrest in 10 per cent., and detericration in 46 per at. Single cavity cases gave better results than cavity cases th the opposite lung involved, and left lung carities showed a s tendency to change, either for better or worse, than the right ag ones. The following conclusions were arriced at: I. That olonged residence at high altitudes produced great imprevement the majority of consumptive patients, and complete arrest of edisease in a considerable proportion, such arrest being in a ore ar less degree permanent. 2. That in order to secure these rantages, patients must he free from pyrexia and all acnte symoms, nud must possess sufficient lung surface to adequately carry the precess of respiration in the rarefied atmosphere. 3. That the fluence of the climate seemed to promote a change in the ngs, either of a curative or destructive character, and to oppose iescence. 4. That residence at high altitudes caused enlargeent of the therax, hypertrophy of the healthy lung-tissue, and e derelopment of pulmonary emphysema around the tubercular sions, and that this expansion of the chest was accompanied by minution of the pulse and respiration rate. 5 . That it was proble that the arrest of consumptive disease was partly owing to e pressure exercised on the tubercular masses by the increasing thk of the surrounding tissue. 6. That the above local changes ere accompanied by general improvement, shown in the cessam of all symptoms and the gain of weight, colour, and of muslar, respiratory, and circulatory power. 7. That consumptives both sexes benefited equally by mountain residence, but that e age of the patient excrcised considerable influence on the re1t. 8. That the high-altitude treatment seemed to be specially apted in cases where leeredity and family predisposition were esent. 9. That the climate was useful in cases of hemorrhagic ithisis, and that homoptysis was of rare occurrence at the ountain stations. 10. That mountain climates were most effecve in arresting phthisis when the disense was of recent date, but ey were also bencficial in cases of lenger standing. Il. That e special effects of high-altitude residence on the healthy and -k were commen to all mountain ranges of clevations of from 100 feet and upwards. 12. That to ensure the full adrantages of gh-altitude residence, a period of at least six months was necesry in the majority of consumptires. In cases of long standing d of extensive lesions, one or two years were often requisite to oduce arrest of the disense. 13. That, in addition to the above
examples, mountain climates were beneficial in (1) cases of imperfect thoracic and pulmonary development; (2) in chronic pneumonia without bronchiectasis; (3) chronic pleurisy where the lung did not expand after remoral of the tluid; (4) spasmodic asthma without much emphysema ; and (5) in anrmia. 14. That they were contra-indicated in the following conditions: (1) Ihthisis with double cavities, with or without pyrexia: (2) cases of phthisis where the pulmenary area at lom levels hardly sufficed for respiratery purpeses; (3) catarrhal phthisis; (1) erethric phthisis, or phthisis where there was great irritability of the nervous system; (5) emphysema; (6) chrenic bronchitis and bronchiectasis; (7) disenses of the heart and greater vessels; (8) affections of the brain and spinal cord, and conditions of hypersensibility of the nerrous system: and (9) where the patients were of advanced age, ind where they were too feeble to take exercise.-Dr. Bowles wisbed to call attention to a point which was very common in the Alps, and produced pathological changes, namely, sunburn. It did not seem at first sight to hare much to do with phthisis, but he considered that it might be found to throw some light uponit. Snow was a potent factor in producing the effects of sunburn, as might be seen in any collection of snew walkers in the high Alps, as contrasted with thase whe walked in the lower levels; some of them felt a stinging sensation in the face almost as soon as they got upon snow, and developed a condition almost like erysipelns. ITe had noticed that the freckles on a face were almost nuaffected, and from that indication had painted his own face bromn before going on the snors, and had by that means succeeded in aroiding being burnt. He had been interested to learn subsequently that that was a plan adopted for a similar end, by the natives of North Africa and Sikkim.-Dr. Herman Weber was specially interested in Dr. Williams's figures, as he had compiled somerrhat similar tables himself in 106 cases which he had sent to high altitudes. His results were not quite as satisfactory as those of Dr. Williams, but very nearly so, for they showed nearly 40 per cent. of cure, and nearly 40 per cent. of improvement, more or less. Ile had, however, sent a larger proportion of patients in the first stage (namely, 70 out of 106 ) than Dr. Williams. Of his cases, 55 per cent. had gained weight, $35^{-}$per cent. had remained stationary, and only 7 per cent. had lost weight. He was not inclined to attribute rery much importance to this last group of figures, as it was largely dependent on the opportunities of nourishment before leaving England; nor did he attach value to altitude, except as making epen air and exercise easy. At Frankenstein, for instance, which was less than 2,000 feet above sea level, he theught they get quite as good results as in the high Alps, or even better.-Dr. de Havilland Hall had been sorry to hear nothing from Dr. Williams about laryngeal phthisis. He should be glad to know if Dr. Williams agreed with the general opinien that no gain was to be got for that from high altitudes, unless in the casea in which the laryngeal mischief was merely catarrhal.-Dr. J. E. Pollock theught there was something to be learnt from figures in this matter, and was grateful to Dr. Williams for what he had put befere them. He had himself, a good many years age, collected and tabulated a series of 13,500 cases which had been under his observation at the Lrompton Hospital. Altitude was only one of the many agents which might tend to cure phthisis, and on what all the others were we had still a great deal to learn. The cases Dr. Williams had selected to send to the Alps were just the cases that would do well in Lendon also. The cases where there was pyrexia had been excluded, and he must draw their attention to this, for really it secmed to him that this was half the battle. The cases with a clironic first stage did well in England alse. The cases with a limited carity in one lung lasted longer in England than those in any other stage of any other form of phthisis; they were checked by the consolidation, and might live through twent $y$-five or thirty years. And, lastly, the cases of scattcred depesit often remained unchanged for a leng, while disease Dr. Williams of a rich man's gout, and a ponr mans. The phatically a rich man'a plithisis. What these people were suffering from, whe wonld indulge themselres in their weighing man chines and their tobogenns, and sumport their dactors and their parsons, was a very different thing from the malady of les miserables with which we all had so much to do nearer home.Dr. A. Tucker Wise remarked that in the Alps appetites improved and spirits rose in all who could enjoy the sun and take wholesome exercise, and there was very little anneyance from the lesser celds and coughs. The cold ascptic air acted as a selative to the ceugh, and the rooms were often not heated above $50^{\circ} \mathrm{F}$.

The action of the sun's rajs helped to change the white corpuscles of the blood into red, and to develop hamoglobin. The ozone was leneficial. He had noticed that those who perspired readily did not have the usual dyspuca of a high altitude.-Dr. Ewant had no doubt that the poor would improve even more than the rich if they could go to equal comforts in high altitudes; it was difficult, or in fact impossible at present, that they should go. The question they had to consider was what was the best way of improving phthisis in rich men. They suffered here from luxurions living: in the Alps they got physical and mental rest. They got complete change and a fresh spring of hope. If anyone doubted it, it would be best for him to go to see the patients whilst they were out there, or at least to hear their evidence when they came home. He had himself been greatly improved by four winter visita to the $.1 l p s$, and the comparative want of vigenr and freshness in the liviera had struck him much. Nerertheless, much discrimination was wanted in choosing the cases to send to the Alps.-Dr. IIvgeard had not met with a condition of hypertrophy of healthy lung-tissue in the Alps, such as Dr. Williams had mentioned. He had found the chief change in the chest was increased capacity for movement, a greater maximum of expansion in inspiration or smaller minimum after expiration. IIe could not agree with what Dr. Bowles had said as to the jrobable effect of snow in the cure, for the consumptives did equally well in Mexico and Colorado and the Andes, where there was no snow. It was a remarkable fact that phthisis was completely absent from Mexico, although it was a crowded city:-Dr. Quarn was very much obliged to Dr. Williams for his statistics, but he could not help saying that to lim they were absolutely valueless. Ile had heard not a word of the constitutional symptoms and dyspepsia of these patients, and he was inclined to think they got well because they could not help it; they would have got well anywhere. One point went atrongly against his sending anyone to the Alps, and that was the most unfriendly fashion in which Switzerland had forbidden English physicians to practise there, under pain of imprisonment. That was a genuine grievance, and needed speedy attention.-Dr. C. T. Williams hegged to thank the meeting for their kind reception of his paper, and for their rarious criticisms and suggestions. ILe was glad to find Dr. Weher, on the whole, confirmed his statistics. Before he could quite believe nll that was said of Frankenstein as a health-resort for phthisis, he wanterl to see more statistics about it, and asked where he could find them. He lad found, as Dr. Mall had expected, that laryngeal phthisis was not benefited at all by treatment at high altitndes. The hypertrophy of healthy lung-tissue he had mentioned was a conclusion to which be had been led by the absence of any other hypothesis to explain the physical facts of increased nausea, chest capacity, and breathing, as measnred by the spirometer. IIe acknowledged great debts to Dr. l'ollock, but ventured to doubt if even he conld show him so many cases of arrest, although he admitted for his own part, of course, that ho had selected his cases. IIe referred to many tables on the walls with a view of showing that many gromps of cases treated at the English coast, or on the Riviera, or by sea-royage, did not show equally good rcsults with those treated at high altitudes.

## OBSTETRICAL SOCIETY OF LONDON <br> Wednespay, May 2nd, 1888.

Jomn Whiliams, M.D., l'resident, in the Chair.
Specimens,-Mr. Doras : Glandular Structure in the Substance of a Primary Cancer of the Fallopian Tube.-Dr. Galabin : Microscopic Section of Tube from a case of Tubal Gestation at fourth or fifth weck.-Dr. Griffith: (1) Microscopic Section of Oviduct of lirog, showing Tubular Glands; (2) Microscopic Section from a chas of Interstitial Gestation, showing Mucous Follicles in the Muscular Wall of the Fallopian Tube.-Dr. Ilorrocks: Completely Inverted Uterus removed by Operation.-Dr. Graili IIewitt: Invalid's Compendium,-Dr. (Ionsos: Auvard's Nipple Shield.Dr. Arsistroxat (Liverponl): Apha Enema Syringe.

Cyst Connected with C'terus, and Simulating İnlargenent of that Organ.-Dr. Cullingwontir described the case of a woman, aged 23, admitterl into hospital on November 23rd, 1884, with an abdominal awelling which had been olserved for five months. The catamenia were regular, but during her last pregnancy they had continued to the seventh montli. The swelling fluctuated distiactly, and reached upwards as high as half way between the
umbilicus and the ensifornt cartilage. A soft bruit, synchronous with the radial pulse, could be heard, especially towards the left ilinc region. The uterus lay high in the pelvis, and was intimately connected with the tumour; no feetal heart soundz could be heard. She left hospital, but returned on Deccmber 20th, sudden abdominal pain having followed an attack of profuse metrorrlagia, and the abdomen, which had been very tense. hecame soft as the pain set in. She was pale and collapsel when readmitted; high temperature followed. By December with she had greatly improved. A distinct, firm, elongated, morable tumour could be felt in the lower part of the abdomen. Ascitic distension of the abdomen took place. On January 19th, 1887, Dr. Cullingworth performed abdominal section. Six pinta of ascitic fluid were cleared away, and there were evidences of recent peritonitis. The uterus, or what appeared to be the uterus, was enlarged, as at the fifth month of pregnancy. Douglas's pouch was obliterated by adhesions. The right ovary (as large as a hen's egg) and the tube were found to be covered with recent lymph; they were ligatured and remored. The left orary was normal. The omentum was enormously thickened. Nothing like a ruptured cyst was detected. The patient died, with symptoms of catarrhal pneumonia, eleven days after the operation. At the necropsy the uterus was found to be of normal size, and what had appeared to be the enlarged uterus proved to be a thick-walled cyst, containing a quantity of thick, opalescent, jelly-like fluid, in which were some portions of tissue, like softened parchment. The left Fallopian tube ran along for some distance in the wall of the cyst, but did not anywhere communicate with it. No fotal remains conld be found. A thickened patch of tissue on the cyst-wall was carefully examined, but Dr. T. Harris (Manchester), who examined it wben fresh, could find no evidence that it represented degenerated placental tissuc. The specimen had been referred to a committee after its exhibition before the Society in April. Their report was now read; the parts were minutely described, and it was concluded that it was impossible to say whether the tumour was a cyst which had grown, possibly, from the left broad ligament and extended to the right between the uterus and rectum, thus becoming adherent to the surrounding parts, or whether, on the other hand, it was the product of an inflammatory process with pseudo-cystic walls. The cyst had completely separated the posterior part of the uterus from its peritoueal coat. Douglas's ponch lay belind the cyst, obliterated by adhesions.-Mr. BLAND Sutron believed that the cyst really represented hydatid disease.-Dr. Honracks thought that the thickness of the middle muscular coat negatived that suppositinn. -Mr . Surton considered that tbe presence of a layer of muscle fibre supported his view.-Dr. Celingaworth regretted that the fluid from the cyst had not been examined; he was inclined to agree with Mr. Sutton's theory.-Mr. AlbaN Doran admitted that the cyst occupied the position noted by Freund and others in their recorded cases of hydatid disease of the pelvis. But hydatids were usually much disseminated, and none were discovered at the necropsy on Dr. Cullingworth's case.-Dr. Hrwitr had seen a case where a hydatid tumour was found in the same gituation as in Dr. Culling worth's specimen.
The Glands of the Fallopian Tubes and their Function,-3tr. Biand Sutton endeavoured to ghow that the mucous membrane of the tubes in the human subject was, contrary to the current opinion, glandular, and that the tubes themselves had a function beyond acting as aimple passages for ova. Their structure had been so thoronghly investigated by competent histologiste that the queation was merels a matter of interpretation. The homology of the various parts of the human uterus and the avian oviduct was described, and the function of those parts considered. Thus the infundibulum and the alloumen segment of the oviduct corresponded with the Fallopian tube and its fimhrio. The ahellforming segment and the uterus proper were homologous. The ragina was the homologue of the isthmus and the oviducal por tion of the eloaca. The nature of a gland was considered, and comparison made between the epithelial diverticula of the oviduct, the uterus, and Fallopian tubes, in order to show that the
socalled ruge of these tubes were really glandular diverticula, so-called ruge of these tubes were really glandular diverticula,
whose function was to secrete an albuminous material comparable to the albumen of an egg. From this sulstance the embryo obtained pabulum by means of the chorionic rilli.-Mr. AluAN Doras gtated that IIennig had shown, about fourteen years ago. that there were glands in the Fallopian tube, but had not con-

1oroughly demonstrated the glandular nature of the tubal meous membrane, but sceptical scientists might demand more ractical evidence, in the shape of microscopic preparations and scurate diagrams, than could be afforded by his undoubtedly ole arguments alone.-Dr. Griffith insisted that in discussing ie function of the highly specialised mucous membrane of the uman oviduct the glands found in the oviducts of many lower artebrates should have been taken into consideration by Mr. atton.-In reply, Mr. Sutron admitted the value of studying the riduct in the lower vertebrates, but when it came to be a queson of structural peculiarity in a mammal, the oviducts in lower rms afforded little that was trustworthy. Doubtless the opmion lat the rugae of the tube were glandular in function had occurred many; but they lacked the boldness, or perhaps rashness, to press it.
Hemiplegia occurring Nine Days after Parturition: Death, artial Post-morten Eivamination.-This case was recorded by E. F. Scovgal (Huddersfield). A patient, aged 37, was conied on August 218t, 1887, of her seventh child. All went well 1 August 28 th, when she complained of numbness and tingling the first, second, and third fingers of the left hand. At 1.30 m. on August 29th the nurse noticed that amongst other symoms the patient's mouth was slightly drawn to the right. At 30 p.ar. she was found as follows: complete paralysis of the left m and paresis of the left leg, slight divergent strabismns of the rbt eye, and the mouth slightly drawn to the right side. There $d$ been a little difficulty in swallowing, which had now passed ray. Conscionsness and speech were unaffected; there was me pain in the right side of the head. The skin was moist, mperature uormal, pulse 96 ; no loss of sensation could be dested. Three and a half grains of calomel pill was given, to be lowed by two ounces of Ssculap water every two hours till tharsis was produced, and a draught containing iodide of potasim and citrate of potash was prescribed. By I P.s. the left leg is completely paralysed. In the course of the next day drowsis8 came on; the bowels were opened by enemata. Later on itlessness and increased pain in the right side of the head were served; the temperature rose to $99.2^{\circ}$; the pulse was irregular rhythm and power, varying from 72 to 81 . The secretion of lk had quite disappeared by August 3Ist. The patient became natose and died at 2.15 on September Ist. The lirain alone was amined after death. A clot was found in a vein on the surface the brain corresponding in position to the right middle meninal artery, and another in a vein corresponding in position to a right middle cerebral artery. These clots were distinctly ante rrten. There was no sign of thrombi in the sinuses. The brain, us, and medulla exhibited no trace of extravasations or of any yer morbid appearance.-After some obserrations by Dr. Mosgu Mandfield-Jones on a case in his own experience, Dr. ith Napier observed that puerperal hemiplegia was practically e to thromhosis, cmbolism, or reflex influences, the first cause ing the most frequent.
A Case of Extirpation of the Uterus for Primary Carcinoma of : Body.-This communication was read by Dr. Lewens. The tient was aged 58 , and had had one child. She had been subt to uterine hemorrhago for ten months, accompanied ultitely with watery discharge, severe pain radiating to the thighs, d emaciation. On vaginal examinntion, February 26 th. 1886, vaginal portion of the cervix was found normal ; a hard lump s felt posteriorly, apparently in the supra-vaginal part of the vix. The uterus, examined under chloroform, was freely ivable, the body evidently eularged. Through the speculums ne blood-staincd discharge was seen issuing from the os. The und was then passed, and afterwards small fragments of a soft terial appeared in the discharge. On March fst, 1886, raginal irpation of the uterus was performed. The perinemm was ined, to gain room. The bladder was separated from the uterus, atero-vesical reflexion of peritonemu being, at this stage, left cut. Douglas's puch was then opened to a small extent with ssors, and the aperture enlarged by laceration effected with the gers. The utero-vesical fold was then torn through from below: the size of the aterus prevented the operator from passing his gers along the back of the uterus and over the fundus, so as to e a guide to the cutting through of that fold. The ends of the Herior and posterior incisions were united laterally, by cutting, first, throngla the mucous membrane only. The literal attachnts of the cervix were tied on each side by silk ligatures passed th the aid of an anearysm needle from behind forwards. The vix was cleared as high as the level of the internal os. Each
broad ligament was transfixed and tied in two halres, stout silk ligatures being employed. The broad ligaments were then cut through, and the aterus separated; on account of its bulk it could not be retroverted and brought out fundus foremost. The peritoneal wound was closed with silver sutures, the ends of the broad ligaments being adapted between the edges of the wound. A small drainage-tube was introduced into Douglas's pouch; it was found loose in the vagina two days later. The vagina was filled with eucalyptus gauze sprinkled with iodoform. The patient made a good recovery. The uterus was found to contain a papillary growth occupying the right side of its carity, and separated from the healthy mucous membrane by a sharp line of demarcation. She continued in good health for several months; at length a lump could be felt in the upper part of the ragina, followed by secondary deposits in the lumbar glands. She died in hospital sixteen months and one week after the operation. Dr. Lewers considered that the patient had enjoyed ten months of renewed health and comfort, owing to the operation which had prolonged her life.-The President was glad that Dr. Lewers had not published his case until able to gire a complete account of it. Total extirpation of the uterus for cancer of the cervix was not justified, because supravaginal amputation was less dangerous, and furnished as good results; recurrence, when it took place, appeared in the cellular tissue around the cerrix, and not in the uterine stump. The scanty data at our disposal did not put us in a position to judge the value of total extirpation for cancer of the body. The mortality was high, and recurrence, in most instances, so early that it remained doubtful if, in the majority of cases, life were prolonged. Still, it could not be doubted that a longer or shorter respite from suffering was given in all cases which recovered from the operation.

## OPHTHALHOLOGICAL SOCIETY OF THE UNITED KINGDON.

## Thursdar, May 3rd, 1888.

J. W. Hulek, F.R.S., President, in the Chair.

Melanotic Sarcoma.-Mr. C. Higgens gave an account of a case of this affection. The chief point of interest was that the appearance of the growth simulated to such an extent an opaque and displaced lens as to be taken for one by more than one of those who examined it. The eyeball was eventually excised, and found to contain a mass of melanotic sarcoma. The patient died with a greatly enlarged liver seven months after the removal of the eyeball.
A Point in Connection with Artificial Eyes.-Mr. McHardy pointed out that a sinister appearance almost invariably associated with the wearing of am artificial eye was very largely, if not indeed entirely, obviated when such a patient wore spectacles or eyeglasses glazed with odd lenses, so that the lens in front of the artificial eye had something like 3 D greater refracting power than that before the natural eye. The extra lens power before the artificial eye produced an optical delusion regarding the lerel and size of the latter; and the excess of lens power, which usually was abont 3 D , could be varied according to the distance at which the lens was placed in front of the artificial eye.-Mr. Tweedy thought there was nothing new in the suggestion; he had adopted the practice for many years, and beliered he owed the idea to Mr. Lawson.
Primary Tuberculosis of the Choroid.-Mr. Mcitardr read the notes of a case of local tubercular choroiditis oecurring in a child aged 6 , with negrative family listory. Me closely watched the intra-ocular condition during four weeks, and then enucleated. The constitutional symptoms which had preceded enucleation immediately subsided after remoral of the eye, and had not returned in the five months that lad since elapsed. The specimen showed that complete detachment of the retina had occurred at the time of enucleation ; that the main intra-ocular tumour was in the choroid, and that the two smaller masses in the retina were all definitely tulhercular so far as the microscopical appearances without the presence of bacilli wonld reveal. He regretted that inoculation had not been practised, urged the importance of early enucleation in analogons cuses, and remarked that the literature of the sulbject pointed to the infrequeney of local intra-ocular tuberculosis, to the not invarinble, but very usual, failure to find the Koch bacillus therein, and that successful tubercular inoculation from such masses had been effected even when the Koch bacillns had eluded detection.-The President did not remember to hare seen a single idstance
of primary tubercle of the choroid.-Dr. Hall driffitit asked how it was proved that the growth was not a sarcoma?' He had enucleated an eyelnall for sarcoma, and found a detacliment of the retina which was not present immediately before the emucleation. The improvement in the constitutional state might have been the result of the relief from pain.-Dr. Suarkey thought that the diagnosis of primary tuberculosis of the choroid could not be sustained in this case withont further history. It was a well recognised fact that tubercular peritonitis was frequently cured, as attested both by clinical and pathological eridence, the latter being extremely strong. It was much more likely that this was a case of tuberculosis of the peritoneum aud subsequently of the choroid. - Mr. Cairless described the methods of staining adopted in the search for lacilli, and alluded to some points in the clinical history of the abdominal ailment.-Mr. MCllaznx, in reply, pointed out that the appearances did not at all agree with those seen in sarcoma. There was no pain about the eye, but the tumour grew very rapidly, and heuce probably the relief of the symptoms after the enucleation. Jie quite agreed that there mas a doubt as to the nature of the original abdominal affection.

Fiunctional Eye Symptoms in IIysteria and Allied Conditions.Dr. IIItL GRIfFrtur read an abstract of a paper on this subject. He classified the cases into the follorring groups: I. Hysterical blindness, mostly monocular: 2. Amblyopia of one eye, with achromatopsin and hemianiesthesia (Charcot); 3. Same group with aisence of hemianesthesia; t. Blepharospasm as sole eye symptom. This symiptom was common in all the groups; 5 . Hysterical conjugate deviation of ejes; 6. Neurasthenic asthenopia, symptoms bilateral. Ile was in favour of the theory of changes in the centres of vision rather than in the retina, as the cause of contraction of the fiell of vision.-Mr. JEssor asked if he had met with the concentrie spiral cases described by Mr. Priestley Smith, in which it liad been shown that a neutral tinted glass enlarged the fiell. He asked if any change lad been noted in the ondinary fiells, that is, in relation of green to white, etc.-Mr. Ernest Clarke objected to all the cases being grouped under one heading, some being eridently due to fraud, others to true hysteria, and others possibly were central.-Dr. Griffith s.greed that the fields of rision were always affected. He thought it was difficult to Iraw the line between fraud and self-deception.
On the Remoral of Staphyloma of the Cornea.-Mr. Tatinam Trouspon read a paper recommending that a curred needle threaded with horsehnir should be passed through that portion of the staphyloma which it was intended to remore; it afforded a ready means of steadying the cye whilst the elliptical incisions were being made, and of remoring the portion after they were completed. The edges of the wound usually adapted thenselves readily: the jarts were then well flushed with a weak solution of perchloride of mereury, and tolerably firm pressure applicd to keep them in apposition. The results obtainerl were rery satisfactory.
Specimens.-The following card and living specimens were shown:-Dr. W. I. Corkms: lhotographs and Drawings of some Rare Affections of the Exelils: 1, Spontaneous Symmetrical Eydema of hoth Fyelids in a Boy withont obrions cause of rapid onset and slow subsidence; 2 , Spurious P'tosis due to Paralysis of Frontalis Mnscle on one Side ; :3, Bilateral Ilysterieal Ptosis.-Mr. S. 1I. A. Strphenson: Case of Donble Optic Neuritis after Measles. -Mr. J. B. LAWFord: l'athological Specimens: 1 , Pigmentation of Retina chielly along the Larger Veasels: - Colonring Matter ? Bloorl l'igment) in Cornea; :3, New Tissue Formation in Choroid. -Mr. Brathey: 1, Case of Destructire Ulceration of Eyelid in an Infant, probally Syphilitic: 2 , Case of Nipple-like Detachnent of the Retina.-Mr. Jfssof: New Form of Stereoscope.

## BIIMHTON AND SUSSEX MEDICO-CHIRURGICLL SOCIETY Thursday, May 3rd, $18 s s$.

1. W. Shlzanan, M.l.c.S., l'resident, in the Chair.

Electrical Treutment of Disectses of the Thteme--Sir Spencer Welas rend a paper on this suliject. which is published in full at p. W95,-Dr. A Postory said he had but one word to add to what had been anill hy their illustrinus master. Sir Spencer Wells. In the month of Augnst, 1885, he (the sluaker") wrote as follows: " 18 the olectrical trintment of hibroid fumours of the uterus is not deatined to altogether replace the knifo, yet it ought, when its safoty and eficacy are taken into consideration, to lee counted a most useful auxiliary to surgery; whether it is to be used only for women upon whorn it is not advisable to operate; or whether
it will delay, for all, for a time at least, or perhaps render unnt cessary, an operation which is always dangerous." These word remained true to-day. After an experience of nearly six yean during which time more than 500 patients had been treated, an more than 6,000 applications of electricity had been made, he wa able to confirm what he wrote three years ago, and to say that hi method was not in itself dangerons. It was also necessary, how ever, to state that it might become full of danger in inexperience hands, and, if antiseptic precautions were not carried out, or the rules which he had laid down were not attended to. Thes rules were ns follows: 1 . Never to employ large doses suddenly but always gradually, and according to the amount of tolerane which was slown by the uterus. 2. In all suspected or recogniss inflammations of the uterine appendages it was necessary to re double the precautions and to lessen the doses. He repeated the his method was almost constantly efficacious in relieving sym ptoms. The electrical treatment did not pretend to make a radice eure of fibroid tumours of the uterus; it was content to diminis their bulk, to relieve the patients, and to make them feel wel ln the presence of an operation such as that of hysterectom: always difficult and accompanied by great danger, and of that ; oöphorectomy, an operation not always possible nor always eff cacious, the electrical treatment, in its simplicity, in its freedol from danger, aspired legitimately to place itself before all gynecole gists as a means of treatment of fibroid tumours of the uteru palliatire in the first place, but also one which allowed us to assur our patients that they would almost certainly remain in good healt! -Dr.' Playpair said that few subjects in gynecology bad of lat years caused more interest than Dr. Apostoli's work, and he glad to find it made the subject of public discussion, so that th experience of those who had been working at it should be learn There could be no doubt that any means of treating certain classe of fibro-myomata which would prevent or postpone the formic able and mutilating operations of hysterectomy and remoral the uterine appendages would be an enormons gain, even if tb results fell far short of those claimed for his methods by Dr. Apos toli; and great credit was due to him for his energetic work, whic had thoroughly roused the interest and attention of the professiol Being anxious to see for himself, what Dr. Apostoli was doing, h (Dr. Playfair) had visited Paris at the end of last summer, an liad not only been reeeived by Dr. Apostoli with grent courtes! but lad bad free access to his earefully-reported cases, and oppo tunities of personally investigating and examining many of $h$ patients. One thing he was perfeetly satisfied of, that althoug patients. Apostoli might be an enthusiast, and possibly given to ove: estimate the ralue of his treatment, he mas at least an hone and convinced enthusiast. Certainly' in this he did not stan alone, for without enthusiasm in medicine no progress was evt made. They did not need to go beyond that room for an example i point, for liad Sir Spencer Wells not been an enthusiast in ovari otomy, in the face of the most unfair and prejudiced opposition where would be the great name and world-wide reputation had achieved for himself? As to the criticisms on Dr. Apostali method, all he bad heard were based ou mere theory or on second hanl gossip. To this sort of objection no sensible man would giv a moment's attention. What was wanted was eareful and unliasse personal investigation and accurately recorded facts, without pre judice cither for or against. If Dr. Apostoli's treatment was sub iected to tests such as these and found wanting, then ly all mean let it be condemned, but not condemned untried and unhear Sinee October he (Dr. 'l'ayfair) had been endeavouring by numerou trials to form an estimate of its ralue. In so short a time nover positive conclusion could be arrived at, especinlly as to permanenc of results, but he had at least had a fair opportunity of testing if He had not used it in anything like the number of cases in whice he might have tried it, as he selected his cases, and did not wis. to nse it indiseriminately. With the permission of the Society $h$ would say a few worls! (1) as to the cases in which it was app cable; (2) as to its possible laugers: (3) as to its application, an the difficulties conneeted with it. 1. The cases in which it han lieen most talked of were those of fibro-myomatn, attended witl hrenorrlage, and certainly this was its most important and promis ing application. Now out of the cases of this kind he had trenter most had been benefited; in some the hremorrlage had bee entirely checked, but in one or two he was hound to say that in nppreciable result on the hamorrlage had followed. It was in possible in such a meeting to enter into details, which
miglit possibly publish elsewhere, but such was the fact. Perhal he might fairly say that in three cases out of four the limmostati
recults had been distinctly good. The action of the positive current in this way was, no doubt, that of a chemical cautery, and he was inclined to think that the failures were due to the diffieulty of bringing the sound, in certain cases, inta accurate apposition with the uterine carity. Some more perfect mechanical appli-non-hæmorrhagic fibroids, the number in whieh any interference was needfulwas very small. Indeed, it was only when pressure symptoms were well marked that it was justifiable to do anything. Ine had, therefore, only treated two cases of this kind. In one a large tumour had practically entirely disappeared, but with a very serious amonnt of constitutional disturbance presently to be referred to. In the other, then under treatment, the patient,
whose tumour was impacted in the pelvis, and who had not micturated for a long time in consequence of pressure on the urethra, was already able to pass her own water. The cases in which he had found the most remarkable and satisfactory results were those of severe dysmenorrhea, and bad chronic endometritis, with profuse glairy discharges. In them the results were really very remarkable, and some cases of both kinds, which had resisted years of treatment, had apparently been perfectly eured after only three or four applications of the electro-negative currents. Thus, three cases of intense dysmenorrhoea were treated, the patients priting of themselves as follows: (a) after four applications, "entirely free from pain;" (b) "quite.painless;" (c) "hardly any pain." Of the application of the continuous current to absorb inflammatory deposits, and of the faradic current to relieve pain, he had not had sufficient experience to offer an opinion. The faradic current he had found very useful in. restoring the menstrual discharge in one case of amenorrhoea of seren years' standing in another it had failed. 2. With regard to the alleged dangers, he; believed them to have been greatly exaggerated. Dr. Keith's experience was of itself sufficient to prove this. Unquestionably, however, like all potent agents, electricity might do serious miselief if rashly employed by those unskilled in its use. He had only seen two cases in which the slightestirritation or misehief had followed
ts use. One was a case of pelvi-peritonitis withpelvie exndation, $n$ which he was conscious that he had used it too scon, and a fresli out not serious exacerbation had followed. The other was the case of fibroid above referred to: This was a dense fibro-myoma he had watched for ten years, steadily growing. It nearly filled the nelvic carity, and reached above the umbilicus. He had made ix electro-negative punctures in Douglas's poueh. These were ollowed by pyrexia, accompanied hy a profuse purulent offensive lischarge from the uterine cavity at intervals of two or three lays. The tumour had entirely disappeared, but the constituional disturbance had certainly been eonsiderable. That there vero certain risks must therefore be admitted; he did not, howwer, beliere them to be prohibitive, and time would probably how us what they were, and how they were to be avoided. 3. As to he alleged difficulties, they certainly were not of a nature to preent any well-instrueted gymecologist from adopting the praciee. He must protest strongly against the statement that had seen made that this class of work should be carried out by a irofessed electrician. - Anything more absurd he had never heard. The manipulation of the apparatus, so far as the electricity was oncerned, offered no difliculty at all. Any intelligent student ould learn it in half an lour. Theselection of proper cases, howrer, the passage of the sound, etc., required a profound gynrecoogical knowledge, as Dr. Apostali had well remarked; and beyond ny question this mothod of treatment uever could be widely and adiscriminately employed. If not . carefully used, and in uitable cases only, much mischief wonld most certainly follow.r. Aveling said be mias sure all who, like himself, were employng electricity for the treatment of uterine tumonrs, woukl feel prtified in their opinions, and enconraged to procced in their rork, by the fact that Sir Spencer Wells sympathised practically rith them. All would remember the remarkable paper which Dr. «ith published in the JoUnざAI a short time since, in which lie aid he should consider himself guilty of a criminal act were he o advise any patient to run the risk of her life by hystercetony, efore having given a fair trinl to electricity; "eren," he adds, if he were sure the mortality would not be greater than that "hich hysterectomy has given in lis private praetice-mnder 4 per "nt." No one could say Sir Spencer Wells and Dr. Keith had taken $p$ the electrical treatment of tumours because they were afraid : operating. Their exploits in abdominal surgery were knowz lover the world. Their suppart of clectrieal treatment was lerefore all the more valuable. The galvanic battery was, as
already painted ont, used. by Sir James Y. Simpson forty years ago for the discussion of a uterine fihroid, and one of the most healthy signs of the electrical method was the gradual development of it since that time, every step enabling the operator to employ it with greater safety ind effency. The two greatest modern improvements had been the use of the galranometer, and the substitution of the dispersing abdominal electrode for the dangerousabdominal galvano puncture, two points insisted upon by Dr. Apostoli. The speakersaid it was quiteamusingtoobserve the flutter of excitement which the recent rapid adrancement of electrical treatment had caused among some distinguished abdominal sectionists. From their uncompromising opposition and their abuse and ridicule, one was almost inclined to think these gentlemen feared their aceupation was gone. They need not be alarmed: there mould alway's be a placefor hystereetomy and oöphorectomy, as there seemed every reason to believe there would be for electrical treatment. An endearour was now being made to determine what that place should be. If it were proved that it could cure a patient symptomatically-could stay hemorrhage, reliere pain, and diminish bulk, in fact could remove the symptoms which urought the patient to the medical man for help-how many would propose and how many submit to the more fatal and radical operations? Complaint had been made that we were acting empirically, and were all in the dark as to the action of the galvanie current on tumours. This might to a great extent be granted, but it was no argument against its use. Who knew how quinine eured intermittent fever? If clinical experience proved that a patient having a uterine tumour could by electricity be relieved of her symptoms: and her existence rendered useful and comfortable, we were bound to employ the galranic current, and might contentedls wait until science explained what was the effect of the caustic action of the pole, and how the catalytic interpolar current acted in producing atrophy of the tumour. Dr. Areling stated that he had used the electrical treatment in sereral cases, and had met with sucli satisfactory results that he intended to continue its employment. He had met with no symptoms resulting from it to give bim. the least anxiety. He believed that most of the accidents reported were due to ignorance, carelessuess, or impatience. Sir Spencer Wells had not mentioned the use of a rheostat in his paper. A water-rheostat was a great comfort to the patient. It obviated the succession of shocks caused by adding or taking off cells, While increasing or redueing the intensity of the current. A useful dispersing electrode was one made of a flat coil of copper wire, placed between a lajer of moist spongio-piline and amadou. An important practical point was that the skin of the abdomen should be thorouglly saturated with warm water before using electricity. Dry epiclermis was a pótent non-conductor. The clay was difficult to keep sufficiently moist, and was dirty: Later in the disenssion Dr. Areling dissented from the opinion that the interpolar eurrent was inert, and asked Dr. Parsons whence he thought the ions were derived whieh arrived at the poles during the passage of the current.Dr. Inglis Parsons congratulated Dr. Apostoli on his suecess. He was not, however, able to agree with Dr. Apostoli's theory of an interpolar action. There were no scientific proofs that ans change accurred between the poles. The speaker had tried styeral experiments, thinking to prove the theary, but had found it inntenable. The first of these mas on the web of a frogis foot. It the negative pole a collection of hyelrogen cras oczurred, at, the positive a coagulation, but hetween the poles the eireulatiou proceecled as wefore, and no change in the tissues could be found muder the microscone. A siunlar result took place when a current of 250 milliamperes was passed through a small fibroid for one hour and a lialf soon after its removal from the body. Sece tions made ly Dr. Rutherfoord showed clestruetions of all tissues, except the fibrous, in contaet with the poles, but no interpolar alteration eould be discovered. The principle also held good with saline solutions. If three glasses filled with a standard solution of iodide of potash were conneeted by daunp eords, and a current were passed through for sercral hours, the solutions in the end ghasees cantaining the poles were decomposed, while that in the centre, or interpolar, glass remaned unchanged. Not only was there no interpolar decomposition, but the transport of elements from one pole to the other had apparently no effect: but the latter action required further inrestigation. These results corresponded with Dr. I'arsons's elinical experience at the Chelsea Ilospital for Wromen. If a tumour cound be punctured it soou disappeared. Il * had cured a case in this way that wis not amenable to surgical treatment. Nothing remained of the tumour lut a diffused ruass
one-third the size of the original. This probably consisted of fibrous tissue, which, as he had shown, was not decomposed by the current. The patient left the hospital three months ago, and was seen recently with no return and in good health. With regard to haworrhagic cases, he found that tuless the electrode was brought into direct contact with the whole of the bleeding surface the hiemorrhage would continue. In a case now under treatment the electrode was passed only half the full distance into the uterus, and the hiemorrhage continued, even after twelve applications. But as soon as it was passed the full distance, the hrmorrhage commenced to diminish, This was no doubt due to the fact that the uction of the current was chiefly at the poles. With regard to dosage, he found a distinct difference between those cases where the current passed first through the uterus, and thosc where it passed directly into the tumour. In the latter case a much larger dose could be used even with susceptible patients. To onc he had given as much as 250 milliampères every other day for thirty minutes, with a most successful result. If the current passed through the uterus, the restrictions laid down by Dr. Apostoli must be strictly followed.-Dr. HEYwood Sarth, in answer to the l'resident's invitation, said he had but little claim to speak on the subject, as he had no personal experience of Dr. Apostoli's treatment, nevertheless, as they were all present that evening to learn, he thought that some questions might elicit some instructive answers. IIe wished to know the way the electric current was intended to act, whether as a disintegrating force or as an escharotic. If the latter, then any cautery would do to start to destructive action, as had been the case in some of the cases reported; namely, one by Dr. Holland, and that just mentioned by Dr. Playfair, where evidently the curative process was proceeding by the sloughing away of the tumour. If the current acted as a disintegrating or decomposing process, in what way was the debris thrown off or absorbed, as filtrous tumours were exogenous, not endogenous growths, and their vascular and lymphatic systems were at the circumference of the tumours? How then was the disintegrating process, which was commenced round the needle which was thrust into the middle of the tumour, placed in relation to the rascular system at the circumference of the tumour? Then, in cases of subinvolution with chronic endometritis and menorrhagia, what was the action of the current on the lining membrane of the uterus, and did it produce any escharotic or other effect on the membrane and on the uterine follicles, or did it by its stimulus induce greater touicity of the uterus, and sn lessen the hæmorrhagic tendency?IIr. Elder (Nottingham) said that his first duty was to thank the 'resident and members of the Society for allowing him to take part in that important discussion-a permission which he would The wanting in gratitude to Dr. Apostoli for his kindness to him during a recent visit to Paris, if he had not gladly taken adyantage of. The necessarily short time at his disposal would be best occupied by first allurling to three of his most successful cases under this treatment, anil then generalising upon the other cases which had been under observation. Case I.- Mrs. F', aged 37, came wilh a history of flooding for two years and severe pressure sympuoms, totally incapacitating her for housework. A solid uterine growth filled the pelvis and reached midway between the umTilicus and the xiphoid cartilage. Treatment was commenced at tho cnd of July by galvano-punctures (negative), and continued at intervals, usually of a week, till Christmas, with the following results. The growths had decreased by quite a third, so that her clathes, which on her first visit were fastened by connecting tape, now overlapped; the periods had become normal as to time and quantity; the pressure-synpptoms disappeared, and she was able to do her work as beforetimes. From time to time she had heren soen, and the improvement was maintained. Case ni--Mrs. W., aged 48, consulted him for flooding of five months' duration due to an interstitial mynna in the posterior wall. The uterine Cavity measured four incles; seven intra-uterine applications of the gal rano-positive electrode cansed disappearance of the tumour, arrosted the hiemorrhage, and reduced the length of the cavity to three inches. Case MII.-Mrs. M., aged 35, had suffered for several years from beuts of floding, which during the past twelve months had laid ler up for week together, aml totally disabled her for worls. The uterine cavity me.sured $3 \frac{1}{2}$ inches, and a aterine growth occupying the right iliac fossa and reaching above to a level with the anterior inferior iliac spine could be well definct. Treatment hy galvano-positive intra-uterine applications was begun in Jrumary, and eontinued once a week till now, with the result of lringing about menstrual regularity, removing pressure symptoms,
and also restoring the patient to rery good health. In all, the treatment had been employed by him in forty cascs, including some examples of subinvolution, endemetritis, peri-uterine exudation, etc., without clanger to the yatient, unless in a case whicl. would again be alluded to, and with only one distinct failure to relieve more or less the symptoms for which the patients consulted him. The failure occurred in a lady suffering trom a uterine myoma, in whom complete removal of the tubes and ovaries had not arrested the draining, nor had the galrano-positive applications any better effect. The only case which gave him any anxiety was that of a middle-aged woman enfeebled by longcontinued hæmorrhage and pressure symptoms due to a large uterine growth. In Septemler of last year, after the third galvano puncture, she persisted in walking home, a distance of a mile, en a very wet night, and took a cliill. Some four months afterwards she died of septicæmia ; but whether after this interval and witt the utter neglect of common-sense precautions on the part of the patient this casualty could fairly be laid to the charge of thi treatment must be left to fair, impartial judgment. So far as his experience of this treatment had gone, he believed it to br not only a distinct advance on the treatment of myomate by rest, diet, drugs, etc., but one which 'would in most cases
sunersede remoral of the appendages and hysterectomy supersede remoral of the appendages and hysterectomy
and our plain duty in all cases where its application wa and our plain duty in all cases where its application wa.
possible was to offer to our patients this alternative.possible was to offer to our patients this alternative.-
Dr. Trarers asked what was meant by "tolerance of the uterus. -Dr. Aposioli replied that where there was a simple fibroma of the uterus in a healthy woman the uterus was made more tolerani than where there was inflammation of the annexes, or where the uterus was irritable. In the latter case much more care was needed in applying electricity. It was best to begir with small doses and short sittings. If he could intro. duce a sound, he employed that first.-Mr. Skeve Kerirb said that although sufficient time had not elapsed since Dr Apostoli began this treatment for them to pass judgment upon it, yet he could say, from an experience of nearly 3,000 applications, that the results-and some of these results had already stood the test of 8 or 9 months-had been such that Dr Keith, whose mortality after hysterectomy appeared to be thi smallest of any operator, had not found it necessary to advise either that operation or even the less serious one of removal of the ovaries since his visit to Dr. Apostoli last year. Since June Dr Keith and himself had had under treatment 92 cases of distincl fibroid tumours of the uterus, in fact, everyone where there where symptoms had been treated; and, without entering into details which would be published later on, he might say that, on the whole, the results had been extremely satisfactory. Of those 9 ? women, 76 had had more or less of the ordinary trentment withont receiving any marked benefit. The great disadvantage of this treatment was the length of time it took, though often not longe: than a visit to a watering-place, and the amount of work whic! fell on the physician or surgeon. On the other hand, one greal advantage was that, when necessary, it could be carried ont ir the out-patient room of any hospital, and that the patient could attend to her ordinary duties exactly the same as usual. They hai already heard of operation being required when this treatment hai failed. This might be so, but he would ask that a distinctior should be made between Dr. Apostoli's and various methods of treatment which went by his name. For example, a friend had told him (the speaker) that he had not read Dr. Apostoli's papers another thought that he had made a discovery when a patient told him that he (Mr. Skene Ketth) had mored the sound over the surface of the utcrine cavity. Need he say that their results had not been brilliant? The practice of Sir Spencer Wells of publishing every case of ovariotomy had been followed by Dr. Apastob in the thesis of Dr. Carlet, published in 1884 . They had had fuli details of ahout 100 cases, and it was by such means that the value of the electrical treatment of fibroids had to be decided. Dr Keith regretted much that he could not be present, but he (the speaker) hall his authority for saying that so long as they could get the results they had had by electricity, he had no intention of advising any patient to run the risk of dying after hysterectomy, or after remoral of the ovaries for fibroid.-Mr. WiL mougirby Ferser inguired as to which pole of the battery should he used in a case of uterine fibroid that did not bleed. - Do Apostoli replied that the positive pole should be used in hoomor hagic cases, on account of its bromostatic properties. In non hæmorrhagic forms the negative pole should be employed, as being
more active.-Dr. In $\operatorname{loLIS}$ PARSONs made some further remarks or
he electrolytic action in these cases, and on his own experiments n this direction.-Sir Spencer Wells made a few concluding emarks.
Electrical Apparatus.-Messrs. Mayer and Meltzer exhibited battery for the electrical treatment of fibroids and other uterine iseases. The battery, which is It in. by 10 in . by 10 in ., is arranged o that the fluid cannet be spilt if carried with ordinary care. The attery is supplied complete with Dr. Aveling's abdominal lectrode, platinum-pointed sound, and trocars. Mesers. Mayer nd Meltzer also exhibited specimens of electric lamps, Dr. Heyrood Smith's speculum lamp, etc.

## BRITISH GYNECOLOGICAL SOCIETY. Wednesmay, April $25 \mathrm{Th}, 1888$.

Arther W. Edis, M.D., F.R.C.P., President, in the Chair. Hermaphroditism.-Dr. Fancourt Barnes exhibited a case in hich the determination of the sex appeared to be doubtful. he indiridual was the third child in a family of eleven, and was ow nineteen years of age. Up to the present she had been rought up as a girl, and her tastes were decidedly feminine. His rasons for believing the sex to be masculine were-(1) the apearance ef the head; (2) the timbre of the voice; (3) the nonevelopment of the breasts; (4) the undoubted existence of a wellirmed prepuce and glans penis; (5) the imperfectly-formed rethra running down from the tip of the glans and passing into 10 bladder; (6) the utter absence of anything like uterus or raries; and (7) the appearance of the perineum. The thighs and wer abdomen were corered with masculine hairs. IIair had :own on the arms, and especially the forearms; and there were aces of moustache and heard, which were evidently shared. he head was somewhat bald. Maternal impressions were alleged a possible cause. The last born of the same family appeared to similarly affected.-Mr. Lawson Tart, Dr. Routh, Dr. Heyood Smith, and Dr. R. Barnes made some remarks.
Kolpo-hysterectomy for Malignant Disease.-Dr. F. A. Purcell chibited the uterus and appendages which he had removed trough the vagina for epithelioma of the cervix. The growth as removed by the galvanic ecraseur. As a portion of the disse appeared to be left behind, he proceeded to the total remoral the uterus, which was accomplished without less of blood. oth ovaries and the Fallopian tubes were also removed. The itient made a most satisfactory recovery, and was up and walkg about by the twenty-second day.-The President pointed out lat the patient was only twenty-five years of age, and the specien showed clearly enough the nature of the growth. Under ch circumstances tetal extirpation seemed justifiable.
A Method of treating Incontinence of Urine in the Female in ases hitherto considered to be beyond the Resources of Surgery. c. William Alexander (Liverpool) read notes of two cases in hich he had successfully treated this condition. The first as a married woman, aged 35 , who had had two miscarriages it no children. She ascribed her illness to her haring been comHled by her occupation to remain for long periods without aptying the bladder. The urethra was quite patulous, admitting ith ease the index finger, and sphincter power was lost. In other spects she was a strong, healthy woman. He first relensed the per or anterior surface of the urethra from its connection with e pubic arch. A slit was made into the rectum through the posed vaginal and rectal walls. The urethra was then denuded front and laterally only, except a small piece around the orifice, ad drawn through tho slit in the rectal wall, to which it was itched in front and at the sides, but not behind. The labia inora and clitoris-in fact, everything in front of the urethraere denuded up to the middle of the labia majorn. The vulvar ifice was then completely closed by the labia being united in e middle line with numerous fine silkworm-gut sutures. The ethra was thus pressed well back and firmly supported in its ace, and the rectal wall at the sane time held forwards by the itches that passed through it. The result had been a complete ccess. A diagram showed that there was only one external erture instead of three. The urethra opened into the rectum, id just behind the uretlura was a small fissure through which y uterine or vaginal secretion found its way into the bowel. 1 passing the finger into the rectum, the opening of the urethra uld be felt with difficulty just above the internal sphincter: e difficulty of feeling it arose from the way in which the folds the rectum covered it over. The folds were so disposed that it ruld appear very difficult for gas to pass from the bewel into
the bladder. The patient could hold her urine for upwards of four hours, and had to get up only two or three timesduring the night. The second case was that of a patient, aged 50 , whose urethra hal completely disappeared from sloughing, an unsuccessful attempt having been made to cure a cystocele some two years before. A somewhat similar operation had been successful in her case alse. --After some remarks by Dr. Granville Bantock and Dr. Aveling, Mr. Lawson Tait said that the first time he saw the vulvar orifice closed on account of the destruction of the anterior and posterior walls of the vagina was by Sir James Simpson, in I862, and he happened to be able to trace the woman"s history afterwards. It was one of prelonged misery. What was reported as a "mild diarrhcen" amounted to irritation so excessive that the patient ultimately induced someone to undo the result of the operation. A patient on whom he had operated seren years ago had also had the operation undone for the same reason. In spite of that, he was attempting to close a third, in the hope that the condition of irritation might not be common to all these unfortunate creatures. If he found that the rectum would tolerate a mixture of fæces and urine, he would agree in the performance of Dr. Alexander's operation. He suggested it wauld be better to divert the ureters into the rectum.-Dr. Mansell-Moullin said it was obvious from the diagram that the bladder, ragina, and rectum intercommunicated with each other at the seat of operation. The patient, therefore, was in no way benefited by Dr. Alexander's operation beyond what she would be by the simple closure of the vulvar orifice, and an opening made into the rectum. In either case the urine necessarily passed into the vagina.-Dr. Alexander replied.

## REVIEWS AND NOTICES,

Hunterdan Lectures on Certax Diseases of the Jawg. Delivered at the Reyal College of Surgeons. By Christopher Heath, F.R.C.S. London: J. and A. Churchill. I888.
The anthor has been so long and so well known as the most established authority on surgical affections of the jaws, that we are not surprised at his making use of his large store of material for the Hunterian Lectures, and there is no doubt that these lectures will form the best modern reference on the subjects treated in them. But the author's position as the editor of the largest and best work in recent days on the practice of surgery, and his vast field of cbservation at one of the most important metropolitan hospitals, may have led us to hope he would have devoted his practical mind to some new region of surgery in these lectures. However, there is much in them that is indicative of the author's thoroughness, though it does not seem that there is much that is new to record in this branch of surgery.

The first lecture includes cystic diseases of the jaws, and, as with the other lectures, deals with the pathology and treatment of the disease, making excellent use of the store of specimens to be found in other museums hesides that of the College of Surgeons. The second lecture considers the other tumours of the jaws, and one kind comprises the diseases of the temporo-maxillary articulation, and the rery troublesome and unsatisfactory class of cases where the jaw has become closed by disease in the joint, or by contracted scars or other similar complications outside.
The deformities produced by these diseases are certainly ugly, and the pictures often very repulsive, and for that reason perhaps the subject is not attractive; but, if the surgeon can relieve these conditions successfully, he will be the greater benefactor. The causes and the pathelogy of the disease are here specially treated of ; but there are certain points in the treatment we slould have expected to find comment upon. For instance, we miss in these lectures any reference to the steps which should be taken in performing some of the greater operations, and such reference would be advisable in any such a work as this may become for a surgeon or student in the future. The question of preliminary tracheotomy, and the best apparatus or means to prevent suffocation during operation, are important matters; the case recently reported in the Jounsal (April 21st), where a recurring sarcoma of the upper jaw was removed, shows this very clearly, and Mr. Morris's remarks are rery much to the point.

It is a pleasure to find that the experience and the opinions of the older race of surgeons and anatomists are brought prominently forward; for we cannot but feel the justice of some remarks
in'the Jourvat, recently made, that students are nowadays made to trust too much to the opinions of nodern authorities, and to averlook the work and the judgment of able surgeons nud pathologists who lived before the days of Listerism and bacteria. We do not mean to make light of what is now being done in these directions: but it is quite possible to make too much of it. It is also refreshing to find that Highuore's work is still continued by able successors in the same classical Sherborne; for we find that one at least of the recent cases, scnt to the author for operative trentment and pictured in these lectures, was under the care of Ilighmore's present representative in the practice. The illustrations are numerous, the type good, and the writing clear and forcible, as we should expest from the author.

Tidangfesion, By C. E. Jennings, F.R.C.S., M.D. Third Edition. London: Baillière, Tindall, and Cox. 1888.
This little book, which has renched a third edition, discusses an important subject to the general practitioner and to the surgeon, and we look into it with some interest to see what the author's experience will lead him to recommend. There seem to us to be two distinct points to be inquired into: first, the simplest and safest' means of transfusing; and, secondly, the kind of tluid to be transfused in particular cases. Ench of these subjects is capable of careful consideration ; and the author has succeeded, we think, in'selecting a practical and simple method of transfusing, or, more correctly, injecting into the veins fluid which is artificially prepared. The method he adopts is practically what has been recommended before him, and may be described as the syphon method, in contradistinction to the force-pump method, which has always appeared to us as dangerous and unscientific. Moreover, as he rightly points out, a simple apparatus is the only one a vailable in the majority of cases, and where skilled assistants are not within call. He is right, too, in insisting upon complete arrest of hemorrhage as a preliminary to nny transfusion. But we want fuller evilence than he gives of the utility of transfusing simple saline fluds, though there is no doubt they act as a charm for a time. But will their influence be lasting enough for Nature to work the cure? Anyhow, they are not open to the objection of blood-transfusion, as it must be done very often in general practice, or as we have seen it done in hospital practice. Roussel's ingenious apparatus is too elabornte, too costly, and too liable to be out of working order to be of real service in the majority of instances.
As to the claracter of fluid transfused, we confess to not feeling convinced by the author's arguments that he has made out his case for the simple saline and alcoholic solution, as against that of milk with saline and stimulant, and more, we think, remains to be done in this latter direction. The one or two cases he gives are not sufficient, though they are interesting and valuable." it does not seem to us that the work does itself justice as a manunl on transfusion, but here and there we find a summary of the author's opinions on certain important matters, ns on pages 21 and 63.
The appendix constitutes half the book, and gives cases, other papers on the subject written by the author, a number of experiments performed on animals, under different circumstnnces, by the nuthor and others; and extracts from medical journals, including those referring to the injection of milk. These latter we have already referred to as inconelusive.
The little book is interesting as calling attention to a very important subject. In many parts it is oijjectionable iu its style, and not scientific in its method, and the attempt at a popular and rather flashy style detracts from its influence. Very much is assumed, but not proved; but we shall he glad to see that further experience supports the sanguine hope which others before the author have felt andexpressed, that benefit is to he obtained from the transfasion of nutritive as well as stimulating fluids, when a patient has been drained by hæmorrlage, whaterer the cause.
Mr. W. If. Actsory Terbs, of Auckland IIospital, New Zealand, has been a warded a scholarship of $£ 40$ in Chemistry and Physics at the Westminster Hospital Medical School.
Presentatoon.-Dr. Cobbold, the late Medical Superintendent of Earlswood Asylum, has received from the members of the medical staff of that charity a gratifying testimony of their estcem and regard, by the presentation of a handsome spirit stand, claret jug, and palver. Dr. Cobbold, in acknowledging the gift, spoke of the great chnnges that had been effected in the five and a half years during whineh he held office, and referred to matters in which he had been ensbled to improve the position of the staff.

# REPORTS AND ANALYSES 

DESCRIPTIONS OF NEW INVENTIONS,
in medicine, strgery, dietetics, and the ALLIED SCIENCES.

GREEN'S IIYODERMIC SOLUTIONS.
Althovgh the introduction of tabloids, gelatine dises, and the like for the extcmpore preparation of hypodermic solutions at the bedside hns of late years met with considerable favour, many practitioners still prefer to employ solutions. Messrs. Green and Co., of Tower Chambers, Moorgate Street, E.C., have submitted to our notice a number of such solutions, for which they claim the following adrantages: that they are of uniform strength; that they are clear and neutral; and that they will not undergo decomposition under varying climatic surroundings. These claims, as far as we bave been able to test them, are well founded. The solutions are certainly neutral and clear, and in our hands have retained their condition when subjected for a prolonged period to widely different conditions as to temperature and light. We are informed by Messrs. Green that this result is effected by the use of an antiseptic liydrocarbon as a preservative.
Messrs. Green's list of solutions includes aconitine, apomorphine atropine, caffeine, ergotin, morphine, sparteine, pilocarpine, etc They are all of conrenient strength, the morphine especially sol a grain of the alkaloid being contained in 12 minims of the solution. Thus, a half, one-third, a quarter, and one-sixth of a grain of morphine are nll represented by nn even number of minims and no calculation is required in order to administer these doscs.

## FRY'S TRUSS.

Mr. Corrie Jackson (17. Poland Street, W.) writes: Shortly after the meetip of the Medical Society in Deeember last. feferred to hy Mr. Waiter Pye in bi article in the Joveral of Aprilith, the truss invented by. Mr. Fry of it Ive Ivy dale Hoand. Nunleall, was broukht to my notice: I fitteil one, with the hesl results, oun a patient who had had a large donble serotal hernia of fort yeerm resurts, ou a patient Mio had head urder treatment for three weeks in lios
duration, for whiel he hail hen pital for strangulation, all other trusses proving painful and in iffectual.
A great feature in Fry's truss is that it can be worn by the patient whllst lying on his back; in the case mentioned no other truss could be wort in than position.
Contrary to Mr. Pye's experience, 1 found that considemble pressure w. ${ }^{3}$ ohtained against the apert ures by the ection of the elastic welbing and tapperex shape of the pad. I believe this truss would afford very efficient rolief in cases of inguinai, femoral, and scrotal hervia on account of the ready adjust ment of the pad.

ROYAL COLLEGE OF SURGEONS.
An ordinary meeting of the Council was held at the College on the afternoon of Thursday, May 10th.

The minutes of the quarterly Council held on April 12th weri read and confirmed.
Mr. E. Hurry Fenwick was introdnced, and the President handed him the Jacksonian prize for the past year (a cheque for f12 15s. 2d., being the amount of one year's dividends received from the Jacksonian Fund), together with the instrument declaratory of the award thereof. Mr. F. A. Southam was also intro duced, and the President handed him an instrument declaratory of the appreciation of the Council of the merits of his dissertation for the Jacksonian prize. Mr. J. A. Marston was introduced, and nfter signing the necessary declarations, etc., was admitted Fellow of the College.

A Re port from the Committee on Extension of the College Pre mises, recommending the Council to authorise the expenditure of about $£ 400$ in alterations of the library nnd other portions of the building, and also recommending that. writh a view to expeditino the completion of the redecoration of the library which is contemplated, it be closed during the month of August as well as September, accommodntion being provided for readers during August, was approved and adopted.

A Report Irom the Committee of the two Colleges, on "the In ternal Arrangements and the requisite Fittings of the Room: and Theatre in the New Building on the Embankment," was read approved, and adopted.
A motion "That the annual meeting of the Fellows of the College for the election of members of the Council be held nt the College on Thursday, July 5th, at 2 o'clock, P.M., precisely," wa: agreed to.

A letter was read thanking the Council for their resolution of condolence in reference to the denth of Mr. T. B. Curling.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

UBSCRIPTIONS to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postaffice orders should be made payable at the West Central District Office, High Holborn.

## Tbe Brítish fledical: 3ournal.

 RESORTS.
ver has been said and written during the last year or two garding the development of the health resorts of this conintry, id at this season it seems opportune to inquire what may irly be aimed at in this direction, and what is clearly illlvised and chimerical. It can hardly be denied that in the $t$ of popularising, sanatoria and rendering them thoroughly tractive, we have still much to leam from our Continental ighbours. Some of the most noted resorts in Europe have w natural advantages either of scenery, position, or resources, it in many cases art has been admirably utilised to suppleont Nature. The gay Kursaal, with its daily romd of nisements, the pleasant parks and trim gardens, the admirly appointed établissements dés bains, the excellent musicI these are but parts of the ordinary stock in trade with rich Wiesbaden and Carlsbad, Homburg and Vichy so sucssfully attract their crowds of annual patrons. But of such tractions our Britisly resorts are for the most part singularly stitute. They may have beautiful scenery, valuable mineral iters, excellent air, but these important advantages do not ve them from being in many cases intolerably dull. Our or is twofold: we make the theoretical mistake of regarding alth resorts as places solely for definite medical treatment, getting that amusement and mental distraction are not only asurable to all, but absolutely indispensable to the sick; and fall into the practical error of assuming that smatoria can ovide sufficient recreation without organisation and co-operain. We need to realise, first, that a health resort has not filled all "its" duty whien "it häs built fine hotels, secured an peceable water-supply, and cleanised its drains; and, seebndly; it adequate distraction and amusenent camot safely be left the accidonts of individual enterprise, but require united d mumicipal effort. or A healthr resort must first be healthy, d secondly attractive. It must aim at securing as many as ssible of the conditions which check diseaso and promote povery, and it must provide ample and raried relayation for walescents and their companions. Nor should it be forthen tliat the presence of overy invalid entails on' an average presence of two or three others, friends or attendants, who not invalids. A liealth resoit which proides sufficient upation and amusement for this latter class will hare gained additional claim to consideration.

While we are still far behind France and Germany in, enter, prise of this kind, it would be imjust to ignore the great progress which is being made. Sonthport shows what a pleasant resort can be constructed upon the barest of sandhills, and Bournemouth is a witness of how a pine forest can be transformed into one of the most attractive of sanatoria. Bath, Leamington, and Droitwich are proving that cnterprise is not hopelessly dead at the English spas, and here, as always, well-directed effort is reaping its due reward. No British resort lias hitherto, so far as we are aware, adnoted the plan so general on the Contineut of imposing a fixed tax upon all visitors for the development of the lucality on the lines indicated in this article. Such an impost would be a novelty in this country, and perhaps somewhat repugnant to our prejudices, lout a mation that still tolerates tolls upon bridges cannot consistently rebel against a Kur-ta.. The advantagis of such an arrangement need hardly be pointed out.

After all has been said, it may le urged that Continental resorts surpass us in point of climate, and that as long as our summers and autumns are prone to be sunless and damp, so long will those who have the means migrate to more favoured regions. Granting this argument some weight, it by no means disposes of the entire question. There can be little doubt that at the holiday season our climate is far more promotive of health than that of many of the most famous sauatoria.: From July to October includes the period at which our rarious classes seek their ammal holiday. During July and August sea-bathing is one of the chief ends pursued; and it may be confidently asserted that no marine resorts in the world equal those of Great Britain. Scarborough, Hastings, Brighton, Eistbourne, Ilfracombe, Cromer, Whitby, Llandudno, Tenby, and Barmouth constitute a list that might easily be enlarged, and one to which no Continental country can aftord an adequate parallel. Another large class of holiday-seekers is composed of those who require mineral waters and baths, which are usnally associated. Now, with one important exception, this country is well provided with uatural mineral springs, and it can lardly be demied that in summer or early antumn Harrogate, Buxton, and Moffat are more desirable resorts than the German or Austrian baths. Enfortunately, our springs are deficient in waters aerated with carbonic acid gas, and hence our sulphur and saline waters are apt to prove somewhat heary and indigestible. It has been proposed, and in places successfully attempted, to have some species of natural water antificially aerated.

But, to recur to our original position, it is unt, we think, any uatnalal deficieney in our health resorts which dooms many of them to insignificance, so much as lack of enterprise and blindness to those attractive accessories which make the fortune of many of the Continental samatoria. It must be owned that as an mation we are not successful in organising those minor enjorments and lighter graces which are yet indispensable to a well-rounded existence. We "take our pleasures sadly," and thereby are great lasers. Probably that incapacity for sunall enjoyments, that inability to be easily amused whicli só strongly cllärncterises us, is a lingering relic of the old Puritan prejudice against every species of pleasure: Such a prejudice is happily almost a thing of the past. From the medioal point of view it was an error to be deplored, and
such errors, cren when ostensihly abandoned, are apt to leave traces behind in the poiso and adjustment of the national mind. We must not be ashamed to anuse the aick, and both sick and healthy may with advantage oceasionally devote some serious thonghts to thoso arts which promote tho bost and most advantageous utilisation of loisure hours and holiday seasons. It is only a crude philosophy which can condemn such efforts as unworthy of our best endeavours and most serious attention.

This Jourval has taken many opportmities of prossing these viows upon the attention of those most interested in their success, and the auhject is one to which Mr. Ernest Hart referred in some detail in his "Letters from Carlsbad." It is gratifying to us to know that some good results are likely to follow. At the beginning of another aeason we again invite attention to a subject of national as well as professional importance.

## TEACHING SCIENCE AND SCIENTIFIC

## TEACHING.

Iv teaching science, a double aim is sought-to impart knowledge, and to give mental traming; both objects are of great importance to the student. It is frequently a subject of regret to $s e 0$ how soon phyaiology, anatomy and chemistry are forgotten by the atudent who has passed his examinations in those subjects, although he may have worked industriously at them in his earlier years. We cannot but think that this is in part due to failure in training the student to think and argue for himself about what he sees in the laboratory and the elass-room. Observing facts docs not necessarily imply thinking about them; to make logical comparisons and analogies between objccts seen, to trace out under wise supervision tho sequences of events as demonstrated by what is seen does compel thinking. Questions assed as to the action of different groups of museles, and as to tho muscles, the nerves, and tho nerve centres which produce certain visible movements; such methods tend to produce efficient thinking, and add a practical interest to physiological and anatomical studies. In the hospital some atudents are too apt to be satisfied with detecting physical signs; a systolic apical bruit is detected over the heart, and the hasty inferonce is drawn that the mitral valve is diseased, and that this constitutes a diagnosis justifying at once the prescription of digitalis and iron. The bruit is a very important piece of initial evidence, and suggests tho hypothesis of possiblo mitral diseaso, and tho necessity of looking to all tho physical conditions of the heart and the circulation in the pulmonary and syatemic aystems, as well as in the various viscera. A successful olsorvation should atimulate thought, and lead to further observation. A patient complains of pain in the chest ; on listening no friction is hearl, and no abnormal dulness is found; the hasty conclusion may bo drawn that no pleurisy is presont, the atudont neglecting to tako the temperature and to look for all the signs of pleurisy. Such habits of want of thoughtfulness lead to bad practice. Every observation should be followed by thought as to its significance and its relations to our knowledge ; auch mental habits may bo
inculeated in teaching seience. It is not only in clinical work that the need for correct thinking is seen; in tho examination room we have frequently seen candidates fail to answer simple questions, not neeessarily through ignoranco, but bocauso they were unpractised in continuous and regular habits of thought.

Mr. Pearce Gould has resigned the office of Surgeon to the London Temperance Hospital.

The Guy's Hospital Biennial Festival Dinner will take place or Wednesday, July 4th; and Dr. P. H. Pye-Smith, F.R.S., will be the chairman. The annual distribution of prizes will be made it the afternoon of the same day at the Hospital.

Dr. August Wegner, Generalarzt of the First Class, anc Physician in Ordinary to the German Emperor, has been ennobled. This gives him the right to place the particule nobiliair. "von" before his name.

Dr. Matthens Dencan will preside at the half-yearly dinae of the Aberdeen University Club (London), which will be held a the Holborn Restaurant on Wednesday next. The honorary aecre taries of the Club are Dr. R. W. Burnet and Mr. R. M. Routledge (l Elm Court, Temple).
The Burial Reform Association has resolved to memorialis the Home Secretary to inquire into the condition of cemeteries onc the mode of burial adopted. At the annual meeting to be heli next Monday at Grosvenor House, the Duke of Westminster in th: chair, it is proposed to put the sanitary aspect of the question th the front. Sir E. H. Sieveking, M.D., Dr. IIubbard, Dr. Danfori Thomas, Mr. Ellice-Clarke, C.E., Mr. F. Seymour Haden, F.S.A and Mr. Wollaston Pym, are among those who have promised tc take part in the proceedings.

## ST. GEORGE'S HOSPITAL.

We understand that it is proposed to present a testimonial $t$ both Dr. Wadham and Mr. Holmes, whose periods of office a physician and surgeon respectively to St. George's Hospital hav. recently expired. Dr. Dickinson is the treasurer, and the sub scription to each testimonial is not to exceed one guinea.
rabbits in australia.
A telegram from Sydney statea that the conference upon th means of dealing with the rabbit pest has resulted in the selec tion of an island where M. Pasteur's and other methods of extirpa tion will be thoroughly tried. The liability of other animals aan birds to infection by the aame means will also be tested.

INTERNATIONAL OTOLOGICAL CONGRESS.
The next International Congress of Otology will be held a Brussels from the 10th to the I6th of September next under th. presidency of Dr. Ch. Delstanche. Gentlemen wishing to be pre aent are requested to communicste before May 15 th with th Secretary, Dr. Ch. Goris, I43, Rue Royale, Brussels.

## MEDICAL DEVOTION.

Anothrn instance of the heroic and praiseworthy"aervices ao ofte) rendered by medical men, in times of diaaster and apecial danges has come to our notice in an account of the terrible disaste which recently occurred at the St. Ielen'a Colliery at Workingtor where, ns the result of an explosion, many lives were lost ant others injured. Drs. Dudgeon and Ormrod were, it is stated, earl: on the acene, and, while Dr. Dudgeon was attending to the injured Dr. Ormrod went down the pit with the rescue party; and thoug
te after-damp was very oppressive, the whole of the workings ere explored. Again and again they made the descent, bringing t the dead and injured, and imperilling their own lives in doing
Every possible help was given to the injured and suffering.
Ormrod has, we believe, had experience of many colliery exosions.

## METROPOLITAN COUNTIES BRANCH: WESTERN DISTRICT.

e are requested to call the attention of our members resident in Western District of the Metropolitan Counties Branch to the et that at the next meeting, which will be held on Wednesday, ay 16th, at St. George's Union Infirmary, Fullam Road, rompton, the chair will be taken at 8.15 by Dr. Charlton Bastian, R.S., Vice-President of the District, when a short paper will be ad by Mr. Butlin on "The Treatment of Chronic Ulcers of the jngue." Demonstrations will be given by Mr. Noble Smith and r. H. W. Webster. This District Branch, which has an ample instituency, promises a programme of considerable interest for s summer proceedings, and the attendance of all members and leir friends is invited.

THE GENERAL MEDICAL COUNCIL.
seems probable that the General Medical Council will not ave much business before it during the next session, which comences on Tuesday, May 22nd. Official notification of the apjintment of two new members, Dr. G. Y. Heath, representing the niversity of Durham, and Dr. Hector C. Cameron, representing te Faculty of Physicians and Surgeons of Glasgow, will be re sived. Reporta of the rarious committees-the Finance, Pharacopœeia, Statistical, and Income and Expenditure Committeesill be presented, as well as a report from the Education Comittee, which may possibly give occasion for some discussion. the Execntive Committee will meet on Monday, May 2lst, to range the order of business.
the magnesium light in photography.
rofessor Dr. Iermann Cohn, Breslan, is of opinion that the lightning powder" used of late (consisting of magnesium powercd and chlerate of potash in equal parts) is disadvantageous or the following reasons: 1 . On account of the dangerous characar of this powder it cannot be made in large quantities and -ored for use, but must be carefully prepared for use as occasion equires. 2. It is not easy to set on fire at the precise moment esired, eren with the electric spark. Fuming sulphuric acid will o this, Dr. Cohn has been told, but this is not a desirable subance to dcal with, as its vapour would damage any delicate aparatus in the vicinity. 3. It is not always desirable to have a ouble illumination. 4. The light should be "photochemical." rofessor Cohn obriates all thcse inconveniences by using simple agnesium powder, which is then blown through any flame in se by means of a simple little apparatus (which may be obtained or 3s. from Herr Pusch, Breslan, Schmiedebrïcke 46). Armed fith this and a small benzine lamp, anyone can produce a romentary and brilliant illumination, and this may obtain photoraphs anywhere and at any time. Magnesium is only about wopence a grain, and a grain or two amply suffices. For medical hotographers nothing can be simpler than Professor Cohn's angnesium-benzine light.

## A THRILLING INCIDENT.

3R. A. C. DUTt calls attention to the following circumstance reorted in the Indian Daily News (Calcutta), which is of interest rot only for its personal aspects, but as an example of successful reatment of snake-bite. A number of snakes, principally cobras, rere sent to Dr. Vincent Richards for experiment. Dr. Richards
took out one of the cobras with the object of getting some of its poison in a watch-glass, whicl he had ready for the purpose. He held the snake in his right hand, and was moring his left hand in front of it, when the snake bit him severely on the forefinger of the left hand. Dr. Richards, fortunately for himself, preserved his presence of mind; he killed the snake, and with a knife laid the finger open to the bone above the wound, and applied permanganate of potash ; he then applied a ligature to the finger and another to the forearm, and drove off for medical help. Dr, Macleod and Sir Benjamin Simpson reopened the wound and thoroughly cauterised it with nitric acid. Ordinary dressings were then put on. More than two months have passed since the accident, and Dr. Richards is doing well.

## THE GERMAN EMPEROR.

We received the following telegram from Charlottenburg on Thursday morning: "Last Saturday, immense, sudden increase of pus took place, twice as much as any day previously, but no increase of fever occurred. It is probable, therefore, that the abscess which formed a fortnight ago broke down. The discharge of pus is now lessening, and the Emperor is gradually recorering strength." We learn, on what appears to be trustworthy authority, that in Professor Senator'a opinion the disease is undoubtedly laryngeal cancer, complicated with extensive suppuration. Xew swellings are continnally becoming developed in the trachea, so that the cannula has to be frequently changed.

## the parkes museum of hygiene,

Her Royal Highness the Duchess of Albany presented on Saturday last, at the Parkes Museum, certificates to the ladies who had passed an examination following a course of lectures on domestic hygiene given by Dr. Schofield on behalf of the National Health Society. Sir Douglas Galton, who opened the proceedings, spoke of the need which was felt by friends of hygiene and workers in sanitation at this critical point, when further progress of the sanitary education of the nation required earnest and concentrated effort, and expressed a strong belief that, if all the different sanitary and health associations were combined, ample funds for the endowment of a grand national college of hygiene, with affiliations in the chief localities of the empire, would be at once arailable. Lord Wantage proposed and Mr. Ernest 1lart seconded a vote of thanks to the Duchess of Albany, which was cordially passed. A letter from Miss Florence Nightingale, expressing her deep sympathy with the objects of the Museum, especially with the ceremony that day, was read; it contained the following passage: "Without women there can be no domestic hygiene. The first principles and work of sewerage, water-supply, and ventilation must, without the housewife, almost remain a dead letter. But let her be practically interested in how to keep air, eartb, and water pure, and to admit light in her house, and the health and life-giving machinery is complete."

MEETINGS OF GERMAN ASSOCIATIONS.
Tue sixty-first German Scientific and Medical Congress will be held in Cologne from September 18th to 23rd. Dr. Landahn, representing the section of Neurology and Psychiatry, will receive announcements of intended papers.-The second Congress of the Anatomical Society will take place in Würzburg from May 20th to 23rd. The following papers and addresses are announced:Gegenbauer: On Cænogenesis. Bardeleben: On the Position of the Female Pelvic Organs. His: On the Origin of Nerve Fibres (with demonstrations). Kollmann: On the Skeletal Hand in Vcrtebrates; also On Celonı and Nephridium in Vertebrates. Von Brunn: Membrana Preeformativa and Cuticula Dentis. H. Virchow: The .Spinal Cord in Anthropoidea. Th. Kölliker: On the

Simple Deposition of the lntermaxillary, with demonstrations contra Biondi. Lehoucq: The Finger-skeleton in Pinnipedia and Cetacea. Bonnet: Stump-tailed Dogs, in regard to the Transmission of Acquired Peculiarities. Born: On the Formation of the Valves, Orifices, and Septa of Mammalian Hearts, with demonstrations. Rabl (Prague): On the Origin of Connective Substances. Several interesting demonstrations are annonnecd, in addition to the abere.-The German Gynecological Association will hold its second meeting in Ilalle from May 24 th to 26 th. About twenty-three merubers have promised papers, amongst which are the following, -Winckel (Munich); On the Facilitation of the Delivery of the Head in Foot-presentation. Dohen (Königsberg): The After-birth Period. Schwartz (llalle): (I) The Treatment of Extra-uterine Pregnancy; (2) Atony of the Non-puerperal Uterus. Allfeld (Marburg): (I) On Placenta Previa and Uterine Incision; ( $\boldsymbol{Z}^{2}$ ) On some Intra-uterine Fotal Movements not hitherto described. Olshausen (Berlin): On the Mechaniṣm of Delivery in Cranial Presentation.

## BOWER AND KEATES INDEMNITY FUND.

THE Committee of the Bower and Keates Indemnity Fund are now, after several unavoidable delays, in a position to wind up the affairs with which they hare had to deal. After paying Messrs. Bowerand Keates's bill of taxed costs and all the expenses connected with the appeal to the profession, etc., a, balance of about $£ 500$ remained. Scme fime ago the Committee issued to every subscriber a circular regarding the disposal of the surplus, and suggested that part should be given to help other practitioners who had been attacked and had rindleated themselves at considerable cost, and that part might be given to some of the medical charities. The subscribers laving left the porrer of disposal in the hands of the Committee, we believe they hare advanced so far in the distribution as to vete $£ 100$ to Mr. Ralph Hodgsen, late of Lewisham, who was successful in clearing himself from charges brought against him by a servant; in the case of Gibson and Wife r. Jeffries and Mills, £50 to the defendants; and a like sum to Mr. Brown, of Wandswerth, in the case of Lennard $v$. Lennard, Brown, and Allatt. The Committee have still about f300 remaining, and they propose to meet in a month to decide as to its distribution and to close the accounts.

## A CASE OF SPLENECTOMY.

1.s the Annali Clinici dell' Ospelale degl' Incurabili in Napoli for May and June, 1887, Professor Agostino Casini has recorded a case in which he suecessfully excised a "wandering" and hypertrophied spleen. The patient was a woman, aged.22; who for four years had suffered from frequent attacks of malarial fever, sometimes accompanied by jaundice. Three years before she came under the care of Dr. Casini she became conscious of uneasy dragging sensations in the abdomen, and noticed a tumour in that region which steadily increased in size, whilst her general health beeame gradually worse. On examination the helly was seen to be enlarged, especially on the left side. A smoath, rounded, rather hard swelling was felt occupying the fore part of the cavity; it extended upwards nearly to the margin of the ribs, downwards to the pelvis, and laterally to a line passing downwards from the anterior axillary border. The tumour was frecly morable, and was not adherent to the abdominal parietes. It could be rotated so that its upper edge was directed forwards perpendicularly to the wall of the belly, the anterior surface thus becoming the inferior, and the posterior the upper. On the rounded, margin a noteh could be distinctly felt. The mass could be moved upwards and to the left, so as to be almost eovered by the ribs; displacement towards the right, on the other hand, caused a feeling of dragging and stretching on the left side. There was some fluid in the abdominal cavity. On April 20th I'rofessor Casini opeced
the abdomen in the middle line, and removed the spleen. There were some adhesions to the kidney, and especially to the puncreas, whiel formed part of the pedicle. The latter gave a good deal of trouble, and had to be tied in a number of separate pieces, a portion of the pancreas, which could not be detached, being seized between the blades of a pair of foreeps, and crushed off ; the stump of the pancreas was then stitehed up, and, after careful eleansing of the peritoneum, the abdemen was elosed. Very little blood was lost in spite of the difficulty which had been felt in securing the vessels of the pedicle. The spleen weighed 3 kilogrammes and 100 grammes ( 639 lbs.$)$. Thetemperature on the first and second day was $100.4^{\circ} \mathrm{F}$., after which it fell to a point little above normal. On the seventh day the sutures were removed from the abdominal wound, which had healed by first intention. A few days later a small abseess formed in the abdomen on the left side above the level of the umbilicus; the patient, however, scon afterwards passed a quantity of pus in her urine, and continued to do so for some little time, the swelling meanwhile gradually disappearing. Towards the end of May she was discharged cured, and six months later she was still in perfect health. This makes the ninth spleneetemy that has been performed in Italy, the first having been done in 1874. Of these operations fire had a fatal result; the remaining four, which have all been performed since I88I, have been successful.

## DR. APOSTOLI AT BRIGHTON.

At the last meeting of the Brighton and Sussex Medico-Chirurgical Society, held on Thursday, May 3rd-Mr. W. F. Salzmann, President. in the chair-Sir T. Spencer Wells read a paper "On the Electrical Treatment of Diseases of the Uterus." After the paper, which will be found reported in full on another page, Dr. Apostoli, who was very well receired, made some remarks in French. An animated discussion then followed, sustained by Drs. Playfair, Aveling, Inglis Parsons, Heywood Smith, George Elder (Nottingham), Travers, Skene Keith, and Mr. W. Furner. As will be seen from our report, most of the speakers were decidedly in lavour of Apostoli's method. Various questions on the subject were replied to by Sir Spencer Wells aud Dr. Apostoli. There were over sixty gentlemen present, amengst others, as visitors, Mr. Morse (Norwich), Dr. Beaumont (Scuthampton), Drs. Colgate and Farnell (Eastbourne), etc. The members present included the Vice-Presidents, Mr. Noble Edwards and Dr. Withers Moore, the Treasurer, Mr. Hodgson, and the llonerary Secretaries, Mr. Cresswell Baber and Dr. Mackey (acting for Dr. Whittle).

THE DEATH OF MR. WALTER SHIRLEY.
The distressing circumstances attending the death of MIr. W. Shirley; untịl recently M.P. for the Doncaster Division, have naturally attracted a good deal of attention. Ile was admitted into the London Hospital, and died within twenty-four hours, post-morten examination slowing that the immediate cause of death was suppurative peritonitis. A painful impression was created by the statement that he had previcusly applied to St. Thomas's Ilome and Hospital and had been refused admission. We have received from the Resident Assistant I'hysician the following explanation of the reasons which led to this refusal:"On April 30th, at 11 p.м., Mr. Shirley, accompanied by his landlord and a policeman, applied for admission to St. Thomas's Home. He was seen by Dr. Edmunds, the medical officer of the llome, aud subsequently, at Dr. Edmunds's request, by Dr. llawkins, the resident assistant physician of the hospital. It appears that he had left his residence in the Temple to take lodgings in Newington. In Newington he had been seen by a local practitioner, who had recommended his admission to St. Thomas's Home. The appearance of the policeman on the scene was due to the fact that Mr. Shirley, on his way to the Home in a cab, had,
imped out and invoked the assistance of the police to protect im from being taken to an asylum. Dr. Edmunds and Dr. awkins found Mr. Shirley to present such marked signs of ental aberration as to render him unfit to be admitted to Home : IIospital, the rules of which forbid the admission, except in tses of extreme urgency, of such cases. Extreme urgency was rtainly not apparent. Mr. Shirley walked about with much tivity, conversed freely, had a good pulse and a clean tongue. is mental condition rendered it in the highest degree undesirable lat he should be introduced into a ward containing a number of orsons to whom rest was precious. llis physical condition after is journey to the hospital showed nothing incompatible with his turn to Newington, under the care of his medical attendant in aft locality. Admission was therefore refused. At the same me a letter was sent to his medical attendant, giving the reasons hich prevented his admission; and a telegraphic message was dered to be despatched to his nearest known relative notifying $s$ condition."

## SWISS LAWS.AND ENGLISH PATIENTS.

ithe discussion at the Royal Medical and Chirurgical Society on c treatment of phthisis by residence at high altitudes, Dr. Quain ade some very pertinent remarks. He dwelt with some emphasis on e recent action of the Swiss Government, which has rendered iy English practitioner, hawever well qualified, liable to fine d imprisonment for attending his own countrymen within e. Republic. This unfortunate state of the Swiss law led Dr. sain to hesitate before advising patients to go to health resorts here they would be so ruthlessly deprived of the advice of oglish medical men. There was, he said, good reason to believe at not a few of his colleagues in London held the same opinion. is recent decision of the Swiss authorities ia the more remarkle inasmuch as they must be aware that $S$ wiss medical men can actise in England without let or hindrance, and could now even placed on the Register for foreign practitioners, which confers ery privilege possessed by an English practitioner, provided at the Swiss were willing to reciprocate by giving English pracioners a like privilege in Switzerland.

## A VICTIM TO THE CHLOROFORM HABIT.

ro points at least furnishing matter for reflection arise out of e deatli from inhalation of chloroform reported this week. The ceased, a midwife, aged 42 , had, it appears, been in the habit for least ten years of inhaling large quantities of chloroform; in ct, she claimed to be-at any rate it was claimed for her at the quest-that she was the champion chloroform taker of the orld, and that she would take a pint of chloroform in the day. will be safe to assert that a very considerable quantity of this ily allowance was never really taken, or inhaled by her at all, It wasted on the atmosphere around her. As everyone conrsant with the subject is well aware, it is not the amount of loroform, but the proportion of it to air, that constitutes the ief source of danger in inhalatiou. The first point, however, to nich we would refer is whether we may infer from this case that a system may become habituated to, and so more tolerant of, loroform rapour; we do not think such an inference can be tde; we have no evidence as to the degree of concentration of 3 vapour she was wont to inhale, nnd her death would prove it she certainly had not attained to complete talcration, whilst is well known that many fatal results from chloroform inhalain have occurred in persons who had previously and sometimes beatedly taken chloroform without any ill effect. Our second lection is as to how it happened that this woman was able to lechase such large quantities of so potent a drug; some chemists ( $y$ sell it to medical men, or by their instructions; and it is to 1 regretted that the opportunity was not afforded to the jury of
making a strong presentment on the subject on the present occasion. The unfortunate woman could never have acquired the habit had it not been for the laxity of some person or persons in selling chloroform to her.

WEIL'S DISEASE.
Wirmis the last two years, another disease, bearing a man's name, has been described and discussed. We have already Bright's. Addison's, Graves's or Basedow's, Raynaud's, Friedreich's, Thomsen's, and IIenière's diseases, besides Argyll-Rohertson's pupils. Colles's fracture, and several surgeons' amputations. There are numerous objections to the practice of employing men's names to distinguish diseases. The taunt of the Psalmist against the heathen calling their lands after their own names does not apply to the present case, as the names in question, surnames of distinguished abservers, are invariably attached by others to the diseases which these observers first described without the aid and conrenience of nomenclature. Nevertheless, the practice is objectionable; it implies the glorification of men through disease, and, as part of a system of nomenclature, is faulty. Weil's disease is socalled for the usual reason-that is to say, it was first described by a physician of that name. About thirty cases have been noted, including those first detailed by Dr. Weil only two years ago. Dr. Fiedler has since written on the new disorder in the Deutsch. Archiv, vol. xlii, part 4, page 281. Itis paper hes already been ably condensed in the May number of the American Journal of the Medical Sciences. Fiedler concludes that the disease, first described by Weil in 1886, is not an abortive form of typhoid ferer, as Dr. Weil has suggested. It is a distinct, acute infectious or toxic affection. The disease begins suddenly, without prodromal symptoms, but often with a chill. The constant symptoms are ferer, headache, gastric disturbance, jaundice, and muscular pain, especially in the calres: The fever has a typical course, and lasts eight or ten days. Relapses have been observed. The spleen and liver are generally but not always swollen; the liver often becomes tender on pressure. Nephritis is often observed; herpes and erythema occur at times. The prognosis is generally favourable. Weil's disease is generally seen in hot weather, and men in the prime of life are the most subject to it. The cause is quite unknown, but butchers appear most liable to the disease, judging from the scanty statistics already at the disposal of the physicians who have studied Weil's disease.

## EXTIRPATION OF CONSTRICTED PORTION OF THE

 LIVER.Dr. Langenbuch describes, in the Berliner Elinische Wochenschrift, No. 3, 1888, the case of a woman, aged 30 , who had suffered for eight years from abdominal pain, most marked when she lay down: when lying on the back, palpitations and a feeling of fear came on. In the upper part of the abdomen a swelling, the size of a fist, could be felt. It was hardly perceptible externally, and extended from the ensiform cartilage to within two and a quarter inches of the umbilical level. The swelling was smooth, tough, and elastic; its inner border was thick. Percussion innpaired, the dulness being contiuuous with that corresponding to the area of the liver. Echinococcus or, more probably, constriction of liver, caused by clothing, was diagnosed. An exploratory incision tras made, and a large mass of liver-substance, cut off by a deep constriction from the left lobe of the liver, Tas discovered. The position of the constricted mass explained the high degree of pain aud discomfort which it caused, strongly contrasting with the trifling inconvenience observed when the right lobe is similarly affected. The mass in this case pressed the pyloric portion of the stomach, the duodenum, pancreas, aorta, with several great nerves and ganglia of the sympathetic against the vertebral column. The mass of liver was amputated, several pedicles being
made out of the bands of connective tissue which still united it to the main part of the liver, and carefully ligatured. Hæmorrhage occurred on the evening of the operation, the abdominal carity was opened up again, clots removed, and a vessel ligatured. The patient recovered for a time. Gradually ascites set in, with cedema. Dr. Langenbuch was uncertain whether the ascites should be attributed to the high degree of hydremia present in this case, or to diminution of the area of the portal circulation. The abdomen was trice tapped, when the patient is said to have recovered completely.

## PHYSICAL INSTRUCTION.

Madane Bergman oisterberg, who has for some years acted for the London School Board as superintendent of physical training, and in supervising and jtraining the teachers, has giren evidence before the Royal Commission on education. Madame Usterberg, as the result of her experience, gives her opinion that the present drill does not develop children physically, it simply sharpens their attentiou. The recommendation is made that the training of special teachers should comprise an elementary course in anatomy, physiology, and bygiene, and that apecial inspectors should superrise these subjects. The health of girls appears to suffer from neglect of such training, especially in towns, and improvement has been obvious under training upon the Swedish system. In schools it has been found that where mistresses at first grudged the time given to physical exercises, they have never afterwards regretted the time so spent. Exercise must, of course, be modified in the case of children who are underfed or starving. Mr. Alexander, of Liverpool, advocates that teachers should qualify themselves in giving gymnastic exereises, and that children should commence such practice when 8 years old. Ile also proposes that children should be taught to play under competent superrision, and that gymnastic apparatus be provided in every school; he considers that the use of some such apparatus quickens the circulation, and that other exereises aid development, while free exercises are enough for health. It is much to be hoped that the report of the Royal Commission will give some recommendations for physical training and attention to the hygiene of primary schools.

## ULCERATIVE OR INFECTIOUS ENDOCARDITIS IN

 DOGS.M. Mathis, of the Lyons Veterinary Sehool, has recently published some cases of infectious endocarditis in dogs, which appear to be of interest to medical men from their similarity to cases occurring in human beings. The first case described is that of an old bitch, which had been operated on for a tumour of the udder. All went well till a week after the operation, when the animal managed to tear away a ligature which had been placed on the mammary artery. This was followed by violent hemorrhage, which was checked by the actual cautcry. From that time the bitch refused her food, the wound ceased to granulate, and the respiration became rapid and difficult; there was also violent palpitation of the heart. A week later she died. The heart was found filled with whitish elots, easily broken down, looking morelike jelly than fibrin; these were adherent to the walls of the heart and especially to the mitral and tricuspid valves, which were ulcerated. In the second case a bitch, whieh had just dropped a litter of puppies, had to walk through a large puddle of water which came up to her middle. She was immediately afterwards attacked by violent fever ( $40.5^{\circ} \mathrm{C}$.), the pulse being 145 , and the heart beating very violently; the breath was short, and the mouth hot and dry. Slie fell into a somnolent stato, the dyspncea and palpitation gradually increasing, till death ensued sevents-two hours after the commencement of the attack. Clots and valvular ulcers we:e found in the heart. In the third case, where there had been
a good deal of uterine hemorrhage a trocar had been inserted int an old hematoma situated at the fundus of the vagina of a bite five years old. Soon afterwarls dyspnœa, palpitation, aa pyrexia came on, death rapidly ensuing. Some very distinc ulcers of a reddish-grey colour were found on the auriculo-ventri cular valves; from these ulcers a micrococcus was obtained an cultures prepared; these succeeded very well in broth, bu developed less quickly in gelatine, and not at all in agar-aga The juice of all the organs terved for sowing the cultures. Intra venons injections of the culture did not succeed in developing th disease in healthy animals, a certain predisposition being appar ently required. Thus, in two of the three eases described ther had been exhausting hemorrhage, while the third occurred in th puerperal state. The clinical characters of this disease may $b$ said to be sudden invasion causing extreme depression, dyspnose and violent palpitation, no physical signs to account for thes being discoverable by auscultation or percussion.

## SCOTLAND.

Dr. W. Scott Lang has recently been appointed to lecture o: surgical pathology at Surgeons' Hall, and commenced the cours by giving an introductory lecture on May ind.

## SOUTHERN MEDICAL SOCIETY, GLASGOW.

On May 3rd Dr. MeIntyre read notes of laryngeal cases illustrat ing difficulties of diagnosis and treatment. He specially referrec to the frequeney with which the larynx was the seat of refles irritation from other parts, such as the nasal mucons membraue or from the presence of nasal polypi, and described the morn recent methods of treating such cases.

OPENING OF THE GLASGOW EXHIBITION.
The great social event of the week has been the opening on Tues. day last of the Exhibition by their Royal Highnesses the Prina and Princess of Wales. The event was most successful. Glasgow visited so seldom by Royalty, was en feite. In the most brilliant sunshine, the miles of gaily-decorated streets and the dense crowds of holiday-makers made a sight well worth seeing. The Exhibition and grounds were in apple-pie order, and nothing occurred to mar the beauty of one of the most brilliant ceremonies that have ever occurred in Glasgow.

DISCUSSION ON TRACHELORRHAPHY.
AT the last meeting of the Glasgow Obstetrical and Gyneeeological Society, Dr. Park introduced a discussion on trache lorrlaphy; he criticised and traversed the conelusions of Nioggerath. He thought aubinvolution and hypertrophy were not only directly but remotely sequent to lacerations of any considerable extent; but that, while that was so, these frequently yielded to treatment, and trachelorrhaphy was only called for in intractable cases. The discussion was an animated one, and was engaged in by Drs. Sloan, Oliphant, Pollock, Turner, Stark, and Nairn.

MEDICO-CHIRURGICAL SOCIETY, GLASGOW Ar the meeting of the Medical Section on May 4th, Professor W. T. Gairdner showed a young ehild with a peculiar deformity ol its arms, affecting chiefly the muscles, causing abduction of the arm, with flexion of elbor and inversion of forearm. It was supposed to be due to some central nervous lesion. Dr. Middleton showed a patient with congenital cardiac disease, due probably to communication between the aurieles or ventricles, but without any llueness of skin. Professor Gairdner ahowed a heart from a case in which an auricular syetolic murmur was hearch during life, while the post-mortem examination revealed no lesion
at a perforation of one of the anterior segments of the aortic
Professor Gairdner said this was the first case that had me under his observation that appeared to support Austin lint's theory of the causation of the presystolic murmur. Proissor Gairdner and Dr. Middleton showed a heart from a ease in hich systolic and diastolic murmurs were heard during life, hile the post-nortem examination revealed extreme mitral enosis as well as aortic and tricuspid lesions.

DEATH OF DR. H. C. MACEWEN. uIs talented physician has just died at the early age of 27 , from phtheria caught in the discharge of his professional duty, and ; the very outset of his career. After a most distinguished ,urse as a student, first at the University of Glasgow, and afterards of Edinburgh, he graduated in 1885 , and then proceeded to ienna, to continue his studies of special branches. On his return - Glasgow he entered the Royal Infirmary as house-physieian, here he resided for a year, and only left a month ago to fill a taney on the staff of the Belvidere Fever Hospital. He had urdly been three weeks in his new post when he was seized with s fatal illness. He first complained of sore throat on April th, and he died on May 3rd, deeply regretted by all who knew
m.

GLASGOW BOUNDARIES COMMISSION.
1E repart of this Commission, which has just been issued, will many respects have a very great influence on the health and nitary conditions of the inhalitants of Glasgow. The Commison recommends the inclusion within the city of all the presently parate suburban police burghs and of certain portions of the unties of Lanark and Renfrew, built upon and inhabited, hut all extra-burghal. This means the addition of about 180,000 inabitants and of about 8,500 acres to the present eity, giving a tal population of about 724,000 , and an acreage of 14,600 to the tended city. In making these additions the Commissioners we been largely guided lyy the sanitary and drainage necessities the various districts and by the common interests of the city id districts in regard to the spread of infectious diseases and e treatment and removal of these diseases and of all other innitary conditions. They regard it as of the utmost importance at the whole urban area should be under the ebarge of one ief medical officer, with an adequate staff and appliances in o various districts, and that that officer should be responsible the central authorities, consisting of representatives of every rt of the extended city. It is to be hoped that a report based such enlightened considerations for the health of the inhabints may speedily be made the basis for Parliamentary produre.

## GLASGOW UNIVERSITY.

IE summer session of the various Glasgow medical schools ened last week. The interruption to the ordinary course of ork by the opening of the International Exlibition on May 8th zms, however, to have deterred many students from entering omptly for the classes. At any rate the enrolments at the Uniraity are as yet in many cases considerably below those of last ar. The agitation aroused by the Universities Bill seems to epen as the Bill slowly progresses in l'arliament. It will be ther diflicult to form a just estimate of the dominant opinion garding the Bill so far as Glasgow L'niversity is concerned, as ferter than four petitions have already gone up from various dies connected with the University, and expressing views of no tle divergence. That of the Senate seeks to have the affiliation uuses wiped out, and the clauses relating to the prowers of the urt and Senate amended, so as to leave the present powers of the aste in educational matters intact; while the petition of the uncil Association, representing the riews of "about a thousand
graduates,......comprising clergymen, medical men, lawyers, and others," specially singles out the affiliation clauses and those restricting the 1 owers of the Senate for approval, though it expresses the opinion that the affiliation proposals are defective in that they do not expressly confer on the University Court any share in the management of the affiliated colleges. The Council itself asks only for a definition of affiliation, ineorporation, etc., disapproves of the transference of the patronage of bursaries, and petitions for an increase in the financial grant; while the University Club takes the senatorial view that the Commissioners should have affiliation referred to them merely for consideration and report. On May 3rd the unusual spectacle was witnessed of the Principal and a deputation from the Senate, consisting of Professors Leishman, Veitch, Stewart, and Jack, appearing before the Town Council to show cause why the Council should not petition in farour of St. Mungo's College Dill, as the promoters of the Bill had desired them to do. The deputation addressed the Council for an hour and a quarter, and at the elose the Lord Provost intimated that the statements made would be carefully considered before a decision was arrived at.

## ASPHALTE PAVEMENTS AND THE PUBLIC HEALTH.

The rapour of tar has been supposed to be beneficial in a number of disorders, but Dr. Edmund J. Mills, of the Glasgor Technical College, has written a short note on the injurious effects of tar rapours so copiously discharged on our streets while asphalte road-mending is going on. It is said that the injurious effects of these fumes is perfectly well known at tar works, where the pitch is always cooled down in a elosed elamber prior to casting in blocks. Casual inquiries have convineed him that the operations of road repair in Glasgowr have been, during the last three weeks, the cause of a great deal of totally unneeessary illness, the leading symptoms of which are nausea and giddiness. He himself has been three times prostrated in this way, and has been therely debarred from pursting his ordinary professional work until these repairs cease. In view of the serious inconvenience from which many more must have suffered, it is to be hoped that the use of pitch in the future may be dispeused with, as the operation of road-mending ean, if desired, be conducted without any offence whatever to the public health.

## THE CONSUMPTION OF METHYLATED SPIRITS.

At a meeting of the Edinburgh Town Council held last week, an important communication was presented by the chief constable of the city referring to the great and increasing use of methylated spirits as a beverage among the poorer classes. This trade in a most noxious material is largely earried on on Sundays, when the ordinary liquor traffic is prohibited in Scotland under the Sunday Closing Act. The liead constable's report is as follows: "I think it my duty to liring prominently under the notice of the magistrates and council the fact that on Sundays within the city a considerable trade has arisen among certain druggists for the sale of methylated spirit to persons who consume it as a bererage. In consequence of numerous complaints, I have had observation kept upon the slops of a number of druggists who were reputed to earry on this Sunday trade, and the result of that observation shows clearly that a very considerable traftic goes on every Sunday. The elass of persons who purchase the spirit is about the lowest we have in the city, and their appearance ought to be sufficient to denote to the druggist the purpose for which they are making their purclases. No questions, however, are asked as to what the methylated spirit is wanted for, and in uot a few cases the purchaser did not even require to ask for any specific article, but simply placed an empty bottle on the counter with the price of the quantity wanted, and it was at once supplied. The rf: ole facts go to show that the druggists aro perfectly well aware that
the spirit is bought to be drunk, but without specific.evidence to prove this knowledge on their part there is little hope of securing a conviction for a contravention of the Act. The spirit is known amongst its users by a variety of names, among which are 'finish,' 'dynamite,' 'polish,' etc. The trade is an increasing one, and I am certain it is doing a vast amount of mischief; but as the law stands, the police are powerless to deal with it. I have never been able to find any objection which would hold good to the prohibition of the sale of metlyylated spirit on Sundays, and if the corporation can see their way to make any representation likely to effect this, they would do a public service."

## ROYAL SOCIETY OF EDINBURGH.

AT the last meeting of the Royal Society, several papers of medical interest were communicated to the Fellows. Dr. Woodhead and Mr. Irrine read a paper on the secretion of carbonate of lime by animals. Dr. Bruce then communicated a paper on his recent intercsting case of a brain in which the corpus callosum was entirely absent. After fully describing the actual condition of parts in the cerebrum, which was in many particulars curiously abnormal, he entered into a discussion of the views held by Professor D. J. Hamilton, of Aberdeen, who communicated his doctripe of the non-commisural character of the corpus callosum some twelve months ago. This doctrine has found little favour in Dr. Bruce's eyes from the first, and in his paper he largely developed his antagonism to the new doctrine. Several other interesting papers, mostly on zoological subjects, followed; among them a valuable paper on the distribution of marine life on the west coast of Scotland, and one describing the crustacea of the Firth of Forth by Mr. W. E. Hoyle.

## IRELAND.

THE WATER-SUPPLY OF LISBURN.
A repart has been issued, in which the sanitary officers of Lisburn give a startling account of the impurity of the water at present supplied to the inhabitants. Confidence is felt that now, when attention has been drawn to the matter, the necessary improvements will be instituted by the lord of the soil, Sir Richard Wallace, who has always shown generosity and public spirit in the management of his property.

POLLUTION OF THE RIVER LEE, CORK.
The Cork City Enginecr has recently reported to the Public Health Committee that at Macroom the river Lee is subject to pollution, and it is intended that immediate steps shall be taken to compel the guardians of Macroom to prevent any further contamination of the water which supplies the citizens of Cork.

LADIES AT IRISH EXAMINATIONS.
AT the recent examination under the Conjoint Scheme, Miss Thoms, of London, outstripped the other twenty candidates and came out lirst. At the Royal University, Miss Fleury, of the London School of Medicine for Women, made brilliant answering at the third year's examination. She was one of six candidates who-out of 80 -were recommended to compete for honours. The result of this further test has not yet been made known.

TESTIMONIAL TO SIR GEORGE OWENS, M.D. Os Friday, May th, a purse of one thousand sorereigns, an album, and a claret jug, with an address, were presented to Sir George Owens, M.D., as an acknowledgment of his services to the public. Sir ficorge Owens has devoted much time to the duties of the various public bodies of which he is a member, and he has earned the approval of a large section of the community.

THE, ROYAL COLLEGE OF SURGEONS AND. THE QUEEN. .
The President and Council of the College of Surgeons announ that a portrait of the Queen will be unveiled at the Collegoc May 22nd. His Excellency the Lord Lieutenant and Prine Edward of Saxe-Weimar will be present on the occasion. Tl President (Mr. Corley) will gire a banquet on the evening of tl same day, when llis Excellency the Marguis of Londonderry ar other distinguished guests will be present.

## AMALGAMATION OF SCHOOLS.

A requisition is being signed by Fellows of the College of Su geons, asking the President to conrene a special meeting to col sider the question of the amalgamation of one or more priva schools with that of the college. The subject was brought up the annual meeting last year by Mr. Thomson, and was defeate by a narrow majority. There are no less than five medical sehoc in Dublin, two of them being proprietary. The waste of pow which results is very obvious, and it would be a clear gain medical education if there could be more concentration teaching.

Election of Examiners, Royal. College of Surgro: in lreland.-The annual election of examiners took pla at the College of Surgeons last week. Messrs. O'Grad Mapother, R. L. Swan, and A. Benson retired by rotatio The following were appointed to the Conjoint Boart of tl College of Pbysicians and College of Surgeons:-Anatomy John Barton and Thomley Stoker. Surgery: William Thon son and C. B. Ball. l'bysiology and Histology: J. A. Scol Midwifery : H. G. Croly. Ophthalmology: II. R. Swanzy and F. 1 Devaine. To the Conjoint Board of the College of Surgeons ar the Apothecaries' Hall:-Anatomy: F. A. Nixon and C. II. Robil son. Surgery: L. H. Ormsby and 11. G. Croly. Physiology Coppinger. Medicine: M. A. Boyd. Chemistry: II. C. Tweed Midwifery: J. J. Cranny. The last-named gentlemen will al: take place in any other examinations at which their services ma be required. Dr. Hayes was appointed an examiner in Medicin and Dr. Minchin in Chemistry.

College of State Medicine.- The introductory lecture of th inaugural session of the College of State Medicine wi delivered by Mr. Brudenell Cartor on Welnesday, $3 / 8$ 2nd, the subject being "The Aims and Objects of Stal Medicine." Sir Joseph Fayrer, in introducing the lecture described the character, scope, and objects of the instith tion which that day had began its active existence. It was prx posed that the College should be a training institution for tho: who desired to be specially qualified to guard the public lealti or to fill any of those public offices which required sanitar knowledge, and also for those who held commissions in th Volunteer Medical Service and who reguired a knowledge ambulance work; that, in fact, the College should do for the cir members of the medical profession very much what Netley ha now for many jears past done for the military.

Testimonial to Mr. John Broambent.-At the last meetin of the Manchester Medico-Lithical Association, an illminate address was presented to Mr. John Broadbent, surgeon, who ha held the office of honorary secretary for the last ten years. address, which was signed by Dr. IIenry Simpson, !resident, an Drs. A. Wahltuch and Wrederick H. Collins, honorary secretarie in tho name of the Associntion, expressed a high appreciation the manner in which Mr. Broadbent had discharged the duties the office for so long a period.

Bequests.- Mr. Richard Benyon, of Englefield Park (the l'r sident), has given $£ 500$ to the Royal Berkshire Hospital, Reading.Professor Lenne Levi has given 100 guineas to the (ireat Norther Central Ilospital, on condition that one of the heds in the new buil ing shall be named "The Leone Levi lied."-Mr. Henry Clarke lie given £100 to St. Mary's Iospital. Mr. William Speke, J.1'. an given £lo to St. Mary's lospital.- Drathed £1 and Somerset Ifospital. - The Royal Maternity Charity has receive £100 under the will of Mrs. E. Douglas.-Sir Edwin Samudel (the senior Trustee) las giren £50 to the Dental IIospital London.

## PARLIAMENTARY BILLS COMMITTEE.

## IRISH LUNACY LAW.

'He following is the report of the. Subcommittee of the Parliarentary Billa Committee of the British Mcdical Association on the bove.
There were present at the Subcommittee Mr. Ernest. Hart, Ir. Bridgwater, Dr. Alfred Carpenter, and Dr. Mickle, who drafted he report.
Resolutions in relation to Irish Innacy law passed in the ection of Psychology at the annual meeting of the British Meical Association in Duhlin, August, 1887, and referred to the arliamentary Bills Committee by the Conncil of the Association; "It was moved by Dr. Yellowlees and seconded by Dr. "That this Section of the British Medical Association, having ad under consideration during the meeting in Dublin the Irish inacy laws and their practical working, and having strongly felt jeir grave defecta. when compared with those of England and cotland, conclude to bring this subject under the consideration of le Council, in the hope that they will take such steps as to hring ader the attention of the Government the urgent need of better guiations and further legislation in regard to this matter." The Iief defects are the following:
" 1 . The modes of admission of patients into asylums, which ten involve injustice and injury to the patients, and great inger to the public.
"i2. The defective powers possessed by the medical superinndent for the proper and efficient management of the asylums, r example, his haring no power to engage or to dismiss the tendants, on whose loyal diacharge of duty the welfare of the itients so greatly depends.
"'3. The want, in the majority of asylums, of assistant medical ficers, 80 that the medical snperintendent is unable to give the cessary time to his strictly medical duties, and large asylums intaining some hundreds of lunatics may be left entirely withit resident medical supervision when the superintendent is sent." "
T. The modes of admission of (panper) patients into asylums in eland.
One mode of admission is provided for under the Genernl Rules Id Regulations for the Management of District Lunatic Asylums Ireland, made by the Lord-Lieutenant and Priry Council (Nos. 15, 16).
A declaration (stamped) is made before a magistrate that the rson (for whom admission is sought) is destitute and insane. ith this is a certificate by a magistrate and clergyman or poorW guardian, that they have inquired into the case, and believe e person aforesaid to be a lunatic in destitute circumstances: rother certificate required is a medical one, that the individual ncerned is insane and a fit subject for speedy admission into the strict asylum. The applicant for a linatic's admission to an ylum must also enter into an engagement to remore the lunatic hencver called upon to do so by the inspectors of lunatic asylums the board of gorernors. These prescribed procedures and forms ving been duly complicd with, aud application for admission of e Innatic made, the latter may he admitted on the authority of e board of governors of the asylum ; three governors; the resint medical superintendent (or, in his absence, the visiting ysician) having also the power to admit the case at once should deem it to be urgent, and report afterwards to the board of yemors, and obtain its sauction at the next mecting. A form conining a few particulars must be flled in by the lunatic's friends. So far as it gocs, it is believed that this mode of admission is signed on fair and just linca, both as regards the public, the aatic, and those who send him to, or receive him in, an asylum. it it has met with several objections: it has been said to cnuse necessary delay, trouble, and expense, application having to made for the form at the asylum, and the form, after being filled having to be returued to the asylum before the patient ean be 1t. Yet, in these days, when it is thonght to be so necessary to eguard the liberty of an alleged lumatic, and when it is desirHe that the whole procedure in placing a lmatic under care and introl shonld be most carefully carried out, and the checks upon belessness or negligence therein slionld be efficient, the above, ntioned ohjections will, perhaps, hardly be considered to tell inst this particnlar method of admission into asylums, and, in 1 t, in some points they refer to provisions that are commendable.

With this, however, we wonld link the euggestion that whilst in ordinary cases of alleged lnnacy it is desirable to aroid undue precipitancy of action in placing the subjects thereof in asylums, yet some provision is necessary for securing promptitude in placing urgent and dangerous cases under proper care and control; and some modification of the ordinary mode of procedure is needed in these latter cases, and can easily be devised.

Another objection to the above mode of admission is that it does not provide absolute authority for the immediate admission of dangerous lunatics. And this flaw might well be met by an amendment to the effect that the magistrate might have power to order the immediate admission of Innatics dangerous to themselves or to others.

But the mode of admission under which, in fact, most lunatics (more than two-thirds) are admitted in Ireland is the procedure under the Act $30-31$ Vic., cap. 118 , sec. 10 . This is as follows:-The alleged lunatic baving been brought before two justices, and it having been proved to their satisfaction that such person was discovered and apprehended under circumstances denoting a derangement of mind and a purpose of committing some crime for which, if committed, such person would be liable to le indicted, the said justices shall call to their assistance a medical officer of the dispensary district, who sshall examine such person ; and if he shall certify that such person is a dangerous lnnatic or idiot, it shall be lawful for the justices, by warrant, to direct that the alleged lunatic shall he taken to the Iunatic asylum for the district or place. But any relation or friend may, thereafter, take such Iunatic under his own protection and care if be shall enter into sufficient recognisance for the peaceable behaviour or safe custody of such lunatic, hefore two justices of the peace, or the Chairman of the Court of Quarter Sessions of the county, or a judge of a snperior court at Dublin.
That the magistrates may be duly satisfied that the alleged Iunatic was found and taken under circumstances denoting a derangement of mind and a purpose of committing some indictable crime, it appears to be necessary that the alleged lunatic should be apprehended, be taken before two justices, and that a deposition should be sworn concerning his conduct and acts, and justifying the required opinion and conclusion on the part of the justices as to the existence of such derangement and purpose. The justices also, although they are required to see and examine the alleged lunatic, and be satisfied that he is lunatic and dangerons, are not bound to give any reasons for their coming to that conclnsion, except the recital of those mentioned in the deposition. Then, a gain, the form of medical certificate and statement of particulars relating to the case are meagre in their requirements.

LIowever desirable in a few dangerous and criminal cases this mode of admission may be, it is obviously unsuited for the rast majority of patients. And while adapted only for dangerons or criminal cases, it is inseparably linked with the most incongruous provision that any relatire or friend may get the dangerous or criminal lunatic, who has been sent to an asylum by this mode. out of the asylum ly becoming bail for his good behariour and safe custody-behariour and custody of a dangerous lunatic which such friend or relative is, in reality, unable to secure, but witl regard to which failure to secure, it is believed, the recomisances entered into are never forfeited, thus depriving the public of any real protection by the feebly deterrent influences of the prorision concerning bail.

It is submitted that what is required in Ireland is: cither a modification and expansiou of the mode of ndmission to asylums, first described above; or else such changes as will, as nearly as possible, make the modes of admission the same there as they are in Great Britain, or in one or other part thereof.

2 . The defective control of medical affairs over the asylum staff: in Treland.

Accorling to the Act alrady mentioned ( 30 and 31 Vic., cap). IIS, sec. $\%$ ), the Governors of the Asylums in Ireland appoint all the servants and atteudants. Obriously, it would conduce to the welfare of the asylums and their inmates if the selection was left to the medical superintendents, and if engagement or dismissal of members of the staff should primarily rest with them, subject to the approval and confirmation of the board of governors.
3. The absence of the post of assistant medical officer in many asclums in Ireland.

It is morstood that ouly abont 9 asylums ont of 2 ? iu Ireland have a second medical oflicer. Where the asylums are of any but very small size, the desirability of haring au assistant medical officer is too obvious to require any comment.

## LUNACY ACTS AMENDILENT BILL.

AT a meeting of the Subcommittee appointed to consider the report submitted by Dr. Mickle on the above Dill, present Mr. Ernest IIart (Chairman), Dr. Bridgwater, Dr. Carpenter, Dr. Mickle, and Dr. Grigg,

It was propnsed by Dr. Bridawater, and seconded by Or. Ghiga:-
"That the report now made be received and placed on the minutes, and that a copy bo forwarded to every member of Parlinment and to the Branches, with a request that they communicate the same to their members, and ask their support to the suggested amendments in the House of Commons, and that a special request be forwarded to all the medical members of Parliament, asking them to consider the same, and if they approve to put notices in accordance therewith on the papers of the House.'

RECOMMENDATIONS OF PATLIAMENTARY BLLLS COMMITTEL OF THE BRITISII MEDICAL ASSOCIATION ON LUNACY ACTS

## AMENDMENT BILL.

Sect. 4, subsections 1, 2, p. 3, and Section 9, pp. 6 and 7. It is suggesten that partly in moditication and partly in substitution for these provisions in nonpauper cases, the justice should see the alleged lunatic before signing ani order of admission. At present, the provisions of these Sections leave room for much delay, so that a lunatic may be certified and yet his case only deeided upon a fortnight later; and though when certified he might be extremely insane. when examined by a justice he might have recovered, and hence the certifier be placed in ain extremely equivocal position, open to misunderstanding and attack. It is desirable to make it compulsory for the justice to see the alleged lunatic before signing an order for his nimission.
Sect. 12, subsection 2, p. 9, line 21, for " may" read "shall;" and in line 22-3 omit "or whether making such sisit or not ;" and thus secure personal examiomit or whether making such
notion by the 3 ustice. Alse in $12, \mathrm{p}$, Schedule, line 4, after "practitioner" to Insert "and having personally exanioned A.B.
It is felt to be desirahle that the existing requirement that the justice who signs the order of admission of a pauper lunatic to an asylum shall personally see and examine the alleged lunatic before signing such order should not be «liscontinued under the present Bill.
Sect. 20 , subsection 5, p. 13, for "practitioner" to read "practitioners," and to omit " not belng an officer of the workhouse;" and in line 4, for "examines" to read "examine." Also In
Subsection 7, p. 13, lines 23 to 25, to oruit " for each day or part of a day, after the first day and before the notice is given during which the alleged lunatic remains in the workhouse.
These suggestions are maide to secure remuneration for the medlcal officers of workhouses, except where they have contracted to do all the duties for a fixed salary; and modilication of the severely punitive clauses with regard to them. Sect. 2s, suhsection 4, p. 18 , line 10 , to omit " a special report," nud the words following it to and including the word "with" in line 13 , and to make the necessary alteratious in this nnd subsequent subsections to harmonise with this nelfemtion.
The medical certificate of unsoundness of mind sent periodically is theught to be sufficient
The large amount of extra routine work imposed on the rnedleal superinteudent of an asylun will for a time absorb his whole attention to the detriment of his other numerous and important duties. Imperfectly recovered lunatics will constitute a scrlons danger to the community when ai farge, and the fendency of thls Section will be to set many patients at liberty before receery has become sufficiently estahlished.
Sect. 36. p. 22. It is suggested that this Section be omitterl. If this Section enot omitted.-it is suggested that the person jnaking applleation for disclarge of a patient under this Section should give adequate geenrity for the charge of a patient under this Section should give adequate security for the payment of all necessary experses; and that persons be disqualified to sign any merlical certificate under thls Section who hold to the applleant under this Section the same relations as the persons disqualified to sign under Section $\theta$ hold to the "pettioner" for an orler for reception of an nifeged lunatic into an asylum, or unter single care, etc.
It is to be anticipated tliat under this Section vexations and wholly unnetespary procpedings wlll sometimes lie Institutel, and that it is tlkely to lcad to the discharge of persons who are in an unfit state for dismarge.
Spets 40 and 11 . It is surgested that these Sections be omittert ; or failing thisets. to omit Section 41, and the part of Section 40 following the worl "be "in lane 18, 1. 2y.
The correspondence of patients in private asylums is thought to be alreaty huly protected, inasmuch as all lefters to certain persons and authorities must he forwarded, hmopencel; and any letter written by a private patient. and not forwarted to the purson to whom it is addressed, most be endorsed to that effect by the medical superintendent or proprietor, mat lad hefore the Visiting Commissioners, or Committee of Visitors, as the case may be, at their west visit.

Seet. $5(0)-i \%, p, 32$, et seq. It is suggested that the pravisions of the Bill be so alterul as not to subject the registered lunatic hospitala to special restrictions and disabilitles.

Seret. 60, page 35. llac 27. It Is suggesten in omit the words "whally or in part belonging to the county or borough: " so that the services of niedical officers in any two or more county or harough asylums shoult count accumuinfively towarils pension, as if all such serrice had been in one asylum; each such county fo contrlbute its appropriate share.
It is also suggested that oflicera and servanta in country and borough asylums should be pnttled to datint pensions, as a right, after a certain burgeti of servico with gool conduct: and that the medical ollicers shoulis be plased, as regaris this matter, on a footing analagnus to that of members of the Civil Service (First Class, ?2 Vic., cap. M3, sec, 1 ).

## MEDICAL SOCIETY OF LONDON

The annual meeting of the Medical Society of London took place on Monday, May 7th. The Oration was delivered by Sir Jeseph layrer, K.C.S.l., on "The Natural Listory and Epidemiology of Cholera." The orator alluded to his own considerable experieace of cholera in India and elsewlere, reviewed the history of the epidemics of the disease which have devastated the various regions of the habitable globe at different epochs, and discussed its appearance in the sporadic, endemic, and epidemic forms. Ie alluded to the ignorance which prevailed as to the real nature of epidemic influence, and proceeded to consider the influence of meteorology on the production of epidemics. II pointed out that the word cholera was as a rule ouly applied to the disease ia its fully-developed condition, although it presented many phases varying in gravity from simple malaise to collapse and the coma of the worst forms of fever. Ile maintained that under certaia circumstances English cholera was indistinguishable from its Asiatic congener, and quoted the opinions of various authorities to the effect that Asiatic cholera, Damietta cholera, and British cholera differed only in severity and not in kind. Various local outbreaks were quoted as tending to show the influence of some factor or factors apart from contagion and local insanitary conditions. He showed that the severity of the disease was not always greatest in proportion to density of population, and that its geographical distribution was a phenomenon of meteorological significance rather than of condition connected with human intercourse. He thea discussed the correlation of season and the spread of cholera, pointing out how in India the seasonal prevalence varied according to the district, consequent to some oxtent on the fluctuating level and stagnation of subsoil water. The periods of cholera abeyance and cholera prevalence offer curious differences in the various provinces, the disease being very general in one district in a given year, while others are comparatively exempt. He argued that the theories of contagion and diffusion by human intercourse did not explain the movements of cholera epidemics, since neither the frequency, the direction, nor the rapidity of the spread of the disease bore any relation to the derelopment of means of communication. He then criticised the alleged transport of disease by contagion, and showred that in many instances the disease had already occurred before the vehicle of contagion had arrived. In the same direction, he recalled the peculiar predilection of the disease for certain districts, streets, and even houses. Moreover, in Bengal, for example, the course of the disease was upwards, that is, not with but rather against the rivers and main lines of traffic.

Passing on to the consideration of the etiology of the disease, the orator reviewed the various theories that had been suggested to account for $\mathrm{it}^{2}$, and expressed himself as unable to convince himself that any of them satisfactorily or conclusively explained all the phenomena exhibited by epidemics, or that either or any theory was to be accepted to the exclusion of the others. Alluding to the present tendency to trace all diseases to a specific cause, he insisted on the necessity for not losing sight of tho possihility of poison, autogenetically developed, giving rise tc disease. He added that although the primary cause was still mystery, local conditions undoubtedly permitted and favoured the occurrence and spread of the disease. He declined to accept the water theory as a sufficient explanation of all cholera eut breaks, and was led to seek the explanation in causes of a widel and more general character. He maintained, therefore, that until contagion in every form was entirely disproved authorities wert justified in adopting measures which, whileavoiding all oppressirc or coercive interference with personal liberty, took reasonable procautions against possible sources of infection, and gave full effect tc all known practical measures against the inportation or diffusion of disease. The orator then discussed coercive measures aud theis results, dwelling upon the rigours and hardships of quarantine and the great suffering and incalculable damage to commercia intcrests which lind resulted from the contagion theory as inter preted in other countries. After giving some tables bearing or the mortality of the disease at different epochs, Sir Joseph pre ceeded to discuss the precautionary measures, general and special at present employed against cholera, and wound up with fiftee conclusions based on the knowledge of the facts and phenomena 0 the disease which liave so far been recorded. These were ta th effect (1) that cholera has always been present in India, but tha isolated cases occur there and elsewhere ; (2) that its prevalen varies accorling to the year and the season of the year; (3) tha

## UNIVERSITY OF LONDON.

iolera does not visit all the places within an epidemic area; ( 4 ) 2at meteorological changes produce sudderi alterations in the etivity and intensity of an outbreak; (5) that the rate and irection are not influenced ly facilities of communication; (6) 1at cases are more frequent and more severe at the commencelent than in the continuance of an outbreak; ( 7 ) that hygienic eeasures afford the greatest but not an all powerful safeguard yainst cholera, and that it is important to check diarrloea in me of epidemic; ( 8 ) that cordons and quarantine lave utterly ailed to prevent the spread of cholera, but on the contrary have new (9) that epidemic districts present peculiar dangers cape; (10) that in case of attack of bodies of men, removal is ie best course: (11) that attendants on the sick do not suffer ore than others; (12) that certain agents, impure water, articles ? diet, etc., may cause diarrhoca and then cholera; (13) that itigue, anxiety, etc., are powerful predisposing causes; (14) that oservations tend to negative the idea of a specific poison; (15) lat one attack confers no immunity. The orator concluded with I eloquent appeal to authorities to secure the removal of contions likely to favour the occurrence and spread of the disease, jserving that epidemics were not a necessary thongh a constant onditions of men's existence, and were amenable to the laws of giene and common sense.
After the annual oration, the usual conversazione took place, re music being furnished by the band of the Coldstream Guards, ader Mr. C. Thomas. The pictures were lent by Messrs. Boussod, aladon, and Co., and by Messrs. J. and W. Vokins. There was so on exhibition a number of photographs by the new colour ocess, by Mr. Mayall: Rohertson's writing telegraph, etc. A ery large number of Fellows and their friends were present, and ere received by the 1'resident, Sir William Mac Cormac.

## HE LOCAL GOVERNMENT BILL AND PENSIONS OF ASYLUM OFFICERS.

SYLUN officials are invited to attend a special meeting of the edico-psychological Association, to be held at Bethlem Hospital, 1 May l6th, at 6 P.n., to discuss the pension clauses of the unacy Acts Amendment Bill, and the clauses of the Local overnment Bill affecting Asylums.
Among the many indications of the keen interest felt by those ost affected in the operation of the Local Government Bill, ould it become law, is the action recently taken by the Comittee of Yisitors of the Derby County Asylum. The following a resolution passed at their meeting on May 5th, Sir Henry Every, Bart., in the chair.
That in the opinion of this Coumittee it is desirable that all existing officers ould have an assured right to a pension on a scale not lower than that proded by the rules relatiog to Mer Majesty's Civil Service.
A similar resolution was passed by the Committee of Visitors : the West Riding Asylum, Waketield, on April 26th last, and lother to the same effect was adopted by the Committee of the puth Yorkshire Asylum, Wadsley, on April 30th.
The following petition was unanimously signed by the staff of ficers, attendants, and resident servants of the Derby County sylum, and forwarded to the President of the Local Govermment oard, on May Znd.

To the Right Honourable Charles Thompson Ritchie, M.P., President of the Local Governmpht Board.
The petition of the undersigued ofticers, attendants, and servants in the erby County Asylum, humhly sheweth-
That our position at present as regarde prospect of peusion is unsatisfactory, ring to its uncertainty, and to the extreme inequalities which prevail ; whilst the new County Govermment Bill no clanse appears which is likely to remedy is state of things ; that our cluties are irksome, depressing, and trying to mper and to healis. that uxiety and bodily risk. that the hours of duty in an asylum are long, and the iy in most cases is by no means proportionate : that a prospect of pension is io of the greatest inducements to long and faithful service.
We therefore pray that, in our interest and for the advantage of the public, He will insert in the Gount fovernment Bill a clause which will ensure io us fixed seale of pension similar to that which is granted to civil servants under Vict., erp. 26 , with the same qualifications and additions as therein specified. We further pray that you will insert in the Connty Government Bill a clanse We further pray that
 often happens, from an asylum in one county or borongh ous any of not nother county or borough, and when their approved service has been of not ss than three years' duration (as proposed in the Police Constables Superanation Bills of iss.5 and 1887) to reckon such (ransferred service as continnons rvlee which shall be counted (for the purpose of computing their pension. permmantlon allowance, or gratuity) for length of service as if all such pemmmation allowance, or gratuatur (see Section 60 of the Lunaey Acts nendment Bill, 1888, which only applies to asylums it the same county). And your petitioners will ever pray, etc.,
meeting of Conrocation took place at the University The anmual meeting of Convocation took place at the University Buildings on Tuesday, May sth. Dr. Far. II. E. ALLeN, re-elected chairman. The Clerk of Convocation, Mr. II. E. Allen, LL.B., B.A., was reappointed.

Dr. T. B. Napier and Mr. W. J. Sprathing presented the report of the Annual Committee, and moved its reception, which was agreed to.
Dr. T. B. Napier next moved:
"That the Annual Committee, jointly with the Special Committee already appointed on December 8 th , 1885, for the consideration of the scheme for the constitution of the University, he empowered to take steps with reference to the representation, by suitable witnesses, of the views of Conrocation to the Royal Commission appointed to inquire into the condition of the higher education in London, and for that purpose to adopt such measures and make such communications to the Senate as shall seem desirable."

In moving this resolution, the proposer gare a lucid historical account of the present movement for the furtherance of university education in London, and criticised adversely the part which Unirersity and King's Colleges lad taken in the matter. Mr. Spratlivg seconded the resolution. Sir Julian Goldsmid considered the morement furthered by University College in favour of the formation of the proposed Albert University was decidedly retrograde. He had used some influence to prevent it, and, being unabe to attain his end, had, with several other persons, resigned rersities in London. He thought that Convocation hare two uni-
rent well represented before the Royal Commission, and ought to be supported the resolution. Mr. T. E. Scrutron urged that Unirersity and King's Colleges had not started their movement in favour of the Albert University until they found that the Senate of the University of London was opposed to their interests. Mr. T. Tyler and IIr. B. II. Cooper addressed the house, and the resolution was carried unanimously.

Mr. J. Axstie, Q.C., presented the report of the Special Committee for the Consideration of the Regulations for the Examinations for the Degrees in Laws, and moved its reception. This proposal was seconded by Dr. J. B. Benson, and, after a long debate, was carried unanimously.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEABERS.

Any qualified medical practitioner, not disqualified by any by-late of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will be held on July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27 th, September 26 th, and December 28 th, 1888.

Candidates seeking election by a Brancl Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowke, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE:

The Report upon the Connection of Diseasf with llabits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1857, will shortly be published in the Jotrnal.
Reports upon the tro remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distriaution of certain Diseases, are in preparation, and will be published as soon as ready:
The following inquiry only of the first series remains open, namely, that on the Etiology of Phtirisis.

A fresh inquiry into the Orioin and Mode of Proplaation of Epidemics of Diphtheria has been issued.
Memoranda upon these subjects, and forms for recording observa-
tions, may be had on application to the Seeretary of the Collective Investigation Committee, 499, Strand, W.C.

## ERANCI MEETINGS TO BE IleLD.

Stafgordsmire Branct,-Thething general meeting of the present session WIll be Jeld la the Bell Lihrary and Medimal Institute, Clereland Road. Wolverhampton, on Thursiay, May 3lst. The chair will be taken by the President, 3r. W. l). spanton, at a oclock in the aftermon. The following papers will be rend:-Dr. C. A. McMunn: Excretion of IReductinn Products of Iramatin in Disense. Dr. Alired II. Carter: l'ractical Considerations on the Nature and Treatment of Chrouic Cardiac Disease. Mr. D. IIurry Fenwick, London: The Flectric lllunination of the Bladder and Lrethra, and its Value in the Diagnosis and Treatment of Obscure Vesico-Ürethral Diseases. Dr. MeMunn will show a simple method of adapting a photographic camera to the microscope.T. Vinckirt Jackson, Wolverhampton.

East York asp Norty Linenly Branch.-The annual meeting will be held at the Julimary, Kull, on Wednesday, May 3oth, at 1.30 p.m. Gentlemen who intend to make any communication, or to propnse any resolution, are requested to inform the Secretary not later than May 20th.-E. P. IIARDEr. Honorary Secretary, so. Spring Bank, IInll.

Midusid Brasch. The annual meeting will be held at Nottingham on Thursday, Juse 14th, at 2 p, M. Members desirous of reading papers, exhibiting cases, ete., are requested to communicate with the Secretary before May 24th. Candidates for election hy the Branch Conncil must send in their forms of applicasion by the same date.-W. A. Cabline, M.B., Ilonorary Secretary, Lincolu.

Metrophlitar Countifs Branch: Westens District.-The next meethg will be held nn Wednesdar, May 18th, at st. Gcorge's Union Infirmary, Fulfinm lead, Brompton. S.W. The chair will be taken at 8.15 p. M. by H. Charlton 13:stian, Esq.. M.D.. F.IT.S., the Vice-President of the District. Business: - Minntes of preceding mecting. A short. paper will be read by H. T. Butlia, Fisq., F.1R.C.S., on the Treatment of some Chronic Ulcers of the Tongue, A Inemonstmation will be given by Noble Smith. Fsq., F.ll.C.S., on the Treatment of various Curvatures of the Spine. A few Cases of Clinical interest will he introduced by 17. W. Webster, M.D., Medical Superintendent of the St. George's Infirmary.-C. Astricr Pattes, ITouomry Secretary, Marpool House, thling.

Soutr-Eastery Branea: East Kent District.-The annual meeting of the abore District will be held at the Kent and Canterbury Hospital on Thursday. May 2th, at 3 P.M. Dr. Parsons, of lover. In the chair. The dinner will take place at 5 p.an. at the linyal Fmuntain Hotel. Agenda:-Usual business of anmual meoting. Mr. Raven : Tendou Reactions in IIealth and Disease. Mr. Brian ligden : Notes on a recent Fpidemic of Measles. N.B.-Anyone wishing to send papers, etc, ohould cosmmunicate at once with the Honorary Secretary. W. J. Trsos, 10, Langhorne Gardens, Folkestone.

Abernefy, Baxff, and Kincarmine Bhaych.-The May meetlng of this Branch will ba held in 19i, Union Street, Aberdeen, on Wednesday, May IBth, at 8 P.M., the President, Dr. Smith, of Kinnairly, in the chair. Business:Mingtes, nomination of new nuembers, ete. Ballot for the admission of Dr. Ligertwood. Methlick. I'rnfessar Ogston: Intubation af the Larynx. Dr. Mackenzie Booth: Otologiral Memoranda: (1) Hyperacousia after Trauma of Membram Tympanl; (2) lecovery of Hearing after prolonged Eustachian Obatruction nud Tympanle Catarth. Fxhibition of Speclmens:-Dr. Gordon : Absces of Liver. Dr. Alackenzic Davidson: Jesson's Refraction Ophthalmo Abscess I'rofessor. Ogston: Composite Ihotograph.-liobert Joan Gordor and J. IAckfazze Bootar, IIonorary Secrutaries.

## OXFORD AND DISTRICT BRANCH.

A MEETING of this Branch was lield at the Radcliffe Infirmary, at threc o'clock, on Friday, April 27th; the President, Mr. Chfatle, was in the chair, and about thirty members attended.

New Members-Mr. D. Iles, of Fairford; Dr. Mair, Mr. Watson, Mr. Jickman, and Mr. I'almer, of Newbury; Mr. G. Mallam, of Oxford; and Dr. Ball, of Wantage, were elected members of the Isranclı.

Alteration in By-Laus.-Some alterations in the by-laws, proposed by Dr. Darbishine, were carried

Member Proposerl.-Mr. Oates, of Bampton, was proposed as a member of the Brancli.

Cases and Papers.-Mr. Beoxsome showed a very successful case of Hacetren's Operation.-Dr. Batt slowed a most interesting and marked case of l'seudo-Ifypertrophic Paralysis in a Boy. - Dr. Colarer showed a specimen of Thoracic Aneurysm; there were no physical signs during life.-Mr. W. Lewis Monran showed a good specimen of Tubercular Disease of Testis.-Mr. Winkfield showed a specimen of Round-cclled Sarcoma of the Testis.-Dr. Bnooks read a paper on the Uses of Antipyrin.-Mr. Doxnr showed an Oftometer.

## METROPOLITAN COUNTIES BRANCII: SOUTH LONDON DISTRICT.

THe anmual meeting was held at Bethlem Royal Hospital on May 8 th, at 5.30 P.M. There were present about thirty members and visitors.

The minutes of the previous meeting were read and confirmed.
Election of Officers.- In accordance with a resolution passed at the last meeting of the Council of the liranch, the present officers of the District were re-clected for the ensuing year, namely:-Fice-President: Dr. Frederick Taylor. Representritive on Council: Dr. Savage. Conmittee: Mr. Howell, Mr. Brintley James, Dr. Oswald, Dr. Pitt, Mr. Johnson Smith, Mr. Sangster, Dr. Verdon. Honorary Secretary: Dr. l'ercy Smith.

Dr. Sarage then conducted the members and visitors through the wards of the hospital, and gave a clinical demonstration on several cases of insanity.

Tote of Thanks.-A vote of thanks to Dr. Sarage for his interesting demonstration was subsequently carried unanimously.

## SPECIAL CORRESPONDENCE.

## BERLIN.

[FROM AN OCCASIONAL CORRESPONDENT.]
The Health of the Emperor:-The Bergmann Incident.-The German Press on Sir Morell Mackenzie.-The True Mistory of the Present Crisis.
During the past week there has been a slight improvement in the Emperor's condition, which of course has lieen made the most of in the official bulletins. The most faronrable feature in the case is, that Ilis Majesty has no difficulty whatever in swallowing, and is therefore able to take plenty of nourishment. Itis appetite is, however, capricious, and it is in this respect that Sir Morell Mackenzie's continued presence beside him is so especially valuable, for His Majesty will obey the advice of his English physician when he will not listen to any one else, and will eat in deference to Sir Morell's wishes, even when be has no appetite.

The Bergmann catastrophe still continues to be hotly discussed, both in professional circles and in the general press. Fublic opinion seems, on the whole, to be against our "leading surgeon," as Bergmann is usually called here, not so much hecause he retreated from a position which circumstances bad probably made untenable, but because he was unwise enough to make the situation which he himself bad created the basis of a further attack on Sir Morell Mackenzie. At the last meeting of the Berlin Medical Society, the following letter was read:
"In der Nummer 1426 des British Medical. Jocranal rom 23 Ajril, 1888, wird mit folgenden Worten auf Seite 933: 'As Dr. von Bergmann has not contradicted this statement, it may be accepted as true,' die Behauptung vertreten, dass, weil ich zu persönlichen und sachlichen Angriffen schweige, ich die Richtigkeit derselben zugebe. Wenn das British Medicat Joumal nicht ein Blatt wäre, dessen wissenschaftlichen Werth ich ausserordentlich hochschätze, könnte ich zu diesem Schlusse anch schweigen. So aber muss ich mich gegen denselben rerwahren. Ich schweige, nicht weil ich Unrecht habe, sondern weil ich, wie jeder elrrenWerthe britische und deutsche Arzt, Vorgänge am Krankenbette meiner Patienten nicht öffentlich lespreche.
"Erisst ron Beromann."
It had, I believe, been intended by some of Professor von Bergmann's friends to make that meeting the occasion of proposing a vote of confidence in him, but when his letter was read it was receired with deal silence. After the meeting the letter was freely discussed, and no one secmed to hare a word to say in Bergmann's favour. If he had merely said be had a defence but that was not the time to publish it, such a course would have met with general approval, but his indirect attack on his English colleague was thought to he in very bad taste. The general opinion seemed to be that Bergmann ought not to have attacked Mackenzie before the Medical Society, because that was not a place for the rentilation of personal grierances, but solely for the discussion of seientific topics, and also becanse Maekenzie could not defend himself before the Society. Mnch the same yiew of the matter is taken in the general press. The Tossische Theitung of May th says: "The meeting heard Professor ron Bergmam in silence and with astonishment. His explanation did not make a farourable impression......Bergmann made use of the Socicty to attack a distinguished man who enjors the absolute confidence
${ }^{1}$ A translation of thin will be fmund in Sir Morell Mackenzle's Jetter at page la32.
the Emperor. It is quite possible that the editor of e English professional journal (the British Medical Joctras, to wit), wounded in his national feelings by the rman papers attacked Bergmann of his own accord. But is also possible that the learned and able ectitor was quenced by Mackenzie, which has yet to he proved: din that case Bergmann lus other means of defending himself an that which he has chosen. Mackenzie would not think of acking Bergmann at a meeting of the Britislı Medical Associam , and Bergmann should not attack a foreigner with reference a matter which was not before the meeting of the Berlin edical Society."
In dealing with the same subject another paper says: "Prossor von Bergmann draws a fine distinction between an honourle medical practitioner and one that is not honourable. cording to him, a doctor who talks publicly about things curring in the sick-room to a number of different people through lose means this talk is inserted in a newspaper, such a man is nourable; but if a doctor demands, in accordance with the rman Press bawe, that incorrect statements concerning himself all be corrected and signs his name (in accordance with the law), ch a physician is not loonourable." Then there is the Freisinre Zeitung, which says: "It is remarkable in any case that at very moment whien Professor von Bergmann demands the atest reticence from the physicians in attendance, the fficious" press is able to publish the contents of his correspondze respecting the august patient. If one physician publicly acks another, we consider his conduct more honourable if he ns his name, than if he attacks his colleagues through the ptilia."
Chese quotations will suffice to show that the independent public inion of Germany is entirely misrepresented by the "elegant racts" from the reptile section of our press, which certain your newspaper correspondents have so perseveringly collecter the edification of your English gobemouches. By the way, I pose that I should explain the expression Reptilix, used above designate the German Tory papers. This addition to the polial vocabulary owes its invention, like so many others, to the iius of our Iron Chancellor. There is a very large sum of moncy he hands of the Prussian Government, owing to the confisean of the property of the King of IIanorer. This money Dismarch, th his claracteristic cynical frankness, said he would keep for bery and the payment of spies in forcign countries and of paran scribes at home, and lie gave it the significant name of the eptile Fund." In this way, certain papers which are comnly supposed to receive subventions (the Kölnische Zeitung, the eniz Zeitung, the Post, and the Mambiirger Nachrichten), have ae to he known among opposition journalists as the Roptilic. ear that Mackenzie is bringing an action against one of them, ich recently nsed the term "dishonest" in speaking of him. claims 10,000 marks as clamages, this being the legal price here he luxury of applying that epithet to an opponent.
s there has been an incredible amount of misrepresentation as What occurred on that fatal 13th of April (when the present is in the Emperor's malady began), 1 think you may like to e a brief account of what actually took place. You may rely the accuracs of the information which I am sbont to give. On night of Wedneslny, April 12th. Dr. Hovell noticed that Iris - iesty was breathing somewhat noisily, but plenty of air entered lungs; he shifted the tube a little so as to make it lie more fortably, and at 10 oclock on Thursday morning, when Drs. gner and Krause, together with Sir Morell Mackenzie, were in indance, a fresh tube was put in. After Drs. Wegner and Kirause Sir Morell Mackenzie, not being entirely satisfied with the e of things, went into berlin to see if some tubes which he had priously ordered were ready. Finding that they were not, he had - impromptn tube made of lead, which, of course, could be ckly bent to any curre that might be desirable. On his return "Tharlottenburg, it being then 3 P.M., Sir Morell Mackenzie disched a groom helonging to the palace (called oflicially a Reit${ }^{4}$ cht, but in the papers, not quite correctly, a Dispatchenreiter) "h a letter to Professor von Bergmann asking him to "come as Sil as possible." This expression, which has been made so much - y Sir Morell Mackenzie's assailants, meant in reality nothing e than that, as everything was in readiness, it was desirable the Professor should be in attendance without delay. In ling a Reitknecht Sir Morell Mackenzie only did what he is in thabit of doing on much less important occasions; in fact, when urrived at Charlottenburg be was told that when he wanted
anything (for example, a book from Berlin, change for English money, etc.), he was al ways to send a Reitknecht. The dispatch of this messenger, therefore, whose ride ventre à terre to Berlin has been described with the lurid eloquence of Carlyle as a historical event of "epoch-making". character, was in reality nothing out of the ordinary course of things. Professor von Bergmann was summoned as a matter-not of necessity-but of professional courtesy; and it is Sir Morell Mackenzie's declaration to that effect (made in reply to totally unfounded attacks) that has made him so angry. When he arrived, instead of standing by while Sir Morell Mackenzie introduced the tube, Bergmann quickly pulled out the cannula then in the trachea, and tried to introduce a fresh tube. It went in, but no air came out. He then thrust his finger deeply into the wound, and afterwards pushed in a second cannula. Still no air came out, but blood began to tlow freely, and repeated attacks of violent suffocative cough came on. Bergmann then sent for his assistant, Dr. Bramann, who was waiting outside, and the latter inserted a small tube (No. 8 German scale). This tube was sereral sizes smaller than the one Sir Morell Mackenzie had suggested using at San Remo, when he was overruled by the German surgeons. The bleeding continued for some hours, and during Friday and Saturday the Emperor complained of soreness in the throat. At 6 P.as. on the latter day. lie had a shivering fit, followed by rise of temperature. An abscess situated at the sides and back of the trachea near the lower end of the tube soon afterwards burst, and pus has been disclarged in greater or less abundance ever since. This is a plain unvarnished narrative of the facts as they occurred. I prefer to make no comment on them, but professional men will no doubt draw their own inferences from them. The retirement of Crofessor von Bergmann has removed the one discordant element in the counsels of the Emperor's medical advisers, among whom the most perfect harmony now prevails.

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Iolatile Bases in the Blood. - Bacillary Psendo-tuberculosis. M. Wurtz publishes, in the Compte Rendu des Seances de la Société de Biologie, of Jauuary 20th, some notes on the presence of volatile bases in the blood, and in the air exhaled from the lungs. To collect and isolate the volatile bases rhich pass from the blood into the expired air, M. Wurtz stirred up in it a 1 per cent. solution of oxalic acid, using a special apparatus. This apparatus is so constructed as to avoid error arising from the projection of saliva or solid particles. When a sufficient number of cubic metres of air has passed into the apparatus, the solution of oxalic acid is saturated with pure carbonate of lime, free from chloride or sulphate, as the solution is neutralised by adding a drop or two of lime water, which immediately precipitates the oxalic acid. Then filter: neutralise exactly by a trace of chlorhydric acid: evaporate in vacuo. Varions chlorhydrates are thus obtained, amongst whicli chlorhydrate of ammonia, which predominates; and a certain proportion of an organic base determined by M . Wurtz, by the following reagents precipitated by Bonchardat's reagent, also by donble ioduret of potassium and of mercury: I soluble chloroplatinate, crystallising in short needles, is formed. This chloreplatinate seemed to have the same crystalline form as that of ene of the bases of the blood isolated by solulle chloroaurate. M. Wurtz was not able to analyse or to experiment on the physiological effects; this lie intends to do on future occasions.
A communication from MM. Charrin and Roger, on bacillary pseudo-tuberculosis, was read before the Academic des Sciences, on March 19th, 1888. A guinea-pig died suddenly in Professor Bonchard's laboratory. At the necropay the liver and spleen were found covered with granulations similar to those of tuberculosis. MM. Charrin and and Roger isolated a mobile bacillus from 'thoso organs which devclops in gelatine, gclose and potato, but does not liquefy gelatine. The skin of rabhits was inoculated with this bacillus, and a local tumour was produced, followed by adenopathy. The animals died on the third day: the liver and spleen were full of grannlations, and in in fifth of the cases similar granulations were found in the kidneys and lungs. The same results are produced when the peritoneum is inoculated. A serofibrinous pleurisy results from inoculation of the pleura. in addition to the above lesions. In the guinea-pig the disease gives
rise to local lesions. The microbe is pathogenic to the mouse, hut has no effect on the dog, cat or ass. The disease discovered by MLM. Charrin and lioger, liko that of MM. Malassez and Vignal, is inoculafle in series. This chnracteristic does not suflice to prove the tuherculous nature of a disease, but to indicate its parasitic nature.

## VIENNA.

[FROM OUR OWN CORRESPONDENT.]
Operative Treatment of Empyema of the Antrum.-Innervation of Hepatic Tessels.
Dr. S. LiNK, of Lemberg, in a recent number of the Praeglad Lekarski, relates two cases of operative treatment of empyema of the antrum. Diculicz was the first who successfully performed the operation proposed by Zuckerkandl. He has operated in four cases. With a specially constructed drill he perforated the thin part of the wall of the maxillary sinus below the inferior turbinate bone, and thus gave issue to the contents through the nose. Dr. Liuk has in two similar cases performed the same operation, with nn equally good result. The first was that of a woman, nged 32 , who suffered from severe pain in the upper maxilla owing to n carious tooth. After the extraction of the tooth, pus was constantly discharged from the alveolus. On examination Dr. Link detected in the nlveolus, corresponding to the left upper wisdom-tooth, a fistula througl which the mouth communicated with the maxillary sinus. On dilating the fistula a considerable amount of atheromatous material escaped into the cavity of the mouth. With the view of closing the fistula, Dr. Link performed the above-mentioned operation ander chloroform. A large quantity of sour-smelling fluid escaped from the nostril. The antrum was then washed out with a 10 per cent. emulsion of iodoform and glycerine, and stuffed with iodoform gauze. The tampons were removed after twenty-four hours, and the cavity was washed out every day by means of the syringe devised for the purpose by Miculica. After eight days the fistula in the alveolus was closed, and after three months the patient wrote to the author that she had very seldom occasion to syringe out the casity, that the pain had ceased, and that there was very little discharge. The second case was that of nn artilleryman, aged 22, belonging to a tuberculous family. After the extraction of the second upper right molar tooth, whieh was carious, an abscess formed beneath the internal angle of the right eye, which burst later on, and was followed by a fistuln in the cheek, from which there was a constant discharge of pns. The fistula communicated with the maxillary sinus, into which a probe could be passed through the alveolus of the tooth whieh had been removed, or through the natural opening of the right nasal cavity benenth the lower turbinate bone. Miculicz's operation was performed on November 26th. On syringing out the carity, a flud similar to that in the first case escaped. The maxillary sinus was afterwards scraped out with a sharp spoon which was passed tbrough the external fistula; a drainage-tube was introduced, and the right nasal cavity was stuffed with iodoform gauze. The tampon was removed after twenty-four hours, nad the maxillary sinus was then daily washed out with a solution of salicylic acid. The drainage-tube was removed after six days, and two days later the fistula in the cheek and the alveolus had closed. On washing out the cavity, which was now done daily through the artifieial opening, the injected fluid returned quite elean. A deep retracted scar was left below the internal angle of the right eye, at the spot where the fistula had been before. The author then discussed the advantnges of this method as compared with that of Störk, and stated that he had found a new dingnostic sign which consisted in the fact that by percussion of the hard palate it could be recognised whether the maxillary sinus was empty, and whether its contents were fluid or solid.

At a recent meeting of the Imperial Royal Society of Physicians of Vienna, Dr. l'al made a communication on the innervation of the hepatic vessels. Claude lernard was the first to formnlate the hypothesis of hepatic nerves, though their existence had not been directly proved. Dr. I'al had tried to decide this problem in the following manner. He ligatared below the anastomosis of the hepatic reins with the portal vein all those blood-vessels which conveyed blood to the liver, such as the thoracic part of the aorta and the ascending vena cara. On irritating the peripheral part of the splanchnic nerre, considerable increase of the
blood-pressure was produced; the same was also observed when
the ascending cava was ligatured above the implantation of the hepatic veins, but in this ense to a lesser degree. Lxperiments which he had made with the view of determining the rapidity of the out-llowing blood slowed that the liver pressed out blood on irritating the splanchnic nerve, thus proving the presence of viso-constrictors in the liver.

## EGIPT.

[FROM AN OCCASIONAL CORRESPONDENT.]
Economies in the Sanitary Scrvice.-Professor Virchow on Bil-harzia.-The Medical School and Mospital. - Foundation of a Medieal Society.-Out-Patients.-The Alerandria Hospital.
Econony is just now the order of the day in Egypt. To provide means for cutting drainage canals and therely supplement and complete the irrigation scheme from which so much has been expected, the finance authorities are resolved on reducing expenditure in all departments of the State to the lowest possible tigure. A Commission of Economy has consequently beeln very, busy lately examining badgets in the various administrations, and anongst other retrenchments has recommended that a reduction of $£ 7,500$ should be effected in the Services Sanitaires. This
department, with a totally insufficient budget of $£ 100,000$, is supdepartment, with a totally insufficient budget of $£ 100,000$, is sup-
posed to carry out the following duties: Registration of births and deaths thronghout Egypt; vaccination; the issuing of permits for burial; examination of, and report on, all medico-legal questions; recruiting; medical inspection of government employes : medical clarge of prisons; sanitary supervision of country in general; charge and maintenance of 21 hospitals containing 1,735 beds; the same as regards several newly established dispensaries, which, latter seem to promise well for the future civilisation of the country. Out of the a'ove mentioned sum no less than $£ 28,000$ is devoted to the scavenging and watering of Cairo and Alexandria, one item of expenditure in the former city being $£ 7,000$, for cost of water alone ; there remains, therefore, about $£ 70,000$ to meet the above requirements, besides others too numerous to mention, such as reterinary supervision, sanitary engineering, maintenance of foundlings, etc., and from this mengre allowance it is now proposed to subtract about 10 per cent. in order that visionary irrigation may be prevented from ruining the laad. This is certainly very hard on the ofticials of the Sanitary Department, who hare one and all worked with zeal and energy; and are admitted on all sides to deserve well of the country. The Economy Commission also holds this opinion, for it has recommended the fuslon of the Tanzim in the Services Sanitaires, the Tanzim being that section of the Public Works Department which gives permission for the erection of new buildings, and which also has charge of rond making and public gardens. For these purposes a sum of $£ 60,000$ is allowed annually for Cairo alone, a sum which the Commission with justice looks on as too large, considering the results obtained, and considering also that no less than 54 engineers and 26 writers are now employed in obtaining these results at a cost to the State of over $£ 12,000$.

Professor Virchow, who had been for some time up the Nile.. lately returned to Cairo, and devoted bis immense influence towards stimulating the authorities to a systematic examiantion into the habitat of the bilharzia hæmatobia and the manaer in which that parasite makes its entry into the human horly. There is no doubt that the distoma is nbundant in Egypt, but what remain to be ascertained are the locnlities where it under goes its development and attains to maturity, If these could be
determined, something might possibly be done townrds reducing determined, something might possibly le done townrds reducing
the evil, or perchance the pest might even be stamped out altogether. Dr. Fouquet, of Cairo, has had great success in the treatment of the bilharzia by means of the extract of male fern. Ite has communicated to La France Médicale a detailed account of fiftecen enses in which perfect cure had been the result. Thin seemed to interest Professor Virchow very much, for, in common with most authorities, he had been under the impression that
treatment was of little avail when once the parasite had established itself in the urinary tracts.
The great pathologist visited with unwearied diligence the whole of the medical and sanitary institutions of Cairo, and app peared much struck with the new installation of the medical
school, and with the arrangcment of the Government hospital at school, and with the arrangement of the Government hospital at
Kasr-el-Aini, which of late years has been much improved undes the able management of Dr. Milton. Amongst the cases whicl: attracted the attention of the Professor was one of a native gir
yho was being supplied with a new upper lip from her arm, the imb being inmorably fixed in the necessary position by means of plaster-of-r'aris apparatus. Perfect union had taken place by he first intention, but during the precess there had necessarily reen some difficulty in feeding the patient, till it was discovered hat slie possessed the power of swallowing fluids quite easily lirough the nosc. For the Professor's edification she was given a up of water, which she applied to one nostril, quietly sniffing up he contents without even closing the other nostril, and with pparently the greatest ease in the world.
A new medical society has lately been started in Caire under he presidentship of Dr. Salem Pacha. The secend meeting toek , ace a few nights ago, when Professer Virchow delivered an adtress in the German language, his elequent utterances being, at he close of each period, translated into equally eloquent Arabic iy the President. It is hoped that this Society, so auspiciously naugurated, may do much to cement and solidify the entente ordiale amongst the members of the medical profession practisng in Egypt, whom, unfortnnately, national and other jealousies lave hitherto done much to keep separate and antagonistic.
The out-patient department at Kasr-el-Aini has increased of ate in an almost alarming manner. Last year no less than 30,000 ases were treated-that is to say, there was a daily average atendance (excluding Fridays) of about 100 patients, for whom upwards of 17,000 prescriptions were dispensed. This, of course, ncreasea the drug bill of the Sanitary Administration, whose nudget, however, is unfortunately not an elastic one.
Dr Greene Pacha hopes soon to secure the services of another Snglish medical man, whom he proposes to place in charge of the iovernment hospital at Alexandria, in order that that institution nay be raised to the level of Kasr-el-Aini, a desideratum which, inder present circnmstances, is absolutely hopeless. Dr. Reatinge, vho has done good service with the Egyptian army, and who is vell acquainted with Arabic, is the gentleman proposed for the iest.

## SWITZERLAND.

[from our own correspondent.]

## Camphorated Carbolic Acid.-Professor Forel on Hypnotism.

 N the Correspondenzblatt für Schweizer Aerzte, No. 7, 1888, ,. 209, Dr. Th. Sclineider, of Basle, recommends camphorated carrolic acid as an "elegant, reliable, and very convenient antieptic preparation." As is well known, when one part of crystallised arbelic acid and three parts of powdered camphor are shaken up ogether in a test-tube, a colourless limpid fluid is produced. This nixture does not possess either the characteristic odour or the ubefacient and caustic properties of carbolic acid, while the aniseptic power of the latter remains intact. When placed on the ongue the compound causes but a very slight burning sensation. thas no effect on polished steel.At a meeting of the Gesellschaft der Aerzte in Zürich. Proessor Forel read an interesting paper on hypnetism. Having ecently made experiments on seventy-two persons, he had succeeded in inducing more or less deep hypnotic sleep in as many is fifty-two. IIe had never observed the slightest injurious ffects from lyypnotisation by modern inproved methods, vhereas, several years ago, when using an old bad method consistIng in fixation of a bright alining button, he had seen in a neurotie woman) a screre hysterical attack, with ubsequent delirium, which, however, yielded to faradisation. Jn the whole, he believes that any injurious effects of yynnotic experiments are caused by the employment of bad netheds, as well as by some want of skill and experience. Like ieheault, Professor Forel teaches that the hypnotic state is imply an artificinlly-produced sleep, modified in so far that the lypnotiser is enaliled to influence the course of the "subject's" Ireams. The hypnotisation itself consists in actually sending to leep, and, as far as the person experimented upen is concerned, ts success depends solely upon a certain power of falling aslecp asily, and a corresponding willingness to submit to the hypratiser's will. Any disappearance of nerveus symptoms under the nfluence of lyypnotism is to be explained exactly in the same way as the cessation of pain (for example, toothache, sciatica, etc.), which, as is well known, often follows sudden riolent fright, etc. n other wards, "it is to be attributed to cerebral inhibitory pro--esses caused by intensive dreams." "A dcep-rooted morbid irriation cannet lie removel by hypnotisation." The auther menions a case of obstinate neuralgia in an otherwise healthy nurse,
which was permanently cured by hypmotic suggestion. A marked improvement also took place in a case of chrenic alcoholism where a disgust towards spirits had been "suggested during the hypnotic sleep." On the other hand, no satisfactory results could be obtained in a case of epileptic insanity in a boy. Referring to l'rofessor Forel's communication, Dr. von Monakow, of Zuirich, stated that he had lately treated two women by bypnotic suggestions. One of them was suffering from brachial neuralgia, the sther from hallucinations. In both, the morbid symptoms disappeared for a time, but returned after a certain interral (for example, a fortnight) to yield again temporarily to the same procedure, and so on.

## NEWCASTLE - LPON - TYNE.

[From our own correspondent.]

## The Infirmary.-The Medical Officership of the Horkhouse Hospital.

A quarterly meeting of the governors of the Infirmary was held last week, when it was announced that the Corporation of Newcastle had increased their annual subscription from 160 guineas to $£ 300$, and that there was an increase in the subscriptions for the quarter over that of any previous year.

The beard of guardians bave at last definitively settled the appointments of medical officer and master and matron, and both appointments hare been ratified by the Local Government Board. Mr. T. A. Dodd, assistant-surgeon to the Infirmary, has received the post of consulting medical officer after a close fight with Mr. W. G. Black. The appointment is a popular one with the profession, and could not have fallen into better hands. Mr. Dodd has been in practice for some time, and has held the assistant-surgeoncy of the Infirmary for about ten years, so that both in age and experience he is well qualified for the post.

## MANCHESTER.

[FROM oUR OWN CORRESPONDENT.]

## The Owens College Medical School.-Professar Sinclair's Introductory Address.-The "Sweating System."

THE summer session in the Medical School of the Owens College was opened on May Ist, and already we believe the entries are ahead of those in any previous session, so that, as far as numbers go, the present summer session bids fair to be the most successful in the bistory of this Medical School.

Professor Sinclair, the newly-elected Professor of Obstetrics in the College, gave his introductory lecture on Thursday to an andience who accorded him a most hearty welcome. The Professor gave an interesting account of the evolution of gynxcology, and lie secured the wrapt attention of his audience from beginning to end by the marked literary tone of the address, combined with the effective historical account of the subject. We understand that clinical work will form an integral part of the teaching of Professor Sinclair.

Much interest is being exhibited by the authorities in the inrestigation of the "sweating system" in this neighbourhend, and already reports have been made to several municipal authorities thereon.

## SHEFFIELD.

[FROM OUR OWN CORRESPONDENT.]
Horking Class Representatives on the Board of the Rotherham Hospital. - Small-por Hospitals and Schools.-Small-pox in Sheffeld.
The werking men of the town and neighbourhood contribute in a most praiseworthy manner to the Rotherham IIospital. Somo little feeling has found expression that they are insufticiently represented on the management. The weekly beard ealled a meeting of the representatives of the working men subscribers, and, in conseqnence of the frank and courteous manner in which the chairman and other members met the delegates, it is loped any irritation will have been dissipated. The question of hospital management is recognised as a difficult one, and the increase of werking class representatires, whose time for such work is necessarily limited, is one requiring care and wisdom. The hospital has received a notable and raluable addition in a new ward for twenty beds, erected at a cost of about $£ 1,200$. with every modern requisite. It was opened in January last. It was suggested by one of
the working men representatives that the opening of this new ward would reader necessary an increase in the medical staff. During the last year, however, the daily avernge of in-patients was only [9.1, and, therefore, it may well be aftirmed that more such wards will have to be added before it becomes necessary, or, indeed, desirable, to add to the honorary working staff, which alrendy consists of three members.

The Mexhorough School Board are proceeding with their plan of erecting a school close to the small-pox hospital, in spite of the remonstrances of the medical officer of health. The playground will be adjacent to the hospital.

The small-por epidemic may almost be regarded ns ended. The number of deaths from this cause during the last week was only five. Attercliffe has been the district where the disease has chiefly lingered. Here many people have unfortonately persisteatly set their faces against revaccination, piuning their faith to Mr. Werring. If Attercliffe had only adopted the prudent and sensible course adopted elsewhere, the disease would have died out ere this.

## CORRESPONDENCE.

## THE CIIARTELS OF THE ROYAL COLLEGE OF SURGEONS.

Sir,-The Fellows and Blembers of the College mast not allow of any lull in their agitation for those rights for which they have so long striven. A sharp eye must be kept on the petition of the College for a new charter. The last that was heard of the matter was on April 23 red, when Viscount Cranbrook, in reply to Lord Sudeley, said that he did not think that the petition of the Royal College of Surgeons for a supplementary charter, though it raised points of some importance, could be properly referred to the Commission about to be appointed to consider the question of a new university. Care must be taken lest the Fellows and Members should be hoodwinked by the expression "supplementary," which practically, though not technically, implies a new charter; in short, it signifies precisely what the Fellows do not wish to be sanctioned by law until they have been allowed a voice in the matter. Let them remember nud think on their claims calmly and deliberately, else they may not be awakened to energy till within three weaks or a fortnight of the next meeting-too short a period for independent thought. Let not everything be left for a few well-known bold and disinterested leaders. Again, July is drawiug near; let the Fellows and Members think whom they will select as worthy to represent them and to further their views on the Council; and may the provincial Fellows exert themselves, so as to ndd nt least one more of their number to the Council. It is noteworthy that the Council hare thought that prudence adrised them not to notice the Members' petition to the Privy Council, or to attempt any reply to the statement made by them to the Lord l'resident.-I am, ete.,
F.R.C.S.

## SIR BORELL MACKLNZIE AND IROFESSOR VON BERGMANN.

Sir,-At the meeting of the Berlin Medical Society last Tuesday a letter from Professor von Bergmann to the following effect was read: "On April 28 th the Britise Medical Journal made these rumarks: "As Profeasor von Bergmann lias not contradicted this staterment it may be accepted as true; that is to say; because 1 nm silent in the face of a statement of facts and of personal uttacks it shows they must be well founded. If the Britisu Mrimeab, Jounval were not a journal whose scientific value I prize very highly, I might still remain silent in the presence of such an accusation, but under the circumstauces I must defend myself. I am not silent because I an in the wrong, but because I, like every honourable British or German physician, do not tall publicly about what goes on at the bedside of my patients."
The observations which you made on Professor Bergmann were,
I. suppose, called forth by the letter which. Mr. Ilovell addressec to the Cologne Gazette demanding a rectification when charged by that newspaper with "having done serions injury to His Majesty by having forced deleterious matters down into his lungs." In Germany, before taking criminal proceedings against a journal for making a false statement, the I'ress Laws require the aggrieved person to demand a rectification (Berichtigung), and such demand must be signed. I have never given any information to the press except such as was permitted by august personages, with a view of contradicting the false and exaggerated reports which certain people have delighted to spread. ${ }^{1}$

Further, neither I nor Mr. IIovell have over attacked a colleague under the veil of anonymity, nor openly, except when acting ia self-defence. On the other hand, Professor von Bergmann is known to be in close relationship with Dr. Fischer, the Berlin correspondent of the paper (Culogne Gazette) which libelled Mr. Hovelí so cruelly. It has, in fact, been stated over and over again in the German press that this attack could only have come from Professor von Bergmann. The English public have seen that l'rofessor von Bergmann is on such intimate terms with the Berlix correspondent of the Times that he has shown that person a private letter of mine to him. The Kreuz Zeitung, au organ which likewise receives its inspirations from Professor von Bergmana, and could only have obtained its pretended information, directly or indirectly, from him, described me as "at my wit's end" (rathlos); then, when, in accordance with the German l'res: Laws, I wrote a letter demanding a rectification, and pointed out that Professor von Bergmann did not even introdnee the canmula, the professor is hart at my cundour and poses as a "whole-souled" man who "does not speak publicly of what goe on in the sick room." This is really too much like the Gracchi denouncing sedition.

The medical profession in England will be glad to hear that 1 have received an immense number of letters from medical men ia nll parts of Germany expressing their satisfaction at the treatment which I have pursued in the case of Ilis Majesty, and it is on the pressing advice of eminent members of the profession in Berlin (members of the Berlin Medical Society) that I now defend myself in the Jounnal against the attacks of Professor vou Berg-mann.-I am, etc.,

Morell Mackenzie.
Charlottenburg, May 8th, 1888.

## WANTED AN ADDRESS.

Sir,--The late Dr. John Murray pablished in the MedicoChirurgical Transactions for 1873 the cases of three children in one family who suffered from a most extraordiuary condition of the gums with the development of subcutaneous tumours in various parts of the body: The parents of the children S. kept a greengrocer's shop near the Liverpool Road. The children had been under care at varions hospitals, and their cases hat excited great interest. 1 should be very much obliged to auy of your readers who may be nble to give me any information as to the present condition of these patients, and should be especially glad of an opportunity of seeing them again.-I am, etc.,
15, Cavendish Square, W.
Jonathan IIutchinson.

## TEA AND TEETII.

Sir,-It seems a pity that the writer who contributes to the Journal of May 5 th some speculations on a subject of dental pathology did not first make himself acquainted with some of the fundamental facts of the subject. Ie might have learnt from any dental manual that no such structures as "tooth-sacs" exist in relation with fully formed teeth; and that teeth are covered with enamel, not dentine. Reference to a work on chemistry might have further tanght him that to write of "theine or tamin having an elective affinity for dentine" is pare nonsense.

This writer represents a considerable class who seem to look upon the teeth as mysteries worked by miracle, wherens they are, in fact, extremely simple structures compared to more hirhly organised parts, and their maladies proportionately easy to under
1 Whilst. however. Professor von Bergmann was in attendance, the sufnutedt detaily from the sick ehamber vere publlahed in the National Keipmg, a payer which reccived its information from Profcssor von Bergmann, Nat onts wad: the atate of the pulse given, but the frequency of the respiration whas punther not only was the oxact food and drink stated, but the nedicino anil pent effect. gicaimeasures proposed by Professor oon Bergmann, but not carrided riven any wore described. Neither I nor my linglish colleague have ever fiven any Information as to food or medicino, much less as to the frequency of respira
tion. Any detabls on such matiers publsbea in Englas papers haro boon takes tion. Any detalls on such mat
from Qarman sourves.- M. MI.
tand and explain. The main predisposing causes of tooth decay caries) are, first, innate structural defects in enamel and dentine, endering them easily acted upon by agents; and, secondly, vitiaion of the secretions of the mouth, whereby these agents (acids and micro-organisms) are developed and lodged on and about the eeth. Excessive tea drinking, in so far as it might tend to proluce the latter effect, sloould certainly be looked upon as a remote :ause of dental disease.-I am, etc.,
II. S.

## London, Nay 5th.

Sir, - ibout 2,000 of the population here work in the cotton actories; they not only take strong tea at their morning, midlay, and evening meals, but many of them a cup at 6 A.M. When roing to their work, and numbers also carry cans of tea with them Fhich thev drink during the day, heating it on steam pipes. They lmost without exception have bad teeth, many having lost vearly Wl their teeth at puberty, and in not a few instances the disease, rhatever be its cause, appears to he hereditary, children during he period of teething losing their first teeth before the latter ones ippear. The decay begins in or near the fangs, having no resemlance to specific disease; in fact, syphilis is almost unknown in his particular district.-I am, etc.,
E. B. Ffennell, M.B., B.Ch.

Barrowford, Lancashire, Mny 7th.

## INCISION AND EXCISION OF JOINTS.

Sir,-May 1 be allowed to correct a clerical error in the report of my remarks on Mr. Wainewright's paper, read before the last neeting of the Clinical Society. 1 was arguing in favour of Mr. 3ennett's view that the suppurating hip-joint which recovered fter incision was the result of acute inflammation, possibly septic n nature; and I mentioned a case in which three joints in sucession had been affected, requiring incision. The printed report ays, "Mr. Lucas mentioned a case in which three joints had been iffected in succession requiring ercision." This quite alters the lirection of my contention, which was to the effect that acute uppurating joints would recover after simple incision, but that hronic pulpy joints mould require a more radical operation to ring about complete cure.
The case alluded to is now before me. A child, aged 3 years nd 9 months, was seized fire days before admission with shiverng, sickness, and headaclie. She was admitted as a medical case n a fretful, typhoid condition, complaining of general tenderness. Ifew days later a swelling connected with the left shoulder was 1oticed, and about three weeks after an abscess was opened antieptically. The temperature fell to subnormal, but soon rose gain. After another interval of three weeks, owing to pain and Welling abont the right hip, it was thought advisable to apply a louble hip-splint. A week later an abscess was opened behind he right trochanter. Irregular temperatures continued, and, after fortnight's interval, an abscess was found connected with the eft hip, which was also opened. All these joints recovered, and he wounds healed, but some shortening was noticed on the right ide before the child left the hospital.-I am, ctc.,
R. Clement Lucas, B.S., F.R.C.S.,

Surgeon to the Evelina Hospital for Children, etc.
Finsbury Square, May 5th.

## MEDICAL DECLARATIONS RE ALCOHOL.

Sir,-The annexed circular has heen sent to more than 2,000 of he leading medical men of the United Kingdom, and a rery large umber of valuable endorsements has been receired. Our Council rould, but for the great expense involved, have sent a similar kreular to every practitioner in the kingdom; but, as this is imnosible, may I ask that this important matter may he brought mer their notice through your columns, and that all may thus ave an opportunity of appendiug their names before the list is rublished? If, as soon as possible after reading this, e ich one vhe approves of these declarations will send me a post-card, ddressed "Dr. Ridge, Enfield, Middlesex," with the simple stateaent, "I endorse Declaration 1, II, and III" (any or all, as the ase may be), with his uame and qualifications, it will he nuch pprecinted.-1 am, etc.,
J. Jamies Ridge.

## Enfield

Carlonn House. Entield, Mddlemex. Fobriary, 1883. Dear Sir,-You are bubtless aware that during the last fifty years three modical decharations -specting aloohol have been issued. The first of thesc, issuod in 1839, was to ipecting aloohol have
iollowing effeot:-

Declaration 1.-"An opinion banded down from rude and ignorant timex and imblbed by Englishmen from their yonth, has become very general, tiat the habitual use of some portion of alcoholic drink, as uf wine, beer, or spirit, is bencficial to bealth, and eveo necessary to those who are subjected to habitual labour. Anatomy, physiology, and the experience oi all ages and countries when properly examined, nust satisiy overy mind, well-informed in medical science, that the above opiniou is altogether erroneous. Man, in ordinary science, likat other animals, requires not any such stimulants, and cannot be bemefited by the habitual employment of any quantity of them, large or small; nor will their use during his lifetime increase tho aggregate amount of bis labour. In whatever quantity they are employed, they will ratber tend to dimuish it. When he is in a state of temporary debility from illness or other causes, a temporary use of them, as of other stimulat medicines, may be desirable; but as soon as he is raised to his natural standard of health, a contiouance of their use can do no good to him, even in the most moderate quantities, while larger quantities (yct such as by many persons are thought moderate) do sooner or later, prore injurious to the human constitution, yithout any exceptions. It is my oninion that the above statenuent is substantially out any."
correct. This document was signed by Sir Benjamin Brodie. Dr. W. F. Chambers, Sir Janyes Clarke, Bransly Cooper, Dr. D. Davies, Sir J. Eyre, Dr. K. Fergusod, Mason Good, Dr. Marshall Hall, Dr. J. Hope, C. A. Key, Dr. R. Lee Herbert Mayo. R. Partridge, Richard Quain, Dr. A. T. Thomson, R. Travera, Drs. Andrew and Alexander Ure, and in all by serenty-eight men of distinction iu the profession.
The second medical eertificate was promoted by Jobs Dunlop, Tisq., In 1347. aod was signed by upwards of 2,000 physicians and surgeons. Their testimony
was as iolation :II.-"We, the undersigned, are of opinion: 1. That a very large portion of human misery, iucluding poverty, disease, and crime, is induced by the use of alcoholic or fermented liquors or beverages. 2. That the most perfect health is compatible with total abstinence from all such intoxicating bererages, whether in the form of ardent spirits, or as wine, beer, ale, poiter, cider, etc. 3. That persons accustomed to such drinks may, with perfect safety, discontinue them entirely, either at once or gradually, aiter a short time. 4. That total and universal abstinence from alcoholic liquors and beverages of all sorts would greatly contribute to the health, the prosperity, the morality, and the happiness of the buman race."

Among the signatures to this document in London were those of Dr. Addi30D, Dr. Niel Arnot, J. Moncrieff Arnott. Esq.. Dr. B. G. Baとington, Dr. Beattie, Sir J. Misdon Bennett, Dr. A. Billing. Dr. John Bostock, Dr. Golding-Bird, Dr. Black, Dr. R. Bright. W. Bowman, Esq., Sir B. C. Brodie. Sir W. Burnett. Dr. G. Budd, Slr G. Burrows, Dr. W. B. Carpenter. Dr. W. F. Chambers, Sir J. Clark, Dr. Copland, Sir J. Eyre, Dr. A. Farre, Ur. Mobert Ferguson, Sir W. Perguson, Sir J. Forbes, H. D. Graioger, Esq.. Dr. Guy, Dr. Marshall Hall, Sir H. Holland, Sir Aston Key, F. Kiernan, Esq., W. B. Lamguore, Esq.. Dr, P. M. Latham, Sir J. McGrigor, Bart., Dr. J. A. Paris, Dr. Peacock, Jr. Pereira, Dr. Lettigres, Dr. Prout, Dr. Toyubee, Dr. Wilks, Erasmus Wilson, Esq., Dr. Forbes Pettigrew, Dr. Prout, Dr. Doyubee, Dr.
Winslow, and many others of equal note.

In the provinces the followiog signed with many others:-Professor Adams, Dr. Aitken, Professor Alison, Dr.S. Begbie. W. Braithwaite, Esq., Dr. Buchanan, Dr. P. Crampton, Professor Curran, Dr, Keith, Sir H, Marsh, Dr. Q. E. Paget, Professor Pirrie, Professor J. Reid, Professor Syme, T. P. Teale, Esq., Dr. Andrew Wood, Dr. Wylie, etc.
The third deelaration was Issued in 1871 to the following effect :-
Declaration III.-"As it is believed that the inconsiderate prescription of largo quantities of alcoholic liquids by medical men for their patients has gived rise, in many instances, to the formation of intemperate habits, the uadersigned, while unable to abandon the use of alcohol in the treatment of certain cases of disease, are yet of opinion that no medical practitioner should prescribe It without a sense of grave respongibility. They teliere that alcohol, in whatever form, should be prescribed with as nuch care as any poverful drug, and that the directions for its use shomld be so framed as not to be iuterpreted as a sanction for excess, or necessarily for the contiouance of its use when the occasion is past.
${ }^{6}$ They are also of opinion that many people immensely exaggerate the value of alcohol as an article of diet, and since no class of men see so much of its ill effects, and possess such power to restrain its abuse, as members of their own profession, they hold that every medical practitioner is bound th exert his intmost influence to inculcate lablits of grest moderation in the use of alcoholic liquids.
"Being also firmly convinced that the great amount of drinking of alcolaolic liquors among the workiog classes of this country is one of the greatest evils of the day. destroying-more than anything else-the bealth. Gappiness, andt welfare of those classes, and neutralling to a large extent the great industrial prosperity whieh Irovictence has placed within the reach of this nation, the prosperiomed would glady support any wise legiglation which mould tend to undersigned would glady support any wise lic beverages, and gradually introrestrict within proper limits
duce habits of temperance."
This third declaration was signed by most of the leading cousultigg and hospital physiclans and surgeons of the day.
It is now 17 years since the last declaration. 41 years since the second, and 49 slnce the first, and durlag this long perioct a Fist amount of experience las accumulated, both as to the effects of alcohol, and as to the practice of abstinence, so that there shonld be no difficulty in deternining whether the abova declarations a ro correct or not
It has seemed to the Councll of the Britlyh Medleal Temperance Association hirinly desirable, both for the credit of the profession and the advantage of the publie, that these decharations should be revicwed, and their statements confirmed or denled, according to the judgment of the medical authorities ut the present day.
theg, thercfore, respectinlly to subnitt these declarations to your notice, and ask you to be kind emongh to sigu and return the enclosed forma, it your experience and observation euable you to endorse then. - I am, etc., J. JANES ELDGE, Ifonorary Secretary British Medlcal Temperance Association.

Bequests and Dojations. - Mr. George Cope, J.P., of Woolton, Liverpool, has bequeathed $£ 5,000$ to the Woolton Convalescent In-stitution.-The Baroness do Stern has given $£ 1,000$ to the London Hospital.

## NAVAL AND MILITARY MEDICAL SERVICES.

CLASS BLACKBALLING.

SIR,- With reference to the announcement in your issuo of April 28 th that an extraordinary general meeting would be held at the Junior United Service Club on May 7 th, to vote concerning the rejection of four officers at a former ballot, your readers will we glad to hear that the four gentlemen, two of whom were medical officers of the army, were elected almost unanimously. The "clique" who amuse themsclves by blackballing medical officers made a most ridiculous and feeble display, and it is quite evident that the great majority of the members are determined to permit no class prejudices to operate in the working of the club. The meeting was a large and representative one, and, it is hoped, will do muel to eradicate the objectionable practice which has prevailed for some time past of blackballing officers for no other reason than that they belonged to the medical profession.-I am, etc.,

A Correspondent.
The Director-General and the Reserve of Medical Ofricers.-In a lecture on "Field Medical Organisation," delivered to the West Kent Tactical Society, on May 4th, the DirectorGencral, Sir Thomas Crawford, M.D., K.C.B., referred to the objects of the Reserve of medical officers. He stated that the scheme was under consideration and drafted, two years ago, before the present discussion of the rank and privileges of army medical officers commenced, and that there was no intention of employing the officers of the reserre to the prejudice of the officers of the regular army.

Aray medical Politics in India.-A correspondent sends us a cutting from the Indian Pioncer, from which we see the press in that country fully grasps the points at issue between the War Secretary and the Medical Department. The questions of the reductions in the active list, the restrictions placed on retirement, and the proposcd increase of the periods of foreign service, are all cleverly handled. The full significance of the Army Medical Reserve tWarrant is also realised, and pronounced to be a shabby endearour to inveigle medical men in the auxiliary forces to place themsolves and their practices at the disposal of the War Oflicefor, literally, nothing!

## TIIE NAVY.

Staft-Strgeon Robery Grayt, M.A., M.B., has been promoted to the rank of Fleet-Surgeon. Hiis commission as Sirgeon is dated May 7th, 186s, and aa Starf-Surgeon, Juoc 7 th, 1879. While Surgen of the Plora, be served on hhore with the $88 t$ h legiment during the Kamfir War, 1877; was specially promoted for services when in charge of small-pox patients of Boadiceea, 18799 g as statrSurgeon, he lauded during the Zutu war, and accompanied the Naval Brigade to Tort Durnford (mentioned in degpatches, medal); Staff-Surgeon of Orion thriug Meyptian war, 1882 (medal, Khedive's bronze starr) : Stam-Surgeon of Orontes during naval and military operations in the Eastern Soudan, 1884; was Medleal Oficer in clarge of Truazports, and accompanied the Royal Marine B, tualion In action at Tanamich (mentioned in cespatches for his admisablie Batalion In action at Tananieh (mentioned in
nrrangements (er the sick and weunded. elasp).
Flect-Surgeon M1axweri hongers, M:D., las been promoted to be Depity Inspector-General. Mils previons commisslons are dated: Surgeon. December 2841 , 1857 ; Stafl-Surgeon, Deeember 8th, 1888; and Fleet-Surgeon, Narch bth, 1880 . He served as Assistant-Surgeen in the Belleisic, and attended on the wounded duriog the operations at the Pelho forts in 1858 (China medal); was Acting-Surgeon of the Assurance during an outlireak of cholera and fever on
 Mroarch at the bombardment of Alexnindria, July Hth, 1882, and at the occupa-


 1thi, 1838 . Fleet-Surgeon, Juno 8th, 1871 ; Deputy Inspector-General, April 1at.
 List) Assistant-Surgeon of and emploged in charge of Harlequin's lomats in at tack on Iagos, November, 1851 (mentioned In def patches), and in several subsequent orpelitlons lato the rivers and lagonns and joiniog againnt the expelled ehise K Kosko ; also employed repeatoclly in boat cruising in Harlemutn's boats, for supKresion of sisve trate on ho Weit Coast of Arrica. Assistant-Surgeon orf inper In the Black Sen during the Crimean war, repeatediy in netion; took part in the thattle of Eupat nria ; eprerat ions on the coast of Circassia, including the capture of Kertch, and the expedition in the Sea of Azov, night attacks on sea defences of selastopol, capture of Kinburn, and subsequent operations in the Gulf of Dutirer Crinenu and Turkish medala, Azov and Schastophl chasp). Assitant
 A*i.-63, H mplityed at the Cape of Goord 1 Hope and East and West Consts of Ar it incompanied Commodore Wilmut in December, 1882 , on a nuission to
 to South I Ifica in 1879. Finployel as Deputy hapector.G eneral at Inslar. and

appointed to Plymouth Hospital (Sir Gibbert Blage's Gold Medal): J.I'. of Queensland.
The following appointments have luen made at lise Admiralty: F. W.
Foster, to be Surgeon and Arent at Witon-on-the-Naze; T. A. SxEsE, M.B., to be Surgeon and Agent at Cove Bay

## THE MEDICAL STAFF

BRIGADE-SURGEON JIENRF KNAGGS has ben granted retired pay. Iintering as Assistant-Surgeon, April g2nd, 1858, he became Surgeon, March 1st, 1873 ; Sur-Geon-Major, April 1st, 187\%; and Brigade-Surgeon, April 16th, 1884. During the Beehuanaland Expedition, under Sir Charles Warren in I $581-85$, he had charge of the hospital at the buse.

Surgeon-Major Alexander BrEBNER, M.D., is also granted retired pay, Mis commissions bear date: Assistant-Surgeon, April 14th, 1863; Surgeoth, Msrels
 ment during the Bnootan campagn, in the North- West Fron
was at the recapture of Dewangiri in 1865 (medal with elasp).
was at the recapture of Dewangiri in in6s (medal with clasp). date Mareh 6th, 1880.
Surgeon V.E. Il UNTER, serving in Bengal, has passed the examingtion la Burmese by the lower stabdard.

## ARMY MFDYCAL RESERVE.

The following is sulstituted for the annonncement in the Gazette of A pril $21 t h$. 1883 (vide JoUrnal, April 2Sth ) Surgeon F'REDERIC EnWARD MANBy, F.lt.C.S., 3rd Volunteer Battalion the South Staffordshire Kegiment, to ve SurgeonMajor (rauking as Major).

The undernentioned officers to be Sirgeons-Major (ranking ns Majors): Surgeon-Major lrowland Hifl Coomns, M.D., Brd Battalion the Bedfordshire legiment (late the Bedford Militin) ; Surgeon Emenezer SaEDD, 2ud Volunteer Battalion the Essex Hegiment (formerly the 2nd Essex Volunteers) ; Surgeon Henry Geary Dier, 4tb Volunteer Battalion the Hampshire Regimont (late the 4 th IIampshire Volunteers).
The undermfationed ofticers to be Surgeons (ranking as Captains) : Surgeon Walten Culver. James, M.D., F.R.C.s. K., the Honeurable Artillery Company of Loudon: Surgeon William Jorn Naismith, M.D., F.R.C.S.E., Ayrshire Yeomaniry Cavairy: Acting-Surgeon AzFRED LiNGARD, 3rd Middlesex Artillery Volunteers: Aeting-Surgeon Robert Clark, 5th Lancashire Artilery Volum teers; Surgeon Wibliam Chalmers Cowan, Ist Forfarshire Artillery Volniteers; Surgeon William Coates, the Manchester Division Volunteer Medical Staff; Acting-Surgeon Quintin Chalmers, M.D., 5th Volunteer Bat talion the IIghland Light Infantry (late the loth Labarkshire Volunteers) ; Acting. Sur geon William Dusican, F. P.C.S., lst Jondun Rifle Volunteers: Aeting-Surgeun Wiluiam Brows Moin, M.D., 2nd Volunteer Battalion the IIghland Light Infantry (late the 6th Lanarkshire Volunteers).

## THE INDIAN MEDICAL SERVKCE.

Suramon F. C. Clafkson, Bengal Establishment, is appointed to the offieiatiag medical charge of the 6th Bengal Cavalry, vice Surgeon- Major P. F. O'Conamr, M.D., granter furlough. This cancels Surgeon W. R. Clark's appointment to the 6 th Bengal Cavalry, previously notified.
Surgeon W. R. Clark, Bengal Establislinent, is appointed to the officisting medical charge of the 17 th Bengal Cavalry, vice Surgeou-Major W. E. Grifiths, granted furlough.
urgeon E. IIUDSon, Bengal Establishment, is appointed to the officlating medical charge of the 1ith Bengal Infantry, vice Surgeon C. Vaid, transferred temporarily to civil employ.

Surgeon W. A. SYKES, Bengal Establishment, is appointed to the officiating medical charge of the 38 th Beugal Lancers, vice Surgeon A. W. Unwson.
Surgeon R. C. HARE, Bengal Establishment, is appointed to the afliciating medical charge of the lst Punjah Infantry, vice Brigade-Surgeon J. Duncan. M.D., appointed to Shaikh Budin during the ensuing season.

Surgeon W. Conkr, M.B., Bengal Establishment, medical officer 13 th Bengal Laneers, has leave of absence for oue scar on private affairs.
Lancers, has leave of absence for oue ycar on private affairs. Surgeon G. B. Isvine, Bengal Establishment, is appointed to the ajor 1). I medical charge of the 1st Battalion 2nd Go
Mardonald, M.D. granted leave out of India.
The sersices of Surgeen II. ANE: Bombay Estahlishment, are placed at the disposal of Government for employment in the Civil Department.
Surgeon T. D. C. Barry, Bombay Fistablishment, is oppointed to the offichat no nedical elarge of the 20 hh Nitive Infantry during the absence of Surgeos Mnjor J. Mnegregor, M.D., or until further orders.
Sirgeon-Major J, LuCAs. Bombay Establishment, is appolntel to the fficiating medical charge of the $2 \overline{\text { zith Native Infantry during the absence of }}$ Sfficiating meon II. Adey, or mintil furtlier notice.
Surgeon Chafies Matrias, formerly of the Indiam Medical Servlee, died on pril 13th at Jenally, Pembrokeshire, aged to.
The undermentloned probationers for the Indlan Medical Service, having completed a course of Instruction at the Army Medical Schoul and belng re ported qualified, have beeu appoint ch Surgeons on the Jictigal Fstablishmem, their commissions as such bearing date October lat. 1887, the day of their johning the Army Mertical School:-i. E. Hogerts, D. M. Daginsos, F. P. Mar NARD, J. C. J.AMONT, A. II. NOT
NARD. J. C. J.AMONT, A. II. Nott, A. Coleman, W. W. White, I). J. Closs, M.1., J. M. MacNAMARA, M.1., and JI. MI. BRABAzon.

## THE YOLUNTEERS.

Tas undermentioned gentlemen have beell appointed Acting-Surgeons to the corna specitied :-C. L. Eraskin, 1st Berwick-on-Tweed Artillery; Aoting-Surgeon 11. K. Tait, from the 1st Noweastle and Durham Ingineers, to the 1 . In Hivision Simmarlne Miners Roval Enfineers; Enmund Vau
Volunteer Battalion Derbyshire ltegiment (late the Ist Derby).
 has resigned his commission, wh
to retain hils rank and uniform. Surgeon and Hon. Suricon-3iajor J. Wllliass, of the Ist Volunteer Thitallou
 South Wales Borderers (late the lat Brecknock), has also resigned, with permis-
sion to retain his rank and uniform; hls appointment was dated April $15 t h$. sion 1
1862.
1862. Aeting-Surgeon A. R. Wane is appointed Surgeon to the 2nd Rattaliot liampshire Ilegiment (late the 2nd Ifampshire): and SIr. W. J. Mabsfir appointeil Surgreon to the 2and Midellesex (Central London Rangers).

Surgeon E. T. Prion, of the 4 th Volunteer Battalion Norfolk Regiment late e tili Norfolk), has resigned hls commission, which was dated July 30 th,
H. J. Jomssox is appointed Surgeon to the London Division of the dinteer Medical Staff, and Mr. J. OLiver, M.B., Surgeon to the Leeds intsion.
B. F.-There is every reason to helieve that the effort at promotion in the family party at the headquarters of the Army Medical Department which was rumoured, and which is referred to by our correspondent, has been frustrated.

SPREADING THE NET FOR VOLUNTEER SUlRGEONS.
A Cavgit Bird," himself ensuared into the Medical Staff, expresses his surprise that any volunteer surgeons could be canght by such a naked pinch of salt as the Army Merlical Reserve Warrant seeks to place on their fails. He thluks they, in joining the so-called Reserve, incur obligations seareely realised, or they would pause. They will not be able to back out of these dhligations when puuced upon to do duty anywhere in a factitious "national emergeney.

THE QUALIFICATIONS OF VQLUNTEER MEDICAL OFFICERS. ancus asks: Can a practitioner holdint only the L.S.A.Lond. be appointed leting-surgeon of a volunteer regiment? If so, is it not time for the Voluneer Sedical Association to move "that volunteer surgeons should possess wo qualifieations," and have tlie same inserted in the Volunteer Medieal (1) Rerulations? I have looked through the Volunteer Regulations, but cannot ind nny reference as to the necessary medical qualitications. I ask this queslon as I know of a case wherein a practitioner having only the L.S.A.Lond,
his been nominated for this appointment, his name beigg sent to the War us been nominated for this appointr
Iffice for confirmation of appointment.
** A certilicate of proficiency is only granted to a voluuteer medical officer 'who is registered under the Medical Aet of 1858 as qualihed to practise nediciue and surgery in Great Britain and Ireland " (Army Form, E 564 ; Folunteer Regulation, 1887, Part I, see. ii, para. 144). Volunteer medical Aficers have been nppointed who have only one qualibication, and the certifisute of proticiency has been withheld hy the War Office in such cases. Oficers are now required to become proficient within one year of their ppointment.

## THE ARMY MEDICAL RESERVE.

Fraser Stokfs (Surgeon, the London Ritle Brigade) writes: As a volunteer nedical officer, I have read with interest your leadiag article upon this subect in the Journil of April $28 t h$. Since the issue of the Warrant I have wen hesitating about, joining, but at, present have not doue so, there being o mauy adverse opinious to the scheme. Doubtless, as your article states, volunteer medical offieers are quite prepared to make great personal saerices, together with voluuteers of all ranks, when real national danger unortunately comes abont, but it is entirely another mitter to ask them to ris? rivate professional ruia when the emergeuey may be not national at all." With this I entirely agree, but it seems to me that if the War Office wishes 0 see this Army Medical Reserve become a suecess, and be thoroughly well sken up, it should make the Warrant more adapted to the position and ceuprtion of the man whose services it is seeking to enlist. For instance, if : were to guarantee that volunteer nedieal ofticors should be placed in hiarge of troops only in those barracks situated in the immediate neighboururil of the towns in which they reside, ind at the same time to allow them 3 devote some part of the day to the supervision of their own private pracces, I believe the scheme would be warmly supported. As matters stand at resent it wonld appear, for example, that an officer resident in London is able to be ordered to Tortsmouth or Chatham, and kept there for an unable to be ordered to Portsmouth or Chatham, and kept there for an unmited period, during which time his private practice must be serinusiy ninged. Perhaps the War Office will see fit to so modify the Warrant as to sake it more alapted to the professional life of volinteer surgeons.
*** We fear the writer of the above hardly grasps the absolutely necessary nditions of a leserve which shall be other than a merely bogus one. In any national emergencs; " real or factitions, the military nuthorities wonle? very wo show they rare nothing for the private practice or personal convenience la reservist who is bound under penalties to fulfiln contract. He must go here ordered-the "London resilient" to Chathnm, or, for that matter, to regantle Fort or Tralce if requiret. If he repents nnd refuses at the last oment, we fouht not he wonld discover he was under the penalties of the olanteer and other enactments. Crude and unworkable as the Warmint is, could certainly not he made more impractieable by fumrantecing reservists ey should only have such duties as suited their private interest or conmence. If the writer is in any donbt on this subject, then, we say, do not In the Reserve.

## PLEA FOR IIONORARY RAN゙K

X Yanks writes: 1 think the famliarity with which medien! officers of Ig service ant hich position are treated by young military ofticers is very Hfing and humiliating. I have seen Senior Surgeons-Major, Brigade rgeons, ami administrative mediral officers of the highest position adcessed withont any prefix to the surname by oflicers young enough to be leir sons. In civil life sueh a thing rould not occur. Military officers reect military rank only, and treat 1r. Browne, the Surgeon-General, as they Dr. Browne, the Surgeon, not condescentiag to inquire what their respec-
re ranks may be. There is no itoubt that socially we have lost position sinco the nbolition of e regionental system. We are a large body of officers. brought in intimate atact with military officers, and dependent on them for all that constitutes dial life in the ariny. We have tho messes, and no means of making, as $n$ ly, any returo for hospitality. Naturally, regiments look down ou a body
onticers without any position, and we siok lower every day in the social
scale. This camot be denied; it is evidenced by the neglect of regiments to make us honorary members of thelr messes, and by the exclusion of menica fficers from rerimental entertainments. I do not say every regiment excludes ns, but the number of those that do is steadily increasing. We are growing more unpopular every day. There is a strange want of independence amongst us. Many an act of grave injustice has been done medical officers. for instance, sweeping us with one stroke out of our regiments, but a Dircetor-General resigniag his ebair, no matter how snubbed and insulted, has never been known. A short time ago the "aiguilette" was taken from honorary surgeons to the Viceroy; any other body of officers would have resigned the degraded position, but I have not heard that any one of those gentlemen has acted with becoming spirit and indcpendeace. a public insult to the Department should be publicly resented. The position of a medical staff officer is intolerable to men of geritlemanly feeling ; snubs, slights, and humiliations are daily served out to us with au unsparing hand. The remedy is obvious-honorary rank. There is a slawish respect for military titles in the army, and no matter who the persons are, they rise at once to weight and consideration when granted military tifles. I seed only point to paymasters and Commissariat officers. Can any ooe deny that their position in the army has been marvellously improved by honorary mank?
We are deeply indehted to you, Sir, for bghting our battles, but we are a namerous body, and, I think, should do something for ourselves. We should establish in London a Medleal Staff Defence Association, appoint a paid secretary; plenty of medical officers on retired pay suitable for the post. I shall be happy to subscribe liberally. The medical officers of the Indian Servica adopter this plab, and got their grfevances redressed. I do not see why we should not do the same. Onr position is bad, and will, unless we exert ourselves to improve it, hecome intolerable.

## MR. STANHOPE'S MEMORANDUM.

A SENIOR SURGEONMAJOR, writing from India, says the alterations in the terms of retirement foreshadowed in Mr. Stanhope's memorandum have produced positive const ernation among the Medical Staff serving in that country. ILe asks : Can it be possible that the British Government, hitherto disHe asks: Can it be possible that faith, would deliberately break its continguisbed for its ansolut is is surely impossible.

## MEDICO-LEGAL AND MEDICO-ETHICAL

PRESCRIBING CHEMISTS AND COMPOUNDING DOCTORS.
M. R. C. asks if it is competent for a L.K.Q.C.P.I. in face of the declaration. to superintend a medical hall publiely opened for sale of medicine and for compounding preseriptions; the hall to be the property of unqualified percompounding preseriptions; who would have in it a capable though unqualified hand to do all work. and merely superiutended by the L.K.Q.C.P.I.
*** We have referred this question to Mr. James R. Upton, Solicitor to the British Medical Association, who replies as follows: Whether L.K.Q.C.P.I.'s superintendence would constitute "covering" would entirely depend on the extent of the supervision he exercised. If complaint were to be made to the General Medical Council, the tests that would be applied to the facts laid before them would be (1) was the employment of the unqualified assistant in substitution for the services of L.K.Q.C.P.I., or under circumstances in which due personal supervision and control were not, or could not, be exercised by him? And (2) did L.K.Q.C.P.1. do any aet to enable the unqualified person to practise as if duly quabitied (see the Jourval for March 3lst last, at 1. 714)?

## A BONE-SETTER.

T. W. writes: I have heen attending n woman, aged to, sufferiug from fraeture of the neek of the femur. I put a long splint on, but was obliged to remove it on account of bedsore caused by ineontinence of urine. I was going to mould a leathern spliat for it when I was superseded by a bonesetter, whosaid it was out of joint, and the leg never had been broken. I have beell severely handed by many of my patients for my ignorance. Have 1 any redressat a court of law, and slould not our Branch take it up seeiug that it would benefit the profession?
** The only means of obtaining redress that we can suggest would be an action claiming damages for slander. Before attempting to bring such an netion, it is important to have elear proof of the exact words used. If they impute ignorance of his profession to $n$ medical man they would clearly be aefiomble, but the amount of damages awurted would degend on the view taken by the jury.

## CORONERS AND MEDICAL WITNESSES

Numo asks.: What diseretionary powers, if any, has the coroner iu regard to the colling in or not of the nedical man in attendance on the deceased before death?
** If the coroner previons to the inquest considers medical evidence at mu inguest is necesssry, he cur subpona a medieal mau to attend. Should, howcver, the inquest have been commenced nid no medieal evidence forthcoming, it is within the power of the curouer or the jury to adjourn for the attendance of a medical wituess. The jury bave also the power to eall additional medical evidence, and to name the medical man they desire to attend should they not feel satisfied with the medical evidence that may already have been given.

The Skinners' Company have given a domation of ten guineas to the Parkes Museum, Margaret Street, Regent Street, to aid in maintaining and extending its work of practically teaching the laws of health.

# PUBLIC HEALTH <br> POOR-LAW MEDICAL SERVICES. 

## ENGLISII URBAN MORTALITY IN THE FIRST QUARTER

 OF 1885.The vital nnd mortal statistics of the tmenty-eight towns dealt with by the Registrar-General in his weekly return are summarised in the accompanying table. During the three montha ending March Inst, 76,127 births were registered in the twenty-eight large towns, equal to an anmul rate of 32.5 per 1,000 of their aggregate population, estimated at nearly nine and a half millions of persons. In the corresponding periods of the three preceding years, 1885-7, the birth-rate in these towns was 35.3, 34.7, and 32.9 respectively. The birth-rate in London last quarter nas equal to 32.2 per 1,000 , while in the tweaty-seven provincial towns it averaged 32.8 , nnd ranged from 22.7 in Brighton, 26.5 in Iuddersfield, nud 28.3 in Bradford to 37.4 in Norwich, 37.7 in Newcastle-upon-Tyne, 39.5 in Ireston, and 43.9 in Cardiff.

The 51,659 deaths registered in the twenty-eight towns during the first three months of this year were equal to nn annual rate of 22.1 per 1,000 , against $22.7,24.4$, and 22.0 in the corresponding quarters of the three years 1885-7. In London the rate of mortality was 22.0 per 1,000 , while in the twenty-seven provincial towns it nveraged 2?.2 per 1,000. The lowest rates in these provincial towns were 18.0 in Bradford, 18.1 in IIull, 18.5 in Brighton, and 19.0 in Sunderland: the higlest were 27.1 in Preston, 28.8 in Plymouth, and 29.0 in Blackburn and in Manchester. During the quarter uader notice, 5,637 deaths were referred to the principal zymotic diseases in the twenty-eight towns, equal to an annual rate of 2.41 per 1,000 ; the zymotic death-rate in these towns in the first quarter of the five preceding years averaged 2.38 per 1,000 . The lowest zymotic rates in these towns last quarter were 0.75 in Halifax, 0.97 in Sunderland, 1.01 in Newcastle-upon-Tyne, and 1.04 in Brighton; while they ranged upwards in the other towns to 3.01 in Nottingham, 3.31 in Plymouth, 3.74 in Blackburn, nnd 5.39 in Sheffield. The 5,637 deaths referred to the principal zymotic diseases included 2,335 which resulted from whooping-cough, 858 from scarlet fever, 618: from measl cs* 8
from "fever" (including typhus, enteric, and simple nnd illdefined forms of eontinued fever), 439 from diphthtria, 39 from diarrhow, nnd 393 from small-pox. The 2,335 fatal cases of whooping-cough registered in the twenty-eight towns during the quarter under notice were equal to an annual rate of 1.00 per 1,000, and, with the exception of 1886 , when the rate was also 1.00, exceeded that recorded in the first quarter of nny yenr since 1882. This disease was proportionally much more prevalent in
London than in the nggregate of the provincial towns: for while London than in the nggregate of the provincial towns: for while
the whooping-congh death-rate in London was as high as 1.52 per 1,000 , it did not arerage more than 0.56 in the twenty-seven prorincial towns, among which it was highest in Norwich. Salford, Leicester, and Wolrerhampton. The 618 fatal cases of measles were equal to an anmual rate of 0.26 per 1,000 , a lower rate thas in any quarter of any year since 1878. The rate of mortality from this disease in London last quarter was 0.22 per 1,000 , while it averaged 0.30 in the twenty-seven provincial towns, among which it showed the highesh, proportional fatality in Bolton, Blackburn, Birmingham, Nottingham, and Plymouth. The death-rate from scarlet fever was equal to 0.37 per 1,000 , and exceeded that recorded in the March quarter of any year since 1834 : in London
the rate of mortality from this disease was equal to 0.39 per 1,000 , and slightly exceeded the mean rate in the prorincial towns, among which scarlet fever whs proportionally most fntal in Manchester, Sheffield, Birkenhead, Oldham, and Blackburn. Tho number of scarlet fever patients in the Metropolitan Asylums ILospitals, which had been 2,043 at the beginning of the year, steadily dechined to 1,087 at the end of March. The admissions into these hospitals, which had risen from 466 to 2,90 in the four quarters of 1887 , declined to 1,087 during the first three months of this year. The 535 deaths referred to different forms of "fever" in the twenty-eight towns last quarter were equal to an annual rate of 0.23 per 1,000 ; this rate was below the average of tha corresponding quarters of the five preceding years, although it exceeded that recorded in the first three months of any of the three prerious years. In London the fever death-rate was 0.23 per 1,000, and corresponded with the mean rate in the twenty-seven provincial towns, among which it was highest in Cardiff, Derby, and Nottinghnm. The rate of mortality from diphtheria was equal to 0.21 per 1,000 , and although showing $n$ slight decliue from the rate in the preceding quarter, was higher than in the

Public Health Statistics relating to Twenty-eight Large English Towns, for the First Quarter of 1888.

| Towns. |  |  |  | $\stackrel{\dot{y y}}{\underset{y}{y}}$ |  | Annual Rate per 1.000 Living. |  |  |  |  | $\begin{aligned} & \dot{8} \\ & \frac{0}{3} \\ & \text { By } \\ & \text { un } \end{aligned}$ |  | 运 | Whooping-cough. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 Towns |  |  |  | 8,398, 273 | -6, 197 | 51.4359 | 82.5 | 22.1 | 2.41 | 5,637 | 393 | 618 | 858 | 498 | 2,335 | 535 | 396 | 2.0 | 147 |
| 27 Provincial Towns | - . | . | 5,115,852 | 11,659 | 2<,235 | 32.8 | 22.2 | 2.68 | 2,685 | $3 \times 8$ | 380 | 413 | 185 | 718 | 295 | 245 | 3.0 | 150 |
| London | - | , | 4,292,921 | 31,314 | 23,421 | 32.2 | 22.0 | 2.79 | 2,982 | 4 | 238 | , 115 | 314 | 1.617 | 24.3 | 151 | 0.9 | 14.3 |
| Brichton | - . | , | 119,983 | 679 | 553 | 32.7 | 18.5 | 1.04 | 31 | - | - |  | 5 | 20 | 5 |  | 1.1 | 135 |
| Portsmouth | . . |  | 138,57\% | 1.231 | 803 | 35.5 | 23.1 | 1.04 | 38 | - | , | 5 | 3 | 20 | \% | 3 | 1.0 | 141 |
| Norwich | . | - | 83,675 | 873 | 580 | 37.1 | 23.6 | 2.10 | 49 | - | - | 8 | 8 | 25 | 6 | 2 | 1.8 | $1+3$ |
| Plymouth. | - . | - | 77, 17.4 | -813 | 55. | 31.7 | $2{ }^{2} .8$ | 3.31 | [61 | , | 55 | 1 | 2 | 1 | 2 | 3 | 1.6 | 198 |
| Rrintol | - . | - | 226,510 | 1,748 | 1.150 | 31.0 | 20.1 | 1.35 | 76 | 15 | 7 | 12 | 5 | 20 | 8 | 9 | 2.3 | 123 |
| Wolverhampton | - . | , | 81,891 | -6697 | 507 | 33.1 | 24.4 | 2.85 | 54 | 15 | 9 | 7 | 3 | 29 | 4 | 4 | 0.8 | 177 |
| Birmingham . | - . | - | 4.17.912 | 3.543 | 2,205 | 31.7 | 23).2 | 2.03 | 223 | - | 91 | 14 | 15 | 61 | 16 | 29 | 2.2 | 140 |
| Lelcester | - . | - | 1.16 .790 | 1.251 | 75.3 | 3.4 .2 | 20.13 | 2.05 | 15 | - | 9 | 1 | 12 | 49 | 13 | 1 | 1.9 | 118 |
| Notlingham | - | - | 230.921 | 1,801 | 1,230 | 31.3 | 21.1 | 3.01 | 173 | 9 | A1) | 7 | , 8 | 26 | 40 | 19 | 1.4 | 185 |
| leerby | - . | . | 1903.261 | 730 | ! 160 | 30.1 | 19.2 | 2.71 | 65 | - | 14 | 5 | 4 | 23 | 16 | 3 | 1.5 | 119 |
| Birkenhead | - . | - | 100,0443 | 777 | 514 | 81.2 | 20.2 | 1.883 | 47 | - | 5 | 19 | 2 | 9 | 4 | 8 | 1.0 | 151 |
| Llverpool | - . | - | 5994.738 | 4, 8.4 | 3.334 | 31.3 | 22.3 | 1.is | 236 | 1 | 9 | 53 | 24 | 89 | 40 | 20 | 5.5 | 149 |
| Bolton | - . | - | 113,506 | - 85.5 | 623 | 33.8 | 22.0 | 2.73 | 78 | - | 19 | 3 | 8 | 30 | 8 | 5 | 13.4 | 1.58 |
| Manchester | - . | . | 379.161 | 3.4043 | 2,737 | 37.1 | 23, 0 | 2.39 | 225 | 13 | 13 | 53 | 23 | 70 | 23 | 26 | 2.0 | 156 |
| Salford | - . | - | 226,336 | 1.852 | 1,253 | 33.4 | 22.2 | 2. 16 | 139 | - |  | 20 | T | 8 | 11 | 17 | 3.9 | 158 |
| Oldham | - . | . | 138.220 | 1.031 | 1. 783 | 31.1 | 22.1 | 2.32 | 80 | ${ }_{8}^{6}$ | 2 | 3. | 16 | 15 | ${ }^{2}$ | 5 | 3.1 | 118 |
| Blackburn | - | - | 119.039 | 1.018 | - 8880 | 35.3 | 29.0 | 3.71 | 111 | 8 | 20 | 11 | - | 17 | 11 | 1.4 | 3.3 | 2013 |
| Preston | - | - | 103,234 | 1,018 | 698 | 39.5 | 27.1 | 1.0 .1 | 50 | - | 1 | 11 | 8 | 12 | 7 3 | 11 | 3.4 3.5 | 178 119 |
| 1lallfarstal | - |  | 91,419 80,139 | ! $\begin{aligned} & \text { to. } \\ & 571\end{aligned}$ | 4318 | 24.5 28.7 | 19.1 20.8 | 1.32 0.75 | 30 | 2 | 1 | 12 | 1 | 16 | 2 | 1 | 3.5 | 119 |
| Bralford | - . | - | 20. 2.721 | 1,622 | 1.033 | ${ }^{2 \times} \times$ | 19.0 | 1.34 | 78 | - | 25 | $2!$ | 2 | 13 | 3 | 115 | 2.8 | 111 |
| Lands. | . | . | 351.210 | 2,913 | 1.810 | 33.3 | 21.0 | 1,36 | 119 | 13 | 5 | 19 | 8 | 14 | 13 | 10 | 1.1 | 123 |
| Sherfield | - | . | 321.711 | 2.84,9 | 1.921 | 32.5 | 21.0 | 5.39 | 432 | 318 | 1 | 4.1 | T | 29 | 15 | 17 | 5.5 | 168 |
| Tull | . . | - | 2092359 | 1,527 | 914 | 30.3 | 18.1 | 1.05 | 53 | 3 | , | 14 | 2 | 41 | 9 | 19 | 5.8 | 141 |
| Sunderland | - . | . | 131,919 | 1,144 | 624 | 34.8 | 19.0 | 0.97 | 32 | 1 | 1 | 1 | 6 | 16 | 3 | 1 | 2.1 | 114 |
| Cowcintleon Tyne | - . | - | 159.003 | 1,494 | 873 | 37.7 | 22.0 | 1.01 | 40 | - | , | 4 | 9 | 13 | 8 | 7 | 2.7 | 143 124 |
| Cardin . . | - . | . | 109.570 | 1.187 | 581 | 43.8 | 21.5 | 1.40 | 38 | - | 3 | 12 | 4 |  | 12 | 7 | 2.1 |  |

t quarter of any year on record; in London the death-rate m diphtheria was equal to 0.29 per 1,000 , while it did not. rage more than $0.1 \overline{1}$ in the provincial towns, among which this case showed the highest proportional fatality in Preston, IIud:sfield, Norwich, and Oldham. The rate of mortality from urrhoea was 0.17 per 1,000 , and was below the a verage. During $x$ first three months of this year, 393 deaths resulted from small$x$ in the $t$ wenty-eight towns; of these, no fewer than 318 curred in Sheffield (against 3,45 and 230 in the three preceding
arters), also ttingham 15 in Bristol, 13 in Manchester, 13 in Leeds, 9 in rall-pox were under treatment in the Jetropolitan. Asylums sepitals at the end of March, and 38 cases of this disease had en admitted during the quarter, against 7 and 30 in the two eceding quarters.
The rate of infant mortality in the twent $y$-eight towns, measured the proportion of deaths of children under one year of age to 300 registered births, was equal to 147 per 1,000 during the larter under notice, against 154 and 145 in the corresponding riods of the two preceding years, it a veragel I 50 in the twenty-
lity was 143 per 1,000 in Lond ren provincial towns, among which it ranged from 114 in Sunrland, 119 in Huddersfield, and 12.2 in Bristol, to 177 in Wolverumpton, 178 in I'reston, 199 in Plymouth, and 203 in Black burn. The causes of 1,054 , or 2.0 per cent of the deaths registered in twenty-eight towns during last quarter were not certified, ther by registered medical practitioners or by coroners. The oportion of uncertified deaths in London did not exceed 0.9 per nt., while it a araged 3.0 in the twenty-seren provincial towns, 1d ranged from 0.8 in Wolverhampton, and 1.0 in Birkenhead id in Portsmonth to 4.1 in Halifax, 5.5 in Sheffield and in Liverol, and 5.8 in Hull.

## medical officers of healtil and the local GOVERNMENT BILL.

spectal meeting of the Birmingham and Midland Branch of the rciety of Medical Officers of Health was recently held for the irpose of considering the Local Government Bill, presided over i Dr. A. Bostock llill, President, who said he thought the esent moment was favonrable for effecting the reform in the ,sition of medical officers of health which they had so long been ying out for. There were a great many medical officers of health igaged at salaries which made it absolutely impossible for them - do any sanitary work at all. There were a large number getting Haries of $£ 5$ and even $£ 3$ a year-a sum which did not pay a ofessional man eren for the time expended in collecting statises for his annual report. The payment of such a small salary, in ct, was practically an intimation from his employers that the ss sanitary work he did the better. A large number of the preint officers would become the officers of the district councils; but ader the new system, there would probably be an amalgamation the smaller areas, so that a salary could be paid which would aable a man really to do good sanitary work. Reference was ade to the recent meeting of the Society held in London.-Dr. age suggested that the impending change afforded an opportuity of effecting still larger reforms in the system of samitary adunistration. For instance, vaccination ought to be included in 10 work of the sanitary authorities. Small-por was as much a atter for the sanitary administration as other zymotic diseases. he Bill was a comprohensive and far-reaching measure, and those 'ere special reasons that the utmost care should be bestowed upon eo construction of its details. Putting aside the omission of the djustment of the shortcomings of our poor-law system, it was irprising how little, as the Chairman had noted, the Bill proposed , effect in the reconstruction and aljustment of our "tumbled p," piecemeal sanitary legislation, beyond renaming the local uthorities and the introduction of County Councils. The Bill jok no notice whatever of those sanitary requirements which ach competent authorities as Farr, Acland, Simon, Rumsey, and he Councils of the British Medical and Social Science Assaciations are declared essential to the satisfactory working of our sunitary rganisation. Her Majesty's Government had no excuse for ignorgig these essentials, since they were duly brought officially before bem as long ago as 186 , in the "Memorandum of state Medicine," he "Memorial of the Joint Councils of the British Medical and ocial Science Associations, appointed to consider the better adinistration of the laws relating to Registration, Medico-legal aquiries, and the improvement of the Public Health :" and in 1869
in the "Mlinutes of Evidence in the first Report of the Royal Sanitary Commission." No mere reuaming or grouping of the existing sanitary anthorities could be satisfactory. The conditions of sanitary science and progress in the large centres of population and comlined districts might be considered fairly satisfactory, but the very reverse held in the numerous small districts; there the hindrances to effective sanitary work and to the officials were greatest and most powerful. Ǎo doubt the former might be left as separate organisations or centres; hut adjoining small districts ought to be grouped around their largest town into a sanitary district or area with a definite minimum population (about 100,000 or 150,000 , this latter corresponding to the approximate Parliamentary divisional hasis), under the care of a properly qualified medical officer and his staff, who would each devote their whole time and energies to the work, with life tenure of office during " good conduct," and at adequate remuneration, these four were the long recognised essential defects of our legislation. There were two other points he would alludeto. From the experience of the 30 odd towns having compulsory notification of infectious disease, there was every reason that that important prorision should now be extended by the Bill (or a separate one to follow it) to the whole country, all the new authorities being compelled to forearm themselves with suitable hospital accommodation; lastly, there was the urgent necessity of the Education the antagonism between the practical working of the Education Acts and the Public Health laws in the matter of the
constant diffusion of loss to the elementary sectious diseases by schools. All pecuniary from infected louses oughools by the non-attendance of chidren would meet the most pressing and acknowledged defects of our present sanitary disorganisation.-Dr. A. Hitr. thought the object of the meeting should be limited to that taken by the Ietropolitan Society-namely, the desirability of the medical oflicers of health PaGE, their appointments direct irom the County Councils.-Dr. MGE, in accordance with the Chairman's suggestion, proposed.
"That this branch of the Society of Medical Officers of IIealth wishes to express the opinion that the election of medical officers of health should be in the hands of the County Council." - Dr. A. Hill seconded the motion.-Dr. Festos said that he agreed with the proposal so far as it affected the small rural appointments, but he thought that in boroughs of a moderate size matters might remain as they were. He had, during his time, proceeded against the Mayor and other members of the Town Council, but he had nothing to complain of in the way he had been treated.-Dr. Enderhill, while having no personal grieyance, supported the motion, and, with regard to the amalgamation of districts, said that they must sink their personal interests out of regard to the general interests of sanitation.-Mr. Hollingshesd said he could not vote for the motion. He had no reason to complain of want of support from
the authority of his district.-The PRESIDENT said that he was exactly in the same position as Mr. Hollingshead, being oficer to two local authorities. There were, howerer, some flagrant instances of medical officers of health of the highest ability losing their positions through haring incurred personal hostility in the discharge of theirduty.-Dr. A. Hrlu said if county medical officers were appointed, they conld only supervise the work of the districts. Local officers would still be required for the details of the works. The motion was carried.

## hospitals for infectious diseases,

Tur principle that the spread of infections dizease is to be controlled most effectually by the isolation of the first cases attacked has been so frequently exemplified, that of late years it has become more generally recognised and acted upon by sanitary authorities; but with some authorities exaggerated considerations of expense and false notions of economy have asserted themselves, and the warning that a comparatively small initial expenditure pretecting a locality from much sickness, misery and means of loss has too frequently been ignored. The Public Health Act, $18{ }^{5} \overline{5}^{5}$, leaves the matter entirely within the discretion of the local sanitary authorities, but the Medical Department of the Local Government boarl have, mith much success, availed themselves of every suitable opportunity of influencing local authorities in the right direction.

A further effort has just been made by the Central Department to bring the subject under the attention of those local authorities who have not provided their districts with hospital accommoda.
tion, by the issue of a short memorandum ${ }^{1}$ on the subject, signed by 1r. G. Buchanan, together with some carefully prepared plans of small hospitals. In that memorandum it is pointed out that too often the provision of isolation hospitals is put off until some infectious disease is immediately threatening or has actually inraded a district, and that it cannot be too clearly understood that such hospitals, to fulfil their proper purpose of sanitary defence, ought to be in readiness beforeliand, During the progress of an epidemic, it is of little avail to set about hospital construction. The mischief of allowing infection to spread from first cases will always hare been done, and this mischief cannot be repaired. Thus hospitals provided during an epidemic are mainly of advantage to particular patients; they hare little effect in staying the further spread of infection. Moreover, hospitals provided under such circumstances, to be of any use, must be large and costly, and their construction can seldom be of a kind that is suited in after times for the isulation requirements of their districts.
Large villages and groups of adjacent villages will, it is pointed out, commonly require the same sort of provision as towns. Where good roads and proper arrangementa for the conveyance of the sick have been prorided, the best arrangement for rillage populations is a small building accessible from several villages; otherwise the requisite accommodation for (say) four cases of infectious disease in a village may be got in a suitable four-room or six-room cottage at the disposal of the sanitary anthority; or by arrangement made beforehand with some trustworthy cottage holders, not haring children, that they should receive and nurse, on occasion, patients requiring such accommodation.
In towns hospital accommodation for infectious diseases is wanted more constantly, as well as in larger amount than in villages : and in town there is greater probability that room will be wanted at the same time for two or more infectious diseases which have to be treated separately. The permanent provision to be made in a town should consist of not less than four rooms in two separate pairs : each pair to receive the sufferers from one infectinus disease, men and women of course separately. The number of cases for which permanent provision should be made must depend upon warious considerations, among which the size and the growth of the town, the lodgment and habits of its population, and the traffie of the town with other places, are the most important. There is no fixed standard, therefore, by which the standing hospital requirements proper for a town can be measured. Furthermore, it is to be remembered that occasions will arise (as where infection is brought into several parts of a town at one time) when isolation provision, in excess of that commonly sufficient for the town, will become needful.

For a town, the hospital provision ought 'to consist of wards in one or more permanent buildings, with space enough for the erection of other wards, temporary or permanent. Considerations of ultimate economy make it wise to have permanent buildings sufficient for somewhat more than the average necessities of the place, sn that recourse to temporary extensions may less often be necessary. And in any case it is well to make the administrative offices somewhat in cxcess of the wants of the permanent wards; because thus, at little additional first cost, they will be ready to serve, when occasion comes, for the wants of temporary extension.
Some very useful plans, illustrating the sanitary requirements of small hospitals for infectious diseases, are arranged on sheets accompanying the memorandum. In all the plans proper standards of space are observed, namely, not less than 2,000 cubic feet of air space, 144 square feet of floor space, and 12 linear feet of wall space to each bed; means are provided for the adequate ventilation and warming of wards, and for securing them from closet emanations and the like. Places for washing and disinfection, and for a mortuary are indicated. An interval of 40 feet is everywhere interposed between every building used for the reception of infected persons or things and the boundary of the hospital site ; and this boundary, it is recommended, should have a close fence of sufficient height, and the 40 feet of interval should not afterwards he encroached on by any temporary building or other extension of the hospital.
In determining the locality where an infectious hospital should De placed, the wholesomeness of the site, the character of the approaches, together with the facilities for water-supply and for slop and refuse removal, are mattera of primary importance.
${ }^{1}$ To be purchase 1 , alther directly or through any hooknoller, from Eyre and Sonttiswoj le, Esst Hirding Street. Fleet. Street. F.C. © or Adam and Charles Black, B, North Brldge, Edínburgh; or Hodges, Figgib, and Co., 104. Grafton Streat. Duhlin Brldge, Edinburgh; or Hodges, Figkis, and Co., 104, Grafton

The memorandum does not fail to emphasise the caution which recent experience as to the spread of small-pox from hospitals has shown to be necessary. "Sites," it says, "for hospitals designed to receive small-pox require a very much larger space about them than sites for other infectious diseases hospitals. Small-pox hospitals, as we know them, are apt to disseminate small-pox, and their sites should, therefore, be placed outside of towns, and should, indeed, be sought at places as far distant from any populated neighbourhood as considerations of accessibility permit. it has been suggested that small-pox hospitals may be so constructed as not to be dangerous to neighbouring habitations; that this can be done by a system of passing through a furnace all outgoing air from infected wards and places: but this suggestion has not yet been carried into effect in England."
We commend the memorandum to the serious attention of all those sanitary authorities that hare' not provided their districts with the primary defence against epidemics which isolation hospitáls constitute.

PUBLIC HEALTH ADMINTSTRATION IN BRADFORD. A meeting of the medical practitioners of Bradford was held recently for the purpose of presenting an address to Dr. Hime on the approaching termination of his five years' engagement as medical officer for the borough. There was a large attendance. The address, whicl was elaborately illuminated on five pages, and handsomely bound in book form, with a suitable inscription, signed by eighty-six medical men, congratulated Dr. Hime on the good work which, in conjunction witt the sanitary authority, he had been able to accomplish during his fire years of office; on the
cordial rclations subsisting betreen himself and his medical cordial rclations subsisting betrreen himself and his medical
bretliren, which had enabled him to secure their actire co-operstion in carrying out the by-laws for the control of infectious diseases; on the greatly diminished death-rate, and the fact that Bradford now occupied a favourable position among the healthiest towns in England.

## Cholera in chill.

Accounts reach us of the fearful ravages of cholera, which has prevailed during the last three months in Chili. The Chilian Times of March 17th says: "Last week there occurred here 06 cases and 39 deaths, against 105 cases and 38 deaths in the previous returns. This brings up the total for the twelve wecks, ended last Saturday, according to the defective returns of the Board of Ilealth, to 3,338 eases and 1,357 deaths, which is nowhera near the mark. Dr. Gacitua estimates that from 4,500 to 5,000 persons have died in Valparaiso of cholera from the time of the appearance here of the disease on December 25th last until the 3rd instant. As the epidemic shows no signs of disappearance yet, a recrudescence of the disease having coincided with the introduction of fruit and chicha (grape cider), the probabilities are that the cholera will linger on until, as happened last year, it is temporarily placed in abeyance by the arrival of winter, by which time it may be taken for granted that Dr. Gacitua's highest estimate of rictims will have been reached, and perhaps exceeded."

Health of English Towns. - In the twenty-eight large English towns, including London, which have an estimated population of $0,398,273$ persons, 5,834 births and 3,367 deaths were registered during the week ending Saturday, May 5th. The annual rate of mortality, which had declined from 21.9 to 18.9 per 1,000 in the three preceding weeks, further fell to 18.7 during the week under notice. The rates in the several towns ranged from 12.7 in Portsmouth, 15.1 in Birkenhead, and 15.8 in Sunderland to 24.8 in Plymouth, 26.3 in Preston, 27.6 in Manchester, and 23.1 in Salford. In the twenty-seren provincial towns the mean death-rate was 19.8 per 1,000 , and exceeded by 2.3 the rate recorded in London, which was only 17.5 per 1,000 . The 3,367 deaths registered during the week under notice included 146 which were referred to whooping-cough, 45 to scarlet fever, 38 to diarrlhea, 32 to "fover" (principally enteric), 31 to diphtheria. 2.5 to measles, and 12 to small-pox; in all, 329 deaths resulted from these principal zymotic diseases, against 363 and 398 in the two preceding weeks. These 329 deaths were equal to an annual rate of 1.8 per 1,000 ; in London the zymotic death-rate was 2.1 per 1,000 , while it areraged 1.6 in the twenty-seren provincial towns, and ranged from 0.0 in Portsmouth and in Plymouth, and 0.4 in Sunderland to 2.8 in Sheffield and in Norwich. 3.5 in Blackburn, and 5.3 in Salford. Measles caused the highest
:oportional fatality in Bristol, I'reston, Bradford, and Nottingim; acarlet fever in Salford and Blackburn; whooping-cough in orwich, Manchester, London, Blackburn, and.Salford; and fever" in Manchester and Salford. Of the 31 deaths from iphtheria recorded during the week under notice in the $t$ went $\mathrm{y}^{-}$ ght towns, 15 occurred in London and 3 in Manchester. The fatal cases of small-pox included 8 in Sheffield, 2 in Bristol, in Oldham, and 1 in ILull. The number of small-pox patients in te Metropolitan Asylums Hospitals on Saturday, Mry 5th, was ; , of which 2 had been admitted during the week. These hostals also contained 920 scarlet ferer patients on the same ite, against 961 and 967 at the end of the two preceding weeks; ) cases were admitted during the week, against 91 and 79 in the vo previous weeks. The death-rate from diseases of the respirary organs in London was equal to 3.5 per 1,000 , and was conderably helow the average.

Health of Scorch Towns.-During the reek ending SaturIy, May 5 th, 888 births and 493 death were registered in the ght principal Scotch towns. The annual rate of mortality, hich had been 21.2 and 21.0 per 1,000 in the $t w o$ preceding eeks, further declined to 19.5 during the week under notice, at exceeded by 0.8 per 1,000 the mean rate during the same period the twenty-eight large English towns. Among these Scotch iwns the lowest rates were recorded in Perth and Dundee, ad the highest in Edinburgh and Glasgow. The 493 deaths these towns during the week under notice included 35 which ere referred to the principal zymotic diseases, equal to an annual ite of 1.4 per 1,000 , which was 0.4 below the mean zymotic zath-rate during the same period in the large English towns. he highest zymotic rates were recorded in Aberdeen and GlasJw. Eight fatal cases of diphtheria, 7 of whooping-cough, and 5 measles occurred in Glasgow; but no zymotic disease was tally prevalent in any of the other towns. The mortality from seases of the respiratory organs in these Scotch towns aring the week under notice was equal to 4.4 per 1,000 , against 5 in London.
the poweis of the registrar of deatis.
Y. Z. asks : Has a registrar of births and deaths power to give a picious circurnstances? My reason for asking is the following case, which has occurred this week.

A man called at the surgery to ask me to go at once to see his child. I was unable to do so, but offered to go as soon as I could. This offer the man would not accept (his honse is four miles from the surgery), and said if I could not go back with him I was not to go at all. I did not do so. Next day the child died. Speaking casually to the registrar, he informed me he had registered the death as due to inflammation of the bowels. The case had not been seen by any medical nmo, and it is customary here for the registrar to give certificates in cases similar to the abore, Wonld you kindly tell ma Whether lie has any legal power to do so?
** If the person giving information of a death to the registrar states that the deceased had no medical attendant of any kind during the last illness, and if, upon iuquiry, the registmr finds that the case is not one which he should report to the coroner (such as a death caused directly or indirectly by riolence, or attended by suspicious circumstances, or when the cause of deat $h$ is stated to be "unknown," or "suddea"), he must record the best iaformation respecting the canse of death which he is able to obtain from the ioformant, and may issue his "certificate of the registry of death" in the usual manner.

OOR LAW MFDICAL OFFICFHS' ASSOCYATION AND THE PUBLIC HEALTH IREVENTYON OF DISEASES BILL.
t a meeting of the Council of the Poor Law Medical Officens Assochation, held at their rooms, 3, Bolt Court, Fleet Street, May lat, it was coasidered that the time had now arrived when poor law medical ofticers could cooperate most effectually ln the proposed arrangement sought to be made by the medlcal officers of health. It was proposed to suggest to the centril authority that poor law medical officers should be stylcd "district health officers," and that their duties should include the acting as deputies to those appolated as health officers of countles or large districts.
The subject of the Public I Pealth Prevention of Diseases Bill came also umder conslderation, and Clause 3, Subsection 5, which makes a distluctlon In the consideration, and Clause 3 , Subsection 5 , which makes a distiuction in the
amount of fecs payable under differeat circumstances, was thought to be very amount of fecs payable under different circumstances, was tiought to be very Councll requested Mr. Barnes to communicate its views upon this subject to Dr. Farquharsou, M.P..
In reference to the Lord Chancellor's Coroners Bill, the Council resolved that it is not just towards the medical profession, and will, in many cases, be a hardship on the poor law medical service, if the appolutment of coroners, as proposed by the Bill, becomes vested in the Lord Chancellor; and the Councll urgeatly requests all members of the medical profession to oppose in every ponslble way that clause of the Blll which confers this power on the Lord Chancellor.

## UNIVERSITY INTELLIGENCE.

CAMBRIDGE.
Assistant to the Professor of Surgery.-It is proposed to appoint an Assistant to the Professor of Surgery; whose duty it shall be to aid in the surgical teaching, and to add to and maintain the surgical collections in the museum. The thanks of the University are offered to Professor Humphry for his generous proposal to provide, out of his own pocket, a suitable stipend for the assistant. Mr. Joseph Griffiths, M.B., is at present doing the work of the new office.

Hosorary Degref.-It is also proposed to confer the degree of M.A., honoris causâ, on Dr. Siegfried Ruhemann, who, for the last two or three years lias acted as assistant to Professor Dewar, and has rery successfully conducted the teaching of organic cliemistry in the University laboratory.
Cambridge and London.-The interest taken by London hospital schools in students from the Universities is evidenced by the announcement just made that Charing Cross will offer a scholarship of $£ 50$ for competition among Cambridge men who have passed the second M.B., and Oxford men who hare passed the first M.B. examination.

## OXFORD.

Examinations in Medicine axd Surgerx.-1. The Regius Professor of Medicine gives notice that the examination in the several parts of the first examination for the degree of Bachelor in Medicine, will commence on or about Monday, Juve 25 th. The final examination for the degree of Bachelor of Medicive, will commence on or about May 28 th, and that for the degree of Master in Surgery on June 7th. The precise days will shortly be notified. Intending
 $\begin{array}{ll}\text { candidates are requested to forward heir names } \\ \text { Medicine, medical department of the museum. } & \text {. The Secretary of the Boards }\end{array}$ of Facultiea gives notice that he will be io attendanceat his oftice in the Clarendon Building, on Friday, May IIth, aad Saturday, May 12 thi, from 9 to 10 1.34., for the purpose of receiving names of candidates for the second examination for the degree of M.B.; and on Friday, June 8th, and Saturday, June 9 th, from 9 to IO A.M., for the purpose of receiving names of candidates for the first examivation for the degree of M.B. Names may be sent to him by letter at any time not later than the above-mentioned days.

## MEDICO-PARLIAMENTARY,

## HOUSE OF LORDS.-Tuesday, May Sth.

The Lunacy Laws. The Earl of Milltown asked whether it was the intention of the Government to forward and pass into law this session the important Bill for the amendment of the Lunacy Laws, which, having already passed that House on three previous occasions, was sent down to another place on March 2end this year.-The Earl of Selborne also expressed the hope that the Bill might not be longer delayed in the other House. - The Lord Chancerlor said it was difficult to answer the question, hecause he could not answer for the progress of business in the other House. He agreed that this was a topic quite removed from party politics, and although there was not perfect unanimity, yet he thought they might hope soon to settle it one way or the other.

## HOUSE OF COMMONS-Tuesday, May Sth.

Foreign Medical Practitioners.-Mr. C. Wrioht asked the VicePresident of the Committee of Council on Education whether the Medical Acts Amendment Bill which passed in 1886, and provided for registering duly-qualified foreign medical practitioners, was now in operation, and whether the requisite forms would be supplied to those practitioners to fill up for registration; and whether he could name the countries that were eligible to claim registration for their medical practitioners.-Sir W. Hart Dike said the second part of the Act had only been applied to New Zealand and Ceylon. In regard to registration of foreign medical practitioners, Sections 11, 12, and 13 of the Act prescribed the exact course to be adopted.

Hospital Accommodation on Transatlantic Steamers. - Sir Michael Itcks-Beach, in reply to a question by Dr. Tanner as to whether the hospital accommodation on board Transatlantic stcamers was not frequently ntilised for the accommodation of passengers, officers, or crew, said he was assured by the companies that such was not the case. Jo such hospital bertha could be allocated to other than sick persona, unless on the express sanction of the medical officer of the ship.-Dr. TANNRR asked whether
it was not a well-known fact, from all the reports furnished by the emigration officers at Liverpool and Queenstown, that such hospital accommodation whis frequently utilised by both passengers and crew.-Sir M. HICes-13each said he was not aware of it.

BIFGII POLICE AND HEALTH (SCOTLAND) BHLL,
On the motion of the LoRD Anvocate, it wats agreed that the Select Committee on the Burgh Police anillifath (Sentlanat) Bill do consist of twent y-five nemberss Mr. Anstruther, Mr. Asher, Mr, Baind, Sir G. Balfour, Mr. Barbour. Mr. Barchavi Mr. Hotton, Mr. Yreston Bruce, Mr, Caldwell, Mr..Macdonald Cameron, Sir, A. Canplell, Mr. R. F. Campbell, Dr. Clark, Mr: CochaneMallfe, Mr. I). Crawford, Lort Wicho, Mr. lisslemont, Mr. Hozler, the Lord
 Mr. Webster, nal Mr. Williamson, with power to semd for persons, papers, and recorls : tive ta be the quorum,

## THE HOHSE TAX.

Ampitional petitions against this tax have been presented by Mr. HanburyTracy, from the medical practitioners of Welshpool and distriet ; by Sir W Foster, from Northern Counties (Scotland) Branch of the British Medical Association: hy Lord Bective, frou a Westnorelad Dalesman doetor; by Mr. S. Leighton. from medical men of Oswestry ; by Mr. T. W. Legh, from medical oficers ln Wigans district ; by Viscount Ebrington, from sargeons of Hatherlefghand Black Torrington ; by Sir Wilfrid Lawson, from the nedical men of Marypart; by the Marquis of Martington, fromi Drs. T. Evans and J. Jones, of New Quar; and by Mr. At E. Gathorne-Hardy, from medical men in Hayward's Heath and district.

## OBITUARY,

MARK LONG, M.D., of Ludlow, Shropshire.
We regret to announce the death of Dr. Mark Long, which occurred on April 2sth, in one of the paying wards of Guy's Hospital, at the comparatively early age of 44 . The subject of this notice was the eldest son. of the late Mr. John Long, engineer of the Limerick Harbour Board. Dr. Long was educated at the Queen's College, Cork, and the Ledwich School of Merlicine, Dublin, taking the M.D. of the Queen's Unirersity in 1865, and the L.R.C.S.I. the same sear. He soon after proceeded to England, and was for ten years in practice in Hackney, in partnership with Drs. Daly and Gibbings. Owing to the delicate health of some members of his family he subsequently remored to Ladiow, where he soon acquired a large and good class practice. The deceased gentleman had a happy way of winning in a remarkable degree the confidence of his patients, and had a genial and pleasant manner. In the zenith of his success, in the autimn of last year, he developed sbscure symptoms of disease of the bladder and kidneys, for which he came to London and consulted Mr. Jonathan Hutchinson. The symptoms becoming more acute, he was visited in February of this year by Mr. Clement Lucas, who advised his caming into one of the private wards of Guy's. Ilospital. Nine weeks ago Mr. Lucas cut down upon the right kidney, letting out eight ounces of fretid pus. The operation was most successful, and a rapil improvement was manifested in lis condition, but subsequently grave uremic- symptoms occurred, terminating in convulsions and comar. A post-mortem examination justified the operation, the cavity in the kidney having contracted to a third of its dimensions at the time of the operation; the left kidney was quite healthy, but the left nreter was enormously distended, owing to the pressure of a periprostatic abscess. Dr. Long leaves n widow, the datughter of Mr. James Cooper, of Cromer, and four children, two sons and two daughters.

## PFTER I,EOENARD, M.D., Inspector-feneral of Hospitals and Plpets.

Dr. Letph Leonart died at. Arbroath on May End. The deceased gentleman was born at St. Vigenns, Arhronth, in 1sml, and clucated at Arbroath Academy! Decame a licentinte of the Roval College of Surgens, Fulinbugh, in 18:2; M.D. of St. Andrews in 1851; and M.R.C.l':Lmmon in las!' ille enterell the navy vary early in life. and gerved in every riaval feation of the bribish Fmplire. exceppt that of the Weat Indius: In PN3 Me phblished: Records of a Joyage to the Hestern Const of Africa and of the Sereice on that Station for the Suppression of the Slave Frate, Ilis alpo wrote a
 Was awatden Sir fi'. Blaine's gold medal. 'Hr: Dennaril was the first Inspector-fefferal: appointed uhrlut the Contugions Disenses Act, and he orgariised the administration of the Act, THe was for many rears Deghiey Instuctor-fieneraf at Chatham, find aftermards at Haslar, und he redeired the Greanwidh II oupital pension' for godod


PETER ADRLAY VAN DER LAAN, M.D., Lisbon.
Dr. Yan der Laas, the leading ophthalmologist of Portuga. died at his residence in Lisbon on April $20 t h$. He was born a Spanbroek, in Holland, in 1841, and educated at the L'nirersity 0 Utrecht, where he took the degree of Doctor of Medicine, th subject of his inaugural dissertation being the disturbances vision associnted with albuminuria. He afterwards studied Berlin, Loudon, and Viemma, giving his attention chiefly to oph thalmology, under such masters as ron Graefe, Liebreich, and Arit Being threatened with consumption, he started for Madcirs towards the end of 1870 , but broke his journey at Lisbon, wher he remained for the rest of his life. Wishing to practiso his pro fession in his adopted country, he with rare energy went throngt
the required course of study in the Lisbon Medical School, and the required course of study in the Lisbon Medical School, and
successfully passed all the numerous examinations for the degree He soon acquired a great reputation as an oculist throughout Portugal; during his career he is said to have treated no fewer than it,000 patients. Hle was an indefatignble worker, and employed the rare intervals of leisure which lis professional engage ments allowed him in contributing to medical literature. He died of the disease which had in the first instance driven him southwards, studying up to the very last momeut. As the Correio Medico says, he died with a medical treatise in lis hand on a subject altogether unconnected with the affection from which he was himself suffering.
The Correio Medico goes so far as to say that Tan der Laan introduced ophthalmology into' PortugaI, where the pathology and treatment of diseases of the eye were almost unknown before 1870. In addition to his professional attainmente, Dr. Tan der Laan Was a deeply-read theologian, a sound classical ccholar, and could converse fluently in English, German, and French, besides Portuguese and his native Dutch.

## MEDICAL NEWS

Royal College of Surgeons of England.-The following gentlemen haring undergone the necessary examinations for the diploma were, at an ordinary meeting of the Council on May 10th, admitted Members of the College.
H. P. Ainsworth. L.R.C.P.Lond., 26, Norland Square, W. : J. L. Aymarri,



 L.R.C.P.Lond. 2 2. Joseplinue Avenue, Brixton Road. S.E.;
 N. Wales ; W. C. Swayne L.i.c.P.Lond., 2 . New Street. S.E. Disulents of Gur's Hospital; J. W. Applegate, Li.h.C.P.Lond.. ie. Tuifent Park Road J. E. A. Apletun. L. R.C.P.L.Lond.. The Lizant. Cornwall; c. It, Aothforil. L.R.C.P.L.Lonl., B, Alfreit Place Mlymouth; A. M. Barforit, L.i.i.C.P. Loud, Wokinglam, Berks, D. T. Belding, L. 1h.C.P.L.Lond., East Dlereham, Norfolk; Robert Rird. L.R.C.P.i.tond., Writitestey Roand, Plumberend:
 L.R.C.P.Lond., 11, Percy Circus, W.C.; P. G: Gilmour. L. Ri.O.,PL.Lond
 I.R.C.P.J. ond.. 2\& Sutherlani Gardens , What Hall. Kent ; A. W\%. L. Jones,

 Finsbury Park; F. O. Kinenly. L. 1.e.P. L. Lond., St, Bartholomen's, Ho: pital: W. O. Steint hal, L.s.A. Fi. Torrington square, W.C. H . 1 : Whitehead, L.R.C.P.Lond., 310, Essex Road, X.: il. Wihliams. 1. Y.C. .1.
 Templemonlk. Twickenham of St. Hartholoniew's Hospital; T. it inten,












 Helsham, L.R.C.P. Iond.. 13, Barton Street, Westminster: O. W. L.ockerer,


 Contage, Esher, of st. Thomas
 Wales : C.J. Stanley, L.il.C.P.Lond., The Lidowle, Streatham, of king s

College ; J. C. Barr, L.R.C.P.Lond., 1, Cranmore, Aldershot ; F. A. Brooks, L.R.C.P.Lond., 6, Percy Roarl. Shepherd's Bushr i N. C. Ridley, L.R.C.P. Lond., Bratoft Rectory, Burgh, Liucolnshire; and W. S. Sharpe, L.R.C.P. Lond., Bratoft Nectory, Spilsisy, of St. Mary's Hospltal: R. A. Beaver, L.S.A., Waterloo, Liserpool ; E. A. 'T. Steele, L.R.C.P.Loud. .2. Queeu's Terrace, Seacombe, of Liverpool tofirmary; B. R. Sawhuy, L.R.C.P.Loud., 12. Ladbroke Grove, W., of Lahore College, India; L. Beckett, L.R.C.P.: Lond.; L. U. IN. Calthorp, L.R.C.P'Lonrl., The Cheal, Jornsey Lane, N.: B. Clark, L.M.O.Y.Lond., Coldharbwur Lane, Brixton; O. Collier, L.R.C.P. Lond., St. Aubyons, Tiverton ; I. Corner, L.R.C.F.Lond., Manor Honse, Poplar ; J. J. Coulton, L.R.C.T.Lond., A7, Bromler Street, H.; W. S. Fenwick, L.R.C.P.Lond., 24, Iarley Street, W.; T. J. Mead, L.R.C. M. Lond., 23, Queeus Dowll Road, Clapton; K. Jones, L. Drayton Road, LeytonMontgomerrshire; F. J. Oxley, L.R.C.P.Lond. Draytoa koad, Stratford
stone :T. W. Hobius, L.R.C.Y.Lond., 41, Etehingham Hoad, atone : T. W. Robbius, L.R.C.P.Lond., ${ }^{\text {A1 }}$, i). Best, L.S.A., Lime House, New Town, of the L.ondon Hospital; N..D. Best, L.S.A., Lime House, Walsall, Staffordshire, of Birmingham; E. F. Bour, L.R.C.P.Lond., Lni-
versity College ; W. Woyce, L.K.C.P.Lond., Willougby Road, Iampstead; H. N. Oappe, L.R.C.P.Lond., J, Dean Road, Willesden Park; C. S. Dowdell, L.R.C.P.Loud., 25, Mutland Street, N.W.; J. P. Parkinson, L.R.U.PLond., 21, Richmond Terrace, Blackbura; WY. B. Ransom, L.R.C.P.Lond., The Pavement, Notts.; C. E. Seal, 'L.R.C.P.Lond., 95', Albert Street, Regent's Park; C. II. Stevens, L. R.C.P.Lood., 21, St. Rdmund's Termae, N.W.i C. H. Clayton, L.J.C.P.Lond.,. M, F.P.Lax South Hampstead, of University College; G. Braide, L.R.C.F.Lond., ManPoplars, Warringtou; H. Wade, L.R.C.P.Londe, 5, Xork Place, Manchester; W. K. Walls, L.R.C.P.Lond., 46, Swan Street, Manchester; J. P. Williams, L.M.C.P.Lond., Broombeld, Swinton, Manchester; W. B. Yates, L.I.C.P.Lond., 14, Palatine Street, Manchester, of Manchester; R. S. Charsley, L.R.C. P.Lond. 5, Cowley Street, S.W.; G. C. Cory, L.S.A., 17, Sudeley, Street, Brighton; H. S. Fremlin, L.R.C.P.Lono., 1, Margaret Street, Woit JIospital: J. K . Couch, L.R.C. P.Lond., Ramsgate, of Swansea; Mi P. Cooke, L.S.A., Fern House, Landkey, Barnstaple; C. W. Edwards, L.R.C.P.Lond., Mill Hill, Hendon ; H. U. Fox, L.S.A., 14, Alfred Place, W.C.; J. A. Hudson, L.R.C.P.Lond., 75, Charlotte Sireet, W.C. i W. B. Nelsou, L.R.C.P.Lond. ${ }^{1}$, Shrewsbury Road, W.; A. Primrose, M.B., C.Dt.Ed., The College, Middlesex Hospital, of Midellesex Hospital : F. H. Gibboa, M.B.Durh., l, Laygate Terrace, South Shields; E. R. LYth, M.B.Durb., 39, Brooke Road, N., of New-castle-on-Tyne; H. IIill, L.R.C.P.Lond, 8t, Coronation Troad, Bristol; C, T. Hudson, L.R.C.P.Lond., 6, Royal York Crescent, Clifton, and E. Ward, L.R.C.P.Lond., 7 , York Place, Clifton, of Bristol.

## MEDICAL VACANCIES.

The following Vacancies are announced:
OOMSBURX DISPENSARY. - Physician! Applications by. May Joth to the Secretary.
IGHTON, HOVE, AND PRESTON DISPENSARY. - House-Surgeon. Salary; £140, with apartments, etc. Applications by June 2ud to the Assistaot Secretary.
ISTOL ROYAL INEIRMARY.-ITouse-Physician. Salary, £loo a year, with board, washing, aud apartments. Applications by May 19th to the Secretary:
IELSEA, RROMPTON, AND BELGRAVE DISPENSARY, Sloane Square. -Surgeon. Applicatious by May 17 Lh
ST LONDON ILOSPITAL FOR CHILDREN, Shadwell, E.-Assistant Surgeon. Applications by May 23 rd to the Secretary.
ST LONDON HOSPITAL FOR CHILDREN, Shadwell, F.-Surgeon. Applications by Mayp3rd to the Secretary.
PDDON HOSPITAL FOR F゚ISTULA, ETC., Vauxhall Bridge Road. Assistant Surgeon. Applications by May 2 bth to the Secretary.
ILIFAX INFIRMLARY AND DISPENSAIFI:-Senior House-Surgeon. Salary, $£ 80$ per annum, with board and residence. Applicatious by May $22 n d$ to $\mathbf{D r}$. F. West Symes, IIope ILall, Halitax.
SPITAL FOL DISEASES OF TUE THROAT, Golden Square,-Resident Medical Officer. Salary, £50 per annum, with hoard and lodging. Applications by May 2oth to the Ionorary Secretary.
OSPITAL FOR EPILEPSY AND PARALISIS, 32, Portland Terrace, Regent'a Park.-Assistant Physician and liegistrar. Applications by May Regent' Fark.-Assistant Physician and
WESTOFT I'RIENDLI SOCIETIES MEDTCAL INSTITUTION. Surgeon.' Salary, £160 per aunum, with cxtra fees. Applications by May 21st geon. Salary, Mr . IIaumond, 4 , Ihaglan Street, Lowestoft.
ETROPOLITAN HOSPITAL Kingsland lhoad.-Afsistant House-Surgeon. Salary, £40 per ancum, with hoard and resideuct. Applications by May 2lst to the Secretary.
DTIONAL LYING-IN IIOSIPITAT, Ifolles Street, Dublin.-Two Assistants to the Master. Applications to Dr. Hoe, 13, Lower Jitzwilliam Street, or at the Hospital.
ORTII STAFFORDSIIRE INFIRMARI.-IIousc Physichn. Salary floo, with board, washing, and apartments. Applications loy May 23 rd to the Secretary.
Nixis COLLEGE, Maacbester.-Professor of Surgery. Applications ly- June 9th to the liegistrar.
UlISII OF BARNFT, ETC.-Melical Officer of IHealth. Salary, Clt3 per annum. Applications by May 14th to IK. M. Turoer. Esq., 66, Jigh street, Watford.
URtSH OF LOCLIS, Stornoways-Medical Officer. Salary, £l:s0 per annum, with free house. Applications by May 16 th to Mr . H. M. L. Ross, Inspector of Poor, Lochs and Barras.
)YAL FREK 11 OSPITAL, Gray's Inn Roud.-Assistant Phyaician. Applicathoos by May loth to the Secretary.
JYt FREE HOSPITAL, Gray's Inn load.-Assistant Sorgeon. Applicathons by May 16 th to the secretary,

ROYAL HOSPITAL FOR DISEASES OF THE CHEST, City Road, Jonlor House-Physician. Salary, 250 per annom, with board and lodging. Applications by May 19th to the Secretary.
SMALL-POX IIOSPJTAL, Birmingham.-Resident Medical Saperintendent. Salary, fliw per annum, with board, etc. Applications by May 25 th to the Chairman, Ilealth Committee, Council Honse, Birmingham.
VICTORIA IIOSIITAL FOR CHILDREN, Chelsea.-House-Physician. IIonnrarinm of fio, with board and ledging. Applications by June 2nd to the Secretary:
WCTORIA HOSPITAL FOR CHILDREN, Chelsea. House-Surgeon. Homorarium of £50, with board and lodging. Applications by June 2ad to the Secretary.
WEST LONDON HOSPITAL, Hammersmith Road, W.-Assistant Surgeon. Applications by Nay 2 th to the Secretary.

## MEDICAL APPONNTMENTS.

Blveros, J. F., M.B.Durh., M.R.C.S., appointed Obstetric and Ophthalaic House-Surgeon at the Queen's Hospital, Birmingham, vice IR. J. Riley, M.R.C.S.

Bryden, F. W. A., M.R.C.S., L.S.A., appointed Assistant House-Surgeon to the Rotherham Hospital.
Curf, Robert, M.B.Loud. M,R.C.S.Eng., appointed Honorary Surgeon to Scarborough Hospital and Dispensary.
De Reazi, Arthut C. M.R.C.S., L.S.A., late of the New Zealand Shipping Company's R. M. S. Rimutaka, appointed Resident Surgeon to the Christchurch Hospital, New Zealand.
Hall, W. W., M.B., C.M., appointed Registrar and Chlonoformist to the London Temperance Hospital, vice T. F. Pearse, M.D., resigned.
Hewitt, R. J., L.R.C.S.I., etc., appoiated. Medical Officer to the Ballingarty Dispensary, vice M. Fennelly, L. F.C.S.I., resigned.
Hill, J. de Vere, appoloted Sanitary Survegor (Board of Trade) for the port of Liverpool.
Hill, E. B., M.R.C.S., appointed Assistant House-Surgeon to the Birmingham General' Hospital, vice E. Antrobus, M.R.C.S., resigned.
Meler, C. B., L.R.C.P., M.R.C.S., L.S.A., appointed Medical Officer of Healti for the Boruugh of Cowbridge, and Medical Officer, Public Facelnator, and Medical Officer of Health for the Cowbridge District of the Bridgend Cnion.
Nasos, E. N., M.B., M.R.C.S., appointed Fesident Surgical Officer to the Birmingham General Hospital, vice John Elliott, M.B., resigned.
Nicolson, R. H., appointed Assistant Medical Officer to the Warwick County Lunatic Asylum, vice G. P. Torney, Li.R.C.S.I., ete., resigned.
OTEx, A. D., M.R.C.S., L.S.A.Lond., :appointed Medical' Officer to the Halwell District of Totmes Union; vice J. T. Cape, M.R.C.S.Eng., deceased:
Prowse, A. B., M.D.Lond., F.R.C.S.Eog., appointed Lecturer on Maseria Medica and Therapeutics at the Bristol Medical Schoot.
Sasctuary, T., M.D., L.R.C.P., etc., appointed Assistant Medical Officer to the London Skin Hospital, W.C.
SHaw, W. R., M.D., C.M.Toronto, L.R.C.P.Loud., appointed Resident Cliaical Assistant to the Oity of Londoa Hospital for Diseases of the Chest.
Tonser, G. P., L.K.Q.C.P.I., L.R.C.S.I., appointed Assistaut Medical Officer. to the Lincolnshire Conaty Asylum, vice J. W: Marsh, M.R.C.S., resigned.
Wilitams, P. W., M.B., appointed Honorary Assistant-Physician to the Bristol hoyal Intirmary, vice A. B. Prowse, N.D.
Post-Graddate Course in Liverpool.-It is proposed to give at the Victoria University, during the summer session, a post-graduate course of lectures and demonstrations, commencing on Mas I6th. The fee for the course is two guinens, Among the lecturers and subjects announced are the following: Mr. Reginald Harrison ${ }_{1}$ on Affections of the Bladder and Urethra, including demonstrations with the Electric Endoscope; Dr. Glynn: Some Points in. the Iathology and Treatment of Infective Diseases of the Hesrt: Dr. Carter: On the Practical Examination of the Urine (demonstrations): Dr. Davidson: On the Medical Selection of Lives for Assurance, and on recent Improvements in the Loeal Treatment of Skin Diseases; Mr. Edgar Browne: Diseases and Defects of the Eye in Childhood: Dr. Ross: On the Anatomy of the Spinal Cord and the Localisation of Spinal Lesions; Mr. Royston: On the Teeth; Mr. Mitcliell Banks: On the Anatomy of the Drain in relation to Cerebral Surgery: Dr. Wallace: On Abnormal Tumonrs; Mr. Patal: Demonstration of a Post-mortem Examination made for Medicolegal Purposes, and Ready Methods for the Detection of Common Poisons: Mr. Rushton Parker: Recoguition and Treatment of Injuries to the Lpper and Lower Limbs; Dr. Caton: On Ptomaines and Leucomaines: Dr. Barron: On l'athogenic Micro-organisms. It is intended that, if possible, June Gth, 20th, and July 1lth, shall be devoted to demonstrations of the Different Forms of Insanity in a Lunatic Asylum.

IIUxGarias Medical Works. - The Society for the Publication of Hungarian Medical Works last year completed the twentyfourth year of its existence. During that time 55 large and 7 small medical works have been publisleet in the Hungarian language, at an arerage yearly cost of 6,750 florins. Three hundred members have already signified their intention to join the Society:

Censtire of a l'olice Surgeon by a Jury.-Rather too much hlame seems to have been attributed by a Deptford coroner's jury to a young surgeon acting for the divisional police surgeon, who, ou being called to the police station-which was full of men waiting to be paid, and therefore greatly crowded-failed to detect that a prisoner, who liad perforce been placed in a passage outside the cells, was suffering from paralysis in addition to drink. According to the newspaper report, the senior medical officer of Greenwich Workhonse Infirmary, who made the postmortem examination, attributed death to syncope, caused by taking too much beer, combined with the existence of a fatty heart. It is quite possible that the paraplegia, which the young surgeon alluded to promptly diagnosed on a second visit, had come on subsequently to the first examination.

Treatment of Afercurial. Stomatitis. - In the Rivista Clinica e Terapeutica for February, Dr. E. de Renzi, of Naples, states that he has treated several cases of mercurial stomatitis with corrosive sublimate with satisfactory results. He was induced to try this plan by the consideration that a powerful antiseptic was indicated in a disease characterised by well-marked putrefactive processes. The remedy was prescribed as a mouthwash, a solution of 25 centigrammes of corrosive sublimate in 1,000 grammes of water being used in that manner in the course of two days. On the first day the foul smell of the breath was removed, and within three days the redness and swelling of the mouth had much diminished. On the fifth day, as a rule, the patient was completely cured.

Medicine in Portegal.-The Correio Medico de Lisboa of May 1st states that twelve students will present themselves for their final examination in the Medico-Chirurgical School of Lisbon in July next. The following are among the subjects which the candidates have chosen for their theses; they are of some interest as showing that Portugal is alive to the latest developments of medical science: Radical Cure of Hernia; new methods of Diagnosing Carcinoma of the Stomach: Pathogeny of Tetanns; new Treatment of Chronic Metritis and Fibroid Tumours of the Uterus by Electricity; Uses of Antipyrin; Hypnotism and Suggestion; Massage in the Treatment of Fractures; Anomalous Forms of Typhoid.

Darenth Ifospitais.-The Local Government Board have authorised the Managers of the Metropalitan Asylums Board to erect at Darenth a hospital for conralescing small-pox patients, at a cost not exceeding $£ 63,392$; and also to cause the Darenth camp buildings used in the last small-pox epidemic to be adapted to to infirmary purposes, at a cost not exceeding $£ 2,750$. It was resolved to apply to the Metropolitan Board of Works for a loan of $£ 50,000$ for the erection of the hospital.

Ambulance 1nstruction for the Police.-Mr. John Furley, Deputy Chairman of the St. John Ambulance Association, presented 104 certificates last week to members of the Metropolitan Police Force, who had shown themsel yes proficient in the principles and practice of "first aid." The Chicf Surgeon of the Force, Mr. A. O. Mckellar, spoke in warm terms of the numerous cases of valuable "first aid" rendered by police officers brought to his notice,

William Menry Burke, M.R.C.S., of Monk Bretton, near Barnsley, who, on February 9th, discharged a revolver at his daughter, aged nine years, in a public-house where be had been drinking beavily during the day, was charged with the murder at the Leeds Assizes, found guilty, and sentenced to death.

On June 12 th the University of Bologna will celebrate the 800th year of its existence. This university is said to be the oldest in the world, having been founded by the Emperor Theodosius II in the ycar 42.5 A.D.

Dr. Garà̀, hitherto Privat-Docent in laasle, has hecome an assistant surgeon in the surgical clinic and Docent in Surgery in Tübingen. Dr. F., Haffter will take his place on the editorial staff of the Correspondenzblatt für Schweizer Aerzte.

Privat Docent Dr. Engflhardt, in Halle, becomes Extraordinary l'rofessor of Gynacology in the University of Iena, in place of Professor Küstner, who has been invited to Dorpat.

Tur Commission of the Peace for the town of Belfast has been offered to Dr. Whitla, who has, we understand, declined the proffered honour.

## DIARY FOR NEXT WEEK.

Pathological Society of London, 8.30 P.m. - Mr. J. Mutchinson jurn.: Dupuytren's Fractnre. Mr. Ballance and Mr. Shattock Note on the Fistolory of Cancer and Normal Tissues afte Sterile Incubation. Jir. Bruce Clarke: Sloughing of Bladde following Cystit is. Mic. Vincent Jackson : Sarcoma of Bladder Dr. Turner: Necrosis of Kidney, Mr. Fenwick (for Mr. A Jonea) : Localised Tuberculosis of Ureters.. Mr. Targett : Pect liar Fracture of Skull. Dr. Pitt: 1. Malignant Orowths Bronchial Glands and Pleura; 2. Spinal Cord from Dr. Coliler Bronchial Glands and Pleura; 2. Spinal Cord from Dr, Colk of Charcot's Joint Disease. Card Specimena: Mr. Coli Case of Charcots Joint Disease. Card Specimens: Mr. Colf
man: Polypus of Unbilicus. Mr. S. Paget: 1. Enusual Fram ture of Head of Humerna; 2. Adenonss of the Tonguo. Collier: Curions Fracture of the Larger Pastern Bone of Horse. Dr. Ormerod: Cancer of Gali Duct; Mr. V. Jackson Stone from a Vesical Direrticulum. Mr. Feawick (for Dt Harris) : Bitharziae Cancinoma of Bladder. Mr. Stonham: Tubercle of Prostate and Vesiculx Seminales; 2. Cancer Prostate, Prostatectomy; 3. Melananotic Cancer of Bone, Two Specimens of Cancer of Gsophagus necessitating. Trachee tomy; 5. Hæmatocele with Tunica aginaids from Difficul Cancer of Breast; 2. Very Early Maiignant. Disease of Testis 3. Sarcoma of Lower Jaw Associated with Neerosis. Mr. I O'Connor: Hydatida of Liver and Spleen. Mr. Lumn; Tabetic Feet; 2. Calraria, Claricle, and Lower Jaw frons a Cas of Osteitis Deformans: 3. Multiple Epiphysitis. Dr. Helb Cancer of Thyroid Isthmus; 2. Tuberculosis of Breast.

## WEDNESDAT.

College of State Medicine, Burlington House, 4 P.m.-Professor G. 1 Seeley, F.R.S.: On Soil in its lafluence on Health.
Royal Meteorological Societt, 7 P.M.-Mr. G. M. Whipple and Mr. H. Dines: Report of the Wind Force Committee on periments with Anemometers conducted at Ifersham. William Marcet (President); On the Measurement of Increase of Humidity in Rooms by the Emission of Steam fro the So-called Bronchitis Kettle.

## THURSDAY.

Harvetan Society of London, 8.30 p.m.-Mr. W. Bruce Clarke: The Vall of Antiseptics in Intemal Urethrotomy.

## FRIDAY。

Societt of Medical Officers of Healte (Crane Court, Fleet, Street), 7.30 p.y -The following papers will be read. Mr.C.A. Watts Parkioan Notes of an Epidemic of Paeumonia. Mr. J. F. J. Syked Yerification and Certification of Deaths. Mr. F. J. Lioyd: 0 the Powerlessness of the Public Health

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserting announcements of Births, Marriages, and Deaths is 3s, $6 d$ which should be forwarded in stamps with the annouxcement.

BIRTHS.
Hooker.-On May 7th, at Cirencester, the wife of Charles Mooker, of a daughtef Knowles.-On May 7th, at 5, Ashfond Roail, Maidstone, the wife of Joh1 Knowles, surgeon, of a daughter.
Napier.-On May 5th, at 3, Beaufort Gardens, S.W., the wife of A. D. Le!! Napier, M.D., F.R.S.E., of a son.

DEATH.
Shemiy.-On April 30th, at 4, 'Claremont Square, N., Myra, wife of W. II. $^{\text {I }}$ Sheehy, L.M.C.P.Lond., aged 29.

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS.

Communications respectlng editorial matters shonld be addressed to the Edito 429. Strand, W.C., London; those concerting business matters, non-delive of the Joursia, etc. shonld be addressed to the Manager, at the Office, 4 Strand, W.C., London.
Is orcler to avoid delay, it is particularly requested that all letters on 1 ? In order to ayoid delay, it is particularly requestea Editorat the oflice of il editorial businesa of the JuURNal be add
Jounval. and not to IIfs private honse.
Authons desiring reprints of their articles puhlished in the Britisy MrDici Jounnaz. are requested to communicate beforeliand with the Manager, 4 ? Strand, W.C.
Comrespondents who wish notice to be taken of thelr communications, shoul authenticate them with their names-of course not necessarily for putilicatio Corraspondexts not answered are requested to look to the Notices to Cort
Mpondents of the following week. MANUSCRIPTS FORWARDEN TO THE
CIRCUMSTANCES BE RETURNED.
PUBLIO MEALTK DEPARTMENT.-We ahall be much oblgged to Medical Office
Publio Health Departarint. We ahall be much obliged to Medical Ofine
of Health if they will, on forwarding thelr Annusl and other Reporta, favo us with Duplicate Copies.

## QUEIBIES.

1). in praetiee, wishes to know what hooks are nsually read for the London College of Plyysieians fimal.
NERLEE asks whieh would be the best sea yoyage, lastlng abnnt three months ontianl home, for a phthisical patlent whom fe wants to be at sea, starting middle of May.

## Eafrine.

1. Writes: 1. When and by whom was this name first applied to the active principle of the Calabar bean? 2. Where is the earliest mention of it to be found? 3. What is the derivation of the word?

## ANSTVEIGS.

- Y. 7. shond putilhimself in eommunication with the Registrar of the General Mediral Council, W. J. C. Niller, Esq., 299, Oxford Street.

Lectirfs at the Rozil Colleges of Phisicians and Surgenss. a. Jous Isce.-The lectures at the Royal Colleges of Physicians and Snrgeons are always noted in the Diary for the next week, which is published weekly.

## Medicar. Bonkeefping.

D. writes : In reply to your eorrespondent. "MI.B., C.M.," let me recommend hin to try the "A. B. C. " system of medical bookkeeping. It is infinitely more simple, acenrate, and rapid than any other system with which I am acquainted, and before I anlopted it I had tried a number. It is suited to any size or elass of practice, and can be commenced at any time. I believe it in
mueh used now, and it will eertainly revolutionise the bookkeeping of docmueh used now, and it will eertainly revolutionise the bookkeeping of doc-
tors, cloing away with the wearisome drudgery and the immense losses which have heen general among them. The yublisher is Mr. Allsop, Saltaire, near Leeds.
Mirses writes: When I remember many of the herrors I endured over the lay books anil ledgers of others in years gone by, I am thankful that neeessity, he mether of invention, has stimulated me to devise a multum in parvo for ny own use and comfort. All one wants in ordinary practice is as follows:1. Lonse leaves to be fasteued together as they inerease
2. Prescription book for recipes like to be repeated or wanted again at some ime rone in five, say, at most), at least, that is my experience.
i3. Silverlock's, or Smith's Mouthly list. with colunan in same page of iggregate fees oppesite each name. which ean always be rerified at a glance. 4. Ledger. in which the sums for each month are simply entered, under he proper name with member of family also if preferred.
This system answers all practieal purposes, and saves a mint of time to the usy prietitioner, let alone worry,
5. writes: If "M.B.," "C.M." will refer to Scetions $565-5$ of the Mcdical )igest and appendix. He will find a clue to all the various wans which have reen reconimendel in the Journal since I880, exeepting the last, which ppeared in June, 1886.

## Constitetional Syphilis.

one writes: In answer to the question of "IIermes," the impregnation nust have taken place before the syphilitic eruption appeared; had it ocured after, the mother would have aborted a syphilitic orum of two or three onths gestatlon. In the supposition assumed the child will not be syphitic ; but now eonstitutional syphilis has declared, four or fre abertions will psult-if there he so many pregnancies-each successive gestatiou being umore rolouged, nntil in time a living birth results. This, in my expericuce, wil! e the morse whether mermury be given, on time only assuages the aculemess fthe eril. To procure abortion on mare supposition of syphills would be rimlnal ; if aeute syphilis exist in the fet us it is eertain to be aborted.
. R. J. Brydw (Gravesma) says, in answer to "Hermes": I attende 1 in her infinement, alout a month ago, a person whose hnsband a year previously had iven hersyphilis. She came tome suffering from bad "secoudaries," and, though nuter proper treatment, the disease was very obstinate; yet, after aree or four months course of merenry, she got much better. She had sore roat, with severe nlceration of ane of the tonsils. The hair fell out, and er kkin presented a markel phsoriatie eruption, etc. I quite expected to e a syphilitic foetus, but she went the fult term, and was delivered of a ne healthy child, and it has gremained so mp to the present time of four peks. She got very weak and exhansted during the labour, so I used the r.cps, and she afterwards niade a rapid recovery:

This fase proves that the clind need not of necessity be syphilised. It is This ease proves that the claid need not of necessity be syphinsed. it is ition iu such a case to procure abortion or induee premat ure labour.

## Arexa.

A. Di: Watterinien ntites: The allstrer given by Dr. Aspinall to "Mem" $r$ " in Your last issue will no doubted have satiated his hunger for botanieal iowledge, but hardy satislied his the rapeutic euriosity. What he wants to "ow is that there is an American concochion knownas "tinet. avena sative" ieith, New York), reput ed to be "a powerful nerve at imnlant, tonic, ete," d recommended for the cure of paralysis, writers' cramp, epilepsy, chorea, "d recommended for the cure of paralysis, writers cramm, epilepsy, chorea,
culionm, insommia, uerve exhanstimn, ete. "Member " will poobably be moted (anm wisely) to ask himself how this Ameriean tincture of common ts an differ an much from the Scotrh deeoction, or porridge, as to acquire in marvellous therapoutic prugerties aseribed to it by its promoters? $\mathrm{P}^{2} . \mathrm{S}$.-since writigg the above. I came across the following report (Sex rk. Medical Jowral. April 21st, ises) by Dr. II. Smith. Professor of Chemistry lale College:-"I luse separated from the preparation ('seoteh onts suce') a considerable quantity of morphine."

Graneation is Australia.
ifx Dows asks whether a stutent, whin is nbliged to go to Australia, can tify in the colony, and, if so, what qualifications are available, where, and t? iin) in) grant degrees in medicine after a curriculum has been kept and certain
examinations passed. In both properly attested certificates of attendance on lectures at a recognised school are accepted as proof protanto of attendance on lectures and examinations required by its by-laws. $A$ degree in Arts, or some similar literary or sclentific certificate is required by the Cniversity of Syduey. The E"niversity of Melbourne requires matriculation in it, or In some university recognised by it. The total fees for education aud graduation the University of Sydney amount to £Til 12 s ., but of this only $£ 12$ is payable to the University, the remainder being for hospital practice and systematic classes. Fuller particulars will be found in Bruck's Austrahan Mredical Directory. Sydney: Austmasian Medjcal Gazette Office, London: Balliere, Tindall, and Cox. I88b.

## A Toxic Pilit.

A. II. C.-Richardsons, of Leicester, prepare a sugar coated pill. No. 95, conA. II. C.-Richardsons, of Leicester, prepare a sugar coated pill, Nil 1 gith of a grain of nux romica, which is an excellent combination. This is probably the pill referred to.

## Treatment of Palmar Psoriasis.

Victus asks to be recommended treatment for so-called "poriasis.palmaris, Which has baftled all recognised methods for the past two years.
*** The effect of macerating the skin in its own secretions might be tried by the use of india-rubber gloves. If this fails, the hard epidermis math he softened and removed by the application of Beiersdorf's salieylic guttapercha plaster, and stimulating reinedies applied subsequently. Valuable indications will_he fonnd in the larger works on skin diseases recently publisbed.

Prictice in America.
M.D., M.R.C.S.E. (Philalelphia, Penin.) writes: In reply to "Stars and Stripes." ad at the same tine correcting a grave mistake of "Yankee"s" in his reply to "Stars and Stripes," I would say that an Eoglish graduate will have no difficult y whatever in seeuring the proper registration in any of the States of the Union. The examination required is simply formal, as the examiners themselves will tell yon. "Yaukee" unlike the original rankee, remarks that it would be hard for an Englishman to pass. This is an intentional error (I feel like sařing lie), since anvone who knows the relative sfanding of the profession in bith countries will bear me out in my assertion. It would be no advantaye for an English graduate or licentiate to possess an Anmriean M.D. It would be to him less than "thank'ee for nothing." And should he desire one (M. U.) he would have litlle trouble in seenring it. "I speak whereof I know," since I am graduate of England and America.

TTEF "MFDical Digest.
A Country Doctor writes: If" AMember" (Jocraill, Ipril 21st, p. 896) will have his British Medical Jotriaks bonnd, which any bookbinder will do for haif-a-crown a volume, he will find the Medical Digest more useful to him than the new editions of textbooks on medicine, surgers, or midwifery.
Tرe Letter of the Lath at the General Medical Colncil Office. I-Rgeon-Major (Indian Medieal Department). The Registrar of the General Medical Council is bound by law ta keep his Register correct, and for this purpose sends letters of inquiry as to change of address to the addresses given pose sends letters of inquiry as to change of andress merered, it is helat to be the duty of the Regist rar to remove the name fron the Register. Registered the duty nf the Regist rar to remore the mame from the Register. Rearistered persons are required to take care that their addresses are correetly given. India Ofhee, and probablr. if representations were made in the proper quarters, the diffienity would be overcome.

## NOTES, EETTEISS, ETC.

## Diserse or Toxemia.

Suroens P. H. Fox (Castlebar) writes: I have been much impresserl by Dr Alfred Carpenter's most interesting paper on "The Difficulty in Diagnosis between Symptoms preduced by Disease and those produced hy Lrugs " which appeared in the Joursill of March 2ith, $1 \times 8$; antl, as the subject is one of great importance to military as well as to civil surgeons. I leg to nffer a Iew remarks, and to give a brief deseription of a ease in point. I have had some experience in these cases, and. as Dr. Carpenter so well vemarked, it is some experience in these cases, ant, as "r. carpenter "o werehral compression, and uarcotic poisoning. In faet, when called suddenly to see a patient in a and uarcotic poisoning. In faet, when called sudtenty to see a patient in a cell or barrack-roorn suffering from intense coma. it is often almost impossible to arrive at a correct diagnosis; and, unless there hathens to be soune persen present who can gire a satisfactorr history of the case, the real cause of the eomatose eondition cannot be determinet ease which I have had bearius on the subject.
Private J. 11., Thogal Welsh Fusiliers, aged 20 , was found in a most intense state of coma in his barrack-rom on the morning of March $20^{6+1}$, shortls after state "remse" was somuled. Ilis eomrailes and the nom-commissionel officer in eharge of the room were iuterrogated, but nothing conlal be elicited which in eharge of the room were iuterrogated, cont in any way aceount for the man's contion. They merely stated that wouhl in any way aceount for the mans connition. Naver merey stated tita lie was a most temperate man. drank not bing the alay before, never had tits. went to bed apparently in gool health, and at "ronse" ther fonnt him in
hispresent condition. I had him conveyed to the hospital on a stritcher, his present condition. I had him conves
where I made a mnst careful exanination.
The pulse, temperature, and respirations were nomal; the loeart and lungs were also healthy. I passed a eatleter and drew of a few ounces of urime. whichis foum to be normal in every respect. There was no snocll from his breath, no cetema or swelling, to wounds or other marks of violence on his heal or on any part of his biody: yet. there he lay. perfectly unconscions. head or on any part of his benty: yet. there he ing. perfect sazed racantly slapped in the face with a wet towel, he openerd his "jllys, he wint on to sleep for a moment. or wo: and then, closing then wradially he wight. There was as before. The pupils were slightly dilated. hut sensible to light. There was neither congestion of the conntenance nor suffusinn of the eyes. In this
etate the patient remained for twonights and three days. laving slept sixty state the patient remained for two nights and thr
hours without partaking either of food or drink.

Melically speaking, the only thing I did for him was this. Finding the ordinary means of resuscitation ineffectual, I plieq hinm with enemata, drew off his urine, and blistered the nape of bis neek. Ifter a geod deal of yamb-
ing he awoke on the third day, but could give nn account of himself, except that he took a large dose of tobacco before he went to sleep.
 fill a wisit to the healeh cesorts no the Rifiem during the maving this winter Fethruary, and Mareh. I hal an unthenh ofiem during the months of Jannary. stations with me another, pa ving specinl opportunlty of comparlog the varions Which they afforl to thr finvaling and to their cerle in the amount of shelter ginning with (iehon, I went dirst to Verver gencma sanitary condition. Deof that city; and foumd it rejocing int, astation half an hour to the east flourishing lemonn, orange, eucalvicing in senitropteal regetation, including flourishing lenonn, orange, encalyptus, nud aloe trees, for I I suppose I cannot the coast freely, even in places not innking. Indeed, the aloe grows all along shelter to the invalid. During the earlier part prensions to afforling real sufferal consilerably from cold, the earlier part of we journey, however water cans in the railway carrinues, and the main lines are provided with hot suffieiently provided with yood fires on the hotels in no one locality were reache i Montrenx on my wayd fires or caloriferes; and it was not intil I civilisation combined with the protection a experienced the true benefits of to understood to say that the reconection of overhanging hills. I must not as " winter havens of the sunny foulech bealth stations are wrongly described declare my profound conviction south." On the contrary. I ang bound to The whole a hetter elimate than the best worst of these stations possesses on Ireland, unless it be the sheltered station that can be had in Great Britain or south-west enast of Irelani. This latter of Glengarif. near Bantry, on the seen, although there can be this latter, 1 am ashamed to say, 1 have neser Thackeray declares that ". no no doubt of the mildness of its clinate, and scenery. ${ }^{\text {d }}$ declares that "no pen can give an idea of the magnifience of its

Beyodd Vervi, still further to the east, that is, an hour by mail from Genos on the Risiem di Levante, is the beantifal lltile town of riapallom Genoa among olive-covered hills, and where the lenion also grows freely. This is the most charming of all the stations for the good pertestrian; but it has the well as the neighbourlop town of Santes by rail, just before entering it, as of accommodation could be prowided for Margherita. If an inereased amonnt adapted for those who do not hopl for strangers, andan Evangelical ministry probably soon rival snme of the lapen to be Churehmen, this station wonlit Gnglish wisltors, Unfort ane arger towns which are now erowded with whithont wounding the suscentibilit is impossible to make just comparisons at rangers; bint, as 1 am an admites of places which live by the infux $n$ regfong. I must be nardoned if a 1 amirer of the whole of this highlr-favoured region. I must be pardoned if I glve my impressions just as they struck me at
the tlmo of my visit.

Dosations received since May Chthe or Distrexs,
 Further rlonations towarils the relief of teneriffe)... ... Hesperictes, ceived br Dr. G. C. Jonson, 18, South of the family will be gratefulls reBright, Forest Hili, S.E.
Dre. he. Caton (31, Molmey Street, Appale.
hing hoall, Liverpool) write Will Liverpool), and W. T. Sheppard (bs, Durprofession on behalf of the withow of the us to appeal to the charity of our Afteralong amb successful profewsional career J. J. Luce, M.D., M.k.C.s. ? and finally at Stratford-on-hwon, Dr. Luce retired from private practienhury. or four years ago, am was appointal Resident Physicint to the Seafield IIouse 11 rilropathic Establishment. Infortunately he was indluced to invest
 Pany snoz after this became insolvent, annl Dr. Late lost the whole of his monst unfortumntels. he was involvaid his salary. Alout the same time swept awsy the remaing of his in lawsuit, the expenses of which comfartable position to of his capital. H. was thus reduced from a very 13 h . His widow has only any when near theage of io. He died on dpril only relative is an aged ant annulty of from ele to els per annum, and her present greatly in neel of nssistanco in marrow circumstances. She is at present greatly in meell of nssistance. We alypend a list of subscriptions
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The Ceipton LưNacy Case.
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# REMARKS <br> on <br> <br> THE TREATMENT OF CARBUNCLES <br> <br> THE TREATMENT OF CARBUNCLES AND BOILS. 

 AND BOILS.}

By SIR PETER EADE, M.D., F.R.C.l.,
Senior Plysician to the Norfolk and Norwich Hospital.
The very valuable papera by Mr. Page and Mr, Rushton Parker recently published in the British Medical Jocrnal aptly recall attention to the subject of the local treatment of carbuncles as well as boils, and I think yet a few more words may well be said on this matter.
The contribution of Mr. Page refers chiefly to the treatment of carbuncle iu ite advanced stages, and especially to the method of then treating it by incision and seraping away as far as possible the sloughing and diseased mass whieh gradually forms in the course of this disease. It is doubtless in these later stages that this methed of procedure by abrasion or scraping appears, most applicable, because it is then that the soft, boggy material exists in considerable quantity, and the size of the peculiar "core" or sleugh is then such as to make its removal desirable for every reason. In all three of Mr. Fage's cases the carbuncle had reached a very forward stage, the diameters of the awellinga being four, five, and eight inches respectively, and in all the disease having existed for from two to three weeks. The reanilts appears to have been in all of them lighly satisfactory.
Mr. Parker's cases carry these views as to the desirability of surgical interference still further, and press upon consideration the question of alwaye treating carbuncles and beils at all their stages by removal or destruction.

These views are, of course, in direct opposition to the opinion expressed by Sir J. Paget as to the propriety of non-interference in these cases, but they strongly confirm the recommendations given by the late Mr. James Startin (Britisi Mrdical Journal, vel. ii, 1866) in a most practical paper on this sulject.
Many years ago I devoted considerable attention to these diseases, and I published several papers (see Lancet, 1869 and 1874 , and British Medical Journal, 1876) advecating the free use of caustics for their destruction. Then, as now, all evidence went to show that a carbuncle (like a beil) was mainly a local disease, and that its career conld be cut short at almost any stage, from its carliest one of a pimple with an open apex, through that of a solid papule, to the fully-formed condition of a pulpy mass with its characteristic cribriform and discharging openinge.
The several casea so reeently published show once more what are the true theoretical principles on which we ahould act, and also how effective is the knife or the spoon in remoring the disease and relieving the patient. I would urge that they forcibly inculeate the duty of considering in every case whether prompt aurgical interference is not ealled for, not only when the disease is large and fully formed, but aloo when smaller, yet slowly but surely advancing in ita well-known course, and is certainly invelving the patient in a prolenged illness attended with much pain and general suffering, na well as the possibility of some danger to life.
That the disease is not only local, but is due to the presenec (or products) of a micrococcus, is now practically established (see Mr. Watson Cheyne's Lectures, 1888, etc.), and there is now little doubt that the multiplication and sprend of a mass of germgrowth (? staphylococcus pyogenes nureus) from the centre or original pimple in a circular form outwards and outwards is the essence of the disensc.
Like anthrax and malignant boils generally, earbuncle is in its enrly stages undoubtedly curable through local destruction or removal. But it seems that a necessity for increased strength of the destructive agent steadily increases as the peried of its existence is prolonged. At first the pimple may be almost certainly destroyed by continuous soaking with : a solution of boracic acid, salicylic acid, or other mild antiseptic. At a little later period it
may usually be aborted by inserting freely into its central or cribriform openinge some strong solution of carbolic acid in water or glyeerine, or by adopting one or other of the methods suggested by Mr. Startin (Jounsal, vol. ii, 1866). But when it hae become large and solid, and much surrounding tissue has been infiltrated with the growing germs and their producta, the disease appears to be chiefly susceptible of surgical treatment by partial, or entire excision, or incision with scraping away of the boggy material, as recommended and practised by:Mr. P'age.
In cases where this severer form of trcatment is either declined or thought inexpedient, there is then nothing for it but such careful expectant treatment as Sir J. ''aget recommends; althongh my own expericnce shows that even in the later stages the free application of oil or glycerine of carbelic acid, alone or upon a poultice, or inserted into the openings, has a marked effect in penetrating and rapidly improving the condition of the sloughy mass, and apparently in hastening its separation.

None of the usual loeal caustic applications are otherwise than painful, for the spreading growth is always excessively tender, but nevertheless, in many cases, it is well worth while to submit to the pain of the application in the early stages, rather than incur the risk of one, two, or three months' severe and, perlaps, dangerous illness. But in some other cases it is almost imperative to try and abort or destroy the nascent growth, as, for example, in carbuncle commencing upon the face or upper lip, which is, perhaps, its severest form. A few years ago it happened that a well known surgeon in this county was attacked with a carbuncle of the lip, which was treated in the ordinary way by poultices and the other usual methods of soothing and expectant treatment. This gentleman was severely ill, and in considerable danger of his life for sereral weeks. He was compelled to leave his home and to relinquish practice for several months; and when he returned, the whole side of his face was deformed and distorted from the contraction of cicatricial tissue, and his face and chin were reddened and disfigured for life.
Very shortly after this I was asked to see another medical man in whou the same form of the disease had begun, and was rapidy spreading. It began at the right side of the upper lip, and had extended nearly to the middle line, and the lip was swollen, tense. and very painful, whilst several small openings had already formed. Remembering the other recent and unfortunate case, which I quoted to the patient, I persuaded him to allow me freely and frequently to insert a strong carbolic glycerine solution into every part of the swelling where a hole permitted it. The process was disagreeable and somewhat painful, yet the good result obtained encouraged us to persevere, and in three or four days we had the satisfaction of finding that the increase of the growth was quite stopped, that the tension and swelling were steadily subsiding, whilst bright red granulations (such as carbolic acid will often produce in the base of a sloughing tissue) began to show themselves.
In two or three weeks from the commencement of the attack this gentleman was absolutely well, quite free from deformits. and almost free from any cicatrix, the result exlihiting a marked and gratifying contrast to that in the case of his professional brother.
Boils are not identical with carbuncles, for they have a different aize and aspect, a different life-history, and an entirely different. duration; but they are evidently closely akin, alike local and "fungoid," and the theory of their thearmenser importance same. however modified in practice by their lesser importance. And they are markedly contagious, for there is strong reason to believe that what is commenly called a "crop of boils," and is often attributed to some blood-fault, is essentially the result of autoinoculation, and that each successive boil is due to the implantation in the skin of fresh seeds or germs from the preceding one. It is well known that a nascent boil may be easily aborted by a point of some strong caustic. The same result may be more casily and pleasantly obtained (as in the earliest stages of carbuncle) by soaking the coumencing pimple frequently with a solution of salicylic acid; and I had the satisfaction a short time since of thus entirely stepping the progress of "a crop of boils" in both husband and wife, who had clearls infected each other, by the adoption of this rery simple and painless process.
The whole tenour of our increasing krowledge of both carbuncles and boils appears to me strongly to point not only to the certainty of their local and parasitic nature, but also to the dewhinity of their destruction and removal at the earliest stage at which they come under our observation.

## ABSTRACT OF

 CLINICAL LECTURES ox
## CARCLNOMAS OF THE BREAST WHICH REQUIRE AN OPERATION.

By N. C. MACNAMARA, F.R.C.S.,

Surgeon to the Westminster Hosyital.

## Lecture 1.

Sir B. Brodie, in his lecture on the treatment of scirrhus tumours of the breast, observes, "that terrible as is the fate of persons suffering from carcinoma, and desirable as it may seem to remore such tumours, we must remember that the larger proportion of those operated on die within two or three years afterWards, and, in many cases, instead of the operation stopping the disease, it actually seems to hasten its progress." This opinion was formed some fifty years ago by one of the ablest surgeons England has produced; and the question is whether there is reason to suppose that recent improvements in surgery enable us to modify our ideas on this subject. Sir B. Brodie commences his lecture on the treatment of scirrhus of the breast by stating that, from a clinical nspect, carcinomas in this situation may be divided into twe classes: those in which the tumour in the ceurse of a few months rcaches a large size, the whole of the gland being converted into a malignant grow, th; nad secondly, slowly-growing tumours, which in their early stages appear as if cmbedded in the substance of the gland. The peculiarity of the rapidly-growing carcinomas is that the diseased aetion seems to incolve simultaneously the whole of the epithelial structures of the affected glsnd; its progress is remarkably rapid, neighbouring glands as well as distant organs of the body being speedily implicated, so that the patient usually succumbs to the discase within twelve months of its first appearance.
For instance, Mrs. ML, aged 38, first came under my care in the Westminster Ifospital, on Novemher 4tll, I886. Her fsmily and previous history were good. She had had clevcu children, and had weaned her baby just before being admitted into the hospital on account of a submammary a bscess on the left side. The abscess Was opened on November I2th, nnd the pationt left the hospital
on December Ist; the wound had then healed, and the breast, on December Ist; the wound had then healed, and the breast,
although indurated, appeared otherwise to be healthy. On Fcbalthough indurated, appeared ot herwise to be healthy. On Fech-
ruary 3 drd , 1887, Mrs. M. Was readmittcd. Her left breast was then ruary 3rd, 1887, Mrs. M1. Was readmittcd. Her left breast was then
fixed to the chest-wall, and projected uniformly forwards; it was extremely painful; the skin was of a dusky red colourd, in places dimpled and attached to the gland. The breast felt tense but elastic; the axillary glands were crlarged. The patient urged me to operate, and, as she was suffering intense pain I did so, remeving the whole of the disensed structures. Mrs. M. left the hospital in March, having made a good recovery from the operntio $n$; but within six months she returned, with recurrence of the carcuinoma in her left side, and evidently in a dying condition, and that within nine months from the time whing the abscess
formed in her breast.

With remorence to these rapidly-growing cancers, the opinion expressed b. Sir B. Brodie was correct; he states that "an operation not ory never succeeds, but it rather hastens the progress of the titis or by This form of carcinoma is usually preceded by 5 per cent. of a injury to the gland, but such cases hardly form in with reference
prodie, in which the second class of cases mentioned by Sir B. hreast, and hat nimer has tirst appeared as a hard lump in the hrease, to about thenly grown in the course of twelve months or
more ahould be subd after the piges in whe, think these tumours first observed aiter bably ges in which the scirrhus has been menia having pro in which was some 50 years of age, the catayears, and those ine" had teely ceased for some twe or three the "change of lise tient applircinoma has commenced before Supposing ap which has
in the breast,
us with a densely hard tumour
uly existed for twe years, and
during that time has grown to be as a large as a pigeon's egg, skin over the tumour being dimpled and fixed to the mo: growth; there is a suspicion of the axillary glands being larged, and the patient has lately experionced a consider amount of pain in the part.' In such a case, if the individual upwards of 50 years of age before the tumour had been noti, the menses having ceased for some time, I should hesitate a an operation, but caution the patient against allowing her di or anything eise to rub or press upon the breast. My reason it forming this opinion would be based on the experience I $h$ gained as to the results which in such cases follow an operat as contrasted with those which are observed when the discase been allowed to run its course. The manmaxe, at the period of I have supposed the tumour to have developed, are slowly und going atrophic changes, and it is not unreasonable to hope that f a morbid growth forms in them, it may with the breast, un: irritated, pass inte fibrous tissuc and so become converted int a cicatrix. For instance:
1 was asked by Dr. Yotter to see a patient suffering from scirrl 8 of the right breast; the woman was then 52 years of age, and $1 / 1$ ceased to menstruate for about five years; she had for some ti noticed the lump in her breast, regarding which she sought for opinion; this was in 1879. The tumour was about the size o pigeon's egg; the skin over it was dimpled and adherent to growth, some of the axillary glands were enlarged. It is now $n$, years since I first saw this patient; she is still in excellent heall; the breast has become converted into a dense cicatrix and axillary glands appear to have undergone similar changes.
We have another patient attending the hospital at present. observed a nodule in her right breast when slie was 55 years age; it had been in existence for a considerable time' and she d not think it had incrensed in size lately; the skin, which was $t$. herent to the growth subsequently ulcerated: the woman $b$ been under observation for seven years, and, although she has sifered much from pain in the part she is now in very good healt and well able to do her work in life: 1 do not think this wou have been the case had I exciscd the breast seven years ago.
Corail snd Ranvier, writing on cancer, remark that "the e tainty of their dissemination is in proportion as the disease is - Innger standing;" this is not my expericnce in the clase of cas above referred to. On the other hand, Sir B. Brodie was rig when he remarked that "if you are doubting about the exped ency of an operation, and the disease be in an indolent state, tI
recollection of such cases as these, where the patient has lied recollection of such cases as these, where the patient has livi with scirrlus of the breast unaltered for mary years, should be su
ficient to incline you to reipe ficient to incline you tareject it." I would, however, restrict th observation to the class of patients who are advanced in life b fore the tumour develops; sueh cases form, perhaps, 10 per een of all the slowly growing cancers of the brenst which are met wit in practice. This opinion, as I have already remarked, is founde
on my own experience, and I have no desire to fortify it by refe on my own experience, and I have no desire to fortify it by refe ring to statistics of cancer of the breast, for I think that figure if applied to a subject of this kind, are often misleading. Prohabl few surgeons were. better able to appreciate this fact than Sir 1 Brodie; and it is quite possible be may have had the matter pr minently brought to his notice, with regard to the treatment $~($ carcinoma of the breast; for Sir Charles Bell had written fercibl on the advantages to be derived from excision of the gland whe affected with cancer. Sir Charles, in his Edinburgh lecture
taught that excision fuiled in thught that excision failed in the greater number of cases becaus the operation was delayed too leng; on the other hand, Dr. Alex WI uro, of the same school, published a paper in which he stnte
"that of nearly sixty cases of "that of nearly sixty cases of cancer he had seen extirpated, onl? four were free of the disease at the end of two yenrs." In reply ti this, Sir Charles remarks it was natural that Dr. Murro shouls have formed so bad an opinien of excision of the brenst fol enncer, because he was only a consultant, and, therefore, eau none but far advanced cases of the disease. Sir Charles observes "before applying for this kind of assistance, private surgeons art usually consulted, who generally retain the patient under theit own management if the case docs not appear to be desperate, of if any reputation is likely to be got from an operation." In order to prove the correctness of this idea. Sir Charles quotes the following from a paper written by his friend Dr. Hill, of Dumfries: "He was the more resdily induced to do this from knowing that no fallacy or mistake could occur in the relation, Mr. Hill having been so exact as to keep a register of erery case." The statement which Sir C. Bell thus endorses as being accurste shows to what remarkable purposes figures may be turied in referenoe to the sur-
gical treatment of disease; for Mr. Hill asserts that he had not only extirpated eighty-eight genuine cancers, all of which except four had uleerated, with only two deaths, but that of seventyseven such cases, sixty-six continned free of cancer as long as they lived, so that "the different patients lived as long after extirpation of the cancer as, according to the bills of mortality, they would have done had they never had any cancer, or undergone any operation." Sir Charles in this way disposes, to his own satisfaction, of his friend the "late jnstly esteemed" Dr. A. Munro. I have no desire to follow his example, and attempt to strengthen my opinion regarding carcinomas of the breast which should be operated on by referring to figures, for "everyone knows how easy it is to twist statistics to suit any moral which the manipulator is anxious to enforce."
Excluding cases of cancer which have adranced beyond hope of retief and those whose health is seriously compromised by some other disease, Sir B. Brodie avoided operating on rapidly-growing carcinomas, as well as on those very slowly-growing tumours above referred to. He was also disposed to hesitate in operating when the skin and axillary glands as well as the breast were affected with cancer in younger persons. There seems good reason why he should have formed this opinion, beeause fifty years ago the death-rate directly following an operation for excision of the breast was hardly less than 16 per cent., and if the glands were removed it rose to 25 per cent. With a risk of this kind from the operation, and the certainty that by far the larger proportion of those who survived excision of the glands would die of cancer within two years, Sir B. Brodie was right in deelining to operate unless in exceptional cases of this kind. Thanks, however, to drainage, anesthetics, and antiseptics, we may now take a more favourable riew of the risks incident to excision of the breast; the death-rate from this proceeding has diminished of late years, and the pain from the subsequent dressings has been greatly alleviated, so that we are not only justified, but it is our duty to remove a large proportion of carcinomas of the breast, although the skin and axillary glands are diseased; we may thus hope to prolong life, and we have good reason to believe that we slanll also save our patient much suffering. It is true there are a certain few cases of rapidly-growing carcinomas of the
breast, and some very slowly-growing tumours we had better leave to run their course, but these do not form more than better 15 per cent. of all the cases of scirrhus we meet with, and their existence cannot justify practitioners abstaining from excising the affected gland in the large majority of cases, especially in the early stages of the disease, a subject to which 1 shall return in my next lecture.

## MODE OF FLXATION OF THE SCAPULA,

 suggested by a study of the novenents of tifat bone in extreme flexion of the sioulderJoint: its bearing uron fracture of TIIE CORACOID PROCESS.By W. ARBUTilNot LaNE, M.S., F.R.C.S.,
Assistant-Surgeon to Guy*s Ilospital, and to the Hospital for Sick Children,
In the Guy's ILospital Reports, 1886, page 332, I showed that during the movement of flexion of the sloulder-joint, the scapula rotates around a transverse axis, or, more aecurately, around an axis whose direction is, on the whole, obliquely inwards and forwards. While the scapula is performing this movement, that portion of it which is most fixed as regards the claviele is the acromion at its articulation with that bone, and next to that the coracoid process of the scapula. The lower extremity of the scapula glides outwards, forwards, and then upwards, over the convex outer surface of the thorax, while its upper margin is carried hackwards and somewhat upwards from its relative position to the claviele in the pendulous attitude of the arm.
Tho coraco-claricular ligaments oppose and limit this separation of the two bones, and the coracoid process is prevented from moving upwaris and backwards by its coming in contact with the under surface of the clavicle.
1 also pointed out that in those labourers who have to carry loads upon the head or trunk, in order to keep their heavy burdens in place by their arms, the shoulder-joints are retained in a position of extreme flexion, the scapula being fixed upon the clavicle by the opposing surfaces of clavicle and coracoid process;
that in such labourers an artlirodial joint is developed in this situation, and that the perfection at which the joint arrives depends entirely upon the strain exerted upon the arm, and therefore upon the opposing surfaces of coracoid process and clavicle while the shoulder-joint is in a position of complete flexion (this condition is even more marked when the load exerts a direct as well as an indirect pressure upon the claricle).

In some cases I have found this joint remarkably well developed, the articulating surfaces on the coracoid process and clavicle being elournated, and the capsule surrounding them. strong and well defined. In that paper in the Reports I suggested that this apposition of the coracoid process of the scapula and clavicle was the developmental factor which determined the separation of a portion of the tendon of the pectoralis minor to form the coraco-humeral ligament, that tendon originally passing superior to the coracoid process, as a large portion of it does in occasional instances. In the same manner it has possibly drstroyed a portion of the subclarius, which may have formerly extended outwards as far as the acromion. In porters I have seen the subclavius arising by fleshy fibres from the capsule of this joint, rendering it obvious that during one lifetime the extent of the origin of that musele can be considerably altered. As it does not bear directly upon the point I wish to illustrate here, I will only mention the similar joint formation and other presure with them whentical in character with the above, and associated ments, and the underlying first rib and cartilage.


Fig. 1 represents the upper two costal arches, the clavicle, the extremity of the coracoid process, and the half of the manubrium of the left side of the body of a labourer. On the upper surface of the coracoid procezs $\mathbf{C}$ he articular facet by which this boue articulates with the nndursurface of the claviele, is represcnted as a slightly elevated planc. The dotted line indicates the position of the capsule of the acquirel coramdavicular joint. A polnts to the arthroidal joint which has derelopexl in the outer portion of the ossified first costal cartllage. Oindicates the position of facets on the first costal cartilage and on the anterior ixpanity of the first rib, which articulate with a corresponding articubar tremity of the under surface of the clavicle, and form with it what 1 call surace ondro-clavicular articulation.
In Figs. 1, 2, 3 and 4 I have represented the chonilo- ann coraco-clavicnlar joints as they existed in a labourer who carried loads upon his left shoulder.
The movements of the scapula with regard to the claricle during flexion of the shoulder-joint are very briefly and -omesthat inaccurately described by anatomists, and I am describiug them here, as a kinwledge of them surgests a rery important practical point in the surgical treatment of that joint.
The circumstance which I wish to call attention to is thisnamely, that in complete tlexion of the shoulder-joint the scapula under surface of by the coracoid proces impinging upon the
completely flexed the bumerus may be rotated, completely adducted, and very extensively abducted without the scapula accompanying it in its movements.
Surgeous are all familiar with the difficulty they experience in fixing the scapula when they wish to break down adhesions which hnve formed between the humerus and that bone, and many means hane been devised to obviate this difficulty. I will illustrate this ly quoting a few lines referring to the treatment of synovitis of the shoulder-joint from IIolmes's System of Surgery, vol. ii, page 393: "But, if adhesion remain between or about the surfaces, difficulties in restoring motion nre met with in the shoulder-joint which are not present to the same extent in other joints. They are due to the mobility of the scapula, which, when We attempt to make passive motion for the stretching or the tearing of the new material, moves with the bones, and we have no point IJappui, as in other joints. But the difficulty can to some extent be orercome if the patient be put under the influence of an anestlietic, by giving the scapula into the charge of an asaistant, who stands at the side of the patient opposite to that of the affected joint. If now, while he grasps this bone with both hands, and fixes it ngainst the ribs with his fingers on its borders, the humerus be slowly brought away from the side, and then rotated upon its own axis, the adhesions may be gradually loosened after one or two atteupts if the assistant be able to hold the scapula firmly. Enfortunately, the patient himself will not, as a rule. carry out active motion carefully."


Yir. 2. - The intton line indicstes the limits of the chonito-cinvifular jnint od its relations to the subclavius musele ( $\mathbb{S}$ ) and stermoclavicular artieu taflon. Thr: outer end of the clavicle lias beve displiced upwards and backwards, in order to show thls new joint
The writer rery wisely inserts the proviso, "if the assistant be able to hold the scapula firmly;" and in my experience the assistant was never able to do so to my satisfaction. By means of the method I suggest, not only can the surgeon and his asistant completely fix the scapula, and rotate the humerus rendily when the scapula is fixed, but the pntient can readily arrange that his relations or friends shall carry out the definite nad aimple instructions of the surgeon, and a very important part of the subsequent treatment can in this manner be secured.

It is obrious from the above description of the movements of the should - -joint that the coracoid process is brought into forcible contact with the under surface of the claricle only in extremn flexion of the shoulder-joint; and that if the force exerted in hring $n$ y these bones into apposition be great. the coracoid procovz mnys Eustain a strain sufficient to break it. Sush an acci
dent might then easue by the exertion of a sudden or considcrable strain upon the trunk of an individual hanging by his arms, or by a heary fall forwards, the arms being at the time completely flexed at the shoulder-joints, and, therefore, stretched directly forwards. In either case it is very likely that fracture of the coracoid process would be accompanied by dislocation of the head of the humerus.
The coracoid process would, therefore, be broken by indirect and not by direct violence, but, according to surgical authors, the coracoid process is not broken in this manner. For instance, in IIolmes's System of Surgery, vol. i, page 953, I find the following: "Fracture of the coracoid process is an extremely rare accident, and only produced by severe direct violence; it is usually accompanied by other injuries, as dislocation of the humerus in the cases reported by South and Holmes, or by fractures of other parta of the scapula." I would ask how it is that fracture of the coracoid process by direct violence is so frequently associated with dislocation of the humerus? It seems difficult to understand. The writer goes on to say that "Two cases of fracture of this process have come under my notice. In both the fracture was caused by a fall forward from a slight height with the arms stretched forward, etc." Again I would ask in what manner does he suppose that the coracoid process could have been influenced by direct violence when the shoulder-joint and arm were in the position he describes?

It is obvious that he refutes in a very practical manner tho assertion he had just made by the two cases which he has brought forward to illustrate and verify it, since it would be almost impossible to fracture the coracoid process by direct violence under the circumstances related.


Fig. 3 represents the under surface of the left clavicle; A the facet on tha chavicle which enters into the formation of the chondro-clavicniar articulation; and $B$ the facet fornivg the clavicular portion of the coracoclavicular articulation.


Fig. 1 represeats the upper surface of the left coracoid procegs, C indicaling the ralsed fat faret on this surface of the bone, which articulates with the facet $\mathbf{B}$ on Fig. 3. $D$ and E point to the trapezoid and conoid ligit weots reapectlvely.
The extreme rarity of this fracture illustrates another point in which I am interested, namely, the relative frequency of fractures of the various hones. In 325 bodies whose bones I have thoroughly examined in the dissecting-room, I found no undoubted instance of fracture of the coracoid process, though 1 have looked for it very carefully. In the same number of subjects I found that a considerable proportion presenterl fractures of the acromion, that portion of the scapula being broken more frequently than any other bone in the body. Yet in the statistics of the fractures of the upper extremity, treated at the Middlesex Hospital during ten years ending 1879 , comprising a total of 1,084 fractures, there are six fractures of the coracoid process, and only ten fractures of the acromion.
The reason of the incompatibility of this last statement with the results of my experience in the dead subject is obrious from
the comparative difficulty in detecting a fracture of the acromion. I have in many instances of so-called simple contusion of the shoulder of the living subject been able to satisfy myself of the presence of an ununited fracture of the acromion or of fracture of the onter third of the clavicle.
This is another instance of the extreme inaccuracy of the published atatistics of the relative frequency of fractures of the various bones. In a paper in the Guy's Hiospital Reports, 1886, 1 have described in full the frequency of fractures of the acromion, first costal arch, and outer third of the clavicle, and I am merely referring to it here as bearing upon the rarity of fracture of the coracoid process. It ia also obvious that the force required to produce a fracture of the coracoid process must be great as compared with fractures of the acromion or clavicle.

## A NOTE ON THE RHYTHM AND CHARACTER OF CERTAIN TREMORS.

By R. NORRIS WOLFENDEN, M.D.(CANTAB.), Physlcian to the Hospital for Diseases of the Throat; AND
DAWSON WILLIAMS, M.D.(LoND.),
Fellow of University College, and Assistant-Physician to the East London Hospital for Children, Shadwell.

The voluntary contraction of a muscle in man is maintained by a series of nervous impulses, which reach the muscle at a certain definite and fairly constant rate. Under ordinary circumstances in bealth, the fine vibration thus produced is imperceptible to the casual observer; but if even a steady hand be attentively watched, it may be seen to be constantly vibrating. By the use of suitable apparatus a graphic representation of this vibration may be ubtained; the general character of such a tracing is fairly represented by Fig. I, which was obtained by one of us from his own forefinger.


The rhythm of muscular contraction for the muscles of the forearm was set down by Beannis (Physiologie Humaine, 1876, p. 273) at 10.5 per second, and be added the remark that these vibrations were much more "pronounced in senile tremor and alcoholic trembling, which are only exaggerations of the plysiological state."
Horsley and Schäfer (Journal of Physiology, vol. v) have recently found from experiment that the rhythm of muscular response to electrical excitation of the nerve centres is the same, whether the excitation be applied to the grey matter of the cerebral cortex of the motor region, the corona radiata, or the spinal cord (but not to the peripheral motor nerves) ; and that with all the rates of excitation higher than ten, the rhythm of muscular response is maintained at a fairly uniform rate of about ten per second. The rlythm in the case of voluntary and reflex contractions is essentially the same as that got by excitation of the nervous centres. In the case of epilepsy they obtained sometimes a slower rate, due to summation in the cells of the spinal cord. This summation on the part of the spinal cord cells explains why in some cases a rhythm was obtained the same as the electrical excitation, or, if not quite equal to that, yet considerably exceeding the normal rhythm. This was due to failure or imperfect performance of the summation process. They think that the spinal cord cells are never capable of originating a rhythm of greater frequency than ten per second, hut that cortical cells may originate a rhythm of twelve, thirteen, or even more.
Schäfer (Journal of Physiology, vol, v) also has recently shown that a prolonged voluntary action in man is an incomplete tetanus produced by from eight to thirteen successive nervous impulses per second. He concludes that in this case the average rhythm is also ten per seeond.
That this rate of rhythm is maintained fairly constantly in the various movements constituting the tremor of disease is made
evident by our observations. Mr. Fictor Morsley has already figured in the Joursal (rol. i, 1885, p. 112) a tracing of ankle clonus in a man suffering from caries of the spine, which showed a wave-rate of eight to ten per second, and also a tracing from a well marked case of paralysis agitana made by Dr. Beevor, showing a wave-rate of four or five in a second. Mr. Horsley added that he had found frequent indications of ench wave being a compound of two.
The investigation which we now report was directed to the study of the characters, but especially of the rate, of various forms of tremor observed in disease, with the view of ascertaining whether the relation on which they atood to the normal oscillations of health was of a constant character. The analysis of complex movements such as those of athetosis, or even of chorea did not come within the scope of our inquiry.
The apparatus which we employed is represented in Fig. 2. The tracing was taken on an ordinary revolving cylinder ( $\Delta$ ) driven by


Fig 2
clockwork; the writing lever of the time marker ( D ) marked lialf seconds on the same cylinder; a Marey's tambour (D) carrying a writing lever (c) was connected with an india-rubber bag (F)-of the kind used by Dr. Warner in his experiments-by a long piece of glass tubing (e); this rigid tube was introduced in order to prevent as much as possible accidental jarring or shaking of the apparatus, which, especially when the patient has a severe form of tremor, is very prone to occur if the whole connection is by india-rubber. The patient placed the tips of the fingers or the palm of the hand upon the india-rubber bag; each morement was thus transmitted to the tambour ( D$)$ and inscribed apon the blackened paper of the recording cylinder by the writing lever (c). This arrangement of the apparatus has the great advantage of permitting observations to be made without difficulty in an ordinary ward ; it can be quickly put together and carried from ward to ward by a single assistant.

The first observations were made on cases of exophthalmic goitre (Graves's disease) ; the exceedingly fine character of the tremor which is present in the earlier stages of that disease can only be atudied by obtaining a graphic record of the movements. and, while affording a good test of the applicability of the methol to clinical purposes, there seemed to be some probability that a comparison of the tracings with others obtained in other forms of

disease where the tremor is coarser might throw some light on the nature of Graves's disease itself. Fig. 3 is a reproduc:ion of a
tracing taken as above described while the cylinder was revolving slowly. The patient was a young woman, A. C., suffering from well-marked symptoms of Graves's disease in an early stage. The tremor could be distinctly felt when lier hand was loosely placed in the hand of the observer. The tracing was taken with her right hand resting lightly on the tambour. The morements occur at the rate of 11 per second, and their amplitude is slight, though rarying within small limits. Numerous tracings were taken from this patient, and also from another young woman, E. A., who also presented well-marked symptoms of Graves's disease in the early stage. All the tracings had the same characters, and the rate was practically identical in both patients, the maximum of numerous countings being 11.5 per second in A. C., and the minimum 10.8 per second in E. A. A study of the extended series of tracings from these two cases appears to show that eren this slight difference is due to imperfections in the npparatus, and that, within the limits of experimental error, the rate in these cases was almost identical. Fig. 4 is a reproduc-

tion of a tracing taken with a more rapidly revolving cylinder. Though the general aspect is, for this reason, different, the rate at which the movements occur ( 11.3 per second) is almost the same as in Fig. 3, and the two tracings have essentially the same characters.
The next tracing (Fig. 5) is from a man, W. II. H., aged 78,

who presented well marked symptoms of paralysis agitans; he was under the care of Dr. Scanes Spicer in the Fulham Infirmary, to whose kindness we are indebted for the opportunity of making this as well as the observations recorded below. Though the tremor was well marked, the patient was still able to do a little light work. The tracing gives a rate of 5.2 per second, but inspection shows that many of the curves give indications of secondary waves. This is beautifully marked in the tracing (Fig. 6) from another case, G. E., an old man, also in the Fulham


Infirmary, with incapacitating paralysis agitans. Each wave is notched at the summit with singular regularity, and is clearly compounded of two waves. The larger waves give a rate of 5.1

per second ; and, as each is double, the true rate is 10.2 per second, which is about the average rate of the oscillations in health, the difference lying in an alteration in the amplitude, and in the fusing of each alternate wave with the one immediately preceding. This point is further elucidated in another tracing (Fig. 7), taken from this case on a more rapidly revolving drum. The lever, as it descends, is caught by the secondary ware, and again thrown up, very much as in a tracing of a "dicrotic "pulse. The tremor of paralysis agitans, which ordinarily gives such a tracing as that reproduced in Fig. 5, is thus seen to be due to a fusion of the waves in pairs as above stated.

Tracings were taken from two cases of disseminated sclerosis. In one, A. D., a woman aged 77, a very uniform tracing, reproduced in Fig. 8, was obtained. The rate is 5.8 per second. A tracing

## FR2. <br> MNWNWNMN

obtained from another case of the same disease in a woman, A.fT., affords evidence of secondary waves, which, viewed in the light afforded by the tracings from'the cases of paralysis agitans (Figs. 5, 6. 7), points clearly to a process of fusion. The same effect is extremely well shown in a tracing (Fig. 9) from a case of

lateral sclerosis with tremor of the arms in a woman aged 63. The rate, if the main oscillations only are counted, is 5.2 ; and, as each oscillation is distinctly double, the true rate is in this case also 10.4. The next tracing (Fig. 10) is from an old woman aged


91, who had well-marked senile tremor. The arerage of the oscillations is 5.5 per second. Many of the curres, however, are distinctly notched, so that, as in other instances, we here have, in all prolability, an effect of regular summation in pairs.
It would be easy to multiply tracings all giving evidence of $t$ t.e same nature, but enough has been adranced to make it clear that the rate of the tremulous movements in these various forms of nervous disorder does not overpass the normal limits observed by Schäfer and Horsley. The general result of our observations is to show that the special characteristics which clinically distinguish the rarious forms of tremor are to be traced to two causes: in the first place an exaggeration of the amplitude of the normal ribration; and in the second place to the fusion of vibrations, which has the effect of producing a relatively slow tremor, generally of a rate corresponding to half that of the normal ribration.

## A NOTE ON <br> FILARTA SANGUINIS HOMINIS:

 Witil a. Descrimion of a Male Spectimen.By ALFRED GIBBS BOURAE, D.Sc.,
Professor of Biology in the Presidency College. Madms.
Oer knowledge of the adult form of this worm is still incomplete. It was discorered by Dr. Bancroft, in Brisbane, in 1876 . It has also been found by Dr. Timothy Richards Lewis, ia Calcutta; Dr. Patrick Manson, in Amoy; Dr. Silva Aranjo and Dr. F. dos Santos, in Brazil. Dr. Bancroft's speciments were described by Dr. Speacer Cobbold. Drs. Lewis and Nanson have both given descriptions of Cobbold. Drs. Lewis and Nanson have both given descriptand are
their epecimens. All these epecimens were imperfect, and
stated by Cobbold to have all been females. This authority states in his book (Parasites: a Treatise on the Entozoa of Men and Animals, I879) that the male parasite is unknown. This was not, however, strictly correct, as Lewis in the paper (Quarterly Journal of Microscopical Science, 1879) referred to by Cobbold, states that he found portions of two specimens: the one was about one inch and a balf long, and belonged to a female from which the cauda
extremity had been severed, while the other was a fragment of a male worm. Of this latter he says: "It measured lalf an inch in length, and ra of an inch transversely; it was thinner than the female, but of considerably firmer texture-so firm, indeed, that whilst endeavouring to make out its anatomy a considerable portion of it was lost by one of the needles used for dissecting snapping, and carrying a portion of the worm along with it. On tearing the helminth across, the severed surface does not present a ragged edge, but an eren outline. The male manifested also a great tendency to coil, and it was only with difficulty that it could be separated from the specimen of the female parasite, around a portion of which it had twisted itself. It is unfortunate that its caudal end, especially, could not be found, as the definite decision of the genus to which it should be referred depends in a great measure on the characters which the posterior end of the male worm presents."

Brigade-Surgeon Sihthorpe has had several cases of filarial disease in the General Hospital at Madras, and has always made a search for the adnlt worm; this has hitherto proved fruitless. Recently, however, after an amputation of a lymphoid scrotum, he found two worms which he had mounted and identified as adult blood on the prerious evening. He very kindly sent these specimens to me for examination, and I found that one was a female, while the other was a male. The female specimen agrees very closely with Cobbold's figure, but the vagina is everted or protruded. Dr. Smyth, resident surgeon to the hospital, who mounted the specimens, tells me that the eversion took place during mounting; it is probably a normal act during life. The caudal portion is wanting. The male specimen is about an inch and a quarter long; the anterior extremity is wanting, but the caudal extremity is intact, and presents two spicules. The structure of these spicules will doubtless form a valuable specific character. Unfortunately, only one of these spicules remains in situ; the other has dropped out in the mounting and lies nearly isolated on the slide The spicule is broad at its proximal extremity, and gradually tapers until it becomes capillary in character. About half-way down there is a lateral prominence, and when in situ the spicule is folded on itself so that this prominence forms the actual free extremity of the spicule, while the broad end and the capillary end lie near to one another.

A description and figures of this specimen, which, with the exception of Lewis's fragment, is, I believe, the first recorded specimen of the adult male filaria sanguinis hominis, will be published in an ensuing number of the Transactions of the South Indian Branch of the British Medical Association.

It is interesting to note that in this case, as in Lewis's case, the male and female were found in close contiguity.

## EMPYEMA FOLLOWING PNEUMONLA. ${ }^{\text {. }}$

BY DONALD W. C. H1OOD, 31.D.Cantab.,
Senior Physician North-West London Hospital, and Plysician West London Hospital.

I WIsL to call attention to those cases in which an inflammatory attack connected witl the chest has been followed by anomalous or irregular symptoms. I can of course only hope to touch lightly upon a branch of such a vast subject, and any remarks I may make will relate only to those cases where an acute pneumonia has been followed by purulent effusion.

Is a lung solid with udventitious products or is the pleural cavity charged with Hnid contents? This is a problem which we are often called upon to solre; happily it is one in which in the greater majority of cases we shall have, no doubt, no difliculty. On the other hand, we may be called upon to express an opinion where the clinical course has been shrouded in obscurity, where the symptoms from the first are complex and irregular, where our diagnosis is a matter not only of moment but of difticulty.
${ }^{1}$ Abatract of paper rad before the Mutropulitan Counties Branch, North London District.

The ambiguity which arises in those cases where the ordinary Well-recognised symptoms of pleural effusion or solidified lung are either absent or profoundly modified have occupied the attention of many clinical observers. It is not easy to realise how completely a chest flled with fluid can simulate a lung solid from pneumonia. Lut a short time past we had a good instance of this in the case of a woman admitted into hospital suffering from cough and dyspncea. Iler right side was absolutely duh. On this side was the scar due to her breastarrence of the growth. In this case the entire balance of paysical evidence lent much weight to the opinion that the chest was filled with solid mass; an aspirator, however, quickly settled any doubt, and we found the cavity filled with fluid.

The difliculty in diagnosis is much increased if the primars seizure be of the nature of pneumonia, especially if the attack occur on the right side. A young girl, now in hospital, was admitted on February 7th, I888; she had been ailing about a week, had caught cold and had had a sharp shivering fit. I saw this patient on the afternoon of the day on which she was admitted: monia: respirations between 40 and 50; alx nasi working pneu ously; pulse 130 ; temperature $104^{\circ} \mathrm{F}$. be heard at the base of Beyond some sharp ine crepitation to be heard at the had pain orer this side, but no stitch or catch in breathing. The air appeared to be entering both sides of the chest equally well. The following day there was increase in the area over which fine crepitation could be heard, and the lower two-thirds of the left chest was dull: no bronchial breathing could be detected; there was no expectoration, though frequent cough.

From this time the patient was severely ill, so ill that an accurate, careful examination of the chest was impossible. The lower part of the right lung was implicated in the attack, the consti-

On January $14 t h$, seven days after admission, a thorough examination was made. The left side was dull, with tubular breathing and bronchophony. The apex-beat of the heart could not he felt, but the heart-sounds were heard loudest to the left of the median line. There had been no hectic, no shivering, the temperature gradually falling, and the general condition of the patient had theless the breathing was still rapid and embarrassed. At this time the general condition of the patient suggested the presence of fluid within the chest, though a physical examination almost directly negatived such a view.
On January 17th the girl was seen again. She expressed herself as being much more comfortable, had slept well, and had taken food with appetite. The temperature was now normal, but both pulse and respiration were still rapid. Cough was very frequent, almost paroxysmal, but without expectoration. On this day I dis= tinctiy heard the heart-sounds loudest to the right of the median
line. An aspirator was used, and a pint of sweet pus withdrarn Subsequently a free opening into the chest was made by my colleague, Mr. Durham, about two pints of pus being remored. The patieut has made an uninterrupted recovery.

Another case, bearing on the matter under our notice, occurred to me in the case of a patient admitted under my care into the West London irregularin the clinical course, and the normal physical synptoms of pneumonia were present. There was a rather free expectoration of rusty and blood-stained sputa.

On the seventh day after admission the general state of the patient was sutisfactory. The attack had run an ordinary course, and on the morning of this day the temperature was $99^{\circ}$. The percussion nrote at the lower part of the right chest was toneless. that is, it was more dull than is usually the case from pnemmonic consolidation. The cough was inod the ordinary cough of pnenmonia paroxysmal. We which was paroxysmal and Fithout expectoration may be caused by the presence of a small quantity of Huid within the chest. A hypodermic syringe revealed the presence of fluid, and a small quantity, namely four ounces. Was remored, and proved to be sero-purulent. It was sweet. The following day the few days later was disclarg coush liad gone But lately a child was under my care in the West London HosBut lately a child was under my care broncho-puewmouia. The
illness passed off rapidly; but after all fever and constitutional symptoms had subsided, there remained a rery small patch of dulness at the lower part of the right chest. The heart was not displaced, but there was the same paroxysmal cough as 1 have just referred to. Indeed, so paroxysmal was the cough, that it was suggested that the disease was pertussis, commencing with acute intlammatory symptoms. We determined to explore the dull patch at the base of the lung, and a hypodermic syringe revealed the presence of pus; four drachms were removed. The cough ceased from that moment, and the child was discharged well. Though kept for some weeks under observation there was no return of cough or chest mischief.
Large effusions occurring on the right side of the chest, especially when they simulate solid lung, are doubtless much more difficult to diagnose than when the fluid is on the left side. We do not gain the same help from altered positions of the heart. A large effusion may occur on the right side and the heart beat in its normal position. Of this fact we had striking proof some months past in the case of a poor woman who was admitted under my care. She was sent in for supposed enlargement and disease of liver, that organ being felt below the umbilicus. The enlargement, however, was apparent only, the viscus being displaced downwards by an enormous effusion into the right chest. Although this effusion was sufficient to influenee the position of the liver to such an extent, the apex of the heart was found beating in or about its normal position. A free exit was made for the pus whick filled the chest, and the liver returned to within two fingers' breadth of the ribs.
An interesting case occurred to me a few months ago in the case of a strong young man admitted under my care into the West London Hospital. The patient stated that three days before admission he had been seized with a severe shivering fit, and since the attack had had pain over the chest, with difficulty in breathing. The constitutional symptoms were of extreme severity; no physical symptoms of importance could be detected on admission. During the first week it was impossible to examine the chest with exactness, as the patient being in a state of delirious mania, it was with the greatest difficulty he could be kept in bed. There was, however, a plentiful crop of herpes on the lip. and an expectoration of rusty sputa, the balance of clinieal evidence being largely on the side of pneumonia. The delirious state was followed by a sharp attack of pericarditis, which again prevented a careful examination of the chest; and it was not till after the patient had been in hospital for nearly a fortnight that we were able to estimate the amount of chest mischiff.
Briefly, the physical symptoms were as follows: The right chest was found to be dnll, and over this region tubular breathing and hronchophony were well marked. On February 15th, being twenty-eight days after admission, the following note was made: "The general strength of the patient has improved, but the lung has not cleared up. The right chest is still dull. Vocal fremitus can be felt on this side, the breathing being tubular. The heart beats in normal position, and the liver is not depressed. The clinical evidence is against the presence of fluid."

A week later the physical symptoms were mueh the same. The general condition of the patient was good, his temperature gradually falling. The cough was noted as being peculiar, coming on in whooping-cough-like paroxysms, and unattended with any expectoration. A hypodermic syringe detected pus. Subsequently three pints were withdrawn, a free opening being made into the chest, the patient making a complete and rapid recovery. The cough ceased immediately after the pus was remored.

Perlaps nothing has contributed more to the study of medicine as a science than the knowledge gained by an exact investigation into the natural history of individual diseases: in other wordsthe physiology of pathological processes. We should be in a position to state with confidence the time necessary for the lung. solidified by pneumonia, to become normal tissue. We should know the relation between such a period and the amonnt of tissue implicated in the attack. Some such exact knowledge would doubtless help us in forming an opinion as to the presence of fluid in the chest, more especially in those cases where the ordinary symptoms are modified or ahsent.
Dr. Addison, in his 27 th aphorism, writes: "When serous offusion is very considerable, giving rise to unequivocal bronchophony, tubular breathing, want of resonance and rocal vibration, physical examination has repeatedly led to a mistaken velief that these signs resulted from a pneumonia or other consolidation of lung." That similar mistakes may occur, eren if the

In the case of the two patients whose attacks I have brielly brought before you, there was nothing in the course of the illness per se to indicate, even granting the existence of fluid, that that tluid was pus. They had gone through no process sapping the vital forces. They were strong, in vigorous health, and wellinourished. The attacks were marked by extreme severity at the initial outbreak. There was nothing to indicate a septic influence. There was no hectic, no heary sweats, no fluctuating temperature. At the time wben the first exploratory puncture was made, in the one case it was normal, in the other $99^{\circ}$; in both cases it had been gradually falling. There was no bulging of ribs, no œedema of parietes, no extreme stitch-like pain-nothing, I say, to warrant us in thinking the fluid was purulent. Baccelli's test failed in both instances, for in each whispering pectoriloquy was to be heard with striking intensity. From my own observations I look upon this test as useless, and I have reason for thinking that the vibrations giving rise to the conduction of whispers depend more upon the tension of the fluid than its character. As a gencral rule tension (that is, distension of the cbest) is greater in serous than in purulent effusions: thus we are more likely to bear whispering pectoriloquy in cases of serous effusion. But if, on the other hand, there be a large purulent effusion with consequent great tension, the whispers are as readily conducted as if the fluid were serous.
A paroxysmal cough, more or less of the nature of whooping cough, has been a symptom to which, personally, I owe much help in those cases where the signs of fluid within the chest have been equivocal. My experience is not sufficient to enable me to say with confidence that suclı a cough, remaining after an acute chest attack has subsided, is invariably indicative or pathognomonic of the presence of fluid. But certainly in nine consecutire cases occurring directly under my own notice such a cough was present, and immediately ceased on withdrawing the fluid from the chest. In all cases the fluid was purulent, and, with one exception, each patient made a complete and speedy recovery, the one exception being a young woman whose attack was evidently septic, and followed a miscarriage.
The case of the little child to which I have very briefly referred was of special interest, the amount of pus remored being but four drachms, this small quantity evidently giving rise to the cough which so closely simulated pertussis.

## NOTES ON ANTIPYRIN.

By W. TYRRELL, BROOKS, M.B.Lond., B.A.Oxon., Lichfield Lecturer in Clinical Medicine in the University of Oxford.

It is not my intention to make any remarks on the uses of antipyrin as a febrifuge. Antipyrin has been long used for this purpose, long enough indeed for a host of rivals to have arisen, one of which-I mean antifebrin (acetanilide)-bids fair to displace it. I wish rather to bring before the meeting some account of the various diseases for which antipyrin has been used in which it has a more or less specific action, apart from its property of lowering temperature. Antipyrin has been so largely used, during the last year, more especially upon the Continent, that it runs the danger of degenerating into a universal panacea for all ills. So great in fact has been the demand for the drug, that it is believed that the supply has with difliculty kept pace with it, and complaints are now made that the drug is suffering from orerpopularity, and that its purity is being sacrificed by the makers to ensure a sufficient quantity in the market.
Antipyrin has been very largely used as an anodyne, and a claim has been made for it by Professors Germain Sée and Lépine that it is a reliable substitute for morphine, whilst in cases where morphine is contra-indicated, such as advanced kidney-disease acute gout, or certain forms of cerebral irritation, antipyrin may be given freely to allay pain. It has the great advantage over morphine that it does not cause cerebral symptoms; thus there
not any vertigo nor vomiting, and according to Professor See the use of the drug is not followed by sleep or nerrous stimulation I'rofessor Lépine, however, considers that antipyrin acts both is an anodyne and a nerve-stimulant, so that thongh it relieves paim it at the same time quickens the intellectual faculties of the patient and renders him disinclined for sleep.
Taking his view of the action of antipyrin as an andyne, we may say that it is diametrically opposed to morphine in that it
${ }^{1}$ Read before the Oxford Branch of the British Medical Association.
acts as an anodyne without depressing the higher brain-centres. In only two cases in which I have given antipyrin has it caused sleep, and in these instances I believe the sleep was rather the result of relief from pain than of any somnolent action of the as an anod fact that antipyrin acts as a nerve-stimulant as well wishl to relieve pain and at the same time ensure sleep. The best method in such cases is to follow the antipyrin by a hypnotic, such as chloral.

For the immediate relief of pain the drug should be used hypodermically, and as it is rery soluble in water, a fresh solution may be made by dissolving one of the tablets prepared by Burroughs and Wellcome in an equal weight of water.
The dose for an adult of antipyrin used hypodermically to reliere pain is fire grains. This has been calculated by Dr. Fränkel of Berlin to he equivalent to one-thirtieth of a grain of morphine. The dose may be repeated if the pain he not relieved. Beyond the pain caused by the injection, and a certain feeling of tension which lasts a few seconds, no bad effects have been noticed. The drug usually gives relief in from fifteen seconds to half a minute, and the effect lasts for some hours (six to eight hours-Fränkel).
As an anodyne antipyrin has been used chiefly in herpes zoster, lumbago, ataxia, hepatic and nephritic colic, acute asthma, acute rheumatism, and acute gout.
If given in sufficiently large doses it appears to give relief in the majority of cases. Dr. Fränkel gave it in all cases in which morphine appeared to be indicated, and did not meet with a single failure. Dr. Jennings, of Paris, however, side by side with many cases successfully treated by antipyrin, mentions a case of acute gout which was uninfluenced by the drug.
If given ly the mouth as an anodyne antipyrin must be used in large dosea; thus Professor See recommends a drachm to a drachm and a half in the twenty-four hours, and Professor Lépine 150 grains divided into two doses.

In rheumatism and gout the drug appears to be both sedative and curatire in its action; it not only allays the pain, but in many cases shortens the attack. Professor Sce gare it in fifteen cases of hydrarthrosis which had resisted treatment with the salicylates and also counter-irritation by the actual cautery. In all these cases he found that swelling and pain disappeared in a few days. Dr. Frïnkel gave it in thirty-four cases, with the result that in all lout two there was amelioration of the symptoms and shortening of the attack. In fifteen cases, howerer, a relapse occurred. IIe found that the a verage duration of acute rheumatism with antipyrin was 25 days, whilst with the salicylate treatment it was 35.2 days. Mr. Raymond Johnson tried antipyrin in four cases of acute rheumatism, with the result that it lowered the tempersture in all, but in only one out of the four did it relieve the symptoms. The three cases which were unrelieved by antipyrin yielded to treatment with the salicylates, whilst in the fourth case, where salicylate of soda had failed to relieve the patient, antipyrin readily did so.
To give relief in acute rhenmatism or acute gout, large doses of antipyrin must be giren, I to 2 drachms during the twenty-four hours being a usual dose. As a rule the drug produces free sweating and rapid defervescence. In chronic rheumatism it acts in allaying the pain and shortening the course of the disease. I have given it in a large number of cases of rleumatism, and in the majority I have found it successful. It appears to me to be a remedy which at least should be tried when the salicylates fail or produce disagreeable after-effects, as they occasionally do. Most of the cases recorded in which antipyrin and the salicylate
tre treatment have been used side by side, for the purpose of comparison, yield either to the one or the other, the refractory cases in either section usually yielding to the administration of the other drug. I have not any statistics to prove whether antipyrin is of use in preventing the secondary troubles in acute rheumatism, such as endocarditis.
Antipyrin has been used with great success in nerrous disorders, and I believe it supplies us with a specific for many neuralgic and othcr allied complaints. Its success in the treatment of migraine and ceplalalgia is now assured, and one rarely takes up a medical periodical without finding in it the description of various cases which, after being more or less intractable to remedies for years, have yielded to antipyrin.
In Germany and France especialiy has this drug been used in the treatment of migraine, and to a less extent in England. During the last few months I have used it in the out-patient department and in private practice in such cases with very good results. As
a rule patients return after haring taken the remedy, and ${ }^{\text {ask }}$ pointedly for some more of the same medicine that they had last time, a fact which stamps its ralue at once on one's mind.
In treating migraine with this drug, I beliere the best plan is to use the remedy as a specific against the attacks, and not to administer it continuously. If the migraine be periodic, or if there be a preliminary aura, the drug should be exhibited as soon as possible before the threatened attack. Thus, if an attack be feared for the morning, antipyrin should be given at night, and if the attack still threatens in the morning, a further dose should be administered. In this way the attack generally is aborted. Even if preliminary warning be absent, the medicine taken as soon as the attack comes on either aborts it, or renders its symptoms less intense. In my experience it is very rare for antipyrin to fail to
influence farourably an attack of migraine, and in this ported by almost all of those who have noted on this drag supIt is rarely necessary to give large doses to produce the specific effect. I generally give 5 to 7 grains combined with alkalies and a bitter infusion, to be taken when an attack threatens, and to be repeated, if necessary in an hour. I find that somewhat larger doses are recommended ( 15 to 20 grains), but patients rarely complain that the emaller dose fails.

I have found the drug useful also in those cases of bilious headache, which often occur in patients of full habit, who are addicted to the too frequent use of alcohol. These cases, which generally occur amongst women in a comfortable position in life. yield to the administration of antipyrin; I had the satisfaction of hearing a patient, who has suffered in this way for more than ten yearg, state that at last a remedy had beenfound which reliered ber. Of course the remedy does not touch the root of the evil.
In some cases of cephalalgia, antipyrin relieres for a time, hut at length the patient becomes habituated to the drug, and the relief is less marked. In such cases, either the drug may be increased, or antifebrin or some other of the substitutes for antipyrin may be used.

As antipyrin has so marked an influence orer these nervous complaints, it seems natural to suppose that it may be useful in epilepsy.
Fraty concludes that it has a distinct influence over epilepsy akin to that manifested by the alkaline bromides, but be confesses that large doses must be given (I to 2 drachms daily), and that in a considerable number of cases it has to be given up, owing to the malaise it produces.
I have not tried the drug in many cases of epilepsy, but I was not favourably impressed with the result when I did try it. As a sedative antipyrin has been tried in cases of nocturnal emissions,
and dit has bein and it has been found that 7 to 15 grains administered on going to ing the excessive flow of in many cases. It also acts in diminishpanies spermatorrhcea, and which arises from the hyperxcthesia of the nerrous system. I would renture to think that this drug may be well worth a trial in those cases which so often are found
to exist to exist in young men who have fallen into the habit of masturba-
tion at school, and who, on coming of it, and relinquish the habit, but in whom sperm quently supervenes to a serious extent. I have given it inea frecases with good results, the best plan being to give 10 grains of antipyrin in combination with 10 grains of chloral hydrate at bed time, the patient usually falling asleep shortly after getting into bed, and remaining asleep without disturbance till the morning.
Antipyrin was given by M. Bloch to a neurotic man with a tender spine, who was periodically orercome by attacks of drowsiness, which came on after each meal; these were accompanied by pains in the head and debility. His condition had been imhibition of the ustipyrin in 15 -grain doses given on waking the exA.s., the drowsiness after a few days disappeared, and that at 11 ing nerrous symptoms abated. In this case it acted as a decided nerve stimulant.
The drug has been strongly recommended in cases of chorea by Legroux, who considers it a most rapid, certain, and inoffensive remedy. Ile administered it in six cases, giving 40 to 50 grains daily. All his cases recorered rapidly in from 6 to 27 days. I have not had the opportunity to use it frequently in chorea, but in such cases as I hare used it the morements diminished rapidly. In one child to whom I gare the drug it lad to he discontinued, owing to the cardiac depression which accompanied its use,
Antipyrin has been used with success in spasmodic nerrous disorders such as hay fever and whooping-cough. Dr. Bloch tried it
in a case of hay fever in which cocaine and the bromides had heren given without result. Ire gave it in 30 -grain doses at the hours when the attacks nsually came on, and found that the drug alorted the attacks. After taking antipyrin for some weeks the disease disappeared in this case.
sionnenberger, from an experience of 70 cases in which he used the drug in whooping-cough, concludes that it is a very useful remerly in such cases. Ile gave it to infants in doses of $\frac{1}{2}$ to $1 \frac{1}{2}$ grain three times a day in syrup of tolu or raspberry, increasing the dose to 10 or 15 grains for oller cliildren. The remedy must be used systematically to produce a good result in whooping-eough.
In nervous vomiting, especially in the vomiting of pregnancy, antipyrin is useful. If the vomiting be periodie, the drug should hut given a few hours before the usual appearance of the attack. Iu sea-sickness the drug las been lauded as a specific, perhaps only to have its day as most other specifics for this disorder have had. 3 Hore than one medical man has, howerer, recorded the debt of gratitude he owes to this remedy in crossing the Atlantic, so that it may be tried iu the hope that it may be of use.
Autipyrin lins leen used as a hemostatic in eases of pulmonary haxmorrhage by Dr. Olikoff. Me made a solution of 15 grains to the ounce in water, and made his patients breathe through this for four or five respirations, repeating the use of it every half hour. In all the six cases tried the hemorrhage was diminished. As a hixmostatic for general purposes, antipyrin is too costly a remedy to be employed lavishly, though it has been recommended for epistaxis and other forms of hemorrlage. Herpes zoster and locomotor ataxy have both been successfully treated with antipyrin. Iu locomotor ataxy it appears to act in alleviating the lightning pains and in giving ease to the patient rather than by altering the course of the malady.
Since antipyrin beeame a popular remedy, many cases in which the drug has produced disagreeable effects have been recorded, thougl, as far as I am aware, none of these cases have ended fatally, nor have there been any symptoms whieh have lasted more than a few hours. The eases which I have collected (more than twelve in numher) appear to me to be pure examples of idiosyncrasy. They are usually isolated cases occurring amidst many others in which the same quantity of the drug was administered. They do not appear to depend on the quantity of the drug given, for in one case 4 grains, in another 8 grains, and in a third 15 grains of antipyrin produced symptoms of poisoning, though more than doulle the dose has been given in many hundreds of eases without bad effects. There is, as far as I can find, no special class of cases in which the administration of antipyrin is likely to bring on symptoms of poisoning; but, as it appears in certain individunls to cnuse disagreeable symptoms, regardless of dose, we are likely to hear further of this property it possesses from some of the large number of people who are now taking the drug as a preventive against sea-sickness.
The chief symptoms which manifest themselres in cases of poisoning by antipyrin are certain nerrous sensations, such as restlessness, loss of memory, a feeling of general expansion of the lody, and a sensation of great coldness. These are followed by sweling of the face and the appearance of an erythematous eruption resembling measles-so mueh like it, in fact, that those who have seen cases of antipyrin rash are careful to warn us to avoid the diagnosis of measles in patients taking antipyrin.
The chief points of difference hetween this rash and menales are that it appears but sligbtly on the face, that its chief distribution is on the extremities, that it is non-crescentic in distribution. In many cases it is not accompanied by catarrh of the cyes and nose, but in a few cases catarrl does oecur, and when present It must make the differential diagnosis very dificult. Besides these symptoms, antipyrin may cause diaphoresis, feebleness of the pulse, and general collapse. Gastro-enteritis occurs rarely.
The antidote which removes these disagreeable effects most readily is belladonna, given either as the tincture or in the form of atropine used hypodermically (one-seventieth of a grain).
Conclusions.-1 would venture to think that in antipyrin we have a drug which, though suffering from a temporary overpopularity, is likely to be of use in practice. Its power of relicving migraine and other forms of cephalalgia is, in many cases. magieal. As an anodyne it is particularly useful in those enses wheremorphine is contra-indicated, especially in advanced kidney disease, acute gout, or in the bronchitis of old penple. I do not think that antipyrin is at all likely to displace morphine, as this drug possesses the adrantage of being mueh more powerful bulk for bulk, and hence is more convenient for hypodermic medica-
tion. But a trial of it should he made where morpline cannot be given, or where morphine must be withheld for fear of establisiliing the morphine hatit. In cases of long continued pain in which same anodyne must be given for a period often stretching over years, antipyrin may be found useful as an occasional substitute for morphine when the patient has become labituated to the morphine, and when it otherwise would be necessary to increase the dose of this drug. I regret I have not met with a case in which I could try this, but such cases as locomotor ataxy, or cases of slow paralysis aceompanied by spasm of the muscles, would be suitable ones in whieh to make a trial.
I do not think antipyrin will displace the alkaline salicylates in the treatment of aeute rheumatism, but it is undoubtedly useful where the salieylates have failed, or where they are contraindicated by the disagreeable effects they occasionally produce.
With regard to the ohjection raised against antipyrn that it not infrequently gives rise to symptoms of poisoning, I believe that such is of little ralue. I have given the drug in a large number of cases without meeting with any bad effects from it, and fow of those who have used this drug most largely lay any stress upon this difficulty. One must he prepared to meet with cases of idiosynerasy in the administration of this darug as one has to be with cocaine, morphine, quinine, and other drugs.
By far the most serious objection to its extended use, particularly in hospital practice, is expense. At present, its mnnufacture is in the hands of monopolists, and though the Frenel chemists say they have ascertained its composition and method of preparation, no one at present has sent on the market any nf the drug under its proper chemical name, which is dimethyl-oxiquinisiti, a name which requires some reflection before being added to a prescription.
I have tried antifebrin as a substitute for this drug in several cases of migraine, and though the effect does not seem so certain as when antipyrin is used, yet in many cases it has acted well. The relative expense of antifebrin is much less than that of antipyrin.

## THE USE OF "SALUFER" (SILICO-FLUORIDE OF SODA) AS AN ANTISEPTIC.

BY A. W. MAYO ROBSON, F.R.C.S.,
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A perfect antiseptic for surgical purposes has yet to be found. It must be at the same time a strong germicide, non-poisonous, unirritating to the skin or to the tissues, inodorous, non-volatile, not destroyed by oxidation, non-corrosive to steel instruments, non-injurious to sponges, and inexpensive. In "salufer" (silicofluoride of sodium) we have a substance which would seem to fulfil most of these conditions. Mr. W. Thomson, F.R.S.EDdin., read a paper before the British Association at Manchester last year in which he explained the results of certain experiments he had made with respect to the nutiseptic properties of some of the
fluorin fluorine compounds. He had tried the effects, on flour paste and on meat chopped into small pieces and mixed with water, of a very large number of chemieal compounds, and had found that those which had the most remarkable antiseptie properties wero the componnds of fluorine, the neutral fluorides of sodium, potassium, and ammonium, and their fluosilicates. Fluosilicate of sodn he found to le the best adapted for usc as an antiseptic, it being non-poisonous, inodorous, and sparingly soluble in water. As it had only a very slightly saline taste, he said it might be omMr. Thomson stated that a saturated sunicating any tasto to it. only 0.61 per cent. possessed greater antiseptic power for animal tissue than I in 500 perchloride of mercury solution.
For general surgical purposes 1 have been very well satisfied with perelloride of mercury, which is a most efficient antiseptic, and whieh is so very conveniently carried in the form of pownders, each containing five graing of perchloride and five grains of salammoniae, whieh quantity, dissolved in a pint of water, makes a 1 in 2,000 solution ; but it has the great disadvantages ef roughening and cracking the hands, of corroding steel instruments, and of being poisonous. Hence it is dangerous for syringing out larg cavities-for example, psons abscess; for washing out serous sacs -for example, peritoneum and pleura: or for irrigating the interior of the uterus after gynecological operations or in obstetric practice.

It is chicfly to find a safe and efficient antiseptic for such cases lat lhave during the past few months been using "salufer" most exclusively in my surgical work.
Before describing details of critical cases which incontestably $y$ the value of any antiseptic, it might be well to mention a few the uses to which I have put "salufer"; and, unless otherwise atcd, a solution of 20 grains to the pint of water is always aderstood, which proportion seems to be at the same time unritating and efliciently antiseptic. They are as follows: in ashing out the peritoneal cavity after laparotomy, here using ) grains to the pint; in cases of strangulated hernia; in the idical cure for hernia; in excision of joints; in amputation of le arm, leg, and thigh; in washing out the pleural cavity; in the moval of tumours; in excision of veins; in ligature of blood essels; in compound fractures; in osteotomies; in washing out le bladder; in washing out the uterus after curetting the inrior, and after the removal of septic retained membranes; as a aginal douche before and after Apostoli's operation for fibroid; 1 the irrigation of extensive ulceration in the rectum, where a oisonous antiseptic could not have been employed; in washing ut the stomach; as an injection in gonorrhea (10 grains to the int); as an injection in otorrhcea; in syringing out large pelvic bscesses; as a gargle in hospital and in diphtheritic sore throat; s a nasal donche after removing polypi; for syringing ont emyema of antrum; and in many other cases. My colleague, Mr. iendelack Hewetson, tells me that he has used it extensively in phthalmic and aural surgery, and that he is well pleased with it s an antisentic.
As I have no opportunity of testing "salufer" in obstetric pracice, I have asked some of my medical friends to try it, and their eports have been uniformly satisfactory. My brother, Mr. Herbert tobson, tells me that he has found it most efficient, both in yringing out the uterus and as a vaginal douche.
The following cases, for the notes of which I am indelted to ay lhouse-surgeon, Mr. Berkeley G. A. Moynihan, are given more a detail.

1. Goitre threatening asphyxia. Division of isthmus by galvanoautery. Skin incision four inches long. Drainage-tube intronced, and wound stitched up with catgut sutures. Tube remored n third day. Antiseptic dressings on third, fifth, and eighth ajs, the wound being then completely healed. The highest emperature was on the day following operation, being then $9.7^{\circ}$
2. Strangulated Inguinal Mernia.-After the return of the gut a portion of the Omega loops of Treves) the neck of the sac was igatured with No. 3 eatgut. The wound was syringed out and a Irainage-tube introduced. Dressing on first, third, sixth, and eventh days, the tube being removed on third day. All but the Irninage opening healed by first intentiou. Highest temperature $19.6^{\circ}$, at every other time below $99^{\circ}$.

Double Osteotorny for extreme bowing of the tibiæ. The right ibia was divided on December 8th, and three-quarters of an inch if the shaft of the bone removed. No drainage-tube introduced. The wound was uncorered for the first time on December 22nd, ind found to be perfeetly healed. Highest temperature $100.4^{\circ}$, the sening of the day after operation. Temperature never afterwards eached $100^{\circ}$. Left tibia diviled on December 29th, and an inch and a quarter of bone removed. On January Ilth, when the wound was uncovered, it was found to be perfectly healed. llighest temperature $99.5^{\circ}$. In both cases a catgut stitch was introduced.
4. Faricocele of enormons size, said to reach in summer to the knce. At the operation the veins were ligatured in four places, and the intermediate bundles of reins removed. No drainagelube. On the seventh day the dressing was taken off, and, but for thickening and induration round the veins, the site of the wound could not have been found. Temperature never above normal.
5. Removal of Enlarged Glands of Neck.-Incision two inches Ing; four enlarged glands, tro of them casoous, were removed. Small drainage-tube introduced. Dressings on third, sixth, and ninth days; wound healed by first intention. Highest temperature $90.2^{\circ}$
6. Radical Cure of Varicose Veins of Leg and Thigh.-Two veins of the leg and the internal snphenous trunk were doubly ligatured. the ligatures being about half an inch apart, the intermediate portion of rein not being divided. The wounds, which were not drained, were not dressed till the eighth day, ruming on aseptic course, the lighest temperature being $98.8^{\circ}$.
7. Compound Fracture of Tibia and Fibula.-About half an inch
of projecting tibia was removed, and the tendo Achillis was divided before the leg could be got into good position. The wound was enlarged for about an inch and a half, and syringed out with five pints of " balufer" lotion. The highest temperature was $100.2^{\circ}$ the night after operation, never afterwards reaching $100^{\circ}$; perfectly aseptic course.
8. Radical Cure of Varicose Veins of Leg and Thigh.-Ligatures applied in four places. Dressed on ninth day; course aseptic. llighest temperature $99.7^{\circ}$.
9. Tubercular Salpingitis: Acute Peritonitis.-An incision about three inches long was made through linea alba. Acute peritonitis with effusion was found, and as its cause a ruptured Fallopian tube, covered with miliary tubercles. After removing the diseaked appendage, the peritoneum was wasbed out with "salufer" (grs. $x$ ad Oj ), and a Bantock's tube introduced. The case ran a perfectly aseptic course.
10. Remoral of Scirrhus of Breast, of very large size, together with enlarged axillary glands. The whole breast and about six enlarged axillary glands were removed. The wound was of such large size that it was found impossible to bring the edges into npposition along the central part, where a gap of about threc inches by two inches was left. Wound dressed on third and ninth day. The whole of wound, with exception of central part, was perfectly healed. Highest temperature $95.6^{\circ}$; course perfectly aseptic.
11. Macewen's Operation for Extreme Genu Valgum.-The angle formed by the tibia, with a line continued down in vertical direotion from the thigh, was $75^{\circ}$. Highest temperature $100.2^{\circ}$. Dressing never changed until twelfth day, when the wound was healed.
12. Pyosalpinx.-The abdomen was opened by an incision about an inch and a half in length. The distended and totally adherent Fallopian tube was accidentally burst, a large quantity of the most foetid pus escaping. The abscess carity and the lower part of general peritoneal cavity (the upper being separated off by sponges) were well syringed out with about ten pints of "salufer" lotion (twenty grains to the pint). Keith's drainage-tube introduced. At subsequent dressings the discharge was found to be perfectly sweet. The temperaturc, which before operation had never been below $101.2^{\circ}$, fell after operation to normal, and has remained so since.
13. Lipona of Shoulder.-Tumour, size of large orange, removed January 2ath. Dressed on third day, when the drainage-tube was removed, and on the tenth, when the wound was quite healed. No pus was seen, and temperature normal throughout.

The following are the conclusions to which I have come, after an extensive and varied trial of the fluosilicate.

1. That "salufer" is an efficient antiseptic.
2. That the powder is a strong irritant, even acting as $\Omega$ caustic if dusted on a raw surface, and is, therefore, in that form, unavailable for surgical purposes.
3. That a solution of one grain to an ounce of water is quite strong enough for ordinary purposes, in that strength being apparently unirritating.
4. That a solution of ten to twenty grains to a pint may be safely used to syringe out closed cavities, even where one cannet be certain of all the fluid returning.
5. That the solution is unirritating to the hands, which is no small advantage to those operators whose fingers are easily irritated ly the ordinary antiseptic solutions.
6. That the solution acts on the glaze of porcelain after long use, and corrodes steel instruments, but that sponges are unaffected by it. Mr. Thomson kindly suggested to me the addition of bicarbonate of soda to the solution of "salufer" to prevent it corroding steel instruments; this certainly diminishes its action on stcel.
7. That a very convenient and comfortable antisentic moultice may be made by soaking Gamgee tissue or absorbent wool in a hot solution (ten grains to the pint), wringing it free of excessive moisture, applying it to a wound, and corering with gutta-percha tissue.
8. That although for ordinary surgical work I may still employ perchloride of mercury, in all cases where there is danger of absorption, as in syringing out cavities, I shall employ "salufer."
9. That I believe "salufer" will prove to be of great use to ohstetricians, it being both safe and efficient.
10. That it acts very efficiently as a deodoriser to the bands. After examining carcinoma of the uterus or rectum, by washing and steeping the hands in a saturated solution, the odour is removed more efficieutly than it is by any solution with which I
an acquainted. Messrs. Reynolds and Branson have made some compressed tabloids, each containing forty gruins, that is, suffienough to carry out my wishes in making a dressing of "en good wool.
In all the cases related this"salufer" wool has been the dressin anployed, a Inyer of gauze wet with the "sslufer" lotion covering the wound, and intervening between it and the wool.

## TREATMENT OF CONGENITAL HERNIA.

## Br LEWIS W. Marsifall, M.D.

House-Surgeon, Clildren's Hospital, Nottinglara.
Mr. Trmothy llolnes called attention, in an address on "Children's Hospitals as Medical Schools," which was published in the Joursil of October 30th, 188ic, to the absence of statistics in relation to cougenital hermia and its persistency. Acting upon his suggestion 1 kept a record in 1857 of all cases occurring amongst my lospital patients, and at the commencement of this year tabulated them as follows, namely:


Each of the
Cone cases was treated by the wool-truss ferred to by Mr Mr. Coates, ${ }^{\text {a }}$ of Salisbury, and more recently recause it can so theroughly The method commends itself to us benary intelligence, and efficient means of sumpart mother of orditrivinl cost
In analysing the forty-one cases I find that in every instance one of two things was noted, and sometimes both-either a congenital phimosis existed, or an imperfect urethral opening, and
sometimes both. sometimes both.
lis ving recognised for many years that hindrances of this kind were a common cause of hernia in male children, 1 had not quite realised how rery frequently the two co-existed as cause and effect. That they occupy this position is shown by the speedy circumcision-freeing the prepuce from the glans penis by per by a probe round between them, and maintaining this by passing or when necessary by slitting up the urethra.
Prom the twelve cases entered as " not well," I learn that in all some one or more of these urinary conditions still existed. In one case pertussis was present, in another, obstinate constipation; and in several, malnutrition, with very deficient muscular
development.
We may fair
in which no reply lad been given were carred half of those cases twelve cases still showing a bernia a phimosis had to be treated more energetically than liad been done before, or the urethra was eularged. Considerable objection is often raised to circumcision, and the simpler method of dilatation has therefore been adopted
first in some cases. I mm disposed to think that the importace of the size of the orifice of the urethra has bhent the importance of the size of the orifice of the urethra has been to some extent hands in which circumecision, having been practised by into my hands in which circumcision, having been practised by another lieyed at once hy slitting the prethrater still remains, and is reno mention has been made of urethra. I regret that in the notes my impression is that there were not mor double hernix, but Ali the children were nnder three years of age.

The practical outcome of thris years of age. factor in the production of the thernin is that if the primary dealt with, the uressure given ty the wool-truy recognised and sure closure of the conal when the nutritiol-truss is ample to enprow of the importance of this staternent in reference to As a trition may be quoted the fuct that " breast "babies always do best. Nothing need be said by me about the best form of wool, etc., hecause Mr. l'yy has eo fully described all these details already, and the opinion expressed by him l can endorse.
1 Jite paper by Mr. W. Pye, Jounyal, May 2stil, 1987 .
Mrisnre, MaNselit and Co have forwarded us mezzotint portruits whifl they are puhlishing of Sir Andrew Clurk, Sir Joseph
lister, and Sir Lister, and Sir spencer Wells. The plates, which are $112 \times 9$ inches, are in brownish-hlact upon plate paper , which are $11 \frac{1}{2} \times 9$ inches
proofs have been aporoved proofs have been approved and signed in each case.

## JLINICAL MEMORANDA.

## 1 SEIZURES CAUSED DY oxyurides

## EPILEPTIFOilCULARES in an adult.

VERMOOnNAL (March 24th, p. 642, and March Recemp numbers of the 'distrations of the connection between 31st, p. 700 ) have contained initive attacks. The following casa intestinal irritation and convuly eatitle it to a brief descriphas features of its own which m tion.

In December, 1885, I was first con'achectic appearance. Ile of a much older as well as som consh ten troubled by attacks, complained that for fully a yeur he had terised by momentary growing in frequency and severity, charace throat, and acomdisorders of visquon (chiefly amblyopin); these whroat, thate was al ways panied by an unpleasant odour issuing from theching his bench very brief, the man supporting limeonsciousoccasions falleu firmly. Latterly, however, he had on several ${ }_{r}$ a week free down, and the body had presented convnlsive $m$ a week free witnessed by his family and
from several nttacks, Sunday being bis worst day
The family history exhibited no acknowledged 1ressed him, The patient claimed to have been always a healthy mitted with, the onset of this affection. After I had very closely he alleged however, as to details regarding his bodily state, he auich caused grent hesitation-owing to the delicacy of the subject,
himat he had long been troubled with threadworms, who try the him annoyance only by the itching they produced. ffection. Assuming a possible cause in these rermin, I resolved no con-
effect of treat ment directed agninst them upon his The result twa that directed agninst them upon his other apatient me result was that, for six weeks afterwards, there was linducvulsive attack, though a few of the petit mal seizures. The $n$ imthen became careless of treatment, with the effect of again with, ing the graver phenomena. The same alternation betwee, provement and self-neglect has been the man's history since, on the whole, considerable gain during the past three monthqe of
1 may mention that at one stage I prescribed the bromides, tra the man's broken down condition quickly increased, and on the worst epileptoid seizures occurred during their adminis re tion, and they were soon withdrawn. Dy careful observance dietetic, vermifuge, cathartic, and tonic trentment, the paticnt $\%$ duces his ailment to rare attacks of the minor form, but bas ne
been able to get completely rid of them. Whether by more p been able to get completely rid of them. Whether by more
longed adherence to treatment he might effect cure, or whe that is too much to hope for, taking into account the difficulty
finally exterminatiug the parasites in persons well on in life finally exterminating the parasites in persons well on in life,
also the morbid excitability of the cerebrum acquired by also the morbid excitability of the cerebrum acquiz
subjection to special irritation, I cannot affect to say.
Pertli.

James Fergison, M.B., C.M.

## TONICOLOGICAL MEMORANDA.

## Chemical notes,

A Simple Test to Distinguish the Carbonates from the Bicarbonates of Potassium and Sodium.-A delicate and simple test for
distin distinguishing a carbonate from a bicarbonate will be found in phenol-phthalein. Add a drop of phenol-phithalein solution to a carbonate, and it will be turned to a bright red, but with a bicarbonato there will be no change of colour. I have prepared test-papers ${ }_{1,000}$ which are very convenient; they will detect 1 part of $K_{2} \mathrm{CO}_{3}$, in 1,000 parts of water. These papers may be obtained from Hottershead and Co., 7, Exchange Street, Manchester.
Colour Test for Strychnine. - There are many colour tests for strychnine, but I believe the chromate of zinc used in the samp Way as permangnante of potassium, deserves a place in our text-
books, us it is superior to some books, us it is superior to some. John Brown, L.R,C.P.Lond.
Bacup.

## SURGICAL MEMORANDA.

FAILURE TO FIND TIE COLON IN LUMBAR COLOTOMY.
I.v Mr. H. Allingham's valuable remarks on the causes of failure to find the colon in lumbar colotomy, a considerable difference occurs in the tables of statisties quoted as to the presence or absence of a complete peritoneal investinent or meso-colon on either side. I think there is one circumstance which has a a very important bear-
ig on this condition, and that is the amount of distension of the owel, not only of the large intestine itself, but of the rhole perineal cavity. In the great majority of bodies examined in the 38t-mortem room, where the intestines are collapsed, and espeally in multiparous women, the descending colon is found cometely invested ly peritoneum, with frequently a mesentery of alf an inch or more in length. Now, the effect of gradual disnsion of the gut by the injection of air is (as can easily be proved y experiment) to cause the bowel as it distends to encroach on is mesentery, slortening and separating its two surfaces, the owel at the same time coming into close contact with the abdoinal wall, and this occurs all the more readily if the parietal reections of the mesentery are themselves stretched apart by the oneral distensiou of the peritoneal cavity. For the peritoneal ivestment of the hollow abdominal viscera accommodates itself ) their varying size more by a sliding or a folding movement ian by an actual stretching of the membrane itself.

## , <br> 

Diagram showing the effect of distension of the colon on its peritoneal investment.
With regard to the practical application of these remarks, in the perations I have witnessed no ditticulty has occurred in finding ae bowel in cases where there has been distension, whereas when re borvels have been empty difficulty bas occurred, and in the ist case on which 1 operated a meso-colon of two inches in length ras found ouly after opening the peritoneal cavity. In such cases, hen, if the gut cannot be distended with air at the time of the peration (a somewhat uncertain proceeding) it would be better, 3 Mr. Allingham suggests, to open the peritoueal cavity and draw ut the bowel.
C. J. Lond, F.R.C.S.,

Honorary Surgeon, Leicester Infirmary.

## TREATMENT OF CARBUNCLE.

have tried the expectant treatment of carbuncle recommended y Paget; but find it so long, tedious, and painful to my ratients that I have completely discarded it. The treatment by xcision and scraping is too severe to be generally adopted in priate practice, althongh apparently very successful.
I hare adopted the following for the last three years, to which have added the hypodermic injection of cocaine. I inject iato he carbuncle hypodermically half a grain of bydrochlorate of ocaine, and wait about five minutes until the skin is quite anæsletic ; then I make a small incision into the centre of the carbuncle with a tenotomy knife, and insert a small sharp piece of hotassa fusa, and then push it home. Afterwards a piece of bellalonna plaster is cut circular, a little larger than the carbuncle, and placed over it. The plaster serves the double purpose of reaining the caustic, and of alleviating the pain. This is kept on or eight hours, and then it is taken off, aud hot linseed-poultices re applied for the same length of time. The result is that the دatient always recovers about three days after the commencement of the treatment, which in this way is carried out almost painessly.

Robert Main, M.D.
East Ilsley, Berks.

## GYNACOLOGICAL MEMORANDA.

CASE OF ENCYSTED SEROUS PELYIC PERITONITIS.
Or seven weeks E. R., agred 20, single, had complained of pain all wor the stomach. The pain, felt more especially on the right side, radiated down the inside of the right thigh as far as the knee. This symptom developed at a menstrual period, on the fourth day of the flow, and the hemorrhagic discharge continued hereafter for fourtern days, the usual length of time being scven Iays. The temperature was $101.4^{\circ} \mathrm{F}$. Pain was experienced orior to and during the act of micturition. The abdomen, at first ilightly disteuled, gradually became occupied hy a distiuctly jyriform fluctuating tumour, reaching to above the umbilicus. A plastic deposit in the pelvis could be felt on vaginal examination, close to the cervix ou the right side. The ahdominal tumour and aterus moved en nasse.
The cystic swelling gratually icssened in size, and in tive months had totally disappeared, the only evidence of pre-existiug
inflammatory change being a deviation of the uterus to the right side of the pelris. The encrsted effusion simulated closely an ovarian cyst. James Oliven, M.D., F.R.S.Edin.,

Assistant Physician Hospital for Women, Soho, W.

## REPORTS

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITALN, IRELAND, AND THE COLONIES.

## PUBLIC HOSPITAL, GEORGETOWN, BRITISII GUIANA.

RISE TO EPILEPTIFORM SEIZURES AND PARALYSIS, AFFECTING MAINLY LEFT FACE AND

## LEFT CPPER EXTREMITY.

(Under the care of Aather Rannie, M.B.)
THat cerebral surgery is still in its infancy, few who bave watched its development of late years will be disposed to deny As yet but a small number of operations bave been placed on record as performed for the express purpose of relieving conditions diagnosed as due to localised disease of the brain or its membranes. It is chiefly, therefore, with the view of adding to the statistics of the subject, that I desire to record the folloming case which, however, like all other cases of cerebral disease, has some features peculiarly its own.
The patient was a black woman, aged 3.5, a native of the colony. She was the subject of tertiary syphilis. For about eighteen months prior to her last admission, she had suffered much from iutense pain in the head, referred by her to the right frontal and parietal regions. With this pain, which was irregularly intermittent in character, were associated marked tenderness of the scalp over the regions mentioned, and a discharge from the right ear, both symptoms intermitting with the headache. The ear discharge was usually thin and watery, but occasionally became thick, yellowish, and offensire, and was ascertained to be due to catarrl of the external auditory meatus, there being no evidence of disease of the middle ear or of the bony meatus.
She had also suffered mucl from huzzing and singing sounds in the ears, visual hallucinations, and gloomy dreams. Her whole mental existence became affected, aud about a year ago, whilo being treated in the public liospital for the head pain, her mental condition was characterised by marked exaltation. Since then she had been twice undertreatment here for considerable periods of time, ber mental condition on those occasions being characterised by gloomy despondency and peevishness, due to the painfully distressing bead symptoms above mentioned. The treatment consisted of large doses of the bromide and iodide of potassium, with ferruginous and other tonics, and the application of iodine liniment to the seat of pain. She was last discharged from the lospital about a montl ago, at her own request, being considerably relieved.
She was readmitted at midnight on June 5th, 1887. She stated that she had had a hit, causing her to lose consciousness; that she recovered from the seizure very quickly and walked to the hospital at once. On admission, she seemed a little dazed and confused, but otherwise presented nothing worthy of note. A mixture contaiuing iodide and bromide of potassium was prescribed for her. On the morning of June 7th, while at breakfast, she had an epileptiform seizure, lasting two or three minutes, and accompanted by complete loss of consciousness. While she was being put to bed a second seizure occurred, which was witnessed by inyself. The left angle of the mouth bocame retracted and elevated, and this was accompanied by conjugate deviatiou of the head and eyes to the left side; the left upper extremity then became adducted, the forearm flexed at right-angles with the arm, wrist bent forwards. and fingers flexed upon the palua; left lower limb stiflly extended; the right upper limb was carried above the bead and loosely flexed; the right lower limb was stiflly extended during the tonic stage of the scizure. This stage was rery short, and was succeeded by clonic spusms affecting mainly the left npper extremity and left facial muscles, the left
1 Read at a meeting of the British Guiana Branch of the British Medical Association.
leg being but slightly affected, and the right limbs and right facial muscles not at all. Of the left facial muscles, the orbicularis oculi and the muscles which retract snd elevate the angle of the mouth were mainly affected. There was moderate and equal dilatation of both pupils during the seizure. The clonic spasms persistel for about a quarter of an hour, when they were checked by the exhibition of 30 grains of chloral hydrate. During the clonic stage the patient largely recovered consciousness, and was able to apprehend to a great extent the meaning of what was said to her, and to execute voluntary movements with her right limbs.

After the effects of the chloral had passed off, there was found to he marked paresis of the left side of the face and of the left upper extremity, as also, though in a much less degree, of the left lower limb. There was slight proptosis of the left eyeball, with slight drooping of the npper eyelid. There was a decided droop to the left side during progression.
On June 8th Dr. Williams, Acting Surgeon-General, saw her in consultation with myself, and it was decided to operate with the riew of removing a lesion-probably a syphilitic growth in the membranes-involving the arm and face centres in the right cerebral hemisphere.
The operation was performed by Dr. Williams on June 9th, the patient having had in the mesntime four slight seizures. Her temperature before the operation was $101^{\circ}$, and she complained much of severe head psin a little in front of the right parietal eminence. The site selected for trephining corresponded to the right ascending frontal convolution. With an inch trephine an opening wss made in the skull, which was found to be much thicker than normal and extremely dense. The dura mater beneath was thickened, and on cutting it a small quantity of puriform fluid ran out; this was found to proceed from the centre of a small degenersting gumma in the dura. As the disesse appeared to extend backwards, the trephine was applied agsin, and a halfcircle of bone removed from the posterior edge of the original trephine opening. This was subsequently found to have been unnecessary, as the disease was strictly localised, scarcely extending more than a quarter of an inch beyond the edge of the original trephine opening in any direction. The growth and some portion of the thickened snd diseased dura were remored. Beyond slight local inflammation of the inner membranes, giving rise to opacity and thickening, the brain presented nothing abnormal at the site of operation. A little brain tissue was removed during the operation. The wound in the scalp-a crucial incision-was carefully sewn up, only a small opening being left for drainage. The wound was then dressed rith sublimated lint. Throughout the operation the wound wss irrigated with warm sublimate lotion (I to 1,000 ). The patient passed a good night after the operation, had one slight fit, and slept a little. The head pain was relieved, only a slight gnawing sensation being complained of at the site of operation.
On the day after the operation another slight fit occurred, not accompanied by abolition of consciousness. The left limbs were convulsed in the extended position; left facial muscles involved as before. Paretic symptoms decidedly relieved.
June lith. She had two slight seizures during the night, and fell out of bed.
June 12th. No fits since the day before. She was bright and cheerful, suffered no pain, ate well. There was still marked paresis of the left arm and left facial muscles, more especially of the former.
June 16 th. Ile temperature, which had been fluctuating between $99^{\circ}$ and $101^{\circ}$ for sereral days, suddenly rose to $103^{\circ}$. The wound was dreased for the first time, and found to be nearly healed. A little thick reddish fluid, free from smell, exuded from one of the corners of the wound. It came from the trephine opening, and appeared to consist of degenerated blond. By gentle pressure the trephine opening was emptied of this fluid, and a corner of the scalp wound opened up to allow of free drainage.

June 17th. Temperature this morning $99^{\circ}$. Great improvement in paretic symptoms.

June 30th. The further progress of the case up to this date had been eminently satisfactory. She now walked without the slightest droop, and although motor power in the left upper extremity was still considerahly impaired, slie was steadily improving in this rewpect. The left facial muscles were still lacking in tone to some 4xtent. There was no headache and no tenderness of scsip. No further seizures had occurred. Iler facial expression was bright and cheerful.

The wound was found to be quite bealed at the third dressing, and has given no trouble since then. There has been no tendeney to hernia cerebri since the operation.

Remahks by Mr. Rannie.-So far as 1 am aware, this is the second occasion on which the operation of treplining has been performed in this colony for localised disease of the brain or its membrane. In the early part of last year Dr. Grieve, Surgeon-General, operated npon a woman under my care for the relief of coms and limited convulsive seizures, supposed to be due to meningeal hæmorrhage, but which were afterwards found to have been hæmorrhage,
caused by meningitis. The patient was temporarily benefited by the operation, but after a few days the convulsions recurred, and she gradually sank. The temporsry relief afforded by the operation was doubtless due to the lessening of intracranial tension.
The main diagnostic features of the case I have just related were the existence of active syphilitic msnifestations, the per sistent localised head pain and tenderness of scalp, the symper thetic ear discharge, and the limited nature of the epileptiform seizures and subsequent paralysis. Upon the latter mainly the diagnosis of the situation of the disesse was based, and the result of the operstion tends to confirm, if any confirmation be needed, the doctrines of cerebral localisation.

## REPORTS OF SOCIETIES,

pathological society of london.<br>Tuesdat, May $15 \mathrm{th}, 1888$.


Morbid Growths Committee.-The report of the Morbid Growths Committee on Dr. Griffith's specimen of tumour in the neck was resd by Mr. SHATTOCK. The report stated that the whole of the morbid growth was contained within the vascular system. The occurrence of growths within veins was rare, and the exclusivt
presence of the growth in the veins was, so far as was known presence of the growth in the veins was, so far as was known unique. The growth could not be termed an angeio-sa
was a dendritic sarcoma arising from the vessel-walls.
Dupuytren's Fracture.-Mr. Jonathan Hutchusson, jun. exhibited a specimen of Dupuytren's fracture, removed by tation from a man aged 25. A heary weight had fallen on th outer side of the foot, breaking both malleoli as well as the fibult about three inches from the ankle. The lower fragment had been separated from the tibis, from which it had pulled off a pieceo bone corresponding to the attachment of the interosseous liga ment. The sstragalus occupied the gap thus formed, and the dis tance between the malleoli was increased. Dupuytren's might b regarded as an exaggerated form of lott's fracture; it was 80 rar that few specimens existed in the museums of the United Kin dom, the best being Sir A. Cooper's at St. Thomas's and M Thomson's in Dublin. Dupuytren ststed that it occurred in th proportion of 1 in 200 cases of fracture of the fibula. At th London Hospital it occurred once (possibly twice) to 140 cases Pott's fracture and 210 cases of fracture of the fibula. Forcibl eversion of the foot, which caused the outer border of the astra galus to act as a wedge, seemed to be the usual cause; and gen rally the interosseous ligament tore off its attachment to tibia. The upper fragment of the tibis was retained in positio by the interosseous membrane, and the extent to which the astre calus rose upwards depended on the exact point at which t fibula was broken.
Histology of Cancer and Normal Tiscues after Sterile Incubatio -Further experiments on the infectivity of cancer, by Messr Shattock and Ballance, were described by the latter. After r. ferring to their previous papers on the possibility of maintainin portions of tumour incubated for prolonged periods in the steri condition, the results of microscopic examination of such portio of tissue were related. The cancer tissues were kept continuous at $100^{\circ} \mathrm{F}$., and were found to present, certain peculiar a ppearais which were not observed in healthy tissues thus treate. amination, and logwood and fuchsin were found to be the mo satisfactory stains for showing tho nuclear changes. As a typic example, a specimen of mammary scirrhus after eight days' ster incubation was described. The nuclei of the epithelioid ce were very granular; the nuclear matrix was either slightly stain or colourless. In some of the nuclei there was a distinct netwo (nucleo-plasm). There were also large distinct granules nucleoli; the nuclei had a delicate continnous outline, even wh
projections of the contained granules gave them a spinous In some cases the granules lay free in the cell-protoplasm, it were still counected with the nucleus by thread-like processes. be granules, which raried in size, were round, oval, or commataped. The corpuscles of the fibrous tissue contained a deeplyanned nucleus, and around it the cell protoplasm formed a hazy ne containing granules, which were also found in the fibrous ssue, thickly and uniformly distributed. These appearances were positively stated that incubation was necessary for the producon of this condition, as somewhat similar granules might somemes be ceen in perfectly fresh sections of carcinomata; in some sses the granules in the epithelial cells appeared to have escaped, flecting in the fibrous tissue. The appearances presented by the ements of normal tissue, either before or after incubation, were itirely distinct. The nuclei at first became granular, but wellefined, and presented none of the budlike processes above escribed as granules. After prolonged incubation the nuclei sased to stain, and became indistinguishable from the cell rotoplasm. In the testicle only did a process occur at all mparable to that observed in cancers; the liberation of
jermatozos was normally accompanied by a disintegration of ze nuclei of the epithelium of the nutritive layer; no lading from the nuclei, howerer, had been observed. Althe peculiar appearances observed in cancer, it seemed proable that they had an intimate learing on the local and general ifective processes. It was thought by no means improbable e one meat these detached buds (granules) might by their dissemination ke the sperm of conveying infection to the lymphatic glands, and, f the testicle, be the semen by which the growth was called orth in other parts of the body. In a previous communication he authors had compared the process to that known as "rejuveescence" in certain of the protozoa, and it might be that such uclear particles were capable of subsequent development into ells; or the particles might enter the cells of the organs to which hey were carried, and excite in them a tissue process similar to hat existing in the primary tumour; if this were so they might e called cancerozoa. Or the process might be viewed in relation rith the symbiosis of fungi and alga to produce lichen. Sir ohn Simon, in a private letter, had said: "Substitute for alga a it of normal human body, say a bit of lower lip; substitute for ungus your amoeba, or whatever else it may be ; the cancer which regins in the lip and spreads in its own type through the body is he lichen of that analogy." Gussenbauer (Z. f. Heil., B. ii, 1880) ffectated that the secondary infection of lymphatic glands was fected by small granules, presumably derived from the primary umour, which entered the cells of the glands, and incited them - multiply or to take on the characters of the primary growth. bome cases to Dr. Percy Kidd, Mr. Batlance said that in oest.

Sloughing of the Bladder.-Mr. Bruce Clarke showed specimens from a case of sloughing of the bladder which had occurred in a man, aged 36 , admitted with retention of urine of three days duration. A small catgut was passed up a railroad catheter and retained, three or four pints of urine draining away. Much blood passed, and it was conjectured that the bladder contained bloodclot. Though the urethra admitted a No. IO English catheter five days after admission, the patient was unable to void urine spontaneously, and, in spite of antiseptic precautions, the urine became foul and ammoniacal. A month after admission, perineal cystotomy was performed, but was followed by only temporary improvement: suppuration continued, and he died two months after admission. Examinationafter death showed that the cacum was adherent to the upper surface of the bladder, which was gangrenous in its upper part: there was a collection of pus between the bladder and the rectum, but shut off by adhesions from the general peritoneal cavity. The prostate was natural. The urethra had sloughed round the aperture of the wound. There was no stricture; the kidneys were in a condition of tubal nephritis. Sloughing of the mucous membrane, or eren, as in this case, of all the corts of the bladder, was not very uncommon in connection with central nervous disease, and in pregnant women sloughing took place from pressure, or in consequence of an acute attack of retention of urine, but he had been unable to find any case which was the direct counterpart of the case described.

Sarcoma of the Urinary Bladder.-Mr. Vincent Jacesos showed
a bladder with a sarcomatous tumour occupying its interior. The specimen was remofed from a gentleman, aged 76 , who died twa years and a half after the commencement of the tirst symptom, which was hæmaturia, at first slight and afterwards profuse. The tumour occupied the base of the bladder, covering the trigone and extending forwards to the prostate, the posterior wall of the bladder being unaffected. The growth was single, and although not distinctly pedunculated, yet the attached portion was circumferentially smaller than the free portion. The microscopic examination (made by Dr. Heneage Gibbes) showed that the tumour was made up of rounded cells varying in size in different parts, and a fibrous stroma. Throughout it ran a large number of ressels in direct contact with the cells. In some parts the cells were small and densely packed, and the stroma could only be made out with difficulty; in other parts the cells were large, and the stroma two conditions. The structur parts were intermediate between these parts; that portion containing of the tumour raried in different stroma resembled what had been described as alveolar sarcoma. In other parts it resembled a round-celled sarcoma of the ordinary type, but differed in being much more vascular than they usually were. In the most delicate parts the stroma somewhat resembled that found in myxomata.

Necrosis of the Pyramids of the Kidney.-Dr. TURNER showed the left kidney of an obese female, aged 60 , who died with gangrene of the right foot and leg; she had also glycosuria. The papillæ, with a great part of the pyramids of the kidney, were necrotic, and partially detached from the living tissues, which appeared unchanged up to the line of separation. The organ kidney and the bladder were normal. There was fatty infiltration of the heart and atheroma of the aorta, but no ralvular lesion. Two specimens of similar lesions of the kidney previously exhibited to the Society. Were referred to. The simultaneous necrosis of all the pyramids was attributed to thrombotic ohstruction of the arterioles, due to defect of the general nutrition and to some disturbance of the local nutritive function. The separation of the sequestra instead of their absorption, as in the case of cortical necroses, was attributed to the contact of the necrosed tissue with the urinary secretion.

Peculiar Isolated Fracture of the Shull--Nr. Targett exhibited a portion of a skull showing an isolated fracture of the base of the skull, produced by slight riolence applied to the mastoid region; the patient, a boy, died of suppuratire meningitis; there was an old history of otorrhoea. The fracture ran through the left petrous bone.

Mrlignant Growths of Pleura and Bronchial Glands.-Dr. PITT showed specimens from three cases of intra-thoracic malignant growths. The first specimen was from a woman, aged 6I, who had been ill for one year, with symptoms of chronic chest disease, of blood-stained fluid was drawn off. She had attacks of hemiplegia, first of one side and then of the other, and died. The necropsy revealed a white cuirass-like growth, inrolving the whole parietal pleura on the left side, and the plenral cavity contained blood-stained fluid. The lung ras capped at the apex by new growth, and collapsed throughout, but unadherent below; the bronchial, aortic, pelvic, and inguinal glands were infected; the other lung and the duodenum contained small growths. The growth was a cylinder-celled epithelioma. Dr. litt thought that bable that the growth was a primary affection of the pleura proalso exhibited two specimens of primary cancer of the bronchial glands.-Mr. SHattock thought that few would agree with Dr. Pitt in believing that a columnar-celled epithelioma could originate in the pleura. There were well-recognised primary sources of such crowths within the chest. He would ask Dr. Pitt whether the tracheal and casophageal glands could be certainly excluded as sources of origin of the tumour? Few competent pathologists, he primarily from the pleura. Mr. God Lese endorarcinoma could grow perrations, and supplemented them by observing that the secondary
server tumours were often large and abundant in number after small primary tumours of the intestine.-Dr. Colliser mentioned a case of scirrhous cancer of the pleura without any discoverable primary tumour.-Dr. Percy Kidd had seen cases of carcinoma of the bronchial glands without any primary growths.-3lr. R. W. in the other lung.-Dr. PrTT was alive to the obvious dificulties
in accepting the explanation he had put forward : but the distribution clearly pointed to the growth being primarily pleural.

Charcot's Disease. - Dr. PITT also described the microscopic appearances of the spinal cord from the case of Charcot's joint disease described to the Society by Dr. Collier earlier in the session. The membranes were thickened posteriorly; the cord was shortened and distorted. There was extreme sclerosis of the exterior part of the posterior colunn, and degeneration of Goll's columns. But the most remarkable feature was wasting and degeneration of Clarke's columns on the right side; in places the posterior nerve-roots were degenerated. - Dr. Ormeron asked whether the ascending cerebellar tract were degenerated.-Dr. I'IIT replied in the negative.

Card Specinens.-Mr. Coleman: Polypus of Umbilicus.-Mr. S. Paget: (1) Unusual Fracture of Head of IIumerus; (2) Adenoma of Tongue-Dr. Collifer: Fracture of Longer Pastern Bone of Horse-Dr. Ormerod: Cancer of Gall-Duct.-Mr. V. Jaceson: Stone from Vesical Diverticulum remored by Suprapubic Lithotomy. - Mr. Fexwich (for Dr. Harris): Bilharziac Carcinoma of Bladder.-Mr. Stonhan: (1) Tubercle of Prostate and Vesiculae Seminales: (2) Cancer of Prostate, Prostatectomy ; (3) Melanotic Cancer of Bone: (4) Two specimens of Cancer of Esuphagus necessitating Tracheotomy ; (5) Iæmatocele from difficult Breech Delivery ; (6) Cyst of Peritoneum.-Mr. Battle: (1) Duct Cancer of Breast; (2) Very Early Nalignant Disease of Testis; (3) Sarcoma of Lower Jaw associated with Necrosis.-Dr. B. OConsor: Hydatids of Liver and Spleen.-Mr. Luxs: : (1) Tabetic Foot; (2) Calvaria, Claricle, and Lower Jaw from a case of Osteitis Deformans: (3) Multiple Epiphysitis.-Dr. HebB: (1)Cancer of Thyroid Isthmus: (2) Tuberculosis of Breast.-Dr. Penrose: Anenrysm of the Ileart.-Mr. Shattoce: (1) Two Mammiferous Dermoid Cysts of the Orary; (2) Secondary Duct Cancer of Breast in Ribs.

## CLINICAL SOCIETY OF LONDON. Fridat, Mat Ilth, 1888.

TI. II. Broadbent, M.D., F.R.C.P., President, in the Chair
A Case of Rupture of the Urinary Bladder, in which the Rent icas Sutured.-Mr. Symonns read notes of the case. The patient Was a child, aged 7 , who was thrown from Blackfriars Bridge, ialling into a passing barge on to her abdomen. She was admitted in a state of extreme collapse, and for some time it was feared she wonld die. The abdomen was full and tender, chiefly over the hypogastric region, where was a prominence exactly resembling a moderately distended bladder. No urine having been passed for about six hours, a No. I catheter was inserted. At first a few drops of clear urine were withdrawn, and then a drain of dark blood. Under chloroform a catheter was again introduced, and a small quantity of dark fluid removed. An attempt was made to pass the catheter through a possible rent in the viscus without success. The abdomen was at once opened, for though the catheter passed easily into the bladder, no reduction was effected in the dull prominence in the hypogastric region. A large quantity of dark fluid (having a faint urinous odour) immediately escaped. The rent was not at once found, but on passing a steel sound into the bladder it protruded just below the apex. There an irregular rent, an inch and a quarter long, was tound, involving partly the peritoneal, hut chiefly the extra-peritoneal surface. It was Y-shaped. The fold of peritoneum passing from the bladder to the abdominal wall was much lacerated, and the edges of the bladder were much torn. About twenty Lembert's sutures were inserted, the peritoneum was washed out with weak carbolic acid lotion and perchloride of mercury solution, and the abdominal wound closed. A catheter was tied into the bladder. For a time the child did well. Then the catheter irritated her, and was remored. She never fully recovered from her collapse, passing from it into a restless, non-feverish condition. Fearing an accumulation of urine and inflammatory products, the alidomen was reopened on the sixth day, but nothing was found. Next day urine eacaped through the wound, and the child died on the eighth day. At the inspection a collection of pus was found on the left side of the bladder, extending into the left ilio-lumbar region. The peritoneal part of the wound was soundly healed, but the nou-periioneal part was gaping widely, the sutures baving torn through. The urine had escaped, and liad set up. the suppuration. There was no general peritonitis. There was separation of the right sacro-iliac synchondrosis. In reviewing the case, Mr. Symonds said that he considered the best plan would have been to bave
closed the weritoneal part of the rupture and the rent in the anterior false fiverament, and to have lett the rest of the wound open, with a drain. by i bruised and, though turned in, the muscle did were ragged anu on on it be expected to do so. The case, he pointed not unite, nor collunny ration of the necessity of learing the extraout, was a good illust pare. reut open. One point in the diagnosis was important, the promint urnce representing the bladder was due was important, the promint res, ring passed upwards to auy extent to the urine, the flud not hatrermed a boundary, the pelvic carity being quite empty of borel. -T patie President called attention to the points at issue, and asked frayr the opinion of Fellows on the subject.-Sir Wa, Mac Cormac seeniin the point raised by Mr. Symonds was one of importance. If tutune to be able to suture in self operated upon he had the good for liticture. He thonght that in both the intra-and extra-peritoueal ruphertsund would be the better most cases the closure of the entire wa nav vourable in these cases treatment. The conditions were so far fan on were healthy, and, of injury that the bladder-walls and urine as $i f$ the recorded case therefore, disposed to heal.-Mr. Bensetr salinfirion account of the was an extremely unfarourable one, not only :
extreme shock, but on account of the irregula - and extensire laceration of the bladder. Extra-peritoneal parts parts and provision not heal so readily as those within the peritoneum, did ought always to be made, by drainage, to avert the di equences of the giving way of the extra-peritoneal ound with extravasation of urine and suppuration. - Sir Wra. Mac Cols. ' mac said he had taken it for granted that a drainage-tube was of the peration in such © s - -Mr . SrMoNDS, in rely sid that the non-insertion of the dra $G$ inagetube was a matter of great regret to him, but the wound apfnecrreed to him so securely closed that it seemed unnecessary. He ase onase, that it was a most desirable thing to do, especially in such a yn. where the lacerated and bruised edges were not unlikely to " givlus ses He did not, however, consider a drainage-tube necessary in catnon of intra-peritoneal rupture.

Acute Parenchymatous Tonsillitis, or Quinsy, treated by Cocain
-Dr. de Haviliand Hale read notes of three cases.
labourer, aged n 8 , was admitted into the Westminster Hospit. - jun. September 28th, 1887, suffering from quinsy. He had had twd similar attacks in the last five years. On admission, he had been ill four days. The right tonsil and adjacent soft parts were enormnusly swollen, and he was unable to swallow without the greatest difficulty and pain. On the 30th there was complete inability to swallow, but, after painting a twenty per cent. solution of cocaine freely over the whole of the fauces, the patient was able to swallow some bread and milk. The same night the left tonsil became affected, and the cocaine solution was applied again next day with an equally good effect, and the day following he was able to swallow bread and butter. No suppuracion occurred. The patient left the hospital quite well after being in one week instead of four and three weeks respectively, as on the two former occasions. Case II.-A publican, aged 25, was seen in consultation with Mr. Wright at Kennington on October 26th, 1887. When eeen, the patient's complexion was dusky; he was suffering from some dyspnea and great dysphagia. Both tonsils and the soft palate were greatly swollen, and were covered with a viscid secretion, but there was no false membrane. Pulse $1 \geqslant 0$, feeble. Urine, specific grarity 1030 , loaded with allmmen. The patient's condition was a most anxious one. The thront was swabbed out with a twenty per cent. solution of cocaine. and the application was repeated in ten minutes. Five minutes later, the patient was breathing more easily, and was able to swallow half a pint of egg. milk, and brandy. During the next two days, applications of cocaine rere made night and morning, and one on the third day. The patient gradually improved, no suppuration occurred, and a week later the urine was free from albumen, and he was well. Case III.- 1 porter, aged 39, attended at the Throat Department of the Westminster lHospital on November J6th, 1887, complaining of sore throat and inability to swallow for thirty-six hours. He was previonsly quite well. The left tonsil and adjacent parts were swollen, and there was a yellow patch on'the tonsil. Pulse 88 , fair volume. Temperature $102.2^{\circ}$. The urine contained a trace of albumen. A trentry per cent. solution of cocaine was applied. and the patient was soon able to swallow half a pint of bread and milk. Four days later the patient had no difficulty in swallowing and was practically well. In all three cases, as soon as the patients could swallow easily, tincture of the perchloride of iron, with or without quinine, was ordered. Dr. de Harilland Hall pointed out
at cocsine had a trofold action in these cases; it diminished the
nsibility of the parts to which it was applied, and at the same ne lessened the blood-supply, hence deglutition was mucl faciated. He also thought that it checked suppuration. He adsed the throat to be sprayed out with a solution of bicarbonate sodium, ten grains to the ounce, before the cocaine was applied; this means less cocaine was needed, as it appeared that cocaine :ted more efficaciously in the presence of an alkali. - After some marks by Mr. Stoker and Dr. Alex. Morison, Dr. Semon id he had seen cases in which cocaine had been too freely 1d used then obtained cocaine pastilles from the chemist, ithma, with cough, coryza, etc., being ordered a 10 per cent. dution, procured one of 20 per cent., which she used occasionally two years to the nostril. One night, after so using it, she regular sheep feeling very in, and and had since then had a regular. She recovered after another patient, a gentleman, had Tere poisonous symptoms from the use of only the sisth part $i$ a grain. In fact he (the speaker) was of opinion that some atients could not use it. On the other hand, he had seen a atient suffering from tonsillitis, who had had aphagia for twenty-
jur or thirty-six hours, become able to swallow with some com ort only ten minutes after an application of cocaine to the fauces. -Dr. Hall, in reply, mentioned that last week he had used a 0 per cent- solution of cocaine to the nostril of a young and trong man, who was very strongly affected by it, became faint, ff , alth to lie down for nearly an hour before the enfects passed pplied the solution now with a brush, all the cases in which unoward symptoms had showed themselves haring been when he ssed the spray. He observed that peri-tonsillar inflammation eemed to take place in some cases when practically no tonsillar issue was left. He thought that cocaine was only of use in ollowed its use in follicular tonsillitis.
Complete Bilateral Paralysis of the Focal Cords, the Result of 1cute Laryngitis: Recovery.-Dr. Percy Kidd read notes of this ase. The patient, a pale, thin moman, aged $3 \overline{7}$, the subject of
hronic bronchitis, complained of hronic hronchitis, complained of shortness of breath and loss of ion there was inspirators dyspncea, with complete aphonia, and arsh laryngeal breathing was audible over the upper part of joth lungs. The mucous membrane of the larynx was deeply ongested, and there was much swelling of the ary-epiglottic
olds, ventricular band, and to a iold. In the last situation there was a small yellowish moss ahich could not be detached by coughing. The rocal cords occupied the cadaveric position, and remained motionless during inspiration and phonation. The patient was ordered cold appli-
cations to the throat, ice to suck, later she was much better ; the dyspncea had diminished there was less laryngeal swelling, and the inter-arytenoid fold presented a normal appearance. There tas no trace of the small
yellow yellow mass, probably a piece of inspissated mucus. The rocal cords had to a great extent recovered their power. On phonation still very defosure of the glottis occurred; but abduction was she rapidy recovered, and in three weeks the larynx was perfectly healthy, and the rocal cords had recorered their functions. The want of mobility of the cords was attributed to paralysis of nerre muscles from inflammatory infiltration of the intra-muscular nerre filaments and muscular fibres. Reasons were giren for the swelling of the inter-arytenoid fold, etc., was inadequate to explain the succession of events--Dr. SEmon said he had come to the meeting feeling somewhat sceptical as to the possibility of the existence of a bilateral rheumatic paralysis of the vocal records. Such cases, if followed to their termination, generally ended in the discovery of a central cause for the paralysis. He agreed that there were no a priori reasons why cold should not affect the recurrent laryngeal nerve as it did the facial, though, being hetter protected, the former was less liable to such influence. He said that the order of retrogression certainly supported the diagnosis of rheumatic paralysis, but it was the firit case on record of bilateral paralysis from that cause. The reasoning which Dr. Kidd had hrought forward to prove that the case was not an affection of the laryngeal joints was to him (Dr. semon) quite conclusive.-Dr. Percy Kiod, in reply, said he was
extremely gratified to find that Dr. Semon had no more serious argument to allege against his contention. Necrosis of the Greater Cornu of the Lyoid Bone and of Assio from an Abscess in the Anterior Triangle of the Neck, following Gummatous Ulceration of the Tongue and Perichondritis of Thyroid and Cricoid Cartilages; Profuse Mremorrhages; Pneumonia: Phthisis.-Mr. Ness described this case. The patient, aged 33, was a gentleman who had served with the army in India for a short period. About three years before coming under Mr. Nunn's notice he had suffered from syphilis followed by constitutional symptoms. Tertiary ulceration of the tongue was the chief trouble. The irregular habits of the patient prevented the
steady steady carrying out or any rreatment. At the end of fourteen the larynx three in number, occurred; ultimately, the sequestra above named were discharged from an abscess which formed in the anterior triangle of the neck near the sternum. The aliscess ultimately became a pharyngeal fistula, liquid food escaping during the act of deglutition. Pneumonia set in immediately after the hemorrnages, and finally the patient died of phthisis. The case
was most sedulously watched br Mr. Evans, then of Hobart was most sedulously watched by Mr. Evans, then of Hobart Place,
and by Mr. Edward Semple. After the first hemorrhage, Si James Paget was consulted in respect of ligataring the carotid artery, but the operation was decided against.-DDr. Percy Kidd observed that the patient was said to have had hremorrhage from the throat, and yet afterwards tubercular disease of the lung was discovered. Under such circumstances he did not think the lungs could be quite excluded in searching for the source of the hæmor-rhage.-The President remarked that in a case closely watcherl. as his had been, and where the surgeon was actually yresent, he tain. It was probably a case of phthisis ab hamoptoë: blool sucked into the lungs originating the phthisis.-Mr. Nuss said. in reply, that when sir James Paget saw the patient the question
arose as to whether the hmomarrhage came from the lingu arose as to whether the hæmorrhage came irom the lingual or the
hyoid artery, or some other large vessel. At that time there was only the swelling about the hyoid bone. The hremorrhages were profuse. The hand-basin was half filled with blood, and the patient quite blanched. When the abscess formed at the front of to the conclusion that it was the aded, then he (the speaker) came The lung mischief seemed to have followed the drawing of the blood into the lung.

## harveiay soctety of londor. <br> Thitrsday, May 3rd, 1888.

## f. S. Marr, M.D., in the Chair.

Treatment of Spinal Abscess-Mr. Watson Chexne read a paper on this subject. He said that in these abscesses $\pi r$ had to consider the contents, the wall, and the lesion of the bone from which they started, although the bone lesion could not always be made out. There were three chief types of tubercular disease of the spine: (1) formation of tubercular cavities sequestra, which either material; (2) formation of thbercular grauulations, or were not completely separated: (3) a superficial caries of the bone. The first tro forms were those which weit chiefly associated with marked curvature, while the third form was not necessarily associated with curvature, unless it occurred in conjunction with the others, or spread in along the intervertebral discs and destroyed them; but the third form was more extensire; it was chiefly found than in the case larcer other two. When the osseous lesion approached the surface it involved the periosteum and ligaments, and lcd to the formation of a firm nodule, which, on microscopical examination, was seen to consist of granulation tissue, in which the inflammatory cells were few in amount, but which contained numbers of tubercles. This nodule constantly extended by infiltration of the ueighbouring tissue with similar growth, while at the same time tended to undergo which were present in the centre of the mass trated with exuded fluid, and thus we came to have a cantril collection of broken-down cells and tissue floating in a variable amount of fluid, and surrounded by a Tall composed of new tissue infiltrated with tubercles-in fact, a chronic abscess. The growing
part of the abscess was thus the wall, while the contents were not Pus, properly so-called, but broken-down portions of the wall. nation to present the above appearance, and portions of examilated into guinen-pigs set uppearale, and pertions of it inocuiams did not take any uptuberculosis. The pyogenic organabscesses, as shown, among other things, by the fuct of chronic grow rapidly and luxuriantly in the contents of chronic absees while pus in which they had already grown was no longer a farourable nidus for their development. The bad results following the opening of these abscesses where fermentation was not prevented, would be readily understcod from their pathology. varions synne of the putrefactive organisms gave rise to the were able to grow in the contents or in. The pyogenic organisms camia or pyrmia, and the chronic the wall, and cansc septimight be converted inte a chronic osteomyelitis of the bone later period the continued dangerous acute osteomyelitis. At a up a state of chronic septicromia, and the profuic organisms kept oxhaustion or waxy degeneration the profuse discharge led to considered were two in number-those whichods of treatment the abscess witheut opening it, and those in which to the cure of was opened. Reference was especially made to the results abs tained by injection of these abscesses with iodoform mixed with glycerine, or with iodoform dissolved in ether: and the method of employment and the results obtained by this plan were narrated, the general conclusion come to being that it would be well open the abscess. Details were aiven cases before proceeding to the method of aseptic openine given of the results obtained by the cases referred to having been partly tre of these abscesses, Lister and partly by the author. Statistics of 56 cases Wir Joseph of which 3.2 per cent. healed, and 12.5 per cent died . given, were cases chiefly of psons abscess, but there were also lumbar, dorsal, and cervical. The cases were most numerous lumbar, the ages of 20 and $30: 22$ per cent. of these abscesses recurred at periods varying from eighteen days to three years, but the great majority of these cases had again healed, and the patients remained well. As to the causes of death, 4 patients died of las which attacked a 1 of Whooping-cough, and I of erysipeantiseptic precautions, and which made in the neck without dressings. The latter case was in reality spread under the which died of an accidental attack of a case of cure cases in which septic infection of the wound erysipelas. The discussed, and the causes of this occurre wound occurred were most of these accidents were aroidable the pointed out, and as cesses in future would probably be greater. The average length of time taken in healing was from eight to nine average length or two cascs lasted considerably longer. In some instances tubercular disease existed elsewhere, and a case was narrated in which a number of abscesses occurred in connection with rarious bones and which ultimately get well. The progress of a case under aseptic treatment was then described, and the contrast beween this course and that followed when the wound became aseptic was pointed out, in the case of a patient whose mound in the first instance followed an aseptic course and healed, but who some time later had rccurrence of the abscess, which burst before the patient was admitted to hospitnl. As to the question when these abscesses should be opened, the conclusion come to was that they ought to be treated as soon as possible, for the chances of absorption were very slight, and if abserption did not occur the beeu pointed out and the abscess became larger. It had already the unethods of that in many cases it would be well to employ the position of theform injection for opening the abscess. Is to it as far remored from solurces of important point was to have the case of psoas abscess, either contamination as possible; in neighbourhood of the ans, either in the lumbar region or in the pharyngeal abscesses at the upper and posine, in the case of retromatoid muscle. An importonter and posterior part of the sternowith the absess scess. In subcutaneous and was a very essential part of the aburged that they should he and small chronic abscesses the author in these spinal abser cyst but ing the wall theroughs this was rarely possible, and even scrapportant stmuctures in the vicinity gerous on account of the imabscens wall should the vicinity. Vevertheless, as much of the found great advantage ia touching the mortion which rathor had
with undiluted carbolic acid. The removal of the diseased bone as adrocated by Mr. Treves was seldom feasible, for in the lumbar region the disease was more often a superficial caries of considerable extent than a necrosis, and any attempt to scrape or geuge away the diseased part was impracticable. In the neck this was more feasible, and the possibility of doing good in this way must be borne in mind. With regard to the method of dressing, it must be conducted strictly on the principle of excluding all micro-organisms; that is to say, it must be strictly aseptic. The author was inclined to think that for these abscesses bined them with dressings were the best, though he often comcome into use. The alembroth dressings which had recently septic treatment in these cases, and more especially to the attempts to remedy the mischief so arising by injecting irritating antiseptic solutions. In conclusion, stress was laid on the fact that the patient was also suffering from disease of the spine, and the treatment necessary in each case must be adopted. As a rule it was best to keep the patient in bed in the recumbent posture, with a light apparatus to prevent lateral movement, and to remind him that be must not sit up. As a rule the general health improved during the patient's stay in bed, and it was not usually seen at the conclusion of the case that any advantage was gained by letting them get about.-Mr. Lockwood said he considered the spinal lesion of the most importance, and the abscess but an accident added to it. Rest in the recumbent posture frequently led to ankylosis and cure. He wished to know whether Mr. Cheyne had experience of cases in which rest had been maintained and the abscess left alone; also whether all these cases were tubercular, because their contents produced tuberculosis in guinea-pigs. The question was also raised as to the occasional origin of the disease in the intervertebral discs. The length of time taken by the abscess to heal was an indication of the progress of repair in the spine. If the abscess required opening, antiseptic precautions were essential.-Mr. Cheyne, in replying, said that he had no personal experience of the absorption of these abscesses when the patient was placed in bed in the recumbent posture, bnt he referred to Lacharrière's paper, in which a number of cases of this accurrence Were mentioned; for reasons stated in the body of the paper, the author thought this treatment was injudicious. With regard to the views that the occurrence of tuberculosis in guinea-pigs did not necessarily imply that the material introduced was tubercular he pointed out that the experiments on which such a conclusion was founded had been completely disproved; and that we must look on the occurrence of tuberculosis in guinea-pigs after inoculation as the result of the inoculation of tubercular material. As to whether the disease could begin in the intervertebral discs, he did not deny the possibility of this occurrence, but thought it much more probable that the destruction of the discs was secondary to disease of the bone. As to the point that the length of time taken in healing really implied the length of time for the bone lesion to get well, and that, therefore, the treatment of the bone lesion was more important than that of the abscess, he peinted out that the delay in healing was in all probability mainly dependent on the length of time required for the osscous lesion to get well, but that, however important the treatment of the bone lesion, if the aseptic trentment of the sinus were neglected, the chances of recovery of the bone were very much less. As to the necessity for the spray, he held that it was not essential,

Painful Affections of the Feet.-Mr. Sranonns also read a paper On Some Cases of Painful Feet

## WEST LONDOX MEDICO-CHIRURGICAL SOCIETY Fridat, May 4th, 1888.

C. B. Keetley, F.R.C.S., President, in the Chair.

Cases.-The following clinical cases were shown: Nultiple Exostoses in three members of the same family, by Mr. Bruce Clankr; a case of Nievoid Growth in the Lower Jaw of a Child, by Mr. F. C. Van Boren: a case illustrating one cause of failure after Operation for Fistula in ano; a case of Complete Iridemia, by Mr. Percy Dunn: a series of cases of Diseases of the Conjunctira and Cornea, by Mr. Lasg. Pathological specimens were also exhibited by Mr. Duns.

Cavendish Lecture.-The Charmans anneunced the arrangements for the Carendish Lecture, to be given on Friday evening,
June lst, by Sir William Stokes.

Neno Members.-Messrs. A. C. A. Alexander, J. M. Barbour, G.

Heaton, A. S. MacCausland, S. II. Moore, B. Nowell, and R. D. R. Sweeting were elected members.
Treatment of Piles by Injection.-Mr. Swrnfond Edwands read a paper, in which he gave the results obtained by this method in a hirty-eight cases which he had treated at St. Mark's Hospital for Fistula and in private during the last two years. Of these cases, ten were still under treatment: two had been lost sight of; nine, although still under observation, appeared to be perfectly well; and seventeen had been cured. Three had remained well for nearly two years, and fourteen for periods varying bet ween this and six months. In one case only was there a relapse, and this after a year's immunity. The formula used was carbolic acid gr. xii, glycerine and water aa 3 i . The bowels having been well moved, and the piles being extruded, three to five minims or more of the solution were injected by a hypodermic syringe into the centre of each hemorrhoid. After all were thus ireated, they were returned well above the sphincter, and the patient allowed to go home, being instructed to replace the piles at once should they prolapse. The injection might be repeated, if necessary, at intervals of a fortnight; but, in the majority of cases, once appeared to suffice. As an adjunct to this treatment, it was well to order a laxative iron mixture, and an ointment of the subsulphate of iron, to be passed well up the rectum before and after each stool. The advantages of this method were that the patient was not laid up, but could follow his usual occupation during the whole course of treatment, suffered no pain, and ran no risk to life. lts only disadrantage was that at present one could not say how long the cure would last; for this, many more years' experience would be re-quired.-Mr. CRIPPs stated that his small experience of the method (only twenty or twenty-one cases) did not point to any good results. Those cases which he had heen able to follow had not at all benefited. The introducer of the method had himself now-in consequence of a succession of had cases-modified his views as to the adrisability of the method in all cases.- Remarks were made by the President, Mr. H. Arlingham, Mr. Benhan, Dr. Alderson, and Mr. Benton; and Mr. Edwards replied.
Mernia of the Bladder.-Mr. Keetlex read notes of a case in which the bladder was found in the wall of a hernial sac in the course of an operation for radical cure of hernia. The viscus was punctured unintentionally, but the puncture haring been carefully closed, and care taken that no urine should be left in the peritoneal cavity, the patient recorered without a bad symptom, and was exhibited. It was beliered that similar accidents were not uncommon; and two unreported cases, of which Mr. Keetley had received authentic accounts, were referred to. In each of these tro, a portion of the bladder was cut off, in one case with a fatal result.

## hunterian society.

## Wednesday, April 2jth

R. Clement Lucas, B.S., F.R.C.s., President, in the Chair.

Laryngeal Cancer.-Dr. Dundas Grait showed a case of intrinsic epithelioma of the larynx, which he had brought before the Society last year (April, 185\%). At present, respiration through the larynx could not be carried on beyond a few moments, the roice was nearly abolished, and there was commencing pain in swallowing. One gland on the left side of the neck was much enlarged and hardened. The spreading out of the thyroid cartilage was distinctly increased. Laryngoscopically the growth was seen to have infiltrated the left ventricular band, and to have extended round the interior of the larynx, so as almost to occlude it. There was no extension upwards into the pharynx. Tracheotomy was performed on July 26 th , 1886 , when the disease was progressing with obrious rapidity. The immediate improvement in comfort, and the comparative well-being of the patient, added to the retarded progress of the disease since the operation, gave evidence of the unquestionable benefit effected by tracheotomy, and confirmed the opinion of Faurel, whose statistics showed an average duration of four years in cases of epithelioma of the larynx treated by tracheotomy, against one of one year and four months in those left alone.

Nasal Trephine.-Dr. Dondas Grant then showed the nasal trephine referred to in his paper on Tinnitus Aurium at the last meeting. It was capable of removing cartilaginous or bony outgrowths, and deviating portions of the nasal septum almost instantaneonsly, and with little or no paiu.

Congenital Absence of Iris.-Mr. Geonge Carpentrr showed, for the President, a casc of congenital absence of either iris in
child 3 years of age. The child had marked nystagmus. The fundus oculi was perfectly healthy. Associated with this deformity there had been talipes equino-varus dating from birth, for which he had been operated upon. Ilis mother had internal strabismus on the left side, nystagmus, complete absence of the iris, together with posterior polar cataract, the fundus oculi being normal. IIer occupation was that of a shirt-maker, and she was able to do fine work. The brother and sister of the patient were quite healthy, and there was no history of a similar deformity on either the maternal or paternal side.

Tropho-neurosis.-Dr. Srowens exlibited a rare case of trophoneurosis, characterised by chronic ulceration and atrophy of the nails and nail matrices of the hands and feet, in the person of a woman, aged 67, associated with "glossy skin." The disease commenced thirty-seven years previously, within a fortnight of her second confinement, and was at first symmetrical. She had never had acute gout, although several of the phalangeal joints of the hands were swollen and had been tender. Her father was stated to have had gouty manifestations since his early youth.

Paralysis Agitans:-Dr. A. T. Darres read notes of a case of commencing paralysis agitans (Parkinson's disease). The disease began in a characteristic manner in the hand, and gradually spread upwards, involving the neck, and downwards to the righit leg. The observation of Mr. Parkinson, who, in 1817, first described the "shaking palsy," that the morements occurred in parts not in action, and even when supported, was well illustrated by the case. M. Charcot attributed sudden shock or terror as one of the chief causes of the disease, and this appeared to be the agent in this case. The patient was shown at the meeting.
Skin Affections connected with Rheunnatism.-Dr. STEPHEN Machenzie read a paper on the skin affections connected with rheumatism. After a passing notice of sudamina and miliaria, so often seen in connection with rheumatic ferer, but only indirectly connected with it through the profuse sweating characteristic of the disease, he then dealt with urticaria, showing that, whilst not numerically frequent, there appeared to be some link connecting it with rheumatism, and mentioned a recorded case in which unilateral urticaria and chorea occurred as sequels to rheumatic fever. A few cases of pemphigus have been observed in connection with rheumatism, as also rare cases of exfoliative dermatitis. Coming to the group of erythemata, firmer ground was approached. Erythema circinatum was frequently noticed to concur with acute rheumatism. He had seen erythema papulatum with rheumatic symptoms, and in one case of this affection a murmur resulted, presumably due to endocarditis. With regard to ery thema nodosum, he had elsewhere brought forward strong evidence, he thought, that it frequently coexisted with acute rheumatism, which it might precede or follow; that it might give rise to endocarditis Then no joint-symptoms were present: and, further, he thought it probable that in some cases it might be the sole expression of rheumatism. He fully dealt with purpura in connection with rheumatism. He thought Schönlein's original description of peliosis rheumatica had been much misread, and that great confusion existed on the subject. He therefore discarded the term. He narrated some cases of purpura with acute rheumatism, occurring during convalescence from acute rheumatisnn, and in perions who had previously suffered from rheumatism, as well as cases of purpura of great similarity, but without unequivocal arthritis. The general correspondence of the symptoms in the last group with those of the undoubtedly rheumatic group, was, in his opinion. sufficient to justify their being regardel as rheumatic.-Dr. G. ぶ. Pitt, Mr. F'ennick, and Dr.A. Garnoin took part in the subsequent discussion, and Dr. Stepfies Mackenzie replied.

## Maticilester medical society. <br> Wednesday, May 2nd, 1888.

J. Dreschfeld, M.D., F.R.C.P., Presideat, in the Cha: Complete Destruction of Tongue.-Dr. Thoscas Harris shoned. for Dr. 11. Smppos, a boy aged 14, in whom there bad been complete destruction of the tongue. The boy's frieads stated hiat, eight years ago, ulceration began in the soft palate, and prowedol to almost complete destruction of that part. The affection of the tongue began troo years ago with an ulceration in the centre of the organ, and that ulceration gradually spread towarls the periphers. and destroyed the whole of the anterior part oi the tongue. Fi, months ago stiffness of the lower jaw appeared. At the presel:s time only a very small portion of the root of the tongue existert, the whole of the anterior part of the organ having diss pararel.
leaving the floor of the mouth irregular and studded with small modular elevations. The faucial aperture was small and lozengeshaped, measuring about half an inch vertically and the same transversely, and bounded on either side by thick bands of fibrous tissuc. The boy said he could taste very wcll, but this was found to be true only when he swallowed, since he did not taste either a solution of quinine or of common salt, when these were brushed over the anterior part of the floor of the mouth, until he performed an act of deglutition. It was diflieult to obtain a perfect view of the floor of the mouth, in consequence of the boy being able to separate the incisor teeth only half an inch. The boy showed no other evidence of a syphilitic taint; but a brother, about twelve months his junior, exhibits well marked signs of congenital syphilis.

Intussusception of the Bovel: Recovery.-Dr. Nesmielid showed the specimen; it consisted of about ten inches of the ileum, the cercum, and the valre. The case was that of a married lady, aged 34. On March 10th last, she over-reached herself, and was taken suddenly ill with abdominal pains, a desire to go to the closet, and romiting. When visited, she was partially collapsed. A tumour was found reaching across the lower part of the abdomen, inclining to the right side, but tender and dull on percussion. After an enema on the third day, she passed a large quantity of blood, and the tumour disappeared ; romiting was frequent, and occasionally stercoraceous. On the eighth day the bowela acted apontaneously. The pulse was slow and the temperature nearly normal. On the seventeenth day the slough came away. Recovery has been slow, but she is now able to more about. Treatment: morphine hypodermically and rectal feeding. Abdominal section was consilered, but postponed, the symptoms being at no time sufficiently urgent.

Cystoscoges.-Mr. Whitehesid demonstrated different forms of cystoscopes, and mentioned conditions where their use was inraluable.

Peripheral Neuritis.-Dr. Bury read a paper on peripheral neuritis in acute rheumatism, and on the relation of muscular atrophy to affections of the joints.

## SOUTII INDIAN BRANCII (MADRAS). <br> Frtday, Janeary $13 \mathrm{Th}, 1887$.

Surgeon-Cieneral G. Bidie, M.D., C.L.E., l'resident, in the Chair.
Statistics: Compound Fracture.-Brigade-Surgeon Sinthorpe presented an elaborate series of tables embodying the fullest obtainable particulars of all the cases of compound fractures or compound dislocations of the limbs among natives treated in the Dadras General Ilospital from 1808 to 1886 inclusive. The cases occurred in the practice of ten or twelve different medical officers. There were altogether 115 treated, with 29 deaths. Seven were Mohammedan males, 102 Hindu males, 51 IIndu females, and 1 Syrian male. The injuries were classed as follows:

| Nature of linjury. | Admission. | Recovered. | Died. | Latio Percentage of Death. |
| :---: | :---: | :---: | :---: | :---: |
| Maltiple injurics | 15 | \% | 7 | 8.3 .8 |
| Compround fracture of arm | 5 | 4 | 1 | 2). 0 |
| Compound fracture of forearm | 21 | 18 | 3 | 14.2 |
| Compound dislocation of wrist |  | 1 | - | - |
| Compound fractures of thighs | $?$ | + | 5 | 35.5 |
| Compound dislocation of knec | 1 | 1 |  |  |
| Compound fractures of l'is | ti3 | Su | 13 | 20.6 |
| Total ... | 116 | -6 | $2 \times 1$ | 23.2 |

The causes of the 23 deaths were as follows: tetanns, 13 ; septicamia, 2 gangrent and septicemia, 1 i gangrene, 2 : slock, 6 ; exhaustion, 2 ; fute pnenmonic phthisis, 1 ; no recorda, 2 . It was observed that the mortality from tetanua, which was nearly 1 in ?, was formidable, being greatly in excess of that at Guyis Hospital, whicl was stated by Mr. Bryant, quoting from Mr. Poland's statistics, to have loen 9 in 398 cases of compound frac-tu-e, or about 1 in 44.

Iircision of Tongue-Surgeon F. Clatrence. Smith reported two cases in which he had excised the tongue by Mr. Syme's method, in which ligature was first performed to control hucmorrhage, in the manner kuggested by Mr. Jordan Lloyd. This modification of the operation prevented any acrious hamorrhage, and if the
wounds were dressed with somo preparation of iodoform, laryu gotomy or tracheotomy; with or without occlusion of the pharynx was unnecessary. The only objection was that suppuration fol. lowed in the track of ligature, and Surgeon Clarence Smith proposed in future to use a pad over the skia, over which the ends of the ligatures might be tied. In this way he thought the circula. tion might be effectually controlled, while the puckering of the skin and tissues included in the ligatures would be avoided. It the second case, where the tongue was removed far back, the patient sank from inanition, and it was suggested that in a simila case, where the patient was in a very low condition, it would be better to perform a preliminary gastrotomy.-Surgeon-Majon Drake-Brockman, and Branfoot recommended the operatior with the écraseur, plain or heated, in preference to that performed. Surgeon J. SMYTH mentioned a case in which some lıemorrhage had followed the use of the chain écraseur, and ho had found diffculty in remoring the whole of the growth with the instument He had assisted Surgeon Clarence Smith in the two operations reported, and had observed that there was vers little hxmorrhage. Surgeon Clarence Smiti, replying to an observation made by Mr. Drake-Brockman as to the action of chunam used in chewing betel, said that that had occurred to him as a possible cause of malignant disease of the tongue, owing to the irritation which it produced. He defended his preference for Syme'a operation, as modified by Jordan Lloyd, on the grcunds that the ecraseur did not do away with either primary or secondary hæmorrhage, anc was apt to take away too much or too little; that the galyanic ecraseurs always caused a slough, and that the ecraseur could nol do anything in the region of the tongue which could not be better done with the knife or scissors.

## PATHOLOGICAL SOCIETY OF MANCHESTER. <br> Wednesday, May 9th, 1888. <br> A. W. Stocks, M.R.C.S., President, in the Chair.

Meckëls Diverticulum.-Mr. G. Gibson Manilton (Liverpool described two cases of acute intestinal obstruction due to Meckel's diverticulum. Both had occurred in boys six years of age. Onc had been operated on eighteen hours after symptoms commenced the diverticulum being easily separated from its nittachment to the mesentery. The patient made a good recovery. The seconc case had not been so acute, and was operated on at the end of a week, when the boy was almost moribund. The patient survive 0 only a few hours. A specimen demonstrating how the obstruction had occurred was shown.

Malignant Tumour of Lieng.-Dr. Steell showed a large lympho-sarcoma of the upper part of the right lung, the centre of which had broken down, a cavity being formed. The patient aged 45, from whom the specimen was taken had suffered from hæmoptysis in May, 1887, and from that time lis health bac failed, althongh he had not suffered from congh and expectoration till winter. The physical signs, as well as the foetid sputa and the mode of their expectoration, had indicated the presence of a cavity during life. Centrifugal pressure symptoma had heen well marked. The patient died on March 7th, 1888. No other tumours were found in any yart of the body.

Liver in Phasphorus Poisoning.-Mr. Josepin Collier showed the liver from a case of acute phosphorus poisoning. The patient, a girl aged 20 , died after two days' illness. The liver was large and fatty, not uniformly yellow, but mottled, with reddish patches, as in the slower cases of acute yellow atrophy. The lobules remained distinct. Scetions under the inicroscope showed the hepatic cells to be in a state of fatty degeneration, many being distended hy and converted into large fat-globiles-a condition of things very different from the fine fatty granules found in acute yellow atrophy. There was. no proliferation of bilinry capillaries and infiltration of leucocytes, but the small bile-tubes were seen to be compressed by the enlarged lobules.

Tumour of Kidney.-Dr. IIUTron showed a large tumonr. of the kidney from a girl aged 8 . Microscopic preparations of the growth were also exbibited.

Ipithelial Tumour of the Cornea.-Dr, A. Emiss Jones and Dr. Peter Yates showed specimens and gections from a man, aged 57, first secn iu January, 1885. Three years previously he had suffered from phlyctenular conjunctivitis in the right eye, and little resicles were noticed on the cdge of the cornea. When seen in 1885 there was a diatinct lobulated growth covering nearly the whole of the cornea and the adjoining region of the conjunctiva. The eye was at once ennel ented, and, after ricovery,

Rhinolith of 24 years' growth, removed by erushing; weight, 96 grains.-Mr. Lawrord Knagas: Ovaries, Fallopian Tubes, and Uterus at the close of menstruation--A1.
Sections: 1, Duct Papilloma of Breast ; 2, Iutestinal polypi; 3, Alveolar Sarcoma of Clest Wall.

Antizue Stethoscope. The President showed a very early form of stethoscope, said to hare been used by Mr. William IIey. Me appealed to the members for gifts of obsolete and curious surgical instruments, as a collection was about to be formed of such objects in the museum of the Yorkshire College.

## REVIEWS AND NOTICES

Miscellanea Medico-Chirurgica. Second Part. Occasional Papers and Remarks by E. L. Hesser, F.R.C.S. Oxford Ilorace Hart.
Whether letters to local newspapers, reports of after-dinner speeches, discourses at town council meetings, and anovincial town ephemeral utterances of which a pnblic man in a provincial
delivers himself during a long lite, are worth collecting and pubdishing in a separate rolume is scarcely an open question. But certainly if such a collection must be made, it is well to follow Mr. Hussey's example, and atone for slightness of material by the charming dress in which it is presented. Nothing could exceed the beauty of type and excellence of paper of this little book. 'It is in all respects worthy of the reputation of the Oxford press.
Mr. IIussey has not, we think, been careful of his posthumous
me in preserving and publishing certain of his opinions fame in preserving and publishing certain of his opinions. What, for instance, could be more illiberal, and, indeed, nnjust, than the
following attribution of motives to the Fellows and Members of the Royal College of Surgeons in opposing their demand to be admitted to rote in the election of members of the Council of their owu body? "The men who are calling for the power of voting are Fellows rho are not likely to obtain seats in the Coun-
cil by the vote of the existing Fellows and others who wish to cil by the vote of the existing Fellows and others who wish to get admission, as they now have into the Council of Education and Registration, that they may put down (as they edueation so dear unqualined or irregular practioners, and a son into the profession. In short, they want ', protectiou,' which has been withdrawn from every other calling.

The dietum our author gives on the rentilation of hospital wards is scarcely up to the scientific level of the day-" 1 have not seen any arrangement for fresh air so good ascellence doors, windows, and fireplaces" - while his proof of the excellenee of the Oxford water supply falls very far indeed belrase (' the present defective sanitary conditions of the supply"), repeated orer and over, in rarying words, till people at a distance hare come to believe in it, 1 cannot say that I hare seen any proof offered that the health of people here suffers from driuking that water supplied by the eity. For the last six or seven years I have not myself "drank (sic) any other water." Nor do we think that Mr. Husseys qualified approval of the practice of admitting patients suffering from such fevers as scarlatila into general wards is capable of much defence. little work one or two notes worth recording. The following on medical knights, for instance, is interesting, and will, perhaps, be new to many of our readers. "During my attendance as a pupil at St. Bartholomerr's Hospital, some five and forty years ago, I remember that lonce asked an old practioner some questiou about Sir James Earle and other gentlemen of Het those names were known in connection whith the hospital. ene of the me that it hard heen the custom to knight the senior snrgeon of the hospitals in London; that when it came to Mr. Nincent did the same, and the the honour he deelined it. Mr. Mncent a for the honour. The minister ceased to recommena in possession of the honour has number of inedical practicioners. Passing the baronets and the
beeu declining for some years. knights of the differont orders, it appears from published lists of knights bachelers, to which I have the opportunity of referring. that there were thirty-three members of the mcdieal profession among the number in 1849, and screnteen in 1871. At the present time there are ten, which is less thau a tentio part of the numler of lawyers yow on the list." Mr. Inussey's ante-Iubilee prognestics
members of the same family, Benderiack Hewetson: A large
Fathological Speamens.-Mr. Ben
he was not again seen. It was, however, reported that he died in January, 1886, from cancer in the neck. Nop epithelioma, with cells arranged in traets or cylinders. The stroma was composed of partially-formed fibrous tissuc. At the surface there were a number of small cysts.
Sarcoma of Sarcoma of Choroid.-Dr. A. Emrys Jones and Dr. Peter ball taken from a $a$ woman aged 24 . The eje had been dim for three months, but without pain. On ophthal moscopic examination there Was found on the inner side a large red growt pushing the retina in
front. The translucency of the eyeball was tried according to Lange's method, but with negative results. There was a history of an annt who had died frome cancer of the breast. The growth occupied nearly onc-third . A fer of the spindles were very large,
celled variety of sareoma. and contained two nuclei, and some of the cells were forked and branched at one end.

## LEEDS AND WEST RIDING MEDICO-CHIRURGICAL SOCIETY.

Fridat, May 4te, 1888.
Treatment of Uterine Myomata by Apostoli's Method.--Mr. Maro Robson read a paper on his experience of the treatment of fibroid tumours of the uterus by electrolysis, and gave detaibs of sereral eases. In one case a large tumour reaching to the river two months, during which time a current varying from 150 to 270 milliampères had been applied twelve times. The menorrhagia, which on commencing the treatment required eighteen napkins a fortnight, was reduced to six napkins a month when the patient left. In another case, en operations in three months, varying between 180 and 300 milliampères, for periods of ten minutes each application-the tumour had steadily inereased. In several other eases improvement had been effected and hæmorrhage controlled. In no case had any inconvenieuce resulted from the operatiou. In all cases Dr. Apostoli's directions had been strictly carried out. Mr. Robson thought that in electrolysis we fibroid tumours of the uterus, but that too much must not be expected, for in some eases it seemed to fail to give the slightest benefit. He thought that all cases in which the treatment had been tried ought to be reported in detail, so that the profession so that an opinion might be formed as to what eases were likely to be benefited by it. Ilis own experience led him to believe that henefit was most likely to ensue in cases accompanied by severe hæmorrhage. Mr. Robson had found benefit to accrue from the treatment of endometritis accompanied by menorrhagia, and related a case in illustration where the hremorrhage at a mentrual period lad been reduced from fifty nells, and employen double collector, a rheostat, and a Gaiffe's galvanometer.-Dr. CAMERON pointed out that electric measurements were to a certain extent fallacious, as, according to the shape of the tumour, a
definite definite current might act very differently, aceording as it was
directed through a small portion or widely difused.-Mr. LawFord KNagGs reviewed the published results of the operation. The great differences of opinion on the subject must be due to errors of diagnosis or inexperience in the methods of administration.
The Nature of Cancer.-Dr. Bratrhwatte read a paper on this subject. He reviewed the rarious characteristics of the epithelium eell with regard to position, shape, size, and nutrition, aning cousidered that the abnormal growth was due the being subject to piereed the basement memurane, and therefore bich ofow to conditions allowing of greater nutrition and eo not maligrowtMr. Litruewoon thought the difficulties of the case had not been met by the paper. Encapsulation was no test of malignancy, as shown by the case of lymphosarcoma of the tonsil.-lur. Perny relerred to Professor Hamilton's definition of cnucer as an "ingrowing wart."
that a long string of provincial medical knights would not be made have, as our readers will recollect, proved absolutely correct. The "honour" of knighthood was offered to one or two of the leading members of our profession, who would have graced a peerage, but was otherwise reserved for local butchers, bakers, and quack benefactors, who were thought more worthy of the honour.
It is interesting to get a glimpse of a coroner's view of his office, and especially of its relation to the medieal profession, but we can acarcely say that the glimpse is likely to delay the reform of this, with like survivals of feudul offices, which the advance of the age so imperatively demands. It is certainly the case that Mr. Ilussey "magnifies his oflice," and one can scarcely prevent an amused recollection of "nothing like leather" crossing one's mind as one reads his recommendation that every death from small-por should be referred to the coroner before the death is registered. The action of the Sheffeld coroner in declining to view with his jury the body of a person who died from this disease scarcely seems to indicate that the coroners of the country would view such a duty with much pleasure.

The suggestion that the coroner should be able to summon a medical practitioner for his opinion or for information, to order him to make, if necessary, a post-mortem examination, and to take the evidence of the practitioner on onth before he decides on further action, is a good one if the medical practitioner be worthily remunerated. But Mr. Ilussey's ideas on this point do not seem to be very generous. He says: "While it may be admitted that the fee is not large in return for a professional man's time, it should be borne in mind that it is nearly as much as the coroner gets for work which takes more of his time, and that a medical practitioner is the only professional person to whom a payment is made for the attendance before the coroner; also that it is not thought aound policy by those who are concerned in the administration of justice to remunerate too highly those who are required to give eridence in cases of public inquirs, especially when of a preliminary nature." The imputation apparently conreyed in odious one.
Some other suggestions madc will not, we think, commend themselves to the admiration or acceptance of our readers. We certainly dissent from Mr. Hussey when he thinks "that it is open to question whether the house-surgeon, who is forbidden by the rules of his oflice from engaging in practice, comes within the definition of "being at the time in actual practice." Nor do we helieve that it is the duty of hospital officials in the case where a man has been readmitted with an old fracture of the spine treated tion of the patient's decease, or to do more than give a certificate to the registrar, stating clearly the cause of death. A protest should certainly be raised against the decision of coroners arrived at on a ease of Mr. Inssey's, about which he asked their arinion. The patient died in the Radcliffe Infirmary in May, 1887 (we think it unfair to hare given the exact month of the occurrence). Sho had been operated on without the consultation of all the surgeons to the Inlirmary. She died, and the certificate gave "excision of uterine fibromata" as the cause of death. Mr. Mussey heard rumours of mistakes mande by the surgeons in charge of the case, but came to the (in our opinion, proper) conclusion that crroneous treatment, even if proved, was not a reason for holding itn inguest. Mis brother coroners when consulted, however, arrived at the decision, in which Mr. In ussey seems to hare concurred, that the fact of giving a oo-ealled false certificate of the cause of death was of itself a reason for holding an inquest, and that, if necessary, the body shoulu be exhamed 'for the purpose.

The rest of the book consists of reports of speeches and letters rancerning the management of the Radeliffe Infirmary, and the almission of feter patients gratuitously into its wards (a controversy in which Mr. Hussey seems to hare had the best of the argument but the worst of the final decision), and miscellaneous latters on other subjects, in one of which he supplies a conentry clergyman with a list of rlugs and directions for their administration, with the result that at tho end of eight years the reverend gentleman stood high in the opinion of his parishoners ils a (gratis) practitioner in medicine. Mr. llussey doos not inform us in what light his pupil was viewed by the more regular practitioners in the healing art.

[^73]
## NOTES ON BOOKS.

5helley's Complete Press Directory for 18SS. (Shelley and Co, 5, Leadenhall Street, London, E.C.)-In noticing the present year's edition of this work, there is little more to say than that it merits the good opinions we have already expressed of the earlier folumes, While it contains some additional features which cannot fail to add to its value. It is a well arranged portable volume,
published in cloth at one shilling pubished in cloth at one shilling, giving with completeness the
lists of the morning, evening, weekly, and other newspapers, with magazines and periodicals, to the number of 3,736 , published in
the United Kingdom the United Kingdom.

Sell's Dictionary of the World's Press. (London: Sell's Advertising Offices, Fleet Street. 1888.)-This is a portly imperial octavo volume of over 1,300 pages, published for the low sum of two shillings, and must be regarded as an advertisement in itself. It differs from the ordinary press directories, insamuch as
in addition to the usual liste in addition to the usual liats of newspapera, magazines, monthly, quarterly, and annual publications published in Great Britain, it gives an extensive and useful dictionary of the world's press, The chief publications throughout the four quarters of the globe are noted, with particulars of their circulation, together with some account of their character and politics. To the English press ia given, in most cases, the advertising scale of charges. The value to journalism, such as "Practical of articles on matters cognate to journalism, such as "Practical Hints on the Law relating to
Libels in Newspapers," by W. Blake Odgers, LL.D. "The Rise Provincial Journalism"," by W. Blake Odgers, LL.D. ; "The Rise of a fair idea of the duties devolved upon the editor, the leader writer, the reporter, the interviewer, and the "special." The volume is illustrated by sixty-four portraits of leading editarsEnglish, French, and Anerican-having affixed, in many cases, a
facsimile of their autograph.

1. A Manual of the Operations of Surgery, for the Use of Senior Students, House Surgeons, and Junior Practitioners. Illustrated. By Joseph Beli, M.D., F.R.C.S.Edin. Sixth edition. (Oliver and Boyd. 1888.)-2. Operative Surgery on the Cadaver. By J. J. Garmany, A.M., M.D., F.R.C.S. (New York: Appleton and Co. 1887.)-Profesoor Bella work, having reached its sixth andition, needs but little comment from us. On this occasion the author brings us up to the most modern processes and ideas. May we suggest, in a seventh edition, more woodcuts, and these, possibly, more worthy of the excellent letterpress? Dr. Garmany's work is good enough in its way, and we might have difficulty in finding
fnult with it, so far as its scope in frult with it, so far as its scope is concerned, and it is certainly a Yaluable and reliable textbook for the cadaver. What, however, it may he asked, is the advantage of so many books on operations on the "dead body?" We well rememher an old and esteemed teacher, when We nsked him to recommend us an Operative Surgery, saying: "Oh, take Fergusson or Liston into the dead-house, and make what you can of them." Old-fashioned, perhaps; but
all modern Surgeries deal with the details of all modern Surgeries deal with the details of operation, and are equally a vailable. The plethora of these works is simply yastounding, and aeems to form a sort of basis, and we trust it does, for many an aspirant to practice and fame. But is it not a little orerdone? Many of our aspirants are clever enough at the desk, There is certainly room for an Euglish work on the foreign lines, sueh as Farabouf, Dubrueil, and Chauval. Why does not an
an "aspirant" do it?


A Nunsing Strike at Sireffield.-At the annual meeting, held May 15th, of the Sheffield Nurses' Home, an institution for the provision of trained nurses, it appeared that owing to a dispute rilich had occurred between the committee and the lady superintendent, Miss Cowan, the latter had given three montha' notice to resign her post, and the committee had since received a letter signed by thirty-one out of thirty-eight nurses connected with the home, stating that unless Miss Cowan was asked to remain, and does remain, they will cach tender their notices to leave at the earliest possible period. A resolution was passed approving the action of the committce, and the Mayor, who presided, said there was no need to close the home because of the resigna-
tion of Miss Coman or the nurges tion of Miss Cowan or the nurses. They muast consider \$liss Corwan as dead when her notice expired, and act accordingly.
possessing the advantage of cleanliness, are very slow in action,

# REPORTS AND ANALYSES No 

 DESCRIPTIONS OF NEW INVENTIONS,in medicine, surgery, dietetice, and the ALIIED SCIENCES.

SOLUBLE SACCHARINE. Massrg. Bunnoughs, Wertcome, and Co., whose saccharine tabloids we have already noticed with approval, recognising the inconvenience likely to arise from the comparatively insoluble nature of ordinary saccharine, have sent ns a sample of their soluble saccharine, which is free from the above objection. It cansists of a fine granulated powder, and is put up in a very portable form in a bottle small enough to be carried in the vest pocket, and is conreniently nccompanied by a small measurf it is supplied to the consumer at 2 s . 6d. per bottle.

HYPODERMIC ANTISEPTIC INJECTOR.
We have received from Dr. George Whyte, of Elgin, a hypodermic antiseptic injector, which he informs us was specially devised for
 nse with hypodermic tabloids; but it dermic solutily well for ordinary bypomon ayringe in having an india-rubber pump in place of the usual piston-the pump having a guiding rod passing through its centre, to ensure its working evenly and amoothly. The following advantages are claimed for this instrument, which Dr. Whyte has patented;
"I. There being no piston to contaminate with the solutions, they never come in contact with the glass barrel. 2. It is worked entirely with one hand. 3. As the volume of fluid entering the injector exactly corresponds to the volume of air previously expelled, it is impossible that air can get into the tissues. 4. The injector may be aafely trusted with nurses. 5. It never gets out of order."
The inventor says he has used one for over three years, and it has never once got out of order. The case containing the injector is also fitted with a small glass vessel and rod to make the solutions, and has space for four tabloid bottles. The glasa barrels are conveniently tabulated for ten drops (sufficient for all practical purposes). The following directions are giren for its use:

The instrument should be beld between the first and second fingers, knuckles downwards, with the thumb on the pump. The pump is then compressed, and the point of the needle placed in the solution, and allowed slowly to fill the syringe. A fold of skin is again pinched up, and the needle rapidly inserted. The pump is withdrawn.
In using the tabloids, place one in the glase veasel; then fill the injector with water-warm preferred-and discharge it into the glass vessel, completing the solution by means of the glass rod. If warm water cannot be had, the application for a few moments of a lighted match quickly effects solution, but mostly all the tabloids are soluble in cold water. In recharging the injector, the glass vessel should
With solutions, the injector is first charged with water; then as many drops expelled as is intended to be used of the solution, and then allowed to re-fill alowly from the solution. Two or three trinls will make this an casy proceeding.

The manufacturer is Mr. J. Garduer, $3:$, Forrest Road, Edinburgh.

## NEIF UTERINE DILATOR.

Having experienced the want of a rapid uterine dilator either for exploration of the cavity for diagnostic purposes, as in cases of hremorrlage, etc., or to obtain more roons for the application of curette or ecraseur wire, I have been led to design an instrument ably with those already in use.

Hegar's and Tait'a instruments, though simple in design and
and require the introduction of a considerable number before sufficient room is gained; and Tait's possesses another disadrantagenamely, that of slipping into the uterine cavity altogether when used in cases when the body of that organ exceeds the normal size.

The shape of my dilator being conical like Taits, but curved (in which it differs from his) makes it, I hind, easier of introduction by toucli alone, and combines with this the additional advantage of divarication to the extent necessary to open the cervical canal sufficiently to admit the finger for exploration, one instrument thus doing the combined work of a number.
The cervix being ateadied by either tenaculum book or volsellum, five drops of a 5 per cent. solution of cocaine is injected into the tissue at either side of the os, the needle being made to penetrate for half an inch at least. When sufficient time has elapsed for the absorption of the cocaine, the point of the dilator, warmed and oiled, is then slowly introduced, either by touch alone (which
I prefer) or by sight, the I prefer) or by sight, the duckbill speculum affording a good
view. The dilator being made to penetrate by boring past the inner os, the screw at th penetrate by boring action till past the inner 0s, the screw at the end of the instrument is slowly
turned, as when using the fcraseur, steadying ing the cross-handle at the side, and judging of the amount of force necessary to be used by the resistance offered to the turaing of the screw.

When the dilator is expanded to the required extent, it should be allowed to remain quietly for a minute or so, when the screw can be rotated in the opposite direction, when the blades will close by spring action, and, if preferred, they need not be allowed to close altogether before withdrawing the dilator from the cervix; thus the dilatation of the entire canal from within outwards can be aecured.
Very slight bleeding, as a rule, follows the operation, and a camel hair pencil, charged with a saturated solution of alum in glycerine, 1 find the cleanest styptic. Turpentine can also be used with adrantage, but I strongly object to iron, as it hides the source of bleeding, and by forming clots gives rise to subsequent trouble.
I can generally obtain the full amount of dilatation neceseary for the introduction of the finger in from ten to fifteen minutes, and thus avoid the frequent introduction of a number of dilators. Should 1 wish to keep the cervical canal patulous, either for drainage or subsequent exploration on another occasion. I introduce one of my large-sized, spiral, wire stems, which, I find so useful for preventing the contraction of the cerrical canal after the operation of division of the os and cervix for stenosis.
The dilator can be easily cleaned by being whisked through hot water after use, or a brush applied while the blades are fully
expanded. I'he makers of both dilator and stems are Messrs. Arnold and Sons, whose name is a sufficient guarantec for good rorkmanship. alexander Duke, F.K.Q.C.P.l., etc.,

Ex-Assistant Master, Rotunda MospitaJ.

## HEALTII COCOA.

Messrs. Il. Thonve and Co., Leers.
Turs article represents pure cocoa of the best quality, deprived of part of the fat natural to cocoa beans, and prepared in the manner introduced by Dutch manufacturers. It leaves nothing to be desired as to so-called solubility-that is, it remains in complete suspension when prepared with boiling water or milk-purity, strength, and flavour.

Ayr County Mospital.-This hospital has bencfited to the extent of $£ \% 0$ by the Ayr Charity Cup Football competitions. $£ 90$ was raised for the hospital by church collections on May eth, Ilospital Sunday in Ayr.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS YOR 1888.

Subscriptions to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders should be made payable at the West Central District Office, High Holbern.

## The Gritisif ftedical Journal.

## SATURDAY; MAY 19th, 1888. <br> THE CHARTER OF THE COLLEGE OF SURGEONS.

Tue official announcement made by Sir W. Hart Dyee in the Housc of Commons, and the report which we publish in another column of the proceedings of the Council of the College of Surgeons, will atford to the profession what is probably to the bulk of our readers the sensation of a painful surprise. The Privy Council, under the well-devised official formula of declining to doal with contentious natter, have practically refused ofhand the applications of the Fellows and Members for amendments of the Charter. There are probably few precodents for dealing in this summary way with a petition of so many thousands of the members of a College for the better recognition of their rights in their own corporation. The Privy Council, or rather the one or two distinguished gentlemen who act for it in these matters, received in this case a petition of almost unexampled numbers and weight from tho educated members of a professional body, and a further forinal request from a delegated deputation that if their clams were not admitted they night he heard by counsel in support of them. Nevertheless, it now appears that, without reply from the existing authorities of the College, and even without the usual courtesy of any further communication with the Association of Members, the advisers of the Queen have summarily suaftiod out their claim. Such a course of action calls for immediate and encrgetic protost. The claims of the Members may be right or wrong, but no steps bavo been taken to convince them that they are unfounded either in policy, justice, or larr. No answer of any ant has heen vonchsafed to their arguments or their claims, although these were based, among other things, upon tho strmngest allogations as to the truo constitution of the body whose charters were in question, and ehowed strong reasons for the belief that many matters in the existing organisation amounter practically to an abuse.

The Privy Council cannot have conyinced itself either of the impolicy or of the want of legal basis for theso contentions, since it neither received any answer in respect to them from the promoters of the charter nor afforded any opportunity for a judicial or quasi-judicial consideration of the issues involved. Trusting to the usual fairness and courtesy of great official bodies in auch matters, no discussion has meantime been raised in Parliament, and at this periorl of the sossion it is difficult, if not impossiblo to sbeure the attention of Parlia-
ment to the subject in any offective manner until next February. It is, porhaps undesirable that the Members ahould be driven to enforce the rights thoy claim by any litigation with thoir own College, and especially so as thase clainis are much more largely based upon questions of public policy and general justice than of technical legal right, although the latter would appear not to be wanting.

Even yet, however, it is not too late for Her Majesty's advisers to reconsider their present attitude towards the question. It would appear to be still open to the Members to address an immediate petition to the Court praying that the matter of such petition and of the previous petition signed.hy 6,000 Members of the College already before the Privy Council, may bo remitted to the Privy Council in its judicial capacity for further debate in order that they may advise the Crown with judicial responsibility, after hearing such evidence as the parties interested may desire to produce and the arguments of counsel theroon: We believe that there is nothing contrary to constitutional practice in such a course, although precedents of this precise character'are, of coursé, rare, as are the circumstances, which lead to it. . It' is highly unsatisfactory that so important a question should be burked by an official body, which practically sets aside a claim the equity of which it neither discusses nor decides. It must not be forgotton that even the limited aupplemental charter which it is now proposed to grant will perpetuate and increase that autocratio form of administration against which the bulk of the Members have petitioned and protested, by empowering the existing authorities to hold and adninister even' a larger amount of corpurate property than that which they already possess. The Members can hardly allow the matter to rest here, if they"are well ädvised and properly led.

## THERAPEUTIC STUDIES.

V.-The Clinatic Treatment of Consumption.

Phthisis has been regarded as the greatest scourge which afflicts mankind; for, although it does not inspire as much terror as a severe epidemic passing like a destroying angel through a country, yet it is always insidiously at work amongst us. Under the title, The Erperiences of a Poitrinaire, Dr. Friedmanm, of Berka, has embodied observations on himself and others extending over seventeen years, in pampluet form, as a reprint from the Deutsche Mred. Zeitung, 1887. Dr. Friedmann very clearly lays down the principles upon which the best sanatoria are conducted.
Wo fight against phthisis in three modes, namely, by medicines, by dictetice-which include the patient's whole courso of life-and by climatic influences. But the influenco of drugs upon plathisis is practically nil. Neither benzoate of soda, quinine, kairin, the hypophosphites, nor any other drugs cim be depended upon. Nor is the "prescription-writing physician" helped by the discovery of the tubercle bacillus; on the contrary, this discovery has proved rathor an embarrassment than' otherwise, for it has made the patient very nervous about infoction by tuberculosis in crowded heilth-resorts, even when
hthisical himself. There remain as curative agents dietetics ind climatic influences. The latter of these comprehends the :ormer, for a radical change in the patient's mode of life is immacticable at his own home, aud this radical change is, or should ve, the keynote of the treatment ; hence the extreme importance of a change of climate. But here, again, a wrong choice is disastrous; a winter is lost to no purpose, or more probably, to the patient's deterioration.
Before deciding where the patient is to go, however, we must consider whether or not he ought to go, for it is not pretended that all should go'away. ${ }^{3}$ The following three divisions comprise the group of those who should stay at homenamely, (1) young, uneducated people; (2) acute feverish căses; (3) patients who are so wedded to the routime of bome life as to be unhappy anywhere away from home; and this class is a larger one than is commonly supposed. Of course, no one advises a removal in advanced cases. Where then are the suitable cases to go? The answer is, where they can breathe pure fresh air all day and all night. It is long since established that fresh air is the most powerful factor in the cure of phthisis. The deeplyrooted prejudices against the rivifying breozes, the unreasonable fondness for a hot-house temperature, and the prevalent fear of "taking a chill"," must be discarded. The fear of "catch-: ing cold" is still too much a bugbear with both doctor and patient.' The little vital capacity which the patient possesses should be increased by living as much as possible in the open sir. It is the hardest task of the physician to combat this fear of the patients - namely, of taking a chill-a task which demands all his energies. The patient must be sent out of doors in all weathers, properly clothed, of course. If he perspires he must be dry rubbed, and must ;put on a change of clothing if he is fatigued he unist rest, but, he must breathe fresh air. The bedroom window must be left slightly open too at night, a screen being used if the wind be at all strong. Thase who arerunable to..walk about should use a well-cinshioned and curtained long chair, as introduced by Detweiler, portable beds in fact. Dry frictions are extremely useful at intervals during the day. A certain gradation may be effected from dry rubbing to friction mith a towel that has been wet with spirits of wine; and then partially dried; thence to the application of a wet sheet for a fer minutes, succeeded by dry rubbing, and finally to the cold douche. The food must be abundent and varied in kind; there is no exclusive diet for consunptive patients: Plenty of wine (and even cognace) is recommended by Dr. Friedmann. ff there is anorexia, which does not give way to a good bitter, sucli as onidurango bark, with hydrochloric acid, recourse must be had to milk for a few days, with eggs and brandy if possible. In most of the hotels on the Riviera the dinner is taken at rather too late an honr for invalids; this is easily rectified hy making the nuid-day meal the chief meal of the day.
All this nust be kept up after the pationt has left the sanatorium, which is to he a school of living for the patient. Nothing new or unkown to the medical profession is used in the numerons samatoria in the South of Europe; but the co-eperation
of the minutest arrangements, a life strictly regulated in the smallest details, the "gross im kleinen" - the motto of Detweiler's classic brochure-are accompanied by their inevitable results for good.
The patient must be out of doors at an early hour, and so get an appetite for a good breakfast. ${ }^{1}$ On no account should the thermometer be used by the patient himself, for the attendant anxiety and depression if the reuding is not exactly what it should bo more than counterbalance any advantages. Ore thing more must be escheped, and that is the reading of books on pulmonary disease, whether popular or strictly scientific. The glibness with which patients now talk about "infiltration," and "softenings," and "caverns"-terms which are connected with the strangest ideas in their minds is to be deprecated, becouse such patients are apt to criticise the treatment at every stage. While on this point, it may be remarked that the first stage of phthisis, the most important for treatment, should not be made ton light of to the patient. To call this stage, for example, "merely a slight catarrh of the aper of one lung," is to mislead the patient. On the contrary, he should be told of the danger he is in, so that he may make the necessary. sacifice and radically change his whole mode of life, with a full resolution to employ all his energies in his own cure.
Now as to the kind of air which the patient is to breathe: Dr. Friedmann is of opinion that the hygrometric condition of the air is of more importance than its density. As a rule, a fair proportion of moisture is beneficial, for though mich moisture is somewhat depressing to the nervous system, it has a soothing effect upon the respiration. This question is usually made to turn upon that of the temperanient, and most coses in the early stage of phthisis show the torpid "lymphatic" temperament, though this staterent is contrary to the general opinion, Erethism, however, is a characteristic of all adranced coses, and of aente early cases. But different places vary considerably as to moisture in difforent seasons, and on this and other grounds (témperature, etce.) a changè is occisionally desirable, especially in early summer. High plains and mountans are suitable for all torpid and chronic casos. It is well known that feverish caser do not bear a a residence at the seaside well. The tissuechanges being too nuich stimulated, temperature is a question of less importance, and patients can pass the winter in Europe very well, as the astonishing results at such sanatoria as Falkenstein and Göbersdorf teach us. The bost place in Europe in winter for a consumptive patient is, owing to its exceptional situation,' the Riviera. Italy itself, 'otherwise, from Pisa to Naples, is apt to be very cold in winter; but; sornth of Naples, all is warmith and sunshine again. The Alpine resorts claim attention in early summer.
The consumptive patient, then, is advised by Dr. Friedmann to winter in the Riviera; and, furthier, having gone to so much tronble and expense, not to economise in the wrong direction by dabpling in medicine chests, but to consult on arrival a local physician a follow-countryman for proference, to whom even the, clioice of the hoted should lie left. : By'so doing he will be:
saved the estremes of pessinism or optinism, according to his varying mools, a. hd his life will be regulated for him to the best oulvantage on the principles abore laid down.

## TRANSPLANTATION OF NERVE FROM THE RABBIT TO MAN.

Dr. Gersona, of Vienna, assistant to Professor Billroth, has recently performed a novel and interesting operation-the transplantation of nerve from the rabbit to man. The case has not hitherto been published in any medical journal, but owing to its general interest the bare fact had found its way into the lay newspapers. Our Vienna Correspondent has received from Dr. Gersung a rerbal account of the salient points of this most remarkable operation, which has so far been conspicuously succossful. The patient is Professor von Fleischl, the distinguished occupant of the chair of physiology in the University of Vienna; sixteen years ago he accidentally wounded himself while condueting a post-mortem examination, and serere inflammation of the whole right upper limb ensued. During tho course of the disease the terminal phalanx of the thumb became gangrenous. The stump thus left was painful, and later on re-amputation was performed. This was followed by the formation of neummata. For this condition the branches of the median nerve whieh supply tho thumb were first resected, together with the terminal neuromata, and at a later period, when new neuromata began to develop, the central parts of the same nerves, together with the branches of the radial nerve which supply the thumb, were resected. Fresh neuromata now developed on the branches of the median nerve, which were treated, without any success whaterer, by the injection of hyperosmio acid and electrolysis. Two years ago the neuromata were resected again, and the resection of the nerves was continued as far as the "ligamentum carpi volare;" on this occasion, the branches which supply the radial and the ulnar sides of the index, as well as the radial side of the middle finger, were resected to a great extent. The forefinger now became anæsthetic, except the dorsal aspect of its first phalanx, which, as is known, is supplied by the radial nerve; in the same way the whole radial side of the middle finger became anrasthetic. The pain, however, again recurred, as after the previous operations, and during the course of the second week after the last operation, the patient became aware that a freeh neuroma was doveloping. The suffering finally becamo so severe that the patient wished to undergo another operation, in order to procure, at least, tomporary relief. Accordingly the following operation was performed: On March 4th the patient was put nuder the influence of chloroform, and the neuroma, which was situated behind the volar carpal ligament, was excisod, the nervo being cut through behind the neuroma. The peripheral nervo stumps of the two digital branches abore mentioned were then sought for. A rabbit was now killed, and as long a pieco as passible of tho sciatic nerve of tho animal, with the two brancles into which it hecomes dividod, was dissected from it (the animal still presenting voluntary contractions) Tho sciatic norve was afterwards inserted into the space between the central stump of the median nerve and its digital branches; the central end of the sciatic nerve was sutured to the connectiro tissue whieh
corered the median nerve, and the two branches wero sutured to the digital branehes of the median nerve ; the portion of nerve, measuring about 6 centimètres, which was deficient was thus made up. After the operation severe pain persisted for some hours, but thon entirely subsided. Healing took place by first intention. As two months have now elapsed since the date of operation and the pain has not returned, it may be hoped that the favourable result will become a permanent onc. Sensibility, moreover, is becoming ro-established in the part. Dr. Gersung has postponed the publication of the case, because he wished to observo whether complete sensibility would return; he hopes with confidence that this will bo the case. Tho ultimate result will be awaited with great interest; for if it is as favourable as now appears probable Dr. Gersung's recommendation that the operation should be given an extended trial will doubtless bo widely acted on.

## SANITARY REGISTRATION OF LODGING HOUSES.

AT a recent meeting of the Hastings Town Council, Mr. Councillor Bray moved a resolution of wide public interest, the purport of which was the proposal to establish a system of voluntary registration of houses by the Town Council after examination and report by the borough surveyor or nuisance inspector. The resolution also proposed to grant certificates to such houses as attained, in the opinion of the examining officer, a certain standard of sanitary excellence. After a lengthy discussion, Mr. Bray eventually agreed to withdraw his motion. Whilst acknowledging that Mr. Bray brought formard many cogent reasons for the introduction of such a system into Hastings, it must bo allowed that considerablo weight attacbes to the dissentient riews which were expressed at the meeting. In the first place there is nothing at the present time to prevent lodging-house keepers or house-owners from obtaining such certificates from competent persons, should they desire to do so ; and no doubt they would do so, if the public were in the habit of demanding them. In the second place, it is very questionable if any public body liko a Town Council would bo justified in saddling itself with so onerous a responsibility to the public and to visitors as that for the sanitary condition of houses in the torn, over which it would hare but little real control, but for which it would bo held hiablo should ill-health or disease ensue as the result of occupancy entered into on the strength of tho assurance given as to good sanitary condition by tho Town Council's certificate. Again, as the Mayor pointed out, if Mr. Bray's resolution wero adopted, the Town Council might render themselves liable to house-owners for danages should certificates be withheld when applied for.

Although tho system would bo voluntary and would thereby avoid the ehief defect which eharacterised the Sanitary Registration of Buildings Bill of last session, the discussion which that Bill gave rise to clearly showed that in tho opinion of those best qualified to know, the sanitary officials of a public anthority are not the people to be entrusted with tho examination of houses and the granting of certifieates; the possible abuses of such a system are too obrious. The signs are not wanting that at last the publie is beginning to understand that lodgings at seaside and health resorts are often the lenat
analyst is likely to have to give evidence in support of his analysis, ho must take care to supervise and keep a record of the processes, so as to be able to prove the necessary facts from his own knowledge. The fee for an analysis, provided by Section 12 of the Sale of Food and Drugs Act (10s. 6d.) is certainly inadequate in cases where the analyst has to devote much personal care and trouble ; but that is supposed to be in addition to the presumably satisfactory salary payable under Section 10. As a fact, many of the salaries paid by local authorities are miserably inadequate; but qualified men accept them. They do not devote their whole time to the performance of their duties as analysts, and are not expected to do so. Possibly, if they realise that the position of public analyst entails a greater amount of personal supervision and trouble than has hitherto been deemed necessary, and consequently leares less time for other and more remunerative work, they may cease to be content with the salaries they have hitherto accepted. If so, the local anthorities must pay more, or put up with the services of less competent men. An analyst, while he occupies the position, must discharge its duties properly himself. If he cannot do so, however skilful a chemist he may be, he is useless as an official employed to protect the public health.
Mr. R. Clement Lecas, B.S., M.B., F.R.S., has been appointed Surgeen to Guy's Hespital in the place of Mr. Themas Bryant, F.R.C.S., who has been appointed Consulting Surgeon. Mr. W. Arbuthnet Lane, M.S., F.R.C.S., has been appointed Assistant
Surgeon.
By the resignation of Mr. Henry Smith a racancy has occurred in the senier staff of King's College Hospital. Mr. William Rose has been elected full Surgeon to the hospital in charge of beds, and also Professor of Surgery in the College. Mr. Rese has long been known as an able surgeen and teacher, and there is ne deubt that his accession to the staff will prove a source of strength to the hespital and school.

THE MARSHALL HALLPRIZE: THE ADDRESS. It has already been announced that the Marshall Hall Prize of the Reyal Medical and Chirurgical Society has been awarded te Dr. W. H. Gaskell, F.R.S., Lecturer in Adranced Physiology in the University of Cambridge. A special meeting of the Society will be held on Thursday next, May 24 thl, at 8.30 p.as., when Dr. GaskelF will give an address on "The Relations between the Function, Structure, Origin, and Distribution of the Nerve Fibres which compose the Spinal and Cranial Nerves."

A HOSPITAL POLL-TAX FOR ST. PETERSBURG. It has been resolved by the Duma or municipal sutherity of St. Petersburg te impose a tas-that is, if the Czar will permit-on all the inhabitants over serenteen years of age, with certain cxceptions, for the maintenance of the hespitals. The ameunt proyosed is two roubles a head for men and a rouble and a half a head for women. (The value of the rouble is a little under twa shillings.) All persons paying this tax will be entitled to free treatment in the hospitals they are thus to be compelled to support. There is a great outcry new that the hospitals are too full, and that numbers of deserving cases are refused admission. If almost every inhabitant is to be led to consider that he or she has an ahselute right to admission, an immense increase in the accommodation at present available must be made, and the field open to private practitieners will certainly be greatly reduced. Many of these gentlemen have now a serere struggle for existence, and
sistants in their laboratories, and get the greater phere the
work of analysis done ly them. In cases, however, where
sirable abodes for those who are in search of health. The ly possible remedy for such a condition of things is so neral an enlightenment as to sanitary matters, that the inaside, will require to be satisfied as aparments at the drainage and water supply of the house before he trusts mself or his family inside its walls.

## THE LAW AS TO WATER ANALYSIS.

Section 21 of the Sale of Food and Drugs Act, 1870, at te hearing of the information against a person charged with the analyst shall be sufficient evidence of the facts there uated, unless the defendant shall require that the analyst aall be called as a witness." As a matter of practice we beeve that it is rare for this requirement to be made, as the isting on the presence of the analyst. Certificates are no loubt generally correct, but the disclosures made in a case ecently heard before the magistrates at Birmingham show equirements. The summons was under Section 70 of the ?ublic Health Act against the owner of a well, which was lleged to be so polluted as to be injurious to health. Under that Act there is no provision making the certificate of an zalyst evidence, and the condition of the incriminated well had therefore to be proved, like any other material fact. Dr. inl, the borough analyst of Birmingham, was called as a the ans to prove the water to be pla there was a dangerous proportion of nitrates and nitrites in the water, and that the well was to some extent contaminated with urine. Dr. Hill, horever, on cross-examination, admitted that he had not conducted the whole analysis himself, and could not say which part of the process he had person-
ally con it. He aled, though he said he took the responsibility of not say the well was actually injurious to health, as there was no proof of any person having been injured ; but it was certainly dangerons, and might be injurious at any moment. The Bench therefore dismissed the case, on the ground that the prosecution had failed to show the well to be so polluted as to be injurious to health.

The decision may be right as a matter of law, but the consequences may be serious. On this principle the Broad Strect pump could not have been condemned till after it had spread death and derastation. If magistrates refuse to hold that a well which is contaminated by organic matter is dangerous entil it has actually become specifically poisoned and has infected a neighbourhood, public health in such places stands on a rickety basis. There is, moreover, another moral to this case. The law, for obrious reasons, requires facts to be proved by persons who know them of their own knowledge, and have not derived them by hearsay from others. Dr. Hill stated that he had so many analyses to conduct that ho could not afterwards say that he did any one part of any particular analysis. Probably, most analysts of any reputation have assistants in their laboratories, and get the greater part of the
such a wholesale attraction of the inhabitants to public institutions appears calculated to wipe the poor private practitioner almost ont of existence.

## LANOLIN IN CUTS AND BURNS.

A recent article in the Pharmaceutische Rundschau (N゙o. 3, March, 1838) states that experience has shown that lanelin is an excellent dressing for cuts and burns. l'rofessor B. Fränkel finds that it prevents the formation of scabs, and that burns under this treatment do not desquamate so much as under most others. In cases where it is desired to irrigate a wound, in order to reduce heat and irritation, lanolin may still bo spplied, as it is not readily washed away. If a small wound is immediately dressed with this ointment basis, hemorrhage is stopped.

## THE SUMMER LECTURES AT THE COLLEGE OF . SURGEONS.

We have already noticed that Mr. Bryant will lecture on . Tension as met with in Surgical Practice; on June 11th and 13th; and on Surgical Interference in Cranial Injuries, on'June 15th. 零 Mr. A. E. Barker will deliver three lectures on the Operative Treatment of Tubercular Diseases in Joints, on Monday. Wednesday and Friday, June 4th, 6th, and 8th. Mr. R. Marcus Gunn? will lecture on Light-Percipient Organs, on Monday, Wednesday, and Friday, June $18 \mathrm{th}, 20 \mathrm{th}$, and 22 nd . It is important for all who wish to sttend some of the abore courses that they should bear in mind that each lecture will begin at 5 o'clock in the afternoon, and not at 4 o'clock, as before.

## DONDERS MEMORIAL FUND.'

The ceremony at Utrecht on May 28th, to celebrate the seventieth birthday of Professer Donders and his consequent retirement from the professorship, will commence at 1.30 p.M. The sum-collected, together with the roll ${ }^{\text {º }}$ of subscribers, will be formaliy presented. A public dinner will be held at half-past 5 . After the ceremony of presentation, the Professor will name the scientific purpose to Which he proposes that the fund shall be applied. The complete list of subscribers from this country is to be seen in our advertising columns on page 55 , in the order in which they have, beeu receired. Any subscriber may verify the amount of his subscription by applying to Mr. Brailey, 11, Old Burlington-Street, where the audited list may he seen. The total amount collected here is £2s0 11s. 10d. l'rofessor Iumphry, Dr. Hughlings Jackson, Mr. Iutchinson, and Mr. Brailey have been invited to attend ns delegates to represent the subscribers, and it is hoped that many others also may be able to sttend and by their presence do honour to Professor Donders.

## MYXCEDEMA.

We learn with satisfaction that the Committee appointed by the Clinical Society of London to study the nature of myxodetona has concluded its labours. The inquiry has been in progress for three or four years, and has proved a very laborious undertaking, as the Committce took a rery serious view of its duties, and has Worked earnestly to give a thorough snswer to the question, "What is myxceclema?" A short summary of the report will be read by Dr. Ord at the meeting on May 25th, when there will doubtless be a full gathering of members, especially ns it will be the lnst meeting of the session. The Clinical Society, by the preparation of this report and of similar reports on Charcot's jointdiscase and on spina bifida, have established a good precedent: the study of euch complicated clinical questions is an enterprise well within its province, though involving much labour, trouble, snd some expensc. To Dr. Ord, chairman of the Committee, and to Dr. Iadden, the honerary secretary, on whose shoulders a large sliare of the work has fallen, the warmest thanks are due. The
report will, we understand, be issued as a separate volume, an will be purchasable by persons who are not members of th Society.

## SIR WILLIAM JENNER.

In order to show the highest mark of the respect of the Fellow of the Royal College of Physicians, the chief oflicers of th College attended at Sir William Jenner's house on May llth $t$ present to him the resolution conveying the thanks of the College which was passed on April 26th. The President (Sir Andrer Clark), nccompanied by the Senior Censor, (Sir Alfred Garrod who had proposed the resolution in the Comitia, Dr. Qunir the seconder of the resolution, and the Registrar (Sir Henr, Pitman), constituted the deputation. Sir William Jenner wa deeply gratified at their risit; and, in reply, stated, amongst othe things, that it had always been his object never to endeavour $t$ do more than one thing at the time; first, as an investigator secondly, as a teacher; thirdly, as a practitioner. Speaking 0 the College, he said that he hoped the time would never com when the Fellows would be chosen by examination alone, but tha the character of the candidates for the Fellowship and their rela tions to the public and the profession, as well as the mere mritin! of scientific papers, should, in his opinion, form conditions fo the Fellowship.

## THE WORK-ROOMS AT THE COLLEGE OF SURGEONS.

An advertisement inviting Fellows and Members of the College tu apply for the privilege of making use of the work-rooms has re cently been issued. The following ", Conditions relating to the us by Fellows and Members of the New Work-Rooms at the College have been drawn up, and are to be obtained on application to the Secretary, Mr. Trimmer. Subjects of Research.-Anatomy, Physiology, and Pathology, buman and comparative, including llis tology, Hygiene and Therapeutics in their relation to Surgery Conditions of, Study in the Work-rooms.-Appointments will be made by the Council for definite periods. When application is made for an appointment, a prospectus or description of the pro posed investigation shall be sent in, with as complete a list as pos. sible of the necessary instruments and apparatus. No new line of research, other than that originally approved by the Council, slaal, be undertaken without their previous sanction: Reports of progress shall be made to the Council at stated periods of investige. tion. The place and mode of publication of results of work shali be determined by the Council. If any assistance be required, the investigator may provide it, but the person or persons propnsed must be approved by tho Council. No fixed hours of sttendanct will bo required, but a record must be kept of actual hours of daily work. The necessary instruments and materials will be provided and expenses of investigation will be derrayed by the College, but no purchase of any additional instruments or spparatus shall be made without the sanction of the Council.

## ORPHANAGES AND CHARITY SCHOOLS

Many public orphanagea laave been founded by philanthropic people for the reception and training of children. Such institutions require careful management, and diligent attention to all matters of hygienc. The principles of ventilation, clothing, and dietary are well known to all who are acquainted with the principles of sanitary science. We desire to impress on all who are responsible for such institutions for children the great importance of discriminating among the children such as are in any way defective in development and constitution. Any large proportion of children defective in body or in brain power residing in a board-ing-school is, in our opinion, a matter to be rery carefully guarded against, as likely to lead to serious difficulty in discharging obvious
not so vexatiously enforced. The future of health resorts lies very much in the hands of the medical profession, who, if they are deprived of the opportunity of placing their patients under the charge of men whom they know, and in whom they ean confide from personal scquaintance, and who can carry on the English methods of treatment, will feel some hesitation in sending away their patients to distant and isolated places. such as 31 aloja, St. Moritz and other stations of the kind.

## THE LIFE HISTORY OF FILARIA SANGUINIS

It is interesting to note the long chain of inductire reasoning, combined with careful and laborious research, which has led to the unravelling of the complicated life history of the filaria sanguinis hominis. The discovery of bilharzisc hematuria by Griesinger in Egypt, led Wuchcrer to search the urine of patients suffering from hromaturia in Brazil, and it is just twenty years since he first saw the immature worm in the urine of these cases. Shortly afterwards the same parasite was independently discovered by the late.Dr. T. R. Lewis in the blood of a patient in Calcutta, and to this acute observer is due the eredit of establishing a connection between chyluria and the filaria. This observation led Dr. Manson to the surmise that the adult worm must establish itself in such cases in the larger lymphatic vessels, or even in the thoracic duct. Systematic search was consequently made; but it was not until 1876 that the adult was at length found by Dr. Bancroft, of Brishane, who went a step further by suggesting that the mosquito was probably the intermediate host. . This Dr. Manson proved to be correct by direct observation in 1877; the immature filaria is sucked up with the blood by the mosquito, which shortly resorts to water to deposit its eggs, and; having aehiered this object of its existence, expires; not, however, before it has digested the greater number of the filarie. A few, however, escape, and are set free by the dissolution of the mosquito. It has been supposed that: the filaria passes the next stage of its existence in the water as a free nematode, but can only attain full sexual development by entering the human body; it is believed to accomplish this by penetrating the skin of bathers, and to attain sexual maturity in a short time within the body, the conjunction of the sexes taking place in the lymphatics. Lewis, once obtained a fragment of a male which was closely coiled around the female; but the specimen, described at page 10.\% by
Professor A. G. Bour Professor A. G. Bourne, of Madras, from a case of lymphoid
scrotum, is the specific characters to be describe condition which permits the remains to be cleared up by obsed. The chief point which now which the parasite enters the human body. Dr. Manson has proved himself on former occasions not only an able observer but an acute reasoner; still his theory mentioned abore presents certain obvious difficulties.

EFFECTS OF EXPOSURE OF THE INTESTINES. AT the Norember meeting of the Berlin Obstetrical and Gynecological Society, Professor Olshausen read a communication on a hitherto unrecognised cause of death after laparatomy where intestine has been allowed to lie outside the abdominal wall for a prolonged period. In this country; at least, surgeons are careful to provent prolapse of the intestines. Coils which adhere to a tumour and cannot be at once separated are carefully covered with flat sponges, or with towels wrung out in hot water which often contains an antiseptic compound. As soon as the adherent coils are separated from the tumour, all bleeding points being
secured, they are carefully reple secured, they are carefuly replaced. As soon as the tumour is ex-
tracted through the abdominal tracted through the abdominal round, or indeed whilst it is slipping out of the incision, a broad flat sponge is slipped into the
peritoneal cavity to prerent any chance of prolapse, and to protect the gut from the suture-needles. The abdominal incision is, moreover, always made as shert as possible, so as to avoid the sudden escape of coils of intestinc. The Germans are less particular about eventration. Dr. Martin, in 1885, publicly recommended the dragging out of a large amount of intestinc in cases where the tumour lay deep in the abdominal cavity, and declared that the greater part of the intestinal tract might be left hanging out of the abdomen during the whole operation, so that the surgeon might have pleuty of room for manipulating the tumour. "This eventration," said Dr. Martin, "is quite free from danger; I have practised it in at least 90 per cent. of my cases Fithout seeing any evil results." Professor Olshausen was more cautious, and directed attention to certain cases of collapse, often fatal, which followed cases of abdominal section and were not accompanied by symptoms of peritonitis. He concluded that prelonged exposure of the intestines in laparotomy might cause disturbance in the circulation in the walls of the gut, ending in renous stasis and serous infiltration, with ultimsteformation of ecchymoses. At the same time the muscular coat is paralysed, often for several days: if the paralysis does not abate, symptoms of ileus set in. Fatal results of this kind are probably caused by the absorption of decomposing material in the intestinal canal.

## FAIRS AND VENEREAL DISEASES IN RUSSIA.

Dr. A. M. Zenkoff, of Irbit, gires, in the Shornik Permskako Zemstra, December 77 th, 1887, p. 421, some interesting particulars as to the manner in which syphilis is propagated by fairs in Russia. Irbit is a district town in the (East Russian) Perm Government, with a stationary population of 5,000 , which is, however, periodically subject to very large increase during 2 or $2 \frac{1}{2}$ months, when the annual fair is held. This is officially open from February lst to March 1st, and is a mest impertant commercial meeting for wholesale transactions in tea, sugar, furs, wool, and leather; it is also one of the great centres of Russian prostitution. Dr. Zenkeff's report refers to 1884 , but his description is equally applicable to subsequent, as well as to several preceding years. The information embedied in his paper was gathered by himself and Dr. N. V. Antoneff. The report deals only with the so-called "open" or "official" prostitution, and leaves out of consideration the unregistered or clandestine form which is practised to an enormous extent by numberless waitresses in beer shops, taverns, and inns, by attendants employed in public baths, by domestic servants, by hotel singers and harp players, by kalatchnitzas (female bakers of kalatch, a favourite national white or grey bread having the shape of a padlock), etc. The number of regular prostitutes in the town brothels was 20 , all of whom were Russian single women, aged from 16 to 27, who had been "in practice" from 2 to 10 years). all but one were entirely illiterate; 13 had had syphilis. During the fair time (beginning in this case carly in December) the "official contingent rapidly rose to 292 ,scattered about in"all sorts of extemporised brothels distinguished by the red lamp which is the recognised mark of such establishments all orer Russia, just as a blue, lantern is throughout Clina. The ages of 272 new comers raried, betreen 15 and 38 , about 56.5 per cent. being betreen 20 and $25^{\circ}$ 27.5 per cent. between 15 and 20 , and 16.0 between 25 and 38 . $\mathrm{A}_{\mathrm{s}}$ to their nationality, 245 were Great Rnssian, 25 Tartar, 1 Little Russian, and 1 German. As regards their social position, 197 belonged to the peasantry, while the remainder were artisans, factory hands, etc.; there were also several daughters and wives of Crown officials, and one medical assistant's danghter. Only 12 could read and write, 14 others could only read, while the remaining 246 were utterly illiterate: 220 were single women, 34 marriet, and 9 widows. Only 84 ( 31 per cent.) of the new comers were professional prostitutes, while the remaining 69 per cont. practised prostitution only during the fair, subsequently
going back to their usual occupations. Out of fair time, 33 per cent. (of 272) earned their livelihood as cooks, chambermaids, and eveu nurses; 12 per cent. were professional needlewomen of rarious descriptions; others were usually employed as agricultural labourers, miners, lnundresses, kalatch bakers, cigarette makers, etc. A special group of 32 women stated that their usual occupation was "household work," all of them living with their families. Many of this group confessed to th author that they had come to the fair with the full knowledge and permission of their relatives (husband or father, or both); in fact, they had come to earn something towards the support o their families. Ereryone of the new comers (as well as of those belonging to the town) proved to be suffering more or less from chronic raginitis. Three came with well-marked secondary syphilis, 3 with soft chancres, 1 with virulent vaginitis, 4 with marks of tertiary syphilis, and 48 with enlarged lymplatic glands fellowing secondary attacks. The follewing figures referring to a period of tive months (December, 1883, to April, 1884), and taken from the records of the small Irbit Zemskaia Infirmary give a faint idea of the pernicious influence of the fair on the health of the local population. There were treated as in-patients, during the period stated: $a$, for gonorrhæe, 19 women (including non-prostitutes), and 61 men; $b$, for soft chancres, 20 women and 14 men; and $c$, for syphilis (secondary), 17 romen and 19 men; total, 150 patients ( 56 women and 94 men). A far larger number, however, came under the notice of the local medical men in their private practice during the same period. How many visitors to the fair carried infection back to their homes it is obriously impossible to say. It is a fact, however, that renereal disease is, in spite of registration and sanitary superrision of prostitutes, probably more rife in Russia than in any country the world, and there can be no doubt that this is largely due local fairs of the kind here described.

VAN MILLINGEN'S OPERATION FOR ENTROPION. THat the treatment of entropion resulting from trachoma is not satisfactory may be inferred from the number of operations that have been inrented for its cure. When the contraction of the conjunctival surface has entirely ceased, any of the best operations will succeed. Unfortunately, it is not alrays ensy to say when this stage has been reached, and the condition is one that does not allow treatment to be postponed. The old operation" of remoring the margin of the lid has fallen into well merited.disrepute, and excision of the hair follicles is only applicable to cases of partial entropion. The operations which hare till now been most generally adopted in this country are Arlt's transplantation of the cilia-bearing margin, or some modification of this, or Bürow's operation, which consists in dividing the tarsus along its whole length into an upper and lower portion, accompanied or not by excision of a fold of skin. The latter operation is not infrequently followed by relapse, and in the former the lashes", are very apt to be drawn down again by the cicatricial contraction of the raw surface left below them. The proceeding has consoquently been modified by many operators, notably by Dianour, who, instead of excising the fold of akin to make room for the ciliary flap, simply transposes the tro flaps. The objection to this method is that a rather unsightly amelling is formed by the crossing of the flaps, and that the skin sometimes contains fine hairs which irritate the cornea. To obviate theso drawbacks, Dr. Story, in 1885, substituted rabbit's conjunctira, and, later, mucous membrane from the patient's lip, for the skin. Although Dr. Story appears to have suggested this operation, and practised it independently, it had already been extensively used by Van Millingen in Constantinople. The East offers so enormous a field for the observation of the results of trachoma, that Dr. Vsn Millingen is entitled to speak with authority on this subject, and
a paper by him in the November number of the Ophthalmic
Reviexo will probably lead to the universal adoption of his operation. Reviex will probally lead to the universal adoption of his operation. It differs from nearly all other proceedings in that the extent of the conjunctival surface is increased, while no tissue is removed from the lid. The operation itself is exceedingly simple. The lid is split
from end to reaching to a heinto an anterior and posterior layer, the division sides. This gap is opened widely, and is kept open by suturing the ciliary margin to the integument. A strip of conjunctiva is then dissected off the patient's under lip and laid in the gap, no sutures being used. On the second day the cutaneous sutures are removed. The only test of the value of an operation of this kind is the permanence of the results, and Dr. Van Millingen says that he has kept cases under observation for many years, without any relapse taking place.

## ANTIPYRIN IN HEEMORRHAGE AND ULCERS OF THE LEG.

In viers of the statements of Henocque and Huchard as to the hæmostatic properties of antipyrin, Dr. Alexäi G. Glinsky, of Kharkov, tried (Transactions of the Kharkov Medical Society, Part I, 1887, p. 23) the drug (in the shape of cotton-wool plugs aoaked in a 5 or 10 per cent. solution, or powdered with the antipyrin) in a series of cases of bleeding, such as epistaxis, hæmorrhage from surgical or accidental wounds, etc. On the whole, his results were unsatisfactory. In some eases of lacerated wounds of the fingers (inflicted by a nail, etc.) hromorrlage was arrested, but it was not certain that this effect was not rather due to pressure than to the antipyrin. Dr. Glinsky tried it on a wound on his own finger, but was obliged to have recourse to perchloride of iron. In three cases of severe epistaxis the bleeding came ou again in five or ten minutes after withdrawing the antipyrin plugs, and ultimately could be stopped only by plugging the posterior nares. Antipyrin lad no effect in clecking hæmorrhage after excision of acute condylomata, labial papilloma, etc. On the other hand, Dr. Glinsky was much pleased with antipyrin as a dry dressing in indolent uleers of the leg, fully confirming Dr. Bosse's observations (Berliner Klin. Wochenschrift, No. 33, 1886) on this point. The healing action of the drug in these cases is so rapid that he atrongly recommends the use of antipyrin in powder when other means fail. He also obtained good results with antipyrin in acute articular rheumatism, in which it is said to act as effectively as salieylate of soda and more rapidly. It also proved useful in migraine and neuralgia of the fifth nerve. Unpleasant secondary effects (rash, sickness, collapse) occurred in his experience very rarely.

## SCOTLAND.

SUICIDE BY SWALLOWING SULPHURIC ACID.
A FRW days ago a woman was brought into the Royal Infirmary, Glasgow, suffering from poisoning by sulphuric aeid. She had been arreated by the police for creating a diaturbance in the street, and had swallowed the poison shortly before her arrest. She was at once removed from the police-station, after examination by the surgeon, to the intirmary, but died soon after her admission.

DEATH OF DR. JOHN WILSON, GLASGOW.
Ir is with deep regret that we record the death of Dr. John Wilson, of Ifillhead, Glasgow, on May 8th, at the age of 63. He had been in feeble health for some time past, but the end came suddenly, death being due to apoplexy. He was one of the most popular members of the profession in Glafgow, and his tall figure and genial, enthusiastic manner, will long be missed. Dr. Wilson was a man of scholarly habits and of considerable literary and
artistic power. He had very conspicuous ability in expressing his ideas both with pen and pencil. ILe frequently read papers before our various societics, and his last paper, read before the MedicoChirurgical Society this session, on the Erect Attitude in Man will long be remembered for its sound anatomical knowledge, its wealth of illustration, and its felicity of expression.

## LAKE DWELLING AT oban.

A DISCOVERY of more than ordinary interest to archæologists has recently been made at Loclarullin, near Oban, of an ancient "crann10g." or lake dwelling. It has been visited by Dr. Robert Munro, of Kilmarnock, author of Ancient Scottish Lake Duellings, who has declared it to be a genuine "crannog," and the largest he has yet seen in Scotland. It measures about 85 leet by 60 feet. By digging in the mud three tiers of wooden piles were discovered, and more woodwork could be felt at a depth of It feet from the surface. Further excavations were, however, suspended till the water of the lake could be thoroughly drained off.

## ACCIDENTS AT THE OPENING OF THE EXHIBITION.

Consinering the enormous crowds which lined the streets of Glasgow and occupied every available elevation on the route of the procession on May 8th, it is fortunate there were so few aceidents. The only cases reported are comparatively slight. A little girl, while climbing over a railing in the Park, got her leg broken. A crowd of people leaning against a railing caused it to give way and fall upon the people in the street below, of whom two, a man and a woman, had their legs broken. Late in the afternoon a man standing on the top of a tramcar overbalanced and fell to the ground on his head. All the injured were conveyed to hospital, and are now doing well.
PATHOLOGICAL AND CLINICAL SOCIETY, GLASGOW.
Tre last meeting for the session was held on Monday, May Itth.
Dr. Thomas Reid showed a case of fracture of the skull, with loss of sight of one eye, and hemiopia of the other. Dr. Newman showed two cases of complete laryngeal stenosis produced by wounds of the larynx in attempted suicide. Dr. H. C. Cameron showed a dermoid cyst of the ovary, with teeth and hairs growing
on its on its outer wall, and a large Dupuytren's exostosis of the great fully by operation from the gall biliary calculi removed successan eyeball in which ossification bladder. Dr. Meighan showed taken place. The following were the office-bearers elected for next year: President: Professor T. T. Gairdner. Tice-President: Dr. David Newman. Secretaries: Mr. Maylard and Dr. Lindsay Steven. Treasurer: Dr. J. B. Russell. Council: Drs. Middleton, Meighan, Finlayson, and Clarke. The recommendation of the Council that Dr. Joseph Coats be appointed representative of the Society at the Congress on Tuberculosis to be held in Paris in July next was unanimously adopted.

## UNIVERSITY EXTENSION LECTURES.

Arrangements have recently been made in Edinburgh for developing in the eity itself the system of L'niversity extension lectures that has prored so satisfactory and successful in some of the surrounding districts. A course of twelve lectures on botany, by Mr. Patrick Geddes, has been initiated in connection with the kdinhurgh Philosophical Institution : the hall of that institution being used as a lecture room. The first lecture was deli vered last week, and there was such a crowded attendance as to necessitate the redelivery of the lecture eubsequently to those who could not obtain admission on the first occasion. The course is, therefore, an assured success, and will probably lead to further developmenta in other branches of teaching in science, art, and literature

## ABERDEEN.

The summer session of the University opened on April 23rd, and the various practical nad systematic classes are now in full swing, lidding fair to maintain the character of the University as a working selool. The entries, especially of freshmen, are larger than in any previons year, rendering evident the necessity for enlargement of some of the laboratories and classrooms. It is, understood that this will be done in the course of the year by an extension of the buildings. Impatience is finding expression at the delay in getting on with the new Infirmary buildings. The money is subseribed, but, somehow, there is delay over the details of the plans which cannot be considered unaroidable. The parts to be first erected are the new surgical bospital aud the detached pathological block. The inspectors of the Medical Council paid a visit to Aberdeen at the final examination last month.

THE UNIVERSITIES' (SCOTLAND) BILL.
A special meeting of the Merchants' Ilouse at Glasgow was held on May 11th to consider this Bill. Dr. W. G. Blackie; who presided, explained that, since the Merchants' IIouse had petitioned in favour of the Bill, very considerable opposition had been raised in the IIouse of Lords to the clauses providing for university extension. These clauses, in the eyes of those who were in favour of university extension, were the cardinal clauses in the Bill, which, without them, would be of eomparatively little value. The fear was that the opposition would cause these clauses to be dropped, and their present object was to impress upon Lord Salisbury the great importance of the affiliation clauses, so that they might be retained. The idea was that this would be best done by memorialising Lord Salisbury himself. It was stated that amendments bad been prepared meeting the objections that had been raised to the affliation elauses as they stood. Lord Rosebery had seen the amendments, had expressed his approval of them, and there were some hopes that he might take charge of them in the Ilouse of Lords. It was unanimonsly agreed to send a memorial expressing approval of the object of the Bill, especially the powers in the Bill for the extension of university teaching in Scotland, and those recognising extra-mural teaching under due regulations, and stating that the memorialists would deem it a grievous misfortune if these powers were in any form interfered with. The Education Board of University College, Dundee, have petitioned in favour of the Bill, expreesing regret if any change is made endangering the proposals for extending the area of university education in Scotland, whether by the recognition of extramural teaching or by the affliation or ineorporation of other colleges, and expressing approval of the special clanse relating to the Dundee College. The Glasgow Southern Medical Socicty, at a special meeting, leld on May IIth, unanimously agreed to petition in favour of the Bill, the afliliation clames being ;regarded as vital.

## IRELAND.

## NEW WATERWORKS FOR LIMERICK.

Tine Foard of Works have approved of the plans for the new waterworks for this town, nnd have sanctioned the immediate issue of the loan reguired for their conslruction.

## ROYAL COLLEGE OF SURGEONS.

Trik following gentlemen have been appointed examiners: J. D. Pratt, P'reliminsry Education: II. C. Tweedy, Public IIealth. Mr. Theolore Stack, Mr. Conolly Norman, and Mr. J. B. Story are candidates for the Council ; the election takes place on the first Monday in June.

DEATH OF DR. BARRY DELANY.
The death of Dr. Barry Delany, Superintendent of the Kilkenny 'Distriet Asylum, is announced. The cause was angina pectoris The appointment is worth firso a year, with allorrances. It is practically certain that Dr. Myles, the senior assistant at the Rich. mond Asylum, Dublin, will be promoted. The patronage is in the hands of the Lord Lieutenant.

## MEDICAL SCHOLARSHIPS, ETC.

The annual examinations for the Coulter and Malcolm exhibitions at the Royal Hospital, Belfast, bave just been beld, and tho resulta deelared. Mr. W. Quarry has obtained the former and Mr. James MeConnell;' B.A., the latter. Mr. R. W. Haslett, B.A., has been a warded the gold medal annually offered by the Belfast Ilospital for Sick Children, at the elose of the winter session, for proficiency in the medical and surgical diseases of children.

## ELECTION OF CORONERS.

Dr. MCGritit (Nationalist) has been returned for this office by a majority of 187 votes orer his Unionist opponent, Dr. T. J. Browne. The contest seems to have been conducted purely on political grounds, as has unfortunately become the rule in such cases. It is difficult to see the connection between polities and a candidate's fitness to preside over the coroner's court. Dr. Alexander Heron, J.P., of Rathfriland, has been returned for the office of Coroner of the Southern Division of Co. Down. Dr. Martin, of Newry, and Dr. Smyth, of Banbridge, were at one time in the field, but retired upon the nomination day, leaving Dr. Heron in possession of the field.

## HEALTH OF IRELAND: MARCH QUARTER.

TuE death-rate was above the average for the March quarter, and was higher than the rate for any quarter since 1883 . This result was due partly to the great prevalence of measles in many distriets, and to the large mortality from diseases of the respiratory organs caused by the inclement weather which prevailed. The principal zymotic diseases eaused 2,273 deaths, a number equal to a rate of 1.9 per 1,000 , and showing an increase of 270 as compared with the number for the previous three months.

## ENGLISH HOSPITALS AND IRISH SURGICAL QUALIFICATIONS:

Tie Council of the College of Surgeons in Ireland has addressed the following letter to the Board of Trustees of the Bristol Royal lnfirmary :-

Royal College of Surgeons in Ireland. May 9th, 1888. Dear Sir,-The Jresident and Council of the Royal College of Surgeons in lreland, have had their attention called to the reported proceedings of the trustees of the Bristol Royal Infirmary, from whieh it appeara that a motion has been made at their last meeting that a new rule shall be enacted, the effect of which will be to exclude from the medical staff of the Infirmary the Fellows of this College, in common with the graduates of most universities in England, and of all the colleges and universities in Scotland and Ireland. This College does not feel called upon to vindicate the status of its Fellowa, except so far as it may be necessary to protect the interests of those who practise in England; hut it has observed that the movers of the new rule in question have suggested that such regulation is adrisable in order that the status of the medical officera of the Infirmary may be therehy raised, it being inferred that the Fellowa of other Colleges, which are named, are of superior educational qualilication. With the riew of remoring misapprebension on this point, 1 am directed to aend, for the information of the Board (enelosed), eopies of the Fellowabip Regulations of the College, from which it will be observed that under no circumstances is any candidate admitted to that diploma except after several dayg' theoretieal, practical, and operative examination, the scope of which is not in any respect inferior to that of any licensing body in the kingdom, and before and after the passing of these examinations striet guarantees are exacted from the candidate for the propriety of his profersional
ctice as a Fellow. Lest any doubt may exist as to the bona of these examinations, or as to their educational standard, College has expressed to the General Medical Council its irc that these examinations should he submitted to any inspec-
a which may seem necessary to remove any possible doubt on points: and I am directed to say that if any question arises the professional status of our Fellows, this College is ready afford to your Board the most ample information to enable to satisfy themselves that there is no reasonable ground for Lege motion as that which has been submitted to them, and the lege invites thom to make such inquiries as they may deem
cessary.-I am, Sir, yours yery faithfuly, AscmibsLD H. JAcob, R.C.S.I., Secretary to the Council.

## PROPOSED SANITARIUM AT ROSTREVOR, CO. DOWN.

In prospectus of a company recently formed for the foundation of ${ }_{i s}$ dropathic establishment and sanitarium at Roistrevor, Co. Down, is just been issued. It is pointed out that a great need exists for nt existing in Ulster, in spite of the proved popularity of such
nt stitutions. The only thoroughlý organised and efficient hydrethic establishment in Ireland is at Blarney, near Cork; and it is sirtual monopoly that the proposed institution at Rostrevor might enjey
rite he adrantages of Rostrevor as a site are set forth in the propectus with all the glowing language familiar in such docu-
lents. They are, how lents. They are, however, sufficiently obvious and genuine to eatures-shelter and natural beanty. The Mourne Mountant orm an almost continueus rampart on the east and north, constiuting Rostreror one of the mildest of reserts, especially during he prevalence of east winds. The neighbourhood is also highly jicturesque, and is easily accessible from all parts. Warrenpoint, he nearest railway terminus, is tro miles and a half distant, and $t$ is only seren miles thence to Greenore, which is five hours steam southerly aspect, and a frontage of 750 feet to Carlingford Lough. It is intended that the building to be erected shall have accommodation for fifty guests, and contain all the equipment of a complete hydropathic establisliment. The capital of the company is per cent. directers.

Memical Officers of Schuols Association.-Mr. W. S. Savory, F.R.S., took the chair at the annual general meeting of this association. The following gentlemen were elected members: Wilson Coltart, L.R.C.P., M.R.C.S., medical officer to Epsom Col-
lege ; Peter lege ; Peter W. Delamotte, M.R.C.P.E., M.R.C.S., medical oficer to M.R.C.S., L.S.A., medical officer to the Welsh High School for
He Girls, and to the Feltham Reformatory. The audited accounts -showing a balance in hand of $\mathrm{E39} 2 \mathrm{~s}$. 11d.-were presented and passed. The officers for the ensuing year were then elected as follows:-President: W, S. Savory, Lisq., F.R.S. Vice-Presidents: Sir Andrew Clark, Bart., Dr. Farquharson, M.P.. Dr. Fuller, Dr. Brett, and 11. Statham, Esq. Treasurcr: Nohle Smith, Esq. Honorary Secretaries: Dr. Alder Smith and Dr. Charles Shelly. In place of the four gentlemen retiring by rotation, the following were elected as new Members of Coluncil: Great Orcrombie, Assistant Physician at the Children's Ilospital, Great Ormond Street; Chune Fletcher, Esq., medical officer to the Merchaut Thaylors' School ; William Holderness, Esq., medical attendant at Eton; and Surgeon-Major Lever, medical officer to the Hilitary College, Oxford. Auditors: Messrs. Statham and Chune Fletcher were re-elected. The Honorary Secretaries then presertel the Code on the Construction and Maintenance of School Infirnaries and Sunatoria, on the preparation of which the Council had been continuonsiy cngaged during the last eighteen months. clauso was considered and discussed by the meeting clause by chase Cerinin monifications haviug been introduceel into the text, i: was then resolyed that the Code should be printed and
published for the association, and that a copy should be eent to cach member and to the head masters of the large schools. A rote of thanks to the Council, and a special rote of thanks to Dr. Shelly for his great help in wording and preparing the Code, were
then passed unanimously. Sereral members and fuest then passed unanimously. Several members and fuests subsequently attended the annual dinner, at which the President presided.
Preeentations. - Mr. George Parsons Torney, B.A.Dublin, L.K.Q.C.P.I., who recently resigned the appointment of assistant
medical ofticer in the Warwickshire County Asylum, accept the assistant medical officership at the Lincoln County Asylum, has been presented with an illuminated address, together with a handsome clock bearing a suitable inscription, a pair of raluable chimnespiece bronzes, and other objects of practical and artistic value from his brother officers, patients, and friends.-Dr. C. Knott, of Landport, has been presented by the members of Court Mechanics' Hope, No. 2,357 A.O.F., as a mark of their esteem, with a massive four-branch silver candelabrum, chased and ornamented, also a silver-plated fish slice and fork.
Clinical Lectures on Chidpres's Diseases.-A course of clinical lectures and demonstrations commenced at the Hospital for Sick Children, Great Ormond Street, on Thursday, May 17th, at. 3.30 p.am., when Dr. Cheadle lectured on Rheumatic Heart Disease in Children. On Saturday, May 19th, at 9.30 A.Mr., Mr. Howard Marsh will lecture on Abscess in Childhood: Diagnosis and Treatment. The lectures are practically free, though for attendance threughout a small fee is charged. A syllabus of the complete course can be obtained of the Secretary, Mr. Adrian IIope.
The Glasgow Society for the Irevention of Cruelty to Children has during the past menth dealt with cases involving the welfare of 118 children, some of a peculiarly distressing character. Of
the children. 18 had been placed in industrial sel the children, 18 had been placed in industrial schools and training ships, and 43 had been placed under the supervision of the school Board. A fancy dress ball, held recently in aid of the society

Legacy to Edinburgh Royal Infirmary. - Under funds. Legacy to Edinburgir Royal Infirnary. - Under the will
of the late Mr. Menry Ritchie Cooper Wallace, of Bushie Cloncaird, Ayrshire, a large residual sum, after paying other legacies, was left to the Royal Infirmary. The terms of the wit were subject to a life rent, payable to the widow of the deceased gentleman, and were only to be implemented on her marriage or demise. The former alternative has been recently fulfilled, and the hoyal Infirmary thus becomes the recipient of a handsome legacy, amounting to over $£ 21,000$.
A School of Hocsekeeping.-A school of housckeeping has been started in Brussels by the Countess of Flanders. Forty girls there receive a practical training in domestic economy, marketing, cooking, mending, and laundry. The pupils keep housekeeping books, and enter receipts and expenditure. Such an effort to improve practical knowledge deserves commendation and imitation.

The Greenock Centre of the St. Andrews Ambulance Association held their second annual meeting on May 5 th. The centre was reported to he in a prosperous condition, trenty-nine classes, comprising 1,000 persons, having been held in the two rears of the lad taken Association's medallion.

London School of Medicins for Homen.-The trustees of the IIelen Prideaux Fund propose to make the first award of the Helen Prideaux Scholarship at the end of July, lss8. The amount of the scholarship will be $£ \mathfrak{j} 0$. Particulars may be obtained on application to the Secretary, Miss Thorne, at the school, Handel Street, Brunswick Square.

Metropolitan Coroners District.-The petitions in favour of dividing the Eastern District into two parts have been farourably considered by the Pripy Council, and an Order in Council has been issued, directing that the district shall. Ior the phrpeses of the Coroners Act, be divided into tro districts, to be called the North-Eastern District and the South-Fastern District.

Dr. A. Husjamans, of Ltrecht, has recently had a patient with a tumour growing from the under surface of the epiglottis, about the size and shape of a large bean. It was removed under cocaine by the galvano-cautery, and proved to be a simple cyst, its contents being caseons and seroi-fluid.

ROYAL COLLEGE OF PITYSICIANS.
Ar a meeting of the Royal College of Physicians, April $26 t h, 1888$, on the motion of the Senior Censor, seconded by Dr. Quain, the following resolution was adopted unanimously :
"That the cordial thanks of the College are due, and are hercby offered, to Sir William Jenner, Bart., K.C.B., M.D., for the ability and judgrent with which he conducted the business of the College during the seven consecutive years in which he filled the office of Iresident, and also for the time he devoted to the duties of that offlec, and for his endeavours to adrance, on all occasions, the interests of the profession."
On Friday, May 11th, a deputation consisting of the President, the mover and seconder of the resolution, and the Registrar, waited on Sir William Jenner, at 63 , Brook Street, to present the resolution in the name of the Coilege.

At the Cumitia held on Monday, May 14th, Sir Andrew Clark, Bart., presiding the newly-elected Fellows, whose names hare already been published in the Jocranle, were duly admitted.

A report was received from the Council, recommending the adoption of the following regulations for the Moxon Medal:

1. That the memorial consist of a gold medal, of the ralue of £ 30 , to be a warded every third year to the person who shall be deemed to have especially distinguished himself by observation and research in elinical medicine.
2. That the a ward be not restricted to British subjects.
3. That the award be made on the recommendation of the President and Council (who may, if they see fit, call in the aid of assessors), subject to the approval of the College.
4. That in making the award the College should always have regard to discovery and originality in research rather than general personal reputation.
5. That the medal be presented immediately after the Harveian Oration by the lresident of the College; and that, in the absence of the medallist, the medal be giren into the hands of the Registrar, who shall forward it to its destination.
6. That the medal shall present on the obverse the portrait of the late Dr. Moxon, with his name and the dates 1836-1886; and on the reverse the portico of the Royal College of Physicians, with the inscription "Oh artem medicam studiis et experimentis auctam," and, further, that the name of the medallist in his native language, with the date of the award, be engraved on the rim of the medal.

These regulations were unanimously adopted by the College.
A report was received from the committee appointed to consider the internal arrangements and requisite fittings of the rooms and theatre in the new building to be erected behind the Examination IIall. pointing out that it had been necessary to make a slight modification in the plans already sanctioned by the two Colleges, in order to allow more light to thie houses in the rear. The committee also desired the sanction of the two colleges to expend a sum not exceeding $£ 50$ in preliminary inquiries, both in England and abroad. loth these suggestions were unanimously adopted.
Sir Hbnay Pitman gave notice that at the next Comitia he would move the appointment of a committee of seven from this College, to form, with seven delegates Irom the College of Surgeons, a committee to superintend the work carried on in this buildiug when constructed.

On the motion of Dr. Theodorb Williams, it was agreed to hold a conversazione in June, a committee for this purpose to be nominated by the President.
Dr. Herringham was appointed an Examiner in Anatomy.

## LOYAL COLLEGE OF SURGEONS.

AT the meeting of the Council of the Conlege held on Thursday, May 10th, a letter, the contents of which, owing to a technical objection, we were unable to publish in the report of the proceedings of the Council in our last issue, was read from Mr. C. L. Peel, Clerk to the Privy Council, stating, by direction of the Lords of the Council, that their lordships are ready to consider favourably the grant to the College of some further powers to hold property, and for amending the existing charters in regard to points in whieh there is no controversy with the Fellows and Members of the College, omitting from the supplemental eharter the controrerted points, namely, those contained in Sections 2, 3, 4, and 5, and inquiring whether the College will be willing to accept the supplemental charter on this basis. It was resolved by the Council of the College to accept the supplemental charter on the basis
offered by the Lords of the Council. The net result of the appr cation of the Council of the College to the Privy Council may briefly summed up as follows:
The Privy Council is willing to grant additional powers to Council of the College to enable them (1) to hold more prope than at present ; ( 2 ) to enable Fellows to vote by roting pal at the annusal meeting for the election of Fellows as members Council, instead of having to record their votes in person hitherto.
The I'rivy Council refuses to insert in the supplemental chari, the following controverted points contained in Sections 2, 3, and 5 of the Petition of the Council of the College:

1. That the regulations of admission to the Fellowship shon be made otherwise than by law, as at present.
2. That the fee for the Fellowship should be determined by-law instead of by charter, as at present.
3. That the Council should have the porver of electing ten : stead of two members of the College of twenty years' standing each year.
4. That there should be two honorary Fellows elected ea уear.

## THE COUNCIL OF THE COLLEGE OF SURGEONS.

1n July, Mr. Cadge, Mr. Bryant, and Sir Joseph Lister reti by rotation, all three having been elected eight years ago, so thi excepting those members who have been re-elected after servi a full term, they stand at the head of the twenty-four members the Council as it is now eonstituted. As it is highly advisat that the Fellows of the College should not lose time in consideri) how they may further their interests at the coming election, whil will take place within two months, and as they may not have $t$ history of the present Couneil at their fingers' ends, we supply t following statisties. The Council stands, at present, thus:

President: Mr. Savory (third year of office). Fice-President Mr. Bryant and Mr. Thomas Smith. Other Members : Sir Jam I'aget. Sir T. Spencer Wells, and Mr. Marshall (all three form Presidents), and Mr. Lund, Mr. Menry Power, Mr. Mutehinso Mr. Cadge, Sir J. Lister, Mr. Hulke, Mr. Christopher Heath, M Croft, Mr. Sydney Jones, Sir W. Mac Cormac. Mr. Lawson, 3 Berkeley Hill, Mr. Durham, Mr. Macnamara, Mr. Oliver I'embe ton, Mr. Septimus Sibley, Mr. Reginald Harrison, and Mr. Willet The elections have run as follows during the past eight years, asterisk marking re-elected members. 1880.-Mr. Cadge, 3 Bryant, Sir J. Lister, and Mr. T. Smith (substitute member 1881.-*Sir J. Paget, Mr. Hulke, and Mr. Heath. 1882.-*M Marshall, *Mr. Power, and Mr. Croft. 1883.-*Mr. Cooper Forsth (deceased), Mr. S. Jones, and Sir W. Mac Cormac. 1884. - Mr. Lap son, Mr. Durham, *Mr. T. Smith (see 1880), Mr. B. IIill (substitut member for Sir Erasmus Wilson), and Mr. Allingham (substitut member for Mr. Gay, and since retired). 1885.-*Mr. Saver Mr. Pemberton, and Mr. Macıamara. 1886.-*Mr. Lund, *Mr. Hill (see 1884), Mr. Harrison, and Mr. Sibley (substitute membe for Mr. Cooper Forster). 1887.-*Mr. Hutchinson, Mr. Willett, an *Sir Spencer Wells. The order under each of the above dates fo lows the number of votes which the candidates polled.
We may remind our readers of the signification of the terr "substitute members." They are elected to fill up vacancies tak ing place among elective members of Council in any other wa than by going out of office by rotation. Every person ao electe holds office until the time when the person in whose room he shal bave been chosen would hare gone out of office. When that tim has expired the substitute member must retire, but is eligible fo re-election, and if re-elected becomes a member on his ow account, so to speak, and may remain on the Council for the ful term of eight years. There are but four prorincial members a present on the Council-Mr. Lund, Mr. Cadge, Mr. Pemberton, ani Mr. Marrison. Mr. Lund, re-elected in 1886, has the right of si: more years on the Council; Mr. P'emberton, eleeted in 1885, ma? remain yet five years as an honoured and progressive provincia member, whilst Mr. Cadge, as we have already obscrved, will retir in July. The wishes of the Association will donbtless farour hi: returi. There is but one representative of the general practi tioners, Mr. Sibley, who has yet three more years before him a the substitute member for Mr. Cooper Forster, who was re-elected ir 1883. Mr. Bryant and Sir Joseph Lister are so well-known th fame, and Mr. Cadge is so popular as a proviucial momber, thay they will probably all be re-elected should they offer themselves
uppears to be most prohable according to trust worthy rumours. 1s, should there be no further racancy through retirement the regulation period, the coming elections will not be of a exciting character.

## ST. MARX'S HOSPITAL.

the Festival Dinner in aid of the extension of St. Mary's IIosal held at the liôtel Mótropole on Saturday last, Lord RasdoLpH dachill presided, and about 150 other gentlemen were present. The Chairman, in proposing the toast of the evening, spoke with miration of the hospital system of London, voluntary, free, and lependent, but costing a bout $£ 650,000$ a year, though enjoying income of about $£ 560,000$ only, the deficiency being made up legacies, which rary from $£ 50,000$ to $£ 100,000$ a year. The ndon hospitals assist annually about $1,300,000$ people, but the
ief of them aring Cross and ant of within a radius of about $1_{2}^{1}$ mile from tions, 4,500 are , ant of the 6,500 beds found in all these instilich the hospitals have to deal covers an area extending 7 miles m Charing Cross, so that many people necessarily cannot obtain sy access to the hospitals, although the public-houses are always ar their homes, Unfortunately, too, the income of It large
spitals derived from subscriptions has in 10 years increased only alout $£ 3,000$ (from $£ 3,1000$ to $£ 3,000$ ), whilst increased nditure at the same time has been augmented by nearly $£ 50,000$ om £201,000 to £247,000). These figures warrant the opinion at there is a distinct falling off of the efforts of the rich in supirt of these great institutions. But the people themselves are aking efforts to overcome these deficiencies, as eridenced by the Hlected in Islingospal Saturday Fund, the large amount ( $£ 5,000$ ) arting of hospitals in East and West Ilam, whilst in the pronces, at Birmingham, Glasgow, Stoke, etc., the working classes intribute largely to the local hospitals. The hospitals, ton, are e great schools at which doctors are taught and nurses trained; eey, therefore, deserve far more support than they obtain. ost of next to St. Mary's Hospital, the Chairman showed how re case of that institution, whicll has an inconvenient and inadeaate site, is surrounded by an overwhelming daily growing popu-
tion, ition, for which it endenrours to provide medical relief always equiring a piece of land in Praed Street, adjoining the hospital, thich would give it a tine frontage in an important public aoroughfare, and this land nust be acquired.
In the course of the evening Mr. Rras, Secretary to the hosital, announced subscriptions amounting to $£ \pm, 600$ for the Enan, 50 Fund, which sum included 25 guineas from the Chairnd $£ 286$, collected in shillings, by Mrs. G. P. Field.
An excellent selection of rocal music, under the direction of 4r. Coates, assisted by Madame George and other artistes, was iven; and the dinner committee, of which Mr. Malcolm Morris vas chairman, and which comprised Mr. G. P. Field and other ;entlemen, may be congratulated on the success that attended beir efforts.

## THE CORONERS BILL.

Tus Coroners Bill, as introduced by the Lord Chancellor, is one which the l'arliamentary Bills Committee has already expressed its intention of opposing in its present form. This Bill practically proposes to hand over the appointment of coroners altogether to the Lord Chancellor. The Lord Chancellor already possesses "an overwhelming mass of patronago far greater than he cither can or
does dispen does dispense to the public satisfaction, and nothing conld be tiouary the appunpopular than to hand over to this high funcOne ineritable result would be the appointment of lawyers to an office for which as a rule lawyers are very ill-fitted, and for which medical men are, on the whole, far better fitted. On the other hand, the election by freeholders undoubtedly gives rise to abuses, and is an inconvenient and costly method of appointing judicial officers. The creation of the new County Councils will afford a suitable body in whou the appointment should naturally be vested. An opinion has been expressed at the preliminary discussion of the Parliamentary Bills Committee in favour of vesting the future appointment of coroners in these new elective bodies,
and we are glad to see in the discussion in the llonse of Lords that Lord Iferschell expressed an opinion in accordance with that of our Parliamentary Bills Committee, and intimated that he would move an amendment to that effect.

## THE SANITARY CONDITION OF HAILEYEURY COLLEGE, HERTFORD.

In accordance with our promise, we publish Dr. Stevenson's last analysis and report on the quality of the water from the well at Haileybury College.

The samples were enclosed in glass-stoppered bottles, marked respectively, "Water direct from well at liaileybury College. April 18th, 1888," and "Water after Porter-Clark treatment, April 18th, 1888."

Both the samples were clear, colourless, and destitute of odour. The results below are in grains per gallon.


The organic impurities found in the water lately, have entirely disappeared, and the results approximate to those met with when 1 made my analysis in October last. The waters are now both of the highest degree of purity, being almost destitute of organic matter.

It will be noted on comparing my present with previous analyses, that when the water from the well is organically pure, the proportion of saline matter is very sensibly greater than when the water is brown and organically impure.
(Signed) Thos. Stevesison.
This analysis and the remarks speak for themselves as to the purity of the sample submitted to Dr. Sterensou upon April 18 th, but we must remind Dr. Shelly, the medical officer of the college, who kindly forwarded us the copy for publication, that this sample was taken at a very favourable time during the holidays, when the boys and servants had been away from the College for a fortnight, and when there would necessarily be less putrescible matter on the surface to find its way rertically down the well to the water level beneath.
It would hare been more applicable to the point at issue had he at the same time enclosed us a copy of Dr. Stevenson's previous analysis of and remarks nopon the sample sent to him on or about Lany Day, which was in the possession of the school authorities at their council meeting on April 7th, soon after the school had roken up, and which, according to Dr. Shelly. was stated by Dr.
Stevenson to have been "most discol Stevenson to have been "most discoloured," although qualified by his statement that "the organic matter present does not appear to
We have no desire in any way to impugn the quality of the llaileybury water; all we wish to say is that so long as the well occupies its present position it is subject to suspicion, and that there are many authorities on the water question who will not readily believe that in the rainfall of March, which up to the date in question (March 23rd) amounted only to 1.65 inch in the neighbourhood of Mertford (and which was spread over twelve days, there was cause, atmospheric or otherwise, for the discoloration of the deep water in the chalk.
Lastly, we beliere that
Lastly, we believe that most sanitarians will agree that, no may go to prove, the suspicion as to the quality of the water will not be removed as long as it is drawn from a well which is sink directly under the building, and therefore invites insidious pollution.

Medical Magistrates.-Dr. Thomas Frederick loung and Dr. Thomas Munns Wills have been placed on the Commission of the Peace for the Borough of Bootle.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTELLY MEETINGS FOR 1848 . ELECTION OF MEMBERS.

Ans qualifed medical practitioner, not disqualified by any by-law of the Association, who slall be recommended as eligible by any three members, many be elected a member by the Council or by any recognised Branch Council.
Meetings of the Council will be held on July 18th, and Octoher 15th, 1888. Candidates for clection by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27th, September 26th, and December 28th,
Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected ly a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowre, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

The Report apon the Convection of Disease mith Habits of ITMEMPERANCE, which was presented to the Section of Medicine in the Annual lleeting of 1887 , will shortly be published in the Jotrmal.
Reports upon the tro remaining inquiries, namely, that into Diphtheria, and that into the Geooraphical Distribution of CERTAIN DISEASES, are in preparation, and will be published as soon as ready.
The Following inquiry only of the first series remains open, namely, that on the Etrolooy of Phthisis.
A frech inquiry into the Origin and hode of propagation of Epidemics of Diphtheria has been issued.
Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collectave Investigation Committee, 429, Strand, W.C.

## branch meetings to be held.

STAFFORDSHIRE Brasch. - The third genemal meeting of the present session will be held in the Bell Library and Medical Jratitute, Cleveland Joad. WolverMr. W. D. Spanton, ay, May 31st. The chair will be taken by the President. Mr. W. D. Spauton, at 3 o'clock in the afternoon. The following papers will in Disease. Dr. Alfred 11. Carter: Practical Considerations nn the Nature and Treatment of Chronic Cardiac Disease. Mr. E. Hurry Fenwick London: The Electrie lllumination of the Bladder and Urethra, and its Value in the Diagnosis and Treatment of Obseure Vesico-Urethral Diseases. Dr. MeMunn will Shnw a almple method of adapting a phntographic camera to the microscope.T. Vinceat Jacksox, Wolverhampton.

Fast York asp Ninth Livenis Branch.-The annual meeting will be held at the Intirmary, Itnll, on Weinesday, May, 3nth, at $1.30 \mathrm{p} . \mathrm{m}$. Gentlemen who Intend to make any communimation, or to propose any resolution, are requested to inform the Secretary nnt later than Majo ?uth.-E. P. Harder, Honorary
Secritary, 80 , Spring ظank, Hill.

Mimasn Brasch. - The annual meeting will be held at Nettingham on Thuraday, June lith, at 2 R.a. Mr.mbers desirous of realing papers, exhibiting cases, etc., are requ*sted to communleate with the Socretary before May 2ith. Candidates for ellection by the Jrancli Council must mend in their forms of applicatiou by the ame date.-W. A. Caklue, M.B., Henorary Secretary,
Lincoln.

Soith-fintery Branch: Fast Fint District.-The annual meeting of the ahove District will be held at the Kent and Ganterbury Inspital on Thursday, May $23 t h$, at $3 \mathrm{~F} . \mathrm{N} .$, Dr. Parsons, of Dorer. In the chair. The dinner

 *ake. Mr. Brian Migden: Notaren a Trecent Elidemic of Mrasles. Anyone wishing to send pagure, etc., should communleate at onco with the Honorary Secretary, W. J. Trsos, 10, Langhorme Garicins, Folkestone.

Snetr-Wegtern Branct,-The annmal mecting of this Branch will be held at the Devon and Exetor 110 osplasi, Fixetrar. on Thes Branch will be under the presiflency of br. Jubu Womiman. Fifi.C.S. Notices of motion or vommunications w lxe intimated to the Minnorary, Secretary without smaretary as sonn as nasalule lf they lione nembers wilf Inform the lfonorary following motion was passord at the Council to the present at the meeting. The murh as the annual meredine the Council Mreting om May 2nd:-"That linasrecreation, and uith a view of encouraving the leas the character of a day of recration, and uith a view of encouraging the diatrict meetinge, the of a days of Cof annual meeting shall the ronfincol to the l'resticnt's address, the husiness Cof the Branch, thy exllthitinn of caprs nr of sperlmeas alth mites, and the anuual dinuer."-1". Mavar Dras, Wonford House, Exeter, Hevorary
S'eretary.

NnRTII OF Ligilanj BraxCh, - A meeting for the exhibition and diseumson of microscopic specimens will lie lueld no Xay 31st, at $3.30 \mathrm{~s}, \mathrm{M}$. . In the disseret-ing-romm of the College of Meaticine, Newcastle-upom-Tyne. The Sferetary whll he glad to hear from any of the inembers who have interesting slicles of any description. After the meeting there will tee an iuformal dinter at 5 r.M., at the Douglas Hoiel.-G. E. Winliamson, 22, Ehon Square, Neuctastic-mpmTyne, Ionomary Secretary.

Lanchsitre ant Chestire Braxck,-The annial meeting will be held in Liverpool atout the lith of June. Cientlemen wishing to read bapers or slow cases are requested to communicate to Cnas. ED. GLasCotr, M. D., 23 , Sulnt Joln S'treet, Manchester, Honorary Secretary.

Btrmivgifam avd Mintasd Counties Brancid.-The annualmerting of this Brauch will be held in tbe Birningliam Medical Institute, oul Wealncaday, June 14 th, at $3.30 \mathrm{P.M}$.

Sotthe-Eastern Braxcit : East Siskex District.-A meeting of the above District will be held in the hoard-ronm of the now hospital, at fisslngs, on Tuesday, June $12 \mathrm{H}_{1}$, Dr. Bagslawe will preside. The Chairman. Mr. Thecharat, and Dr. Penhall, will contribute short papers on cases. Gentlemen interested in bospital constrnction will be itt libert 5 to inspect the new building. Communications as to papers, etc. should be addressma to T. Jenter Verkali, 97 Mont pellier lanad, Brighton, II onomary Secretary.

SOUTII INDIAN BRANCH.
The annual meeting was leld at the Central Museum, Madras, on January 13th, 1888 , the President in the chair.

The minutes of the previous meeting were read and confrmed.
New Members.-The President announced that the following gentlemen had been elected by the Council since the last meeting of the Eranch: Rer. II. S. Lunn, M.D.; C. A. Lafrenais, Esq. L.M.S.; Deputy Surgeon-General W. F. de Fabick, M.D.; Surgeon J. J. Routh, M.R.C.S. ; Surgeon M. E. Reporter, L.R.C.P. and S. Edin.; Surgeon W. H. Karney, L.R.C.F.and S.Edin.

Financial Statement.-The Honorary Treasurer then presented a statement of the accounts of the Branch for the phast Year, showing a balance of Rs. 52168 , also a Government pro. note for Rs. 1,000 , to credit on December 31st. It was proposed by Sur-geon-Major Drake-Brockian, and seconded by Surgeon-Major Allison, that Brigade-Surgeon Fox and Surgeon C. M. Thompson be asked to audit the accounts for the past year. Carried unani-
mously. mously.
Branch Subscription.-In accordance with Rule VI, it was proposed by Surgeon-Hajor E. F. Dratie-Hrockian, and seconded by Surgeon-Major BrasFoot, that the subscription for the year be fixed at Rs. 188 . Carried unarimously.

Votes of Thanks.-A rote of thanks was then proposed and carried unanimously thanking the IIonorary Treasurer for his exertions on behalf of the branch during the year. - A rote of thanks was also proposed and carried unanimously thanking the Honorary Secretary for the manner in which he liad discharged the duties of his office during the year.

Election of Officers.-The meeting then proceeded to the election of oflice-bearers for the year with the following results:President: Surgeon-General G. Bidie, M.B., C.1.E. Tice-President: Deputy Surgeon-General S. B. Roe, I.B., C.B. Committee: Surgeon-11ajor E. F. Drake-Brockman. F.T.C.S.; Surgeon-Mlajor II. W. A. Mackinnon, D.S.O.: Surgeon-Major A. M. Branfoot, M.1., Surgeon D. F. Dymott, M.J.: Surgeon C. 3. Thompson, M.B. Prooisional Members of Committee: Surgeon-Major A. L. Ilackett: Surgeon J. Smyth, M.D. Monorary Treasurer: Brigade-Surgeon C. Sibthorpe, F.K.Q.C.I.I. Honorary Secretary: Surgeon-Major H. Allison, M.D. Representative in Council: Surgeon-General W. R. Cornish, C.I.E.

## border colenties brancir.

The spring meeting was held at Cockermouth on May fth: Dr. McLeob, l'resident, in the clair. Twenty members and one visitor were present.
Horse Tar.-The Presinent haring introduced the question of the taxing of doctors' horses as pleasure linrses, it was moved by Dr. Hamilton (Hawick) and seconded by Dr. Ronertson (Penrith), that a letter should be sent to the Chancellor of the Exchequer protesting against the tax, and that a copy of the letter should be sent to the borough and county members in the District.
Fees to Mitnesses.-In opening a discussion on the question of fees paid to medical wilnceses at assizes and county sessions, Dr. 1Itimet said that he had always wondered Why the members of the 1 rofession had zo quietly sulmitted to what in his opinion was slort of a public scandal. Medical

Annual Report－－The Paesidrist read a report of the proceed－ ings for the past year，and suggested certain things which would help to make the meetings more useful．He then vacated the chair，which was taken by the incoming President，T．A．Buck， M．B．，of Ryde．

Fote of Thanks to Outgoing President．－A vote of thanks to the outgoing President was carried unanimausly．
President＇s Address．－Mr．Buck gare an address on Therapeutics in Relation to Pathology，for which a rote of thanks was unani－ mously accorded．

Office－bearers．－The following officers were then elected；Tice－ President，in place of Dr．Ilarvey，left the island：Surgeon－Major Grant．President－elect：Dr．Gibson，Cowes．Vice－President－elect： Dr．Wm．Hoffmeister，Cowes．Honorary Secretary and Treasurer： Mr．W．E．Green was re－elected．

Accounts．－The accounts，having been audited，were passed，and a subscription ont of the surplus funds in aid of the Medical Benerolent College was giren．

Fert Meeting．－The selection of the next place of meeting was left to the Secretary

Communications．－A Case of Presumed Cerebral Aneurysm was related by Mr．Fryer．－Mr．Grees exhibited l＇ieces of Skull re－ moved from a Patient who had made a determined attempt at suicide by means of a coal－hammer．

Dinner．－The members afterwards dined together．
BRITISH GUIANA BRANCII．
THe quarterly meeting of this Branch was held at the Pnblic
Hospital，Georgetown，on April 6th．There were present，R．
Grieves，M．D．，the Surgeon－General，in the chair，Drs．Anderson， Pollard，Finlayson，reendam，Castor，Wallorige，Ferguson，Honi－ ball，Ozzard，Delamere，Hill，Texeura，Reid，Law，and the Secre－ tary．Drs．Fallon and Pereira were there as visitors．

Miscellaneous Business．－The minutes of the last meeting were read and confirmed．Letters from Drs．Ilillis and Massiah apolo－ gising for non－attendance，were receired．－Dr．ANDERson made a last meeting，to the effect that no report had been made on account of the non－attendance of so many of the members．A discussion followed，and，on the presposal of Dr．Cistor，it was agreed that the Committee be discharged．This was then done－ Dr．Dexamere gave notice that he would more at the next meet－ ing for the appointment of another committee．－The printing of the transactions of the Branch was discussed on the motion of Dr． WALLBIDGE，to increase the subseription for arlyisable to hase he decision was come to，it being dossible opinion of as many members as possible on the point．

Communications．－Dr．PoLLARD read a paper on some cases of severe intestinal injuries，and on oleander as an agent for procur－
ing abortion．This was followed by an anmated discussion． ing abortion．This was followed by an allmated discussion．－Dr． reported and read notes of a case of this disease cnding fatally．I number of members took part in the diseussion which followed．－ Dr．Anderson showed a specimen of abdominal aneurysm．

Neat Meeting．－The President gave notice that the next meet－ ing would be deroted to the discussion of yellow fever，and ex－ pressed a hope that all members would give the Branch the benetit of their knowledge nnd experience．

Fotes of Thanks．－Votes of thanks were passed to the readers of the rarious pajers，and the meeting closed．

## BRITISH MEDICAL ASSOCIATION． <br> \section*{FIFTX－SIATH ANNCAL MEETING．}

THe fifty－sixth Anmual Meeting of the British Medical Association will be held at Glascow，on 耳＇uesday，W户ednesday，Thursday，and Friday，Angust 7th，8th，Eth，and 10th， 1808 ．
President：Jolin T．Banks，M．D．，D．Sc．（Mon．），F．K．Q．C．P．I．， Presuent：John Plysic in the University of Dublin． Allbutt．M．D．，Consulting Physician，Leeds General Infirmary．
An Address in Surgery will be delivered hy Sir George II．D． Macleod．M．D．，Surgeon in Ordinary to Her Majesty in Scotland．

A Special Addrese on his＂Recent lnvestigations in Surgery＂
will be given by William Hacewen, M.D., Lecturer on Clinical Surgery, Glasyow Royal Intirmary.

An Address in Physioiogy will be delivered by John Gray Mckendrick, M.D., LiL.D., F.R.S., Professor of lnstitutes of Medjcine, University of Clasgow.
A. Medrerve--President, T. MeCall Anderson, M.D. Iice-Presidents, W. L. Bowles, M.D.; George F. Duffey, M.D. Honorary Secretaries, J. 3cGregor Robertson, M.D., 400, Great Western Road, Glasgow; Robert M. Simon, M.D., 2h, Yewhall Street, Birmingham.
B. Surgery.-President, George Buchanan, M.D. Fice-Presiclents, James Dunlop, M.D.; Charles Robert Bell Keetley, F.R.C.S. Ionorary Secretaries, David Neilson Knox, M.B., 8, India Street, Glasgow: Walter Pye, F.h.C.S., 4, Sackrille Street, Piccadilly, London, 15 .
C. Obstetrio Medicine.-President, Thomas More Madden, M.D. Vice-Presidents, William Leishman, M.D.: J. IIalliday Croom, M.D. IIonorary Secretaries, William Walter, M.D., 20, St John Street, Manchester; W. L. Reid, M.D., 7, Royal Crescent,
Glasgow. Glasgow.
D. Public Medicine.- President, Henry Duncan Littlejohn, M.D. Lice-Presidents, James Christie, M.D.; D. Page, M.D. Monorary Secretaries, Ebenezer Duncan, M.D., t, Royal Crescent, Crosshill, Glasgow ; John C. McVail, M.D., Holmhead, Kilmarnock
E. Psychology.-President, James C. Howden, M.D. Iice-Presidents, James Rutherford, M.D.; Julius Mickle, M.D. Honorary Secretaries, A. R. Urquhart, M.D., Murray IIouse, Perth; Alex Diewington, M.D., Tieehurst, Sussex.
F. Anatomy and Physhology.-President, John Cleland, M.D. LL.D., F.R.S. Tico-Presidents, R. J. Anderson, M.D.; Ilenry Edward Clark, F.F.P.S.G. IIonorary Secretaries, John Barlow, M.D. 77. Elmbank Crescent, Glasgow; Charles Burrett Lockwood, F.R.C.S., 19, U'pper Berkeley Street, Portman Square, W.
G. PAtroLogy:-President. Sir William Aitken, M.D., F.R.S. Vice-Presidents, Alexander Daridson, M.D.; Joseph Coats, M.D. Charles Roy, M.D., F.R.S. IIonorary Secretaries, G. Sims Woodhead, M.D., G, Marchhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34, Berkeley Terrace, Glasgow.
II. Ophthalmology. - President, Thomas Reid, M.D. Tice-Presidents, J. R. Wolfe, M.D.; C. E. Glascott. M.D. Honorary Secretaries, Heary Bendelack Hewetson, M.R.C.S., II, IIanover Square, Leeds; A. Freeland Fergus, M.B., 41, Elmbank Street, Glasgow.
I. Otology.-President, Thomas Barr, M.1). Fice-Presidents, John Astley Bloxam, F.R.C.S.: J. J. K. Duncanson, M.D. Monorary Secretaries, Johnstone Macfie, M.D., 23, Ashton Terrace, Glasgow ; James Black, F.R.C.S., 16, Wimpole Street, London.
J. Diseases of Children- - President, Walter Cutler Cheadle, M.D. Jice-Presidents, James F'inlayson, M.D.; Henry Ashby M.D. ITonorary Spcretaries, George S. Middleton, M.D., 23, Sandyford llace, Glasgow; W. Arbuthnot Lane, M.S., F.M.C.S., 14, St.
K. Pharmacolocy and Therapeutics.-Presilent. James Morton, M.D. Jice-Presidents, John Dougall, M1.D.: Theadore Cash, M.D., F.R.S. MIonorary Secretaries, Alexander Napier, M.D., 3, Royal Terrace, Crosshill, fiasgow; Sidney Ilarris Cox Martin, M.D., 60, Gower Street, London, W.C.
L. Larysgoloriy and Rhinology.-President. Felix Semon, M.D. Ficm-Prasidents, Gcorge Hunter Mackenzie, M.D.; Peter McBride, M.I. Momorary Serretaries, D. Newman, M.D., 18, Woodside Place, Glasgow; A. E. Garrod, J.D., 9, Chandos Street, Caven-
dish Square.

Honorary Local Secretaries, John G. McKendrick, M.D., F.R.S., 45, Westhourne Fardens, Glasgow; James Christie, M.D., Hillhead, Glasgow ; John Glaister, M.D., \&, Grafton Place, Glasgow.

Programare of Proceedrags. TUFaDAY, A['GITST TTH, IRRG.
9.30 A.M. Meeting of $188 \%-1889$ Council.
11.30 A.M.-First General Meeting. leport Committees. Service in the Cathedral. Reports of djourned General Weeting from laedral.
8.30 P.M.-Adjourned
Address.

Wednraday. AcGUSt 8th. 1883.
9.30 A.M. Weding of 1888-89 Council

2 P.M.-Sgefional Meotings.
3 P.m.-Second General Mpeting. Address in Menciue by
Thomas Cliford Allbutt. M.D. F.B.S.

Thurgidy. AUGUST 9TH, 1898
9.30 A.m. - Aldress on his lecent Surgical Investigations bs

11 м Hiliam La*ewen, M, D
10.30 A.M. to 2 A.M. - Hecting of Council.

3 P.M. - Third General Mepir Georse II. B. Macion Aldress in Surgery by Sir ublic Dinner. Macteod, M.D.
10.30 A. . . to 1.00 P.M.-Sectional Meetings.

3 P.M.-Concluding General Meetiog. Address in Physiology by John G. Mckendrick, M.D., F.R.S. Saturday, August llte, Ig8s.
Excursions
Francis Fowfe, General Secretary.

## SPECIAL CORRESPONDENCE.

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Disinfection of Tubereulous Sputa.-Transmission of Tuberculosis from the IIuman Subject to the Dog.-Experiments on Hereditary Alcoholism.-The Actual Cautery in the Treatment of Epilepsy.-Chloral in Diphtheria.
Ar the meeting of the Societé de Médecine Publique et d'llygiène Professionnelle, February 22nd, 1838, M. Grancher gave the results of researches made by himself and Dr. De Gennes, on the disinfection of tuberculous sputa. The air exhaled by tuberculous patients does not affect animals, therefore it does not contain bacilli. M. Grancher and Dr. De Gennes disinfected tuberculous sputa with carbolic acid at 5 per cent.; potassium, at 5 per cent.; sulphate of copper, at 5 per cent.; chloride of zinc, at 5 per cent.; corrosive sublimate, at 1 per cent. Guinea-pigs were submitted to injections of sputa thus disinfected. The results were not encouraging; the corrosive sublimate alone appeared to kill the tuberculous bacillus. It is difficult, however, and even dangerons, to use it at 1 per cent, Guinea-pigs were inoculated with sputa which had beell mixed with hot water, and exposed to a temperature of $60^{\circ}, 80^{\circ}$, and $100^{\circ} \mathrm{C}$. It was discovered from these experiments that the bacilli resist water at $60^{\circ}$, are nearly always killed at $80^{\circ}$; and at $90^{\circ}$ and $100^{\circ}$ are always killed. MM. Geneste and Herscher have constructed an apparatus to bo placed near each hospital ward. M. Lailler asked if it would not be possible to have one apparatus only for each hospital, on account of the expense; and if the apparatus could not he heated by steam instead of gas. Dr. Ollivier remarked that M. Graucher's experiments proved the insufficiency of the ordinary means of disinfection, such as chloride of zinc. Meat should be always well cooked; and when prescribing it raw, the physician should ascertain that only non-tuberculous mutton was used. M. Grancher replied that raw meat was not dangerous. The experiments of $M$. Nocard prove that the bacillus of tuberculosis rarely exists in the flesh or juices of animals that die of this disease, unless ther be tuberculous glands.

Dr. Bourgougnon publishes in the Journal de Médecine, March 18th, 1888 , a case in which tuberculosis was transmitted from a human being to a dog. "The patient bad suffered for some time from a slight, dry, exhausting cough, feverishness at night, and intermittent pains in the thorax. His father died of an affection of the heart, his mother of phthisis; two sisters died from tuberculosis, one at 19 , the other at 27 years of age. The patient, when first examined, presented no symptoms of tuberculosis. After some months, however, cough and fever increased; the patient became breathless after going upstairs, lost flesh, and had nocturnal sweats. In the month of February, 1886, distinct crepitations and dulness were heard under the left clavicle. Finally, in October, 1886, he died with all the symptoms of pulmonary tuberculosis, the disease having lasted about fifteen months. On first visiting the patient I noticed a dog, whose extreme thinness attracted my attention. This dog barked at me whenever lentered the room, and I observed that after barking he was seized with a fit of coughing. The persistence of this symptom, together with the continual loss of flesh, awakened my curiosity and reminded me of the cases of contagion reported by Dr. Léon Petit. I advised the patient to have the dog sent to a veterinary surgeon. This was done, with the result that the animal was pronounced ta b $\theta$ tuberculous. The dog became morse and worse, extremely thin,
its hair rough, and as stiff as if it had been brushed backwards.


#### Abstract

The owner would have had it killed, as its cough was cistressing,


 the expectorations frequent, and the appetite quite ori, him to let the disease tiknortem examination. Meanwhile I learned that the dog had been given to the patient's sister as a puppy, and during her illness had heen literally brought up in her bed. After her death my patient had taken care of the dog, which had thus been hrought up in contact with two tuberculous patients. The dog died in the last stage of phthisis in November, 1886. M. Plouchart, veterinary surgeon, of Tours, made the post-mortem ex-amination in my presence. The lungs were riddled with tubercles the left lung contained many patches of goftening. The peritoneum was covered with miliary tubercles. The left kidney presented a great number of miliary tubercles; in the right we found four or five tuberculous nodules in process of softening. The stomach and intestines were healthy. It is evident that the disease wss transmitted to the animal by my patient and his sister, tuber-
culosis being of culosis being of very rare occurrence in dogs. The mode of trans-
mission is not quite clear. The dog doubtless absorb, from swallowing the aputa or vomit of the patients, yet the healthy condition of the stomach and intestines would point to ita having acquired the disease by the respirstory organs."
At the meeting of the Académie des Sciences on March 5th, MM. A. Mairet and Combemale related their observations on the degeneof a dog submitted to ince of alcolol. Twelve puppies were born young, heslthy bitch with no defect. Two were stillborn, three died accidentally; the seyen others succumbed to various diseases epileptic attacks, verminous enteritis, pulmonary and peritoneal tuberculosis. At the necropsy lesions, evidently arising from alcoholic degeneration, were found : thickening of the bones of the skull, premature closing of fontanelles, adhesion of the dura mater to the cranial hones, difference in weight of the cerebral hemispheres, fatty degeneration of the liver. A strong, intelligent bitch, during the last three weeks of gestation, was intoxi-
cated cated with absinthe, and gave birth to six puppies, of which not at all intellign two were well developed physically, but were senting defective intelligence and a remarkable degree of anosmia. X , presenting symptoms of degeneration more especially of the nervous system, was coupled with a atrong, intelligent dog. She
gave birth to three puppies, one of which had flat foot, atrophy gave birth to three puppes, one of which had flat foot, atrophy
of several of the toes, wolf's mouth; a eecond died of marasmus; the third was attacked with atrophy of the hind legs. From the latter case it would appear that the degenerative influence of alcohol is greater in the second than in the first generation.
At the meeting of the Sociéts Médicale des Hôpitaux, Msrch 23rd, 1888, M. Charles Fér'́ called attention to an epileptic patient now under his care whom he had treated by applications of tients in his adult epileptic ward at Bicêtre. All the patienta presented hemiplegia; some were affected with Jacksonian epilepsy, others with the common form. M. Féré applied the
actual cautery actual cautery every two or three days to the parts corresponding aibility of suppuration. The attacks were remarkably diminished in frequency and violence in the cases thus treated.
Dr. Adolphe Mercier (of Besançon) has utilised the antiseptic properties of chloral in the treatment of diphtheria in children when excellent results. He proceeds in the following manner: When the tongue is thick, coated, and swollen, the child is given
an emetic of ipecacuanha, without tartrate of antimony, which causes prostration. When vomiting has ceased, syrup of chloral, prepared according to the French codex (at 5 per cent.), is given every half-hour, in doses of two, three, or fire grammes, according to the age of the pstient. It is better to begin by giving the child rather large doses in order to keep him in a state of zomnolence, as medicine is then more easily administered. The suhmaxillary and anterior regions of the neck are covered with \& thick layer of belladonna ointment, and wrapped up in cotton-wool. In order to keep the throat impregnated, and prevent the chloral from causing pains in the stomach, the patient is given something to drink every time before, and not after, taking that remedy. As long as he continues taking chloral, to which M. Mercier regularly adds syrup of bark, the patient may eat and drink whaterer he fancies-milk, wine, lemonade, or any solid food. This treatNo change ever takes place before twenty-four hours. In forty hours the false membranes begin to come away, and have com-
pletely disappeared by the forty-eighth hour. In the care of patients with fair hair and white akin, they may only come away on the third day. After the separation of the false membranes, the syrup of chloral causes smarting in the throat, and must then be stopped. In rare cases the loosening of the false membranes leaves the tonsils red or swollen. An astringent gargle will do away with any swelling of that kind. A thick coating of vaseline applied to the neck will get rid of any pustular eruption caused by the ointment. If during the illness any spasms or dyspnoea chlorate of throat is painted with a 1 in 50 solution of hydrochorate of cocaine. Prescribed in the last stages of the disease,
when the voice is gone, and laryngeal diplatheria has set in the chloral treatment would be rather injurious than otherwise.

Complete Bilateral Symblepharon.-Excision of Indurated Tissue and Enlarged Glands in Syphilis.-Erythrophlam. Docens Dr. S. Czermak brought before the Imperial Royal Society of Plysicians a case of complete bilateral symblepharon in a young boy, who had had, two years before, an eruption of vesicles about the size of a bean, which, in part, contained a yellow and clear fluid, and, in part, a bloody liquid. The vesicles first appeared on the trunk, and later on also on the extremities;
there there were symptoms of fever at the same time, and the patient
lost flesh considerably. After a year similar eruptions also out on the face and eyelids. The latter were greatly same and there was a purulent discharge. At present the eye-cleft was transformed into a shallow furrow, and no trace of the conjunctiral sac was present; the upper eyelid was for the greatest part denuded of the eyelashes, and a longitudinal immornormal in appearance. The mobility of the eyeball was much impaired owing to its adhesion to the conjunctiva. Similar conditions, though not so distinctly pronounced, were also present in the other eye. The perception of light wss normal, but the projection uncertain. Numerons smooth and nonpigmented scars were, moreover, present on the face and the trunk. There was no doubt, Dr. Czermak remarked, that the symblepharon in this case was due to a "syndesmitis degeneratira" (Stellwag), or to an essential ahrinking of the conjunctiva ("essentielle Bindehautschrumpfiing"). According to recent obserrations, this affection was to he looked upon as a localisation of "pemphigus rulgaris" on the conjunctiva, which, in the opinion Taking into , might also be seen here in an isolated condition. bable that such causal relation was also present in the case under consideration. No scars, indeed, were observed in pemphigus, which, so far, seemed to negative such a supposition; on the other hand, some vesicles had become covered with a croupousdiphtheritic layer. The occurrence of symblepharon was very rare, and only twenty-five cases of the kind had been reinduce shrinking of the conjunctiva by brushing it witt nitrate of silver always failed; and the same was true of the instillation Dr. Neumann showed a patient from whom he had a long time ago remored the primary hard sore, and the enlarged lymphatic glands, on the thirty-first day after syphilis had been conracted. A macular rash and desquamatho papues nevertheless
appeared over the lower part of the abdomen on the fif day. The patient, who seemed to be quite cured after a long course of treatment. came again under the care of Professor Neu-
mann mann, on April 16th of the present year, with the following
ayphilitic lesions; gummatous orchitis: syphilitic ulcers and gummata on the posterior wall of the pharynx and the soft palate, as well as periostitis of the tibia. This observation sufticiently proved in the opinion of the speaker, that extirpation of the
primary primary indurated chancre and the lymphatic glands not only did not even manc spread of the syphilitic affection, but that it did 1r. Adolf Onodi gives, in the Orvosi Metilap, a summary of his observations on trelve patients, and concludes that erythrophloein
is undou is undoubtedly a powcrful auresthetic, the effect of which comes that of the cocaine. Local anesthesia persists for eight hours even longer from the time of instillation. It has, nevertheless,
rery disagreeable after-effects, such as headache, giddiness, sometimes even fainting fits; in particular it dims the cornea for several hours. When applied to the nose, the mouth, the soft palate, and the external oritice of the uretbra, a 0.20 per cent. solution caused a slight sensation of burning. He did not venture to use stronger solutions.

## BERLIN.

## [from our own correspondent.] Dangers of Antispptics.

AT the last meeting of the Berliner Medicinische Gesellschaft, Dr. Emil Senger read a paper on the influence of antiseptic remedies on the organs of the body, with special reference to operations on the kidney. It is well known that after nephrectomy, or even nephrotomy, many patients die with symptoms of uremia or anuria, even when it had been ascertained beforehand by careful examination that the other kidney was quite lealthy and capable of secreting the necessary amount of urea. Dr. James Israël, chief surgeon of the Berlin Jewish Hospital, has propounded a very complicated theory as to certain nerrous sympathies between the two kidneys, whereby an operation on one may give rise to degeneration of the other. Senger has now proyed by experiments on rabbits and dogs that our antiseptic remedies are the cause of these complications. IIe injected into the animals, when in perfect health, one tenth or twelfth part of the quantity of corrosive sublimate, carbolic acid, etc., which is sufficient to kill them. He then extirpated one kidney, and examined it microscopically, with the result that in all cases be found glomerulo-nephritis. There was exudation between the glomerulus and the capsule, and the epithelium of the tubuli contorti was almost entirely destroyed. 11e found also fatty degeneration of the liver, the spleen, the heart-muscle, etc. The various antiseptic agents were found to be injurious in different degrees, corrasive sublimate being the most dangerous, then the others in the following order: iodoform, carbolic acid, salicylic acid, boric acid. Senger therefore recommends surgeons to avoid antiseptics in operations oul the thorax and abdomen, and urges them either to eraploy sterilised water after the manner of your compatriot, Mr. Lawson Tait, or a solution of salt. By bacteriological and pathological researches be proved, first, that this kills the streptococcus pyogenes aureus in trenty-eight minutes, and that the effect is independent of the degree of coucentration, for a 5 per cent. solution is just as effcctual as a 20 per cent. Secondly, he claims to have shown that chlorate of sodium does not in any, way injure the organs, and that no dose is strong enough to kill any
animal.

## SWITZERLAND. <br> [FROM OUR OWN CORRESPONDENT.] Abdominal Massage in Habitual Constipation.

A vpry instructive lecture on the treatment of habitual constipation by abdominal massage was read at a meeting of the Medicinisch Pharmaceutisclien Bezirksverein von Dern, by Dr. Bueler. The method (which, by the way, was employed in a rather primitive form ly the celebrated Dr, Tissot, of Lausanne, in 1780) seeras to tind favour with the Beruese practitioners. Of 30 persons treated by Dr. Bueler after this plan, 18 were permanently cured; in one a relapse occurred in two months, and in another (a case of chronic gastro-intestinal catarrh, with dilatation of the stomach), the constipation still persists, though all digestive disturbances disappearce under the influence of a periodical evacuation of the stomach by means of manipulations in the epigastric region. Cure was effected in from four to six wceks, or after from twelve to twent $y$-five sittings (three sittings weekly), No unpleasant effects were ever observed, even when very energetic manipulations were performed on old people (of sixty-five, or thereabouts). Dr. Bueler lays stress on the fact that massage is not simply one therapeutic agent, but a comlination of several factors
powerful for good or evil, according to circumstances. The physiological effects of massage are said to be of the following four kinds: 1. The mechanical action, which is the most important of all, and which is not limited to the gastro-intestinal contents, but extends also to the large abdominal glands, reemoring obstruction of their ducts, ctc. This has often been proved by the successful results of massage in cases of focal accumulation, jaundice (depending on obstruction of the bile-luct), ileus, invagi-
nation, volvulus, etc. The most powerful mechanical effects ar produced by kneading ( Kineter, pétrissage), which loosens impacted fecal matters; and by stroking (Streichung, efleurage), Whicl girea "a natural direction to the contents loosened" by the former manipulations. Sahli's massage by means of a cannon ball (see Journal, vol. i, 1887, p. 1171) is said to have only a mechanical effect. 2. The reflex effect of massage must be admitted, in view of the physiological fact that, on briefly touching the abdominal wall, a contraction of the intestinal muscular coat always follows. The effect is best produced by slapping (Klatschung, tapotement) with moderate force. Certain cases of habitual constipation can be cured solely by manipulations of this kind. This is well illustrated by Dr. Bueler's case of a student who had been snffering from constipation for five years, which resisted all treatment, and who was permanently cured after a course of eight weeks' duration, tapotements being repeated three times weekly. 3. The thermic action of massage is thought to be proved by Alosengeil's observations with Geissler's thermometer, the rise of the local temperature after a sitting varying from fo to $3^{\circ} \mathrm{C}$., and lasting for three or four hours. To obtain the greatest thermic effect, "dry" manipulations (that is, without oiling the parts, or, still better, with a rubbing glove, or after covering the parts with a piece of flannel) are recommended. The therapeutic ralue of the thermic effects of massage is placed by the author side by side with that of the popular treatment of constipation by hot poultices, as well as with certain hydrotherapeutic methods. 4. The chemical action is more bypothetical. It is supposed that abdominal massage, while causing marked hyperæmia of the local integuments, eo ipso gives rise to an arterial anæmia, with venous hyperemia of the peritoneum and relative accumulation of $\mathrm{CO}_{2}$ in the intestinal circulation, leading to increased peristalsis. "The problem of the practitioner in every indiridual case of constipation before him," the author says, "is to find out which of the therapeutic elements of massage is most suitable and promising; whether the procedure must aim only at strengthening the tonicity of the abdominal muscles, or must act in a more mechanical way, or in a refles or thermic manner." This question being settled, the procedure can be considerably simplified by omitting all unnecessary manipulations. The author coudemns a routine practice of massage in all cases without discrimination, and insists on the strictest adaptation of the treatment to eacb particular case. Manipulations which lead to a rapid cure in one group of cases may be followed by injurious consequences in another. Thus, in cases of chronic constipation, caused mainly, if not solely, by extreme weakness and Habbiness of the abdominal walls (as in multipare, or in old men with pendulous bellies), such manipulations as forcible separation of the abdominal recti by inserting the tips of the thumbs and fingers deeply between the edges of these muscles along the linea alba are indicated. The muscles respond by sharp contractions, which are further intensified by strong transverse strokings in an outward direction from the middle line. At the same time the diaphragm should be strengthened by deep inspirations, etc. On the other hand, in cases of constipation depending upon atony of the intestine (as is often the case in persons of sedentary habits), Dr. Bueler begins the sitting with gentle, gradually intensified and deepened strokings, and finishes by moderately strong slappings. In cases of constipation caused by dyspepsia, and sometimes complicated with dilatation of the stomach, he limits his manipulations (strong strokings) to the gastric region. Tro cases of the kind, which were treated in this way twice weekly, were permanently cured in four weeks. As some special experiments (by washing out the stomach, and the administration of salol combined with its subsequent detection in the patient's urine) have clearly proved, the epigastric rubbing empties the stomach under the manipulating hiand. The author localises massage in a corresponding way also in cases of frecal accumulation in the cecum and sigmoid flexure. In hibitual constipation dependent on cerebral or spinal neurasthenia (in hypochondriacal or hysterical subjects), only such procedures as strong slappings with subsequent dry rubbings are indicated. In three of Dr. Lueler's patients hæmorrhoids (sometimes as lig as half an egg) were present; in every case their size was greatly diminisled after the very first sitting, the swelling disappearing completely and permanently in four weeks (earlier than the constipation). He adds: "I am so clarmed with this observation that in future. I will recommend to my hemorrhoidal patients abdominal massage as the first thing to be tried.'

Che most disappointing results from the massage treatment seem o be obtained in cases of constipation depending upon adhesions eft by previous attacks of general or local peritonitis. Dr. Bueler Cecls sure that "a large proportion of similar adhesions is due to he exaggerated fears of practitioners," who keep ice-bags on the belly or give opium too long. He thinks that it would be more cational to resort to a gentle effleurage as early as possible after He adduces a case of acute symptoms in all cases of phlitis in a lad aged 17 , where from the thirteenth day of the disease (the nintli after defervescence) he daily made first gentle and then gradually intensified strokings in the ileo-cæcal region, and was highly gratifieü to see that the exudation, which was very considerable, melted away in about eight days, without leaving any trace.

## MANCHESTER.

[FROM OUR OWN CORIESPONDENT.]

## Orcens College : Large Attendance of Students.-Chair of

 Surgery.I stated in my last letter that the atteudance at the medical school of Owens College was likely to be large during the present summer. I understand that the attendance is very largelarger than in previous years. This is not to be wondered at, considering the fact that Owens College is in the centre of such an laboratories of this school are equipped. It seems that the accommodation in the pathological and physiological laboratories is taxed to the uttermost, but the increased needs will speedily be met.

The Chair of Surgery is now declared vacant, and candidates are invited to apply for the office. It is said that there may possibly be some rearrangement of the duties of the professor, whereby the whole surgical department of the College shall in future be under the direction of the professor of surgery. $w$ e understand that Mr. Hardie, Mr. Jones, Mr. Southam, Mr. Conier, and perhaps other local surgeons, are likely to be candidates, As appications will be received until June 9th, it is possible that other candidates may be announced.

## CORRESPONDENCE.

THE BIRTHPLACE OF CONSUMPTION.
Sir,-I always read your JOURNAL, and I get much good from the perusal. I was, however, surprised to see your editorial of February 25th, 1880, on the Birthplace of Consumption. In that article you throw doubt on the validity of the law of soil moisture as one of the well-established laws of the disease, and You deem the researches made in two successive years ingland. friend Dr. Buchanan, and supported in the strongest manner by Mr. Simon, then medical officer of the Government, as of doubtful ralue as a proof of the existence of such a law. The statistics presented by these gentlemen, which 1 have always deemed most convincing, your editorial woild throw aside as at least donbtful, are worse than useless, because misleading But, notwithstanding your commanding opinion, I do not give up my belief in the general accuracy of these English researches, because three years betore they were announced I had found that in New England certainly the law holds good exactly as promulgated by Messrs. Sinon and Buchanan. So assured have I been of its truth that I have acted upon it in my medical practice for the past quarter of a century, I always inquire about the residence of a patient as much as I do about the symptoms in erery case. As a patient who maj be liviug on a damp soil or in a house having a damp cellar that remoral from the house is absolutely necessary. I have found that removal from a damp ralley to a dry laill within sight of the homestead has been of value as a remedial measure. Under these circumstances, you will, I think, admit that it is reasouable for me to doubt your conclnsions, and that I shonld wish to lay before you for your candid opinion the facts 1 have gathered relating to the question.
l send by this mail an address delivered by me before the Maseachusetts Medical Society at its annual meeting in 1862 . In this
you will find data relative to the existence of this law in New England. The fact that here as a rule, as in the "Mother Conntry" (as we love to call "Old England"), residence on a damp soil is International Congress to investigate the question in order to decide whether the law prevails generally over, the globe. On three occasions I have tried to gain this by asking for a "World's Commission," consisting of one or more persons from every country represented in the Congress, whose duty it should be to get categorical answers if possible to the two following questions:

1. Is any part of your township (or any other definite division of the territory) more liable to have cases of consumption in it than are found in other parts of the same territory?
in regard what, if any, are the peculiarities of the spot, especially Having been unable to be present at any of these International Congresses, the matter has not been mooted because the personal presence of the maver of such an investigntion is required before the Congress will act.-I am, etc.,

Boston, U.S.A., April 24th.
HESRY J. Bowditch, ML.D.
** Dr. Buchanan's conclusions in regard to the relation between soil moisture and phthisis were universally accepted until Dr. Kelly, the medisal officer of health for East Sussex, proved them to be, in part at least, unreliable. Dr. Kelly found the order of precedence as to death-rate from phthisis of the districts examined when examined for the period 1861-70. He likewise points out that most of the impervious beds of subsoil are to the north of the South Downs, and that consumption seems most common in places rhich are bleak and exposed as well as damp. And in general he insists on the fact that in West Sussex (and, indeed; great decrease in the mortality from consumption. As there been no change whatever in the drainage, this certainly throws a doubt on the validity of Dr. Buchanan's earlier inquiry as to the effects of samitary improvements. Dr. Kelly is inclined to attribute it mainly to the progress which has taken place in the social state

## THE ELECTRICAE TREATMENT OF DISEASES OF THE UTERUS.

Siru,-The discussion at the meeting of the Brighton and Sussex Medico-Chirurgical Society has not helped us much, for there is nothing new in the paper, and old stories are retold in the disroboration of all that was known, and a pretty exact statement of what may be expected from this line of treatment.

I would like to repeat what I have already stated on this aubject before: that it is only from an accomplished electrician liko Dr. Stearenson that we are likely to get at the true facts of this most involred question. Dr. Playfair says that the "manipula-
tion of the apparatus, so far as the electricity was conal offered no difficulty at all; any intellicent student could concerned, in half an hour." And this kind of view, it seems to me, is the cause of the dreadful stories we hear about it. I have gone carefully into the question, and I am satisfied that only skilled electricians should sttempt it. Further, let me say that Dr. Steavenson's results are stated from the openly displayed experience of a pubic institution, the work of a responsible officer carried out under the observation of skilled critics, and ander differest from
garded as having an importance altagether garded as having an ane else who bas ance spoken on the subject. Concerning the discussion at Brighton, perhaps you will permit me briefly to allude to the strange remark by Dr. Aveling that " it was quite amusing to observe the flutter of excitement which the recent adrancement of elong distinguished abdomingl promising opposition and their abuse and ridicule, one mas almast inclined to think these gentlemen feared their occupation was gone." I am not axare that any opposition, or abuse, or ridicule, has been directed towards the advancement of electrical treatment save in one direction, and that was Dr. Areling's own proposal to apply it for the arrest of hemorrhage in cases of ruptured would be of as much wase as a pinch of snuff, and I am still of that opinion. On the other questions I anl waiting for trustworthy evidence, like that of Dr. Steavenson.-I am, etc.,
7. The Crescent, Birmingham, May 12th. Lirson Tait.

SIR,-I do not think it right that the case described as hydrosalpinx by Dr. Apostoli in the Jocrnal of May 12th should be received without criticism. At the same time I do not wish to be considered as an opponent of Dr. Apostoli, or of the line of treatment associated with his name.
It has occurred probably to most of your readers that the clinical course of events in this case would have heen different under more favourable circumstances. Apart from an exact diaguosis, about which there are likely to be different opinions, the symptoms and physical signs point to an acute attack of inflammation in the neighbourhood of the uterus, and not only an acute attack, but to an attack accompanicd ty a large fluid effusion, for it may be taken for granted that the presence of evident fluctuation in a febrile inflammatory exudation is, if the bladder be empty, certain evidence of a large effusion either of serum or pus. It appears that the patient under these circumstances was not contined to bed, and was brought with difficnlty to the clinic, and each time worse. What does the new method consist of? Practically nothing but a puncture into the walls of the sac by a fine needle, followed by the passage of a current of 100 to 150 milliamperres. Naturally this was at last followed by evacuation of the fluid. Jany of us will probably feel that the simple treatment of absolute rest in bed and, if this was not alone sufficient, a direct puncture of the sac would have been at least equally efficacious.

We now turn to the diagnosis, and I wonld venture to say that whatever the condition of the tube may have been, the disease was retro-uterine perimetritis, with a large serous effusion. The clinical history and physical signs were almost typical, and without discussing them in detail, I may say without fear of contradiction that we have yet to learn that hydrosalpinx under any conditions erer gives rise to such symptoms and such physical signs. I will only mention the fixation of the uterus to the sacrum and the alteration of position of the punctures during conralescence as offering the strongest confirmation of the diagnosis of perimetritis.

Dr. Apostoli appears to have made his diagnosis on the character of the fluid evacuated only, having previonsly thonglit it a "peri-uterine phlegmon."

The gross pathological anatomy and clinical history of inflammation of the tubes and ovaries have yet to be studied and described, and until this is much further advanced than at present re must accept many statements about them with caution.-I am, etc.

## 1It, Iarley Street, W.

TIIE ALLEGED SUBVENTIONS TO GERMAN NEWSPAPERS.
SIR,-I shall be much obliged by your allowing me to contradict a calumny directed against the Cologne Gazette by "An Occasional Correspondent" from Berlin in your last issue (No. I428). After attempting to give an explanation of the so-called "Reptile Fund," he goes on to say that certain papers, which are commonly supposed to receive subventions (among them the Kölnische Zeitung) have come to be known among opposition journalists as the Reptilia.

Though all and each of these journals, as every German not blinded by partisanship well knows, are above the faintest suspicion of accepting bribes, I, as the editor of the Cologne Gazette (Kölnische Zeitung) may content myself with vindicating my own paper from such an imputation. It is quite as wrong and, I may add, quite as ridiculous to tax the Cologne Gazette with receiving a shadow of subvention from any quarter, or even to question its independence, as it would be to impugn the integrity of the Times or the Britisir Medical Journal -l am, etc.,

Cologne, May I5́th.
Dr. Augustus Schmits.

## ANALYSIS in auscultation.

Sir,-Under the above heading Dr. Mortimer Granville draws attention, in the Journal of April 28th, p. 901, to the advantage of a cross-piece connecting the elastic tubes of the binaural stethoscope.

Two years ago I exhibited before the Clinical Society of London n stethoscope of the same pattern which had been constructed for me by Messrs. Matthew, and which I have had in daily use since. Inasmuch as this arrangement enables the auscultator to compare different parts of the chest in rapid succession with both ears by alternately closing one of the chest pieces, the term "comparing stethoscope" seems more appropriate than any other. 1 find, however, that my idea was forestalled in 1881 by Dr. Constantin l'aul, who in the beginning of that year exhibited several
stethoscopes of various designs before the Académie de Módecine in Paris; and that Dr. Spencer's stethoscope, although constructed differently, fulfils the same purpose.-I am, etc.,
33, Curzon Street, Mayfair, W., May 9th.
HAILETBURY COLLEGE WELL.
Sin,-I wish to take the earliest opportunity of correcting a mis-statement made in my letter to you, published on May 5th. Some time previously I had asked a gentleman who has known the Haileybury well and its surroundings most intimately for the last thirty years to furnish me with particulars as to its relation to the River Lea and the Lea Valley. In the reply embodying his conclusions the words "above" and "helow" Were unfortunately (and unconsciously) transposed; and, in the haste necessary to ensure the early publication of my letter to you, I was unable to personally verify the statement in qnestion. I would now, therefore, frankly retract my published statement on this point. The bottom of the College well is indeed some sixty feet below the Lea, as appears on the reduced sketch-plan enclosed herewith. It would probably be difficult absolutely to disprove " lateral percolation "from the river to the well; but it is significant that they are a mile and a half (in strict accuracy I mile 833 yards) apart. - 1 am, etc.,

Charles Edward Shelle.
Hertford, Jlay J4th.

## TIIE TREATMENF OF PHTHISIS BY RESIDENCE AT HIGH ALTITUDES.

Sir,--In your account of the discussion of the paper on "The Results of the Trentment of Phthisis by Residence at High Altitudes," read at the Royal Medical and Chirurgical Society on Mas 8th, I notice some errors which have inadvertently crept into the report of my reply, which I should like to correct.

In answer to Dr. Hermann Weber's allusion to Dr. Dettweiler's treatment, I mentioned "Falkenstein," not "Frankenstein," as the place where it is practised; and in defence of my theory, of lung
hypertrophy at high altitudes, due to rarefaction of the ntmo-
sphere, 1 cited the increase of "resonence" sphere, I cited the increase of "resonance," not "nausea," as re-ported-"the increase of chest capacity and of breathing power, as measured by the spirometer." Dr. Quain's remark as to the absence of mention of constitutional symptoms was made in error, as these were included under the heading of "history and nature of cases;" and I may add that the paper included some typical cases, which it would have taken too long to read at the meeting.

Dr. Quain and your leader bath very rightly allude to the unfriendly and, I may add, ungratefal attitude of the Swiss authorities in refusing reciprocity to English practitioners, even when resident for many years in the country. The result will be that English physicians will not unnaturally hesitate to send patients where they are deprived of the services of their own countrymen, and will be induced to look to other high altitude stations, such, as those of Colorado and New Mexico, which have been proved to be equally efficacious, where comfortable hotels abound, and where English medical men receive a warm welcome from our sensible and large-hearted transatlantic cousins.-1 am, etc.,
Upper Brook Street, May 15 th.
C. Theodore Williams.

## THE APOTIECARIES' HALL, AND THE TITLE OF JTS NEW LICENCE.

Sir, -The licence of the Apothecaries' Hall now being a full qualification, it is only reasomble to ask that we who hold its new licence shonld be entitled to some letters of distinction, whereby the public may know we are authorised to practise both, medicine and surgery. Otherwise we shall always be at a very great disadrantage with practitioners who are granted separate medical and surgical diplomas issued by other conjoint examining bodies. The Hall licence is now granted under exactly the same rules and regulations as the diplomas and licences of other examining boards, therefore it would be a great injnstice if we were not granted a fuller title, and I am sure our Medical Conncil never intended such an injustice to a large section of the profession. I hope the matter may be taken up at once, and the Medical Council induced to decide the question at their meeting next week. 1 would suggest the title (which not a few have already adopted), namely, L.M. and L..S.Lond., Licentiate of Medicine and Licentiate of Surgery, London. Remember the licence is no longer
e licence of an apothecary simply, but a licence to practise edicine, surgery, and mid wifery.-1 am, etc.,
L.3I. and L.S.Lond.

TES AND TEETII.
SIR,-From your recent correspondence on this subject, it apears certain that tea has an injurious effect upon the teeth. It ets probatly in more than one way. First, tea is undoubte the most potent cause of dyspepsia, to promote caries. Secondly, here is the ill effect of drinking a very hot liquid. And, thirdly; ad 1 believe chiefly, there is the astringent effect of tannin upon he gums, lasting through their recession to exposure, and conseuent decay of the fangs. It would be interesting to hear from angs," whether this is preceded by recession of the gums. Tea ives an almost neutral reaction to litmus, so that direct acidity annot be laid to its charge.- I am, etc.,
London, May 12 th.
JiR. GEORGE HASTINGS AYD TIIE COMPLLSORY SOTIFI-
Cation of infectious Diselise. Sir,-At a meeting of the Greenock Medical Sociey Hastings,
lay 9th, the following statement made by Mr. George Hen Jhairman of the Select Committee of the IIouse of Commons, as reported in the Journal of Jay 5th, page 989, was considered:
"There is one great town in Great Britain which did adopt that very prorision, which is the town of Greenock, where they imposed notification only on the householders, and I have the authority of the medical officer of health of that town for saying that the system of notifying by the householder proved a complete failure.

It was resolved that Mr. George Hastings be asked from what printed record he ohtained such definite information, giving the date of such record; as the members present were led to believe on good authority that the medical officer of health now considered the compulsory notification being placed on the housebolders alone acted satisfactorily:- We are, etc.,
J. Robert Black, JI.D., President. J. Robert Black Paton, M.D., Secretary.

Greenock.

## NAVAL AND MILITARY MEDICAL SERVICES.

THE CILAIR OF IUGGIENE AT NETLEY. Tre believe it is more than prohable that Deputy SurgeonGeneral J. A. Marston, C.B.. will take up the duties of the late Professor de Chaumont at Netley, He temporarily filled the chair during Dr. de Chaumont's illness last summer. Dr. Marston will not retire, but wilp proba Chaumont's that retirea grievance of the late lamented Dr. de chaume this detriment, when ment as surgeon-saj.
the Nily estimates.
It the meeting of the Select Committee of the House of Commons appointed to consider the Nary Estimates, Mr. Camphell-Bannerman in the chair, Dr. Dick, Director-General of the Medical Department, gave eridence. Hle said he considered it would be desirable that naral medical officers on returning from abroad should have the opportunity of attening press of science. He
make themselves acquainted with the progres would recommend a system of one year's service at home. He thought an officer might remain at sea three years without opportunities of improving his knowledge. The number of sick daily in the nary areraged about to per 1,000 . On board a man-of-war, such as the Achilles, with ion men, the number of men sick daily would average about thirty-five, and there would be taree medical officers. The remoral of naval medical officers from Netley to ILaslar was partly from economy and partly to prevent dissatisfaction among the officers. At Netley Ilospital they became imbued with military ideas, which were not desirable. They had an excellent mess and were surrounded by military officers, and lived in an entirely different state of circumstances to naral officers. After being there six months they were drafted off, and then they found that the ideas they had formed at Netley were entirely delusive as regards the Naval Medical Service. They found they had a
small cabin, and none of the military surroundings which they had at Netley, and be thought a good many surgeons left the service in consequence. They sared $£ 2,500$ a year, which;was paid to probationers and professors at Netley. The proportion of men in the hospitals at home sumerng abolition of the Coneases was about a third since the proportion was much tagious Diseases Acts. Abroad the the Naral Medical Sersmaller. A scheme for been arranged and was ready to be put in force. They would be recruited from the civil profession. Efficient retired naval medical officers would be called upon to serve upon an emergency. They could be called out up to 55 years of age. At present the leave granted was fourteen days after a year on board. He should be glad to see the leave increased for all officers. Since the order of 1881 three staff-surgeons and six surgeons had retired voluntarily. Only three accepted the gratuity of $£ 1,000$ to which they were entitled in lieu of pension. Six inspector-generals, three deputy inspectorpensions depended on the length of service, and was from 68 . to S3. a day. The Contagious Diseases Acts were suspended in 1883, and repealed in 1886 . In 1870 the number of cases was 642 ; in 1871, 619 ; from 1872 to 1879 it varied from 738 to 887 ; in 1880 it was 994 ; in 1881, 1,124; in 1882, 1,169; in 1883, 1,943; in 1884, after the suspension of the . Icts,,- 153 ; in $1885,2,246$; in 1886 , 2,197 ; and in 1887 it had risen to 2,686 . The cost of medical treatment for the men was about 15 118. per head, and for feeding them it cost $£ 189 \mathrm{~s}$. From that it would seem that medical treatment was as high as a third of things. Ile agreed that about f3 also provisions, stores, and other things. Alas allowances. They were allowed a staff of 416 medical men, and they had actually 397 . The total cost of the medical service, including both effective and non-effective officers, was $£ 209,093$. Officers were entitled to retire after eight years' service. IIe thought that the fact of a door being open for retirement attracted men to the service, but when they got in they found themselves so comfortable that they did not wish to leave. Looking at the danger of accidents occurring in the dockyard, he did not see his way to trust to calling in civil practitioners there. They should not be left without medical the health of the nary was quite satisfactory, and in recent years had improved in a marked degree, apart from disease of a certain character.

YOLUNTEER MEDICAL STAFF CORPS. The distribution of prizes by the Duchess of Albany to the London Division of the Volunteer Medical Staff Corps took place at the Guilduall on May 12th, when the Lord Mayor, who presided, was accompanied by the Lady Mayoress and the Sheriffs of London and Middlesex. Among those present were Mr. E. Stanhope, M.P., Sir Guyer Hunter, ML. ., Sir Thomas Crawford (DirectorGeneral), Sir Joseph Fayrer, etc. Surgeon-Commandant Nortou having stated that what was commonly known as the Volunteer Ambulance Corps bore exactly the same relation to the volunteer force as the Hedical. Statt Corps bore to the regular army, spoke of the services which the corps had been enabled to render on public occasions. On Jubilee Day, for example, millions of persons were collected together, and no fewer than 500 cases were dealt with by the corps. The total strength of the corps was 403 , with pany was about to be formed, which would strengthen the corps by about 100 men . He hoped for the establishment of a great medics reserve, such as had recently been created in Germany, every member of which would be ready to do duty of any sort upon the arising of any national emergency.

Thene was a pleasant dinner at the llolborn Restaurant on Saturday, May lizth, of the officers of the Volunteer Medical Staff Corps. Surgeon-General Sir Guyer IIunter, M.P.. Hon. Commandant, was in the chair. Among the guesta were Mr. E. Stanhope, M:P., Secretary for War, who responded in an interesting speech to the toast of the "Army, Nary, and Reserve Forces;" Sir Andrew
Clark, Bart., President of the Royal College of Phrsicians: Clark, Bart., President of the Royal College of Thysicians: Dick, R.今., Colonel Duncan, 31.P.. and many nther distinguished members of the civil, military, and naral branches of the medical profession. The Folunteer MLedical Staff Corps are to be con-
gratulated on the interest shown by those in anthority in the excellent work they are doing.

## CUANGES OF STATION.

The following ehanges of station among the officers of the Medical Staff of the Army have been officially notified as having taken place during the past month:-


## THE NAVI.

DEPUTI INsppotor-GeNeral D. M. Shaw, C.B., has been promoted to be Jnspector-General. He entered the service as Surgeon, September 1st, 1854: herame Staff-Surgeon, May 5th, 1862; Fleet-Surgeon, October 13th, 18; ; and Deputy InspectorGeneral, Febrnary, 26 th, 1883 . He served with the Naval Brigade at Eupatoria, in the Crimea, in the winter of $1854-55$, and subsequently before Sebastopol in the Spiteful, in which ship he was also present at the bomlardment and capture of Kinburn (Crimean and Turkish medals, Sebastopol (liwp) ; served with Royal Harines in China from 18.57 to 1860 ; was present at. the captures ; of Canton, Takn forts, and Pekin, also at "The Peiho Disaster," nm actions of Sinho, Tongku, Chanchiaran, and Patikao (mentioned in despatchea and specially promoted), medal with three clasps; was seninr medical officer of the Octavia, flagship, duriug the Abyssinian uar in was seninr medical uf the Alerandra, fingship, at the bombardment of the forts of Alexandria, 1882 (C.B., medal with clasp, and Khedive's Star).

Staft-Surgeon J. K. Conway, M.... has been promoted to be Fleet-Surgenn.
 The follo 20 in, 18.9.
The following appointment: have been made at the Admiralt y: Jour Fisher, Inspector of Hospitals, to Plymouth Mospital; A. B. MEsser, M.D., Depher:Inspector of Hospitals, to Malta Mospital; JoHy Mackie, Staff-Surgeon, to the Monarch: G. I). TwiGG, Surgeon, to the Impregnable; E. A. Spiri.fR, M.D., Surgeon. to the Triton. II. F, Nornury, Deputy Inspector-General, io Plymouth Hospital; T. J. KNotr, Fleet-Surgeon. aud A. W. MAr-Surgenn, to the
Ortando. Orlando.

## THE MEDICAL STAFF.

Sirgros-Major A. B. F. Mtyers, Scots Guards, is promoted to be BrigadeSurgenn, vrce G. Perry, Coldstreain Guards, who has been placed on retirnd pay. He entered the service as Assistant-Surgeon. September 26th, 1859; hecame Surgeon, March 1st., 1873 ; and Surgron-Major. March 26th, 1859; heserved in the campalgn in the Soudan in 1885 with the zud Battalion of the scots Guards, and received the medel with clasp and the Egyptian bronze star Surgenan tign.
Gujor Coldstream Guards in the Grenadier Guaris, is promoted to be SurgeonMajor Coldstream Guards, in succession to Brigade-Surgeon G. Perry. Sur-gcon-Major Fenn's commission as Surgeon datea from September 30 th , 1875. He served in the Afghan war in $1879-80$ in medical charge of a battery of Joyai Artillery, and was present at the aflair at Zaidabad; accompanied Sir Frederick Rnberts in the march to Candahar, and was at the hat le of Candahar (mentloned in despatches, medal with clasp, and bronze decoration). He was also engaged in the Soudan campaign in is85 with the 3rd Battation of the Grenadicr Guards, and was present in the engagement at Il asheen and at the deatruction of Tamai (medal wifh claspand Khedive'a star).
frankgng as Lieutenant-Colonel), vice W. J. J. Wilson, Mo be Brigade-Surgeon tranking as Lieutenant-Colonel), vice W. J. Wilson, M.D., who has retired. Hia previous commissions are dated: Assistant-Surgeon, April 14th, 1863: Surgeon, Narch ist, 1873; and Surgeon-Major, April 2?th, 1876. Hith, was in the A(ghan war of isjo-s0 (medal), and in the Fgyptian war in 1882 (medal and
Egytian hmnze star).
Surgeon-Majer Wrllitam Crexx, M.B., is granted retired pay, Jis commis-
ions bore date: Assistant-Surgeon. April isth is63. nions bore date: Assistant-Surgeon. April 14th, 1863 ; Surgeon. March ist. 1873; and Surgenn Major, April 2nth. 18 . Ap. He served in ibe war is Afghanistan in Surgeon Jore Muzren medal for that campaign.
Surgeon Johy Mulresis, M.D., who went on lalf-pay May 24th, 1895 , is
now grated retired jay.

## Brigade-Surgeon J. Davis, who is serving in Bencal, is appointed to nfficiat

 on the administrative medical staff of the ammy, with the temporary rank nDeputy Surgeon-General, vice Deputy Surgeon-General E. W. Roberte, on slel leave.
Brigade-Sirgeon T. H. Wnife, X.D., Eerving iu Bengal, has leave of absence for ir mont hs on private antairs.
charge of the Muttra district in addition to hit military duties

## ARMY MEDICAL RBSERVE.

Surgens and Jfonorary Surgenn-Major H. W. Kiallama, Buckinghamshin
(lioya! Bucks) leomanry Cavalry, to tee Surgeon-Major (ranking as Lieutenant
(Royal Bucks) Yeomanry Cavalry, to the Surgeon-Major (ranking as Lieutenant
Colonel). Colonel).
The undermentioned officers to be Surgeons-Major (ranking as Majors) Surgeon and II onorary Surgeon-Major J, P. PuRris, 2nd Volunteer Batalion the Queen's Own Royal West Kent Reginnent (late the 3rd Keat) : Honorary Surgeon- Major J. P. Winnr, 3rd Battalion the Rnyal Irish Regimeat (Wexton
Militia); Surgeon I. M. DoIAs, M.D., F.R.C.S.E., 1st Volunteer Battalion the Duke of Wellington's West Riding Regiment (late the 4th West Riding) : Sur geon H. F. Holiasd, M.D., 3rd Volunteer Battaliou the Bedfordshire Regiment
The undermentioued
F. F. Moore. 3rd Volunteer Batalion the King's Liverpool Captains) : Surgeors F. F. Moore. 3rd Volunteer Batalion the Kings Iiverpool Regiment : (late the Wales Borderers (late the 1st M. Jonmany he ; Surgeon F. W. Srues, M. South West lork (the Prince of Wales's Own) Yeomanry Cavalry. Acting Surgeon D. C. BLack, M.D., 5th Volunteer Battalion the Highland Light Infantry (Late the Ioth Lanark) : Acting Surgeon C. E. Dowgias, M.B.: Bth Volunteer Battalion
the Foyal Highhanders (late the ist Fife); Acting Surgeon G. W. Mrapery, M. B. Brd Volunteer Battalion the Bedfordshire. Regiment (late the 1 st Bed-
fordshire). fordshire).

## THE INDIAN MEDICAL SERVICE.

The ferrices of the undermentioned nfficers of the Bengal Establishment, are temporarily placed at the disposal of the Government of the North-Weatern BengalLancers; Surgeon C. C. VAID, Medical Officer IIth Bengal Infantry; Surgeon-Major W. A. C. Kof, Civil Surgeon, Rawal Pindi, to officiate as astiltary conmissioner of the Puujab during the absence, on furlough, of Surgeon-
Major A. Stephen, M.B. Major A. Stephen, M.B.
Brigade-Surgeon A. Gardex, M.B., Bengal Fstablishment, has retired from the service, which he entered as Assistant-Surgeon, March 28th. 185s, attaining to the rank of BrigadeSurgeon on Novenber 27th, 1879. He has no war
Surgeon-Major A. STEPHEN, M.B., Bengal Etablishment, Sanitary Commissioner, Punjab, has leave of alisence for one year on private affairs.
Surgeon H. Merbert. Bombiy Establishment on geueral duty in the Mhaw Division, is directed to officiate in medical charge of the 7th Native Infantry, It ing the absence of Surgenn II. P. Jervis.
It is reported from Poona, in the Bombay Presidencr. that Surgeon-Najor J. Prempergast and a Lieutemant of Royal Artillery, were drowned there ent April 20th, from the capsising of their boat. Surgeon-Major Prendergast's commission as Surgeon was dated March 31st, 1974, and as Surgeon twelve years Egyptian war in 1882 to the ind Battalion Royal Irish Fusiliers during the nith clasp, and Egrptian bronze star). 1Te was also with the expedition to the Soudan under Sir Gerald Graham in 18s4, and was at the engagements of despatches, despatches, and received two clasps for this campaign.
Surgeon-Major Andrew Barsy, M.D.. Bombay Estabishment, is promoted to
be Brigade-Surgeon. He entered the service as Assistant-Surgeon yant 1865 ; was engaged in the war in Abyssinia in 1867.68 (medal), asd in the Afghath war in 1850, when he took part in the warch to the relied of Candalar witly the force under Major-General Phayre (medal).

THE VOLUNTEERS
Actixg-Strgeon G. Bolton, list (late $5 t h$ ) Durhani, Artillery, if promoted to be Surgeon.

Surgeon J. Jomsstose, 2nd Lancashire Artillery, is granted the bonorary rank of Surgeon-Major.
Mr. F. D. S. M Maros is appointed Acting-Surgeon to the 2nd Voluuteer
Ar. W. J. Pickup is Appointed Acting-Surgeon to the 2nd Folunteer Battalion Royal Warmickshire Hegiment (latetle 2nd Wiarwickshire).

TIE QUALIFICATIONS OF A YOLUNTEFR MEDICAL OFFICER, Fren. W. Gibbox, L.S.A.Loul., K.R.C.B. and S.ER., Acting-Surgeon ist 1)ur ham Folunteer Engineers, writes, in reply to "Medicus": I held the past of Acting-Surgeon to the sth Folunterg Battalion, the Durhan Light Infanfry, on the L.S.A.Lond. I found no difficulty in obtainingthe appointment, or after I was gazetted. In fiet. at otur northern reviews I alwatis had a gooll
post.
1 cannot see any reason why an L.S.A.Lond. should not receive such an appointment, andl douht, whether any notice would be taken of any L.S.A. applying tomay. mnless accompnaied by a petition from some mor, jealous
promitioner.

## TIIE MEDICAL STAFF IN INDIA.

"RFTRED MFDICAI. OFFICE: *inda us the following sceonnt of an inquiry which he made into medioal polities rluring a recent visit to India.
in definitely setfling the question of the status pervades all ranks at the delay in definitely setfling the quest ion of the stat us of modical offieers.
2. There is no little despundency over the threatened addition of a year to
the tour of serviep. the tour of service.
3. The paucity in numiers of medical nficers makes it very dificuls to ohtain leave of absence.
4. The youth and frequent. rhanging of medical officers in charge of regia total of 200 officers of the Medical Staff in Bengal, there are ouly 55 Oenlor officers; while of 140 surgenus, 100 draw the lowest rates of pay. The object in
employing this very large proprtion of jnoior and less experienced oficert is simply to Gave the Government money.
5. Medical officers rannot properly तlscharge their duties without horses, but they get no forape allowance.
 officers are nowadays living by many is very unsatisfactory.
messes, the moden in io brigade-surgeons or others for greatly . No charge pay is fiven io brigage of large hospitals. This is a breach of responsibilities and work in charge of large hospitals. fistals were introfuced.
Intais were intronuced. moved about often very unnecessarily, and at great pense to themselves.
pense to themselves. 9. Exchanges are not allowed after the reliefs are publice matis private affairs next troo
at home
10. It is very difficult for a junior surgeon to live on his pay; he receives 317 rupees a mointh, though ranking as eaptain, while veterinary surgeons receive 400 rupees, staff corps lieutenants in infantry 325 , and cavalry 365 rupees per month respectively.

Our correspondent vouches for the above plain statement of lacts.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

TOD-HEATLEY AND ELLIOTT AND FRY $\nabla$. BENHAM.
reis was an action brought by the owner in fee of No. 6, Gloucesier Terrace, Old Brompton Road, now being used as the Queen's Jubilee Hospital, and the lessees and accupiers of Nos. 7 and 8 , Glaucester Terrace, to restrain the defendant, Mr. R. Fitzroy Benham, M.R.C.S., the sub-lessee of the hospital premises, from nsing the place as a hospital for the treatment of certain diseases.
The case for the plaintiff was that the business of the hospital came within the scope of the prohibition in the lease, which forbade the carrying on of any noisome, obnoxions, or offensive trade; pital; that in a high-elass neighbourhood there was no need for such an institution; and that the poor who visited it came from a distance, as there were none in the neighbourhoad.
Mr. Justice Kekewich delivered judgment in farour of the plaintiffs without calling on their counsel to reply. The question was one of the construction of the covenants in the lease. In Bramwell v. Lacy, the covenant was almost in the same language as in the present instance, and, in subject, was indistinguishable. The late Master of the Rolls in that case granted an injunction, one of the grounds for the decision heing that the hospital was a business; and he went further, for he stated his
own view in very plain terms when he own view in very plain terms when he said: "It is well known moreaver, it is very possible that a patient on his first visit to
more the hospital might be found to be suffering from some disease of an infectious or contagious nature, and not from an ordinary throat or chest disease: " and he accordingly held that, on the evidence it was conclusire that persons in the neighbourhood had suffered annoyance, and that the possible danger from infection a ace on these heads was quite as strong in this case, which was Lacy. Fa a very similar covenant, as the evidence in Bramwell $v$. injunction Folloing that ease, therefore, his Lordship, granted an workmen from using, or causing, or suffering No. 6, Gloucester Terrace, to be used as a hospital and surgical appliance department for the treatment of diseases of the tnroat, nose, and ear, skin, eye, fistula, and ather diseases of the rectum, and various deformities of the human frame. The defendant must pay the casts of the action, but, under the circumstances, the injunction would not operate for six months.

## ETIQUETTE OF SUBSTITUTES

limics asks for advice on the following two cases: whose husband came to 1. I was suddenly called upon to attend Mrs. . Whose husband came to feth me himself. The medical man originally engaged for the he might be aud had left no address behind where, in case his own or at his partncr's found; neither had he left a list of his visits at his own or quick labour, comresidence. On arrival I found the case, which was a pleted by the nurse. Inowever, I examined the pate wing word with tle nurse was quite safe, and prescribed for the time belng. lhe patient that her own to inform Dr. $\ldots$ of my visit, etc., and telling the patient that her own doctor would undoubtedily eall inmediately after his return lome, mad abtha ber as agreed. The doctor has neither ealled upon nor writtentor to the husunything licen mentioncd by him about a fee or other matters to the husband. He simply attended, took his fee, and ignored ine altogether. Can I band. He simply attended, took his fee, or can I claim any fee from the husdemand the usual hali tee from him, on or writed to me in reference to the land? 0
2. Mrs. wished me to attend herin her approaching confinement. I had seen her husband firft, and afterwards called upon her and made the
usual engagement. I now hear that she has engaged Dr. _-since (partner I was never given to understand that ghe to the doctor mentioned in Fished to eancel the told her gresent doctor of her prev? 1 masadd here that for reasons best known fee from her in the usual manner. I to hersell she mentioned that 1 was not expecter waited until sent for.
calls since the date of our engagement.

* In such cases as I, it is iar betcer apprise, the pre-engaged but atsent a message to the nurse or other person, the delivery 'of which is not always to be depended on. Had the suggested course been adopted in the case in question. would have entailed upon Dr. - an acknowledgment of such attendance Without affording any loophole of excuse on the ples of non-receipt of the message. Be that as it may, under the circumstances related by our correspondent he cannot, we think, justly claim from Dr. - the customary halffee, but he is undoubtedly entitled to charge the husband lor the visit and detention.

In reference to Case 2, there seems to have been a clear contract, and the fee should be claimed.

## MEDICO-PARLIAMENTARY,

HOUSE OF LORDS.-Monday, May 14th.

Rabies in Dogs.-The Earl of Carnarvon inquired whether the Government proposed to intraduce any Bill or issue any instructions for the more effectual suppression of rabies in dogs, in conformity with the recommendations of the Committee which reported lest year.-Lord Moont Temple said whatever legislation was passed ought to extend to the whole country. -Viscount Cranbrook sympathised with the riews expressed, but a great difference of opinion prevailed as to the best means of suppressing Diseases (Animals) Act, of which the authorities had largely arailed themselves. If muzzling were carried out effectively it would he thought, prore a complete remedy; but it would be almost impossible to enforce it. It was quite true that in certain countries the disease had been stamped out that way. While in Iauritius the disease prevailed, in Réunion it had been completely stamped out, and there had been no case for jears past. In a large district in Prussia a similar policy had prored successful. The Government had giren powers to deal with the danger to local authorities, and at Birkenhead and other parts of Cheshire those pawers had heen employed. By the Bill now under discussion in another place the new councils would hare extensive po introduce a Bill. He had before him a long list of placesesary had issued orders under the general authority given by the Privy Council. The Government had procured the endorsement on dog licences of any symptoms of rabies which might hare dereloped themselves in dogs so licensed, which he regarded as a valuable precaution.

Tuesday, May 15th.
The Coroners Bill.-The Lord Chancellor moved the second reading of this Bill, and explained that the first part dealt with the powers of the coroner to hold certain inquests, and the sccoud part with the mode of his election. The first section of the Bill, which gave the coroner power to hold inquests in respect of fires, but owing to a legal decision that had been given by the Courts, they had been discontinued. The present node of election of the coroner was rery generally condemned, but there was no such unanimity as to the system to be substituted for it. At present every freeholder in the district was entitled to vate. There was no register and great confusion, with consequent enormons er panse, and many a candidate had been sugested that the l'arliamentary constituency should be substituted. There was a particular objection to that part of the bill which rested the appointment of coroners in the Lord Chancellor, and he certainly should not jealously claim the patronage which the Bill gave lim. It miglat be suggested that the new County Councils should have the power of appointing eoroners; but the objection would at once arise that this could not be provided in the Bill, because no such bodies existed ation whether the election of corone, it would require consideselves an elected body was altogether a desirable mode of meeting the difficulty. All he would say at present, therefore, was that the diffieulty. All he would say at present, therefore, was Be Bill
the present sjstem ought to be altered, and that when the
reached Committee he should gladly welcome any suggestion which would get rid of the difficulty. He asked their lordships to read the Bill a second time.-Lord Herschell wished to express his strong objection to the first clause of the Bill with reference to the mode of appointing coroners. IIe entirely slared the view expressed by his noble and learned friend as to the extreme inexpediency of the present mode of appointment; and he looked upon the proposal to rest the patronage entirely in the Lord Chancellor as a very serious one. There could be no doubt that the abolition of the system by which the freeholders had a voice in the appointment of the coroner would le regarded by many with some jealousy. The mode of popular election was an unsatisfactory one, but there was a widespread feeling that the coroner ought to be regarded to some extent as a representatire of the people, and should not be appointed by the Executire. The only step by which they would be able to accomplish what they had in view with general assent would be to rest the appointment in some elected body. Many of the municipalities had for years had the power of appointing coroners, and any proposal to take that power away from them would be regarded with the utmost jealousy and hostility. It seemed to him that the natural course would be to extend to the Country Councils the power of appointing coroners. It was true that the County Councils were not yet hrought into existence; but they had that night passed a Dill which was based upon the assumption that these Councils were going to exist. He would suggest. therefore, that the question of appointment should not be dealt with until they were able to deal with it in this way. He should feel it his duty to bring this question forward when the Bill reached the Cormmittee stage.-The Bill was then read a second time.

## HOUSE OF COMMONS.-Thursday, May 10th.

Naval Hospitals.--Dr. Tanser: I beg to ask the First Lord of the Admiralty, whether in all naval hospitals, siuce the abolitlon of Captain Superintendents, the power that they had of dealing with their men employed as nurses was relegated to the In-spectors-General of the said hospitals: and whether it is true that at the present time no medical officer ashore or afloat has the slightest power of dealing with the "Sick Berth Staff ;" and if so, can he state the reasons for which this change in the regulations of the Naval Medical Service has been made.-Lord George Hasiliton: On the abolition of appointment of Captain Superintendent of Naval IIospitals the administration and control of the establishment were placed in the hands of the Inspector-General, who now deals entirely with cases of neglect of duty or misconduct on the part of civilian nurses. The men of the Sick Berth Staff belong to the service afoat, and, being subject to the Naval Discipline Act, are dealt with by the Commanders-in-Chief at the ports on the representation of the principal medical officer. All medical officers, whether on shore or afloat, have fall power over ing officer, and in this respect there has been no change.-Dr. Tanner inquired whether the same rule existed in regard to the Army Medical Service, or whether the Army Medical oflicers were unable to command the men belonging to the Medical Staff Corps. -Lod George inaxilion could not answer the question.

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\text { Friday, May } 11 \text { th. }
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Caffein.-The Chancellor of tie Lixcheacer, in answer to Mr. Bartley, said the question of the admission free of duty of tea found to be unfit for liuman food, for the purpose of tho production of caffein, subject to preliminary precautions to prevent the tea getting into consumption, was now under reference to the Board of Customs.

Prison Surgeons.-Dr. Clark asked whether prison surgeons in Birmingham, Leeds, and Durham were appointed at a salary of $£ 320$ a year, while in the Scotch prisons of Perth, Glasgow, and Barlinnie they began at $£ 200$ a year, and what was the reason for the difference. - Mr. Jackson, in reply, said that the surgeons at Glasgove and Perth received ligher pay than they would in English prisons of corresponding population, while the surgeon at Barlinnie received less. The scotch scales of salary were fixed by a Committee which had full knowledge of tiose adopted in England; but applications for increases had been receired from the Scotch officers, and were under consideration.

Monday, May 14th.
Darenth Asylum.-Mr. Ritchie. in reply to Mr. Firta-who inquired as to the cost per head at Darenth Asylum being higher than that of any other asylum in England, and $£ 10$ per head
higher than Leavesden or Caterbam-explained that in the case c the Metropolitan Asylums Board district asylums the cost include otheri, items than those of maintenance (which was not the case wit the county and borongh asylums). The excess of cost at Darent. over that of Learesden and Caterham was to some extent ac counted for by the fact that Darenth had not had its full numbe of inmates. The cost of the food of the patients was practicall. the same in all three.

Contagious Diseases Act in India--Sir J. Gorst said, in repl: to Mr. STANSFELD, that the administration of the Contagioul Diseases Act in Bombay, Madras, and Bassein, the only places is which it was it force, had been suspended by the Governmen of India under a power contained in the Act. The Government o India was now engaged in a revision of the regulations made fo preventing the spread of renereal disease in cantonments, unde Section 27 of Act 111 of 1880 ; and a despatch was going out $t$. India from the Secretary of State in Council, which would pro hibit the compulsory examination of women, and the making o any regulations which could be justly construed into a legalisa tion of prostitution.

## Tuesday, May 15th.

The Royal College of Surgeons.-Dr. Farqúliarson aske the Vice-President of the Committee of Council on Educa tion whether the petition of Members of the Royal Colleg of Surgeons of England, for a modification of the charters a the College now under consideration by the Council, had re ceived the farourable consideration of the Lord President, 0 whetlier it would be referred to the Royal Commission on University Education in London, recently appointed to con sider, among other things, the means of facilitating Unircrsit! degrees for resident students in London; and whether the Roya College of Surgeons of England Lad yet presented to the Lorc President any comments on, or reply to, the representations made on behalf of the Members of the College by the deputation whicl recently waited on him, or whether, in the absence of any reply such representation in support of the petition by 6,000 Member would be held to be conclusive.-Sir W. Hart Dyke, in reply said the petition would not be referred to the Royal Commission There had been a correspondence between the Council Office anc the College on the subject of their petition for a supplementar! charter, and the College had accepted a proposal from the Privy Council to omit from the supplementary charter points upor which there had been a controversy with the Fellows and the Members of the College.

Public Health Acts.-The Public IIealth Acts Amendment (Build ings and Streets) Bill was read a second time without discussion.

## UNIVERSITY INTELLIGENCE.

CAMbridge.
Frank Smart Studentship.-Fercy Groom, B.A., late of Trinity College, has been elected to the Frank Smart Studentship it Botany, founded at Gonville and Caius College, by Francis (iray Smart, M.A., M.B.
Lecturesimp in Geograpity.-The new University Lecture ship in Geography, the Cambridge electors to which are Dr Ferrers, Dr. MacAlister, Professor Michael Foster, and Professol Lrowne, is announced to be vacant. The stipend is $£ 200$ a year Candidates are to send their namcs, with brief statements of theil qualifications and of the methods they would propose to adopt, tcy the Master of Gonville and Caius College, not later than Tuesday June 5th.

The results of recent examinations for medical degrees are as follows:
Degree of M.C.
C. A. Morris, Caius.

Degree of B.C.
Bedidoes, Pemb. : Whishaw. II. Cav.
Third examination for the degree of M.B. P'art $\mathbf{I}$.
Battershy Trin ; Blakr. H. Cav; Bowen, King's ; Camplell, H. Cav. Chaplin, Joh.: F. II. Coibeck, Caius ; Courtney. Pemb: Crisp. Caius Filmore. Christ's; Foster. Trin.; Gervis, Trin.: Gopdnrd, Caius; Gonlon Trinn, ; Hiawkins, Caius; Hopkinson, Emmann.: ©. T. Lloyd, Job.: Jfurray Trin.; Musson, Kiug' ; Ogivie, King's: R. J. Roberts; Rutherford

Syfret, Trin. H.: Sidney; G. If. Saunders, Cains: Sortain, Caiua; S. B.
Veale, Christ' ; Weler, Triv. ; G. H. Wickham, Caiua. art II.
Part II. Copeland, King's ; IIarris, Christ's: Hicks, H, Cav.; King, H. Cav.; Little, Down.; Fercival, Trio.:
coll. ; Smitheon, Christ'a; Watts, Corpus.

RÖYL UNIVERSITY OF IRELAN゚D.
Fxamination Resclits.-At the recent medical examinations te following were the results. Primary: (M,B. qualifying exa(ination) 31 eramined, 15 rejected. Second medical: 72 candiates, 39 rejected. Third medical: 134 examined, 67 rejected; l.Ch., 21 examined, 5 rejected; M.A.O., 11 examined,, 7 rejected. The following are the candidates recommended by the xaminers as having passed the undermentioned Examinations: Second Examination in Medicine.
Y'pper Pass Division. - J. Amhrose, Queen'a College, Cork ; J. M. C. Brown, Queen's College, Beifast; J. E. W. Cruise, Catholie Medicine; P. It. Keary, Carmiehael SH. Stranaghan, Queen's College, Queens
All the above Candilates will be almitted to the Further Examination for IoDOURE:
Sabours: J. Alexander, School of Physic. Trinity College; J. Il. Anderson,
 Catholic University School of Menicine; A. A. Brow. A. Craig. Queen's College, Belfast; W. Clnfigueen. Royal College of Surgeons and Royal College, Belfast; R. Crighton, C , College of Science; J. Dodd, Queen' Cowner, Queen's College. Belfast ; J. veraity School of Medicine: I. S. Downer, Queens Queen's College, BelGahan, Queen's College, Galway, J. D, Graham, Damison, Queen's Colfast ; W. J. Gregory, Queen's College, Gahway; Catholic University Sehool of lege, Bellast: J. H. Jones, Ledine College, Cork; J. Lane, Queen's College, Mediene; McCarthy, Catholic University School of Medicine; Nu's ColMcCornell, Queen's Colleqe, Belrast; J. T. C. D. : W. Moody, Queen's lege, Belfast; J. Mills, School J. Priestley, B.A., Queen's Colleye, Belfast Colleges, Galway and Belfast; Schonl of Medicine for Women: M. C. Stann-
Hester D. Russell, London Scine; J ton, Carmichael College and Catholic Universit S School of Men: Cullege, Belfast.
Third Examination in Medicine.
I'pper Pass Division.- Eleonora L. Fleury, London School of Medicine for Women: J. M. IIall, Queen's College, Relfast; I. W. Haslett, Queen's Col-
lege, Belfast lege, Belfast; J. Jackson, Coherson, Queen's College, Cork; G. J. Pierse, lege, Cork; J. W. C. Macpher Porter, Queen's Callege, Cork; H. K. Queen's College, Galway; C. Porter, Quers, Queen's College, Belfast; J. W. Wolfe, Queen's College, Cork.

Passed.-J. Adrain. Queen's College, Belfast; C. J. Beattie, Queen's College, Wsed,-J. W, Brand, Queens College, Belfast; J. Buchanan, Queens Galway ; Belfast; A. Burgess, B.A., Queen's College, Belfast ; J. Caldwe. H. College, Belfast: A. Burgess, B. Corbett, Queen ${ }^{\text {a }}$ College, Cork: P. H. Queen's College, of Physic, T. C. D: R. R. Forsyth, Queena Donovan, Schoo Queen's College Belfast; H. T. Gill, Queen's College, Belfact; D. H. Hamilton, Queen's College, Belfast ; S. J. A. Kelly, Queen's lege, Belfast; P. Jenniugs, Queens Colege, Corlege, Belfast, and Catholic College, Belfart; J. Kenny, M.S., Queen's Coll, Queen's College, Belfast; University School of Mcdicine; Me. Melfast; F. McKee, Queen's College W. P. McEldoaney, Queen's College, Belfast; F. M. . N. Merrick, School Belfast; J. McKnight. Queen's College, Belfast Meen's College, Belfast; N. of Physic, Trinity College; A. T. Morrison, Qubitt, Queen's Collerge, BelMorton, Queen's College, Belast, Coll Cork J J. V. Kyan, Queen'a College, fast; M. J. Ollegan, Queen's Colleqe, Belfast ; J. B. Smith, B.A., Queen's Cork; D. C. Smiley, Queen' Queen' College, Cork: W. J. Taylor, Queen's College, Cork; C. A. Stone, Quee Queen's College, Belfast; J. T. Walker,
College, Galway: 1 R . Thomson,
Qollege, Relfast; W. A. College, Galway: 12 . Thomson, Queena ${ }^{\prime}$, Queen's College, Belfast; W. A. Wheeler, Queen's College, Belfast i S. If. Withers, Queen Plysic, Trinity Iast; C. It
College.
The following candidates will be yermitted to present themselves at the Further Examination for IIonours:

Eleonora L. Fleury, London School of Medicine for Women; J. M. Hall. Queen's College, Belfast; R. W. Haslett, Queens Collegre, Belfast; J. Jaekson, Queen's College, Cork; G. J. I'ierse, Queen's Colege, Gatway,
B. Examination.
M.B. Examination. $\quad$ E. Dunne, Carmichael College: A. E. Malnood, School of Physie, T. C. D.; M. Molony, Queen's College, Cork; P.J. O'Brien, Quen's College, Cork.
Passed.-J. H. Coreorm, Queen's College, Cork; D. Crowly, Qucen's College, Cork; W. R. Gore Iional College or Quen's College, BelJ. Griffin, Quecn's College, Cork; J. Hunter, Que. Queen's Colleqe, fast; W. Kelleher, Queens College, Cork: 1. O $^{\prime}$ Clers. Queen's College, Beliast. D. Mckee, Queen's College, Galway; II. smith, B.A., Queens Cork; M. Semple, Queens College, Gaindy Queen's Colicge, Belfast.
oring Examinations, 1888. The Examiners have recammended that the following candidates should be adjudged to have passed the undermentioned Examinations M.Ch. Drgree Examinat on.-J. F. St. J. Annesley, Queen's Collerre, Bel-
fast : J. Cliford, Carmichael College, Dublin: J. H. Corcoran, Queen's College, Cork; D. Crowly, Queent Colleqe, Cork; Beltast : J. J. Lynch, Queen's Colleqe, Cork; J. IIunter. Queen's College, Belrast Jl. J. Belfast: Queens Conleqe, Cork, Jool of Medicine; D. Mckee, Queen's College, Be Mast Catholic Uuiversity School orsity School of Medicine; A. F. Mahood, School P. Mckenna, Catholic of Physic, Trinity College, Dus. Queen's College, Cork; P. J. U'Brien, Queen' College, Cork; L. O'Clery, Queen'a Corn's College, Belfast.
College, Galway; II. Smith, B.A., Queen's College, B's College, Cork: D. M.A.O. Degree Eramination.-J. H. Cor Davison, M.D., Queen's College. BelCrowly, Queen's College, Cork: J. R. Davison, M.D., Queen. B.A., Queen's fast; A. E. Mahood, Shoo M.D., Queen's College, Belfast.
College, Galway; J. Tomb, M.D., Queen's College, Belfast.

## INDIA AND THE COLONIES,

## INDIA.

INDIAN UNIVERSITIES AND THE GENERAL MEDICAL COUNCIL.
MI S. (Bombay) writes : You will be doing a great favour to the hundreds of nnrepresented, fully qualified men of India, by inserting this. Indian and The Medical Act of 185 prorineral Medical Council, but as ret nothing Colonial medical degrees by are in no way represented, and they hare none to has been done because they are in no nay repres the attention of the Council, speak for them il thereare matter. It is bigh time that they sbould conthrough your columus, to this marter. not go into the merits of the question, sider and decide this question. Ineed all the requisite information; suffice it for 1 am sure the Council must have all the requisite at the three Universito say that the degrees or licence are granteding over full five years, and the ties, after a course of medical training estending over Majesty"a Army and ties, after and professors are experienced men from Her inajest a Arma the Indian Medical Service, and the training is in no way interior to that good, Indian Medichis bodies in Great Britain and Ireland, and the tests are equantinection if not more severe than at some of the British licensing bodies. In connection if not more severe than at some like to draw attention to one well known fact. with this I shonl parts (and I am prepared to give names and full particulars, I know of several men (and ham been rejected in the examinations in medicine amd sul upon) who, Bombay University on more occasions than one, have come up to Great Britain and Ireland, and got through the examiantions. I some of the licensing bodies bere, and obtained the Indian Universities and have cited this fact only to shows that the tests of cases, I make bold to say, particularly of Bombay are as good, and in some cases, nore searching than those of the british then, if a candidate is rejected in of Surgeons of Engand exe goes to one of the licensing bodies of Glasgow, Bombay he comes over here, goes Edinbirgh, or Ireland, and invariaby sue on the British Register, and enjoyspractise, and can therefore put his nhile is another happens to be more sucall the rights of a qualified man. Gets the diploma of the Bombay or other cessful, and after a severe test gets the diploma of the and comes over here Indian University which the former has lified man, why be is not recognised. to prosecute his studies further as a quane than the other. This absurd anoand labours under a greater disadvantage thaner the better. We only ask maly ought to be done away with, and the sond Medical Council shonld consider for justice. It is high time that the General Aedical this question. We men from lndia are British subjects, after a proper test, the British, for which we are ever thankualified ; and we are even employed by declared by your own men to bergens, in charge of dispensaries, and erea the Government as assistan

I ask then why should wo be ignored in this country? When your own men Imit ns into this noble profession, why should we be not recognised here? think it is a great injustice and real gis month, and I lope they will take up The General

## OBITUARY.

ARTIIUT CRESWELL RJCII, M.B.LOND., M.R.C.S.ENG. The medical profession in Liverpool learnt with deep regret of the demise, after a few days' illness, of Dr. Arthur Creswell Rich, on May 15th from an attack of purpura hemorrhagica, at the early age of 31. Dr. Fich was the eldest son of Mr. J. D. Rich, the papular postmaster of Liverpool. He was educated at the Liverpool School of Medicine (now the Medical Faculty of University College, Liverpool), and also at St. Thomas's Hospital. He obtained the degree $r$ as also a Member of the Roral College of class houours, and was after appointed to a house-surgenncy at Surgeons. Ife was soon Infirmary, and subsequently filled the important post of pathologist to that institution. lle was also a Fellow of the Obstetrical Society, a member of the British Hedical Association, and a ralned special correspondent for this Journal. During the visit of the Association to Liverpool Committee, the was the courteous secretary corried out in a most successful arranger.

Dr. Rich was rery zealous as an ambulance lecturer, and the Liverpool police will especially regret his loss. At the time of his
death he was senior medical officer to the Liverpool Post Office, and surgeon to the Liverpool Rifle Brigade of Folunteers. Ilis death brings with it a widespread feeling of regret that such a promising career has been so suddenly cut short. Il leaves a young widow to monrn his loss.
Dr. William Carter, who had known Dr. Rich from boyhood, aud who attended him in his last illncss, has sent us the following tribute to his memory :
"Dr. Rich's multitudinous labours soon told on a health previously injured by malaria, yet it was with great difficulty, and only after more than one serious attack of blood-poisoning, that he could be persuaded by Dr. Carter, whom he consulted, to abandon his pathological work. His reports as pathologist; many of which have been read with admiration by the writer of this sketch, were models of fulness and accuracy, but were only drawn up by the sacrifice of much needed repose. Ile never failed to respond to a call : and when it is mentioned that within ten days of his death he insisted on visiting, at ten oclock at night, a member of the post-office, and that he was in so prostrate a condition that it was only by the aid of a kindly administered stimulant that he could be got home without fainting, it will be seen how far his resolute will and heroic devotion to duty carried him. His noble selfforgetfulness probably precipitated the end. Ilis young wife had recently undergone a severe illness, to conralesce from which it was neccssary that she should be sent to the sonth; and although he himself became utterly prostrated in health during her absence, as the above related incident shows, yet he continued to write to her cheerfully daily, and ahsolutely refused to have any intimation sent to her that would curtail her sojourn by a single day. He was equally determined in resisting entreaties made to him again and again to rest from his work, and to avail himself of medical aid. On his wife's return, however, which was just eight days before his death, she was so shocked by his altered appearance, that she insisted on instantly requesting the attendance of Dr. Carter, who found him in such a condition of prostration as scarcely to afford hope of rallying. The lower extremities were rery cedematous, and stained by large subcutaneous hæmorrhages; he was profoundly anæmic, had a high temperature, and a rery quick and weak pulse. His friend, Dr. Charles Macalister, at once relieved him of all official duties, and devoted himself night and day to watching orer him, ably assisting Dr. Carter by carrying out every detail of treatment. Delirium set in, and Dr. Rich sank exactly eight days after having giren up his work. Throughout his short but busy life he was ever anxious to help in any good work. man of quiet and unostentatious piety, he gave his services freely to many charitable societies, such as the Shoeblacks' Home, the Aged Women's Home, etc. In addition to all his other duties, he undertook and performed those of local secretary to the Collective Investigation of Disease Committee. "So much work condensed into so short a life is very rarely seen."

IIENRY C. MACEWES, B.Sc., M.B., C.M., of Glasgot. THE death from diphtheria of this young and promising member of the profession, at the Belvidere Fever Hospital, of which he was an assistant physician, after an illness of little more than five days' duration, camse as a shock to his numerous friends, by
whom a feeling of regret will be felt akin to that which was felt whom a feeling of regret will be felt akin to that which was felt
on the death of Dr. David Foulis, seven years ago, from the same cause. Born at Glasgow in 1861, the youngest son ol Mr. William Hacewen, formerly Dean of Guild, many years Chairman of the Royal Infirmary, and a prominent and highly respected citizen, Dr. Jacewen lad reached the age of twenty-seven years. After a liberal education in the Glasgow Academy and at Merchiston, he decided to enter the medieal profession, and began his studies in the Cniversity of his native town, where he took lis degree of E.Sc. in 1881. IIe then remared to Edinburgh University, where he completed his curriculum, and graduated MI. B., C.M., in the year 188. As he suffered a gool deal at this time from tenderness of the eyes, he took a yoyage to New Zealand, acting as surgeon of the shij, in which he went ont, and returned perfectly cured. Desiring to study some spreeial subjcets, he went to Yienna in the rutumn of 1886 , and whilst there he devoted his time chiefly to the study of skin diseases, and to laryngology. Whilst on the Continent, he visited some of the other German medicul schools: and. nu his return to cflasgow, he entered on his duties is in of the Resident Assistant llhysicians in the Royal Infirmary, in which le continued eleven months, having been reappointed for a second period of sis months.
Anvious to acquire a tnowledge of fevers and their trea:men:,
he applied for and ohtained an ajpointment in Belvidere, whic he entered on two days after leaving the Royal Infirmary, tl interval having been spent as a holiday. He was very happy i his netr sphere, and apparently in the best of health and spirit On Saturday, April 2sth, he left the hospital early and went t Arran to join some friends with whom he made an annual excul sion to that fayourite island. In the evening, af ter having climbe some of the hills, exposed to a biting east wind, he complained c headache and sore throat, and, this continuing next day, he rt mained in his lodgings, expecting to see the rash of scarlet feve develop on him; but, as it did not appear, he left by the earl steamer next morning, and returned to Belvidere. On seeing hir Dr. Allan, the kindly and experienced Physician-Superintendent at once attended to him; but as symptoms of diphthexia derelope themselves, and were becoming serious, he called in the aid of $D_{3}$ Robertson, the family physician, but without avail, as death tool placeearly next morning. It was a shock and surprise to all who knes him, and to many more who only knew of him through his famil? connections; and by all it was felt as if a personal loss had beei sustained. Dr. Hacewen was an assiduous student, of a cheerfu nature, and unassuming in character. His Vandyck-like face wil long be remembered and his loss mourned by his old fellow assistants in the Royal Infirmary. Widespread sympathy is fel for his family in their berearement. The funeral took place on May 7 th, and residents and nurses in both hospitals in which he had served sent their floral tributes to the tomb of the deceased in token of their remembrance of him.

## PUBLIC HEALTH

 POOR-LAW MEDICAL SERVICES.
## THE REGISTRAR-GENERAL'S QUARTERLY RETURN

The Registrar-General has just issued his quarterly return relating to the births and deaths registered in England and Wales during the first or winter quarter of this year, and to the marriages ia the three months ending December last. The marriage-rate, although slightly above the exceptionally low rates that prerailed in the fourth quarter of the two preceding years, was considerably below the mean rate in the corresponding period of the ten years 1877-86. The mean temperature of the air at the Royal Obserratory; Greenwich, was considerably below the average, but the weather was, on the whole, favourable to the public health.
The births registered in England and Wales during the three months ending March last were 223,838 , equal to an annual rate of 31.4 per 1,000 of the population, estimated by the RegistrarGeneraf to be more than twenty-eight and a half millions of persons. This birth-rate showed a further slight decline from the rates recorded in the corresponding quarters of recent years, and was as much as 3.0 per 1,000 below the mean rate in the first quarters of the ten years $1878-87$; it was indeed lover than that recorded in the first quarter of any year since 1839, when registration was undoubtedly defective. The birth-rate in the quarter under notice in the several counties ranged from 24.5 in North Wales, 95.2 in Rutlandshire, and 25.6 in Sussex to 34.3 in the extra-metropolitan portion of Middlesex, 34.6 in South Wales, and 36.7 in Essex and in Monnouthshire. In the twenty-eight large towns for which the Registrar-General publishes weekly returns the birth-rate last yuarter averaged 32.5 per 1,000 , ranging from 2.2.7 in Brighton, 26.5 in Huddersfield, and 28.3 in Bradford to 37.7 in Newcastle-upon Tyne, 39.5 in Preston, and 43.9 in Cardiff. The births registered in England and Wales during the quarter under notice exceeded the death by 73,824 ; this represents the natural increase of the 1 opulation during that period. From the Board of Trade returns it appears that 59,268 emigrants sailed from the varions ports of the United Kingdom at which emigration officers are stationed; of these, 28,935 were English, 6,238 Scotch, and 7,113 Irish. The proportion of British emigrants to a million of the respective populations of the three divisions of the L'nited Kingiom were 1,013 froin Lingland, 1,546 from Scotland, and $1,43.7$ from Ireland.
During the first quarter of this year the deaths of 150,014 persons were registered in Eagland and Wales, equal to an annual rate of 21.0 per 1,000 of the estimated population. This deathrate, although showing a slight increase upon the exceptionally low rate in the corresponding period of 2887 , was 1.0 below tho
ean rate in the first quarters of the ten years 1878-87. Among le urban population of the country, estimated at upwards of ghteen and a quarter millions of persons, the rate of mortality ring the quarter under notiee was equal to 21.3 per 1,000 ; in ie remaining and chiefly rural population of about ten and a 9 per 1 milions, the rate was 20.6 per 1,000. The urban rate was te in the first quarters of the seven years $1881-87$. The rate of ortality among infants under one year of age, and among persons jed upwards of sixty years, exeeeded the average ; while the it average of the ten preceding eorresponding quarters.
The 150,014 deaths registered in England and Wales during the iree months ending March last included $4,+28$ which were rerred to whooping-cough, 2,129 to measles, 1,868 to scarlet ferer, 447 to diphtheria, 1,362 to "ferer" (including typhus, typhoid, 3,112 deaths resulted from these principal aymotie diseases, equal , an annual rate of 1.84 per 1,000 , the average annual rate in the on preceding corresponding quarters having been 2.20 per 1,000 . he mortality from measles, scarlet fever, "fever," and diarrhoea ithe ten preeeding the average for the corresponding quarter jugh, small-pox, and dipht while the mortality of whooping eaths referred to small-pox, which had been $30,47,70$, and 358 in ee four quarters of 1887 , further rose to 583 during the first three 10nths of this year, of which 318 occurred in Sheffield, 15 in ristol, 13 in Manchester, 13 in Leeds, 11 in Ashton-under-Lyne, nd 10 in Rotherham. In London only 4 fatal cases of small-pox rere recorded during the quarter.
The
The rate of infant mortality, or the proportion of deaths under ne yearof age to registered births, was last quarter equal to 146 receding corresponding quarters. While the rate of iufant aortality in London during the first three mouths of this year was 43 per 1,000 , it areraged 150 in the twenty-seven provincial orns, among which it ranged from 114 in Sunderland and 119 in Inddersfield to 178 in Preston, 199 iu Plymouth, and 203 in 3lackburn.
Healte of English Towns.-Daring the week ending iaturday, May 12th, 5,696 births and 3,17 deaths were registered n the twenty-eight large English towns, including London, whieh aave an estimated population of $9,398,273$ persons. The annual ate of mortality per 1,000 persons living in these towns, which lined to 17.6 during the week under notice. The rates in sereral towns ranced from 12.5 in Cardiff 14.1 in Derby, and 14.3 n Brightou to 23.6 in Wolverhampton, 24.7 in Halifax, and 26.7 $n$ Bolton. The mean death-rate in the twenty-seven provineial owns was 18.5 per 1,000, and exceeded by 1.9 the rate recorded n London, which was only 16.6 per 1,000 . The $3,17 t$ deaths regisiered during the week under notiee in the twenty-eight towns included 288 whieh were referred to the principal zymotic diseases, sgainst 3.28 and 329 in the two preeeding weeks; of these, 109 re32 from from whooping-eough, 43 from scarlet fever, 40 from measles, diphtheri diarrhoea, 29 from "fever" (principally enterie), 26 from diphtheria, and 6 from small-pox. These 387 deaths were equal
to an annual rate of 1.6 per 1,000 ; in London the zymotie deathrate was 1.6 rate of 1.6 per 1,00 ; in thender rate in the deathseven provincial towns, among which the zymotic rates ranged from 0.4 in Portsmouth and in Sunderland and 0.7 in Bristol to 2.7 in Plymouth, 3.1 in Blackburn, and 3.9 in Salford. Measles caused the highest proportional fatality in Nottingham and Bradford; scarlet fever in IIuddersfield and Blaekburn;: Whoopingcough in Derly, Hanchester, and Salford; and "fever" in Leicester and Nottingham. The 26 deaths from diphtheria in the twentyeight towns included 15 in London, 2 in Liverpool. and 2 in Worwich. Of the 6 fatal cases of small-pox recorded during the week under notice, 3 oceurred in sheffeld, 1 in Manchester, 1 in
Preston, and 1 in Leeds. The Metronolitan contoined and 1 in Leeds. The Metropolitan Asylums Hospitals contained 11 small-pox patients on Saturlay, May 12th, and no
new eases were admitted during the contained 904 scarlet ferer patients on the sese hospitals also 967 and 9.1 at the end of the two preceding weeks ; there were 91 admissions during the week. The death-rate from diseases of the respiratory organs in London was equal to 3.2 per 1,000, and was considerably below the average.

Health of Scotch Towns.-In the eight principal Scotch towns, 839 births and 534 deaths were registered during the week ending Saturday, May 12th. The annual rate of mortality, which had been 21.0 and 19.5 per 1,000 in the two preceding weeks, rose again to 21.1 during the week under notice, and exceeded by 3.5 per 1,000 the mean rate during the same period in the twenty-
eight large English towns. Among these Seot rates were recorded in. Leith and Dundee, and the lowest rates were recorded in Leith and Dundee, and the highest
in Edinburgh and Glasgow. The 534 deaths in these towns during the week under notiee ineluded 40 which were referred to the principal zymotie diseases, equal to an annual rate of 1.6 per 1,000, which eorresponded with the mean zymotie death-rate during the same period in the large English towns. The higheat zymotic rates were recorded in Perth, l'aisley, and Glagow. Fifteen fatal cases of whooping-cough, and 10 of measles were recorded in Glasgow. The mortality from diseases of the respiratory organs in these towns was equal to 4.4 per 1,000, against 3.2 in London.

Healith of lrish Towns.-During the week ending Saturday, May loth, the deaths registered in the sixteen principal towndistricts of Ireland were equal to an annual rate of 22.9 per 1,000 . The lowest rates were recorded in Dundalk and Lurgan, and the highest in Wexford and Lisburn. The death-rate from the principal zymotic diseases in these towns areraged 3.4 per 1,000 , and was highest in Armagh and Galway. The 156 deaths registered rate of 23.1 per 1,000 , against 31.5 and 21.7 in the two an annual rate of 2.1 per 1,000 , against 31.5 and from the prineipal 156 deaths included 17 fromg diseases (equal to an annual rate of 2.5 per 1,000 ), of which 9 motic referred to whooping-cough, 4 to scarlet fever, 2 to "fever," ] measles, and 1 to diarrhoea.

## EDINBLRGH HEALTH SOCIETY.

The Edinburgh Health Society has published its annual handbook, the eighth of the series since the foundation of the Society. It contains the lectures delivered to non-professional audiences under the auspices of the Society during the winter months. The present issue contains lectures by Dr. T. S. Clouston, on How Pleasant Surroundings and Conditions affect the Health and Happiness: by Dr. W. Russell, on Indigestion, its Causes and its Consequenees: by Dr. Kerr, on Healthy Clothing; by Dr. K. W. Felkin, on Heredity. its Influence on Mau in Health and Disease; and by Mr. A. W. Inare, on The Channels of Infection. The leetures are all written to the cla, clear, and popular style, and are calculated to do good the class for whom they are specially intended.

## INFECTIOUS DISEASES AND TIIE SALE OF MILK

1 dairy-keeper at Paisley has been fined £1, with £1 is. 6d. expenses, and with the alternative of sevell days in prison, for allowing a girl to milk cows or handle vessels used for the milk whilst she was coming in contact with a girl, a daughter of the dairy-keeper, suffering from measles. The dairy-keeper explained one who attended her was allowed to do with her daughter no A similar case from another parish was similarly dealt with.

## BURIAL REFORM.

The tenth annual meeting of the Burial Reform Association was held on Monday last at Grosrenor Mouse under the presideney of the Duke of Westminster, when the following resolution, proposed by Mr. F. Seymour Haden, F.S.A., was carried:
"That the present mode of iuterment in brick vaults and crowded graves should be discontinued as dangerous to the health of the living, and that 'earth-to-earth' burial should be encouraged with the use of readily-perishable coftins, and that the home Secretary be ruemorialised to institute an inquiry into the condition of cemeteries.

The speaker opposed cremation.
Mr. Wolmastox Pras said that fifty years ago Brompton Cemetery was condemned by the sanitary authorities, yet 5,000 bodies were still interred there every year.

## IS A SMHTHI A NUTSANCF?


 shet, and situstan homat to the health of boys in that school? This smi
 at pressent is

* The case stated does rot, in ouropinion, cone in any waz: whler the

Public llealth Acte. There is no aboolute necessity that a Torge, eto., should le a nulsance ami injurions to health; and the erection of buch a huiding could not be prevented. Should it become a nuisance on account of carelessness, ete., the occupier conld be proceeded against.

## MEDICAL NEWS,

Rotal Colleges of Physicians and Surgeons of Edinburgh, and Facelty of Physicians and Surgeons of Glas-Gow.-The quarterly examinations in Edinburgh for the Triple Qualification took place in April and May with the following results.
First Examination.-Of 62 candidates, the following 32 passed:
A. M. Gray, Isle of Man; W. In. Lemion. Co. Armagh ; Miss Lonisa Rosa Cooke. Yorkshire ; Miss Edith Mary Brown. Whitehaven: S. Wood, Rochdale; D. K. Muir, West llartlepool; C. Pearee, Chilit ; H. Whalles, Bradford; F. Hall, Laikeshire ; E. F. Jamison, C. C. Down i D. Dolerty, Co. Donegal; P. D. Misuchin. Kilkenny; 1. W. Clayton, Wrexham; J. B Wilson, Co Cork; E. G. Macs ween., Macroom; A. Hostage, Chester: $P$
 Calcutta; J. A. Fink, Calcuitta; L. F. Bncknell, sydney; J. Orr, Co: Antrim; G. Macdonald, Kirkinitiloek; J. E. H. Gentili, Mantitins; ; B. Holmes, Westmeath; T. White, Antrinn; J. C. Edwarts, Lharrlaiadr; A T. Brown, Dunfermline ; R. Scott, Kinross-shire; D. V. Hyan, Co. Cork C. E. Ross, Skye aml A. Mackellar, Glaskow.

Second Examination. - Of 83 candidates, the following 32 passed:
G. S. Pope, Madras ; J. G. MeCandish, Leeds; H. R. Preece, Cheltenham ; D. Mark. Belfast ; C. Pearce, Chili ; S. Wilson, Haniey: W. J. Leiteh, Tyrone; D. M. B. Myers, Clonmel ; G. Mason, Birminghain ; II. H. II. Adden brooke, Smethwick ; F. II. Amner, Keif; T. S. Allan, Glasgow: W. Pirie, Artroath; G. M. Grieve. Dundee ; R. F. Oranger, Whitby ; F. M. Graham Monmouth: W. Rae, Ghasgow ; $\mathbf{P}$. Mcelligot, herri: J. M linhan Manritius ; W. R. Lemon, Co. Armagh; W. J. H. Cumming, Kent ; E. $\Lambda$. C. Hindmarsh, Calconta; J. Nesbitit. Co. Derry; T. C. Patterson, Co. Donegal; T. E. Jones, South Wales ; O. W. Morgan, Ceylon; J. S. Boyd, Ren-
 Frey, Tipperars; W. D. Sweeny, Co. Mayo; and R. Maclean, Ross-shire.
Final Examination. - Of 70 candidates, the following 44 passed, and were admitted L.R.C.P.Ed., L.R.C.S.Ed., and L.F.P. and S.Glasg.
G. A Rannatyne, Rutherclen ; E. A. Simeon, Delhi ; A. E. Yaughan, Crewe ; W. A. Frizeli. Lisverpool; J. B. Meredith, Queen' Co . ; S. Mellor, Hudderstield ; R. Aldous. Norfolk; H. Buxton, Lancashire ; F. W. Browning: Monmonthshire ; A. B. Watson, Nortolk; F. J. Pacey, Melbourne: W: Yorke, Glasgow'; C. R. Pigg, Neweatte-on-Tyne ; J. K. Contts, Aberdeen ; K. A. Narayan. Kuch Behar; A. Siddon, Mangnlore; Miss Jessie Crosficld. Liverpool; W. Grey. Northumberland : S. J. Dunlop, Co. Autrim; A. Mill, Co. Antrim ; H. Chadwick, Burnley; A. Bradshaw, Sierra Leone A. Osborre, Notts ; P. J. Mehta, India ; B. E. Jones, Crewe ; J. H. Pes tell, Australia - R. F. Shaw, Hereford; c. H. Sharpe, Norwich ; C. $F$. Lovilond, Bridgwater ; W. Bell. Enniskillen; A. Maeconnld. Edinhurgh D. Barry; Co. Cork: W. W. Williamson, Scarl lorouph; E. E. Cratter, Mid diessbrongh; A. G. Laidiler, Stockton-on-Tees; H. F. Lau rence. Tasniania A. H. Goodwyn, Devonslire: © G. O. Moorhead, india: II. G. Maekid Canada; C. Smyth, Limerick: H. C. C. McNlell. Folkestone ; G. in Douthwaite, Warminter; I. Crawford, Omagh; and iW. B. Marston, jun.: Lonton.

Royal Coliege of Strgeons, Eminburgh,-During the April sittings of the Examiners, the following candidates passed the Final Examination, and were admitted L.R.C.S.E.
Miss Jane Bizizheth, Waterston, Invernees ; D. M. Greig, Dundee; and G.
The following candidates passed the First Professional Examination for the Licence in Dental Surgery:
A. E. Donayan, Cambridge; K. J. A. Hंolgkinson, London: T. Gregory, Ediuhurgh; J. S. Walker, York; R. K. Common, Edinhurgh; h. J:.
O'Dufy. Wuhlin: and T.c. Mchenzie, Edinhurghi. Examination, and The following candidate
G. W. Welham. London ; H. B. Erard, Bath ; J. S. Walker, York ; and K. E. O'Duffy, Dublin.

King and Queen's College of Pifyicians in Ireland.At the usual Monthly Examination Meeting of the College, held on Friday, May 11th, the following Registered Medical Iractitioners were admitted as Licentiates of the College:
The Licernces to Practise Medicine and Miduvifery, -D. M. L.indiay, L. R.C.S.I. Kilkeel, Co. Down ; J. A. St. George Whitty, L.R.C.S. I., Droghedn.
The $L$ icence to Practise Medcine only. J . A. Coen, L........S.L.; Castlerea, Co
The Licence to Practise Miduelfery only.-J. $\mathbb{P}$, , Il ubhard, M.R.C.S.Eng., Blox wich, Walsall, Stafordshire; G. F. Hugill, L.R.C.P.Lond., Chislelinret Kent.
At the same meeting of the College, the Licences to practise Medicine and Midwifery were conferred upon the following candidates who had passed the Fourth, or Final Professional, Examination under the Conjoint Scheme with the Royal College of Surgeons in lreland, at che April Examinations, namely:
C. J. Hughea. Willowdale, Gleargeary, Co. Dublin; P. G. Lee, Sydenham Terruce, Monkstown, Co. Cork; R. Maidougall, Dmmleck, Howth; H.
D. Mason. Yorrley, npar Birminghan: W. F. Rowantree, Forthill Hous 1. Shlel, Mullingar; J, If Suan, Dianond, Monachan ; Florence Night gale Tonis, Chard, Somerset.

## MEDICAL VACANCIES.

## The following Vacancies are announced:

BALTINGLASS UNION. - Medical Oficer. Dunlayin Dispensary, Salary, \&i: per annum, and tees. Applications to Captain Helghton, J. P., Honora Secretary, Donard Honse. Election on June 13th.
BIRMINGHAM AND MIDLAND SKIN ANU LOCF HOSPITAL-ACtin Surgeon. Applications by May 26tlı to J. E. 11irtley, Esq., 13, St. Paul Square, Birmingham.
BIIDGNORTH AND SOUTH SIIROPSHIRE INFIRMARE, Bridgnorth. Honse-Surgeon. Salary, $£ 120$, with rooms, coal, gas, and attendance. A plications by May 23 rd to the Honorary Secretary,
BRIGHTON, HOVE, AND PRESTON DESPLINSARY. - Iouse-Sirgeo Salary, £140, with apartnents, ete. Applications by June 2nd ta the Aesio ant Secretary.
BRISTOL ROYAL INFIRMARY.-IIouse-Phy゙sician. Salary, £100 a vear, wit board, washing, and apartments, Applications by May 1 gith to th Seeretary.
CIIELSEA IIOSPITAL FOIR WOMEN.-Clinical Assistants. Applications L May 194 to the Acting Secretary.
CHELSEA HOSPITAL FOIR WOMEN.-IEsident Medical Ofticer. Salar £bo, with board and resiclence. Applications ly May 3lst to tho Se retary.
CHILDREN'S HOSPITAL, Birmingham.-Assistant Resident Medimal Office Salary, e40, with Loard and lodging. Applications by June bith to tl Secretary.
CIIILDREN'S HOSPITAL, Birminglamm, Resitent, Medieal Offeer. Salar £80, with board and lodging. Applications by June thth to the Secretary.
CITY OF LONDON HOSPITAL FOR DISE.ISES OF TIIE CIIEST, VICtor Park, E.-Assistant Physician. Applications by June Tth to ther Set

COUNTIES ASTLUM, Carlisle.-Assistant Medical Superintendent, Salar £120, with board. Applications by May 29th to Dr. Campbell, Garlaud Caylisle.
EAST LONDON HOSPITAL FOR CIIILDREN, Shalwell, E.-Assistant Su geon. Applications by May 23rd to the Secretary.
EAST LONDON IIOSPITAL FOR CHILDREN, Shadwell, E.-Surgeon. Al plications by May.23rd to the Secretary.
FULHAM UNION.-Resident Medical Superintendent of Infirmary, an Medical Officer of the Union Workhouse. Salary, $£ 30$, with residence, ets Applieations by Jurne 5th to the Clerk to the Guartians.
GORDON HOSPITAL FOll FISTULA, etc.. Yauxlall Bridge Road. Assis ant Surgeon. Applications by May 26 th to the Secretary.
ILALIFAX INFIRMARY AND IISPENSARY, SEniot IIonse-Surgeon. Su ary, $£ 80$ per annum, with board and resillence. Applications by May $20 n$ to Dr. E. West Symes, Mope Hall, Malifax,
HOSPITAL FOR DISEASES OF THE THROAT, Golden Square.-Resider Medical Officer. Salary, fso per annum, with board and lodging. Appi cations by May 26th to the IIonorary Secretary.
KING'S COLIEGE HOSPITAL-Assistant-Surgeon. Appllations 10 Secretary.
LONDON TEMPERANCE IIOSPITAL, Hampstead Road.-Surgeon. Appl cations by June 16 th to the Secretary.
LOWESTOFT FRIENDLY SOCFETIES MEDICAL INSTITUTION.-SuH geon. Salary, f160 per ammm, with extma fees. Applications by May 215 to Mr. J. Ham nond. 4 , Maghan Street, Lowestoit.
METILOPOLITAN ASYLUMS BOARD: SMALL-POX HOSPITAL SHII: Long IReach.-Assistant Medical Officer (Clinical Assistant), Board, fu nishea apartments, aun wrehing. Applicatious by May 25ti to the Cler to the Metropolitan Asylums Board, Norfolk House, Nortolk Street, Stram W.C.

METHOPOLITAN HOSPITAL, Kingsland Hoad. - Assistant Honse-Surgeo: Salary, £40 per ammun, with board and residence. Applications by Ms 21 st to the Sceretary.
 liesident Medical Offeer. Salary, £50 per annuru, with board and lodelng Applications by June 2nd to the Secretary:
NORTII STAFFORDSHIRE INFIRMARY,-House-Plysician. Salary EnO with board, washing, and apartments, Applications by May 23rd to th Secretary.
OWENS COLLEGF, Manchester-Professor of Surgery, Applicaljons by Jun 9th to the llegistrar.
ROYAL HOSPITAL FOR DISEASWS OF THE CHEST, City Road.-Jupic Honse-Physician. Salary. fso per annum, with board and lotging, AI plications uy May $19 t h$ to the Secretary.
ST. 1PETER'S IIOSPITAL FOR STONF, ete., Jemrietta Streal. Coven Garden.-1lonse-Surgeon. IIonoranjum, 焉 gutueas, with bourd, loxlgiug ete. Applications by May 2yth to the secretary.
SMALL-POX IOSPITAL, IBirmingham.-Hesident. Medical Suprintenelen Salary, el50 per anmun, with hard, etc. Applimathons by May 25thl to th Chairman, Health Committer, Comnell Ilouse, Birmingham.
UNIVERSITY COLJFGE, LONDON.-Protessor of Butany, Applications b May 30th to the secretary.
VICTORIA $11 O S P I T A L$ FOR CHHLDIREN, Chelsen.- House-Physician, IIone rarium of 550 , with boaril and lodging. Applications by June 2nd to tha Secretary.
VICTORIA HOSPITAI, FOR CHILDRFN, Chelsea.-House-Surgeon. Hond rarium of $£ 5 j$, with board and lodging. Applications $1, y \mathrm{~J}$ ine 2 nd to th Secretary.

ELLINGBOROIGGII AND DISTRICT MEDICAL IXSTITUTE.-Medical Officer. Salary, £230, and fees, with dwelling-house, etc. Applications to G. Bayes, Esq., Jackson's Lane, Wellingborough.

TEST LONDON HOSPITAL, Mammersmith Road, W.-Assistant SurgeonAEST Lications by May 24th to the Secretary.
VESTPORT UNION.-Medical Officer, Westport No, 2 and Louisburgh No. 2 Districts. Salary, £39 per annum, and fees. Election on June 241 h.

## MEDICAL APPOINTMENTS.

rnerson, John, M.D., C.I.E., appointed Visiting Physician to the Seaman's Hospital Society, Greenwich, vice H. T. Grifiths, M.D., resigned.
orm, A. E., M.B.Edin., appointed Assistant House Surgeon to the Liverpool Infirmary for Children, vice H. II. Jones, M.B., resigned.
EDin, H. A., M.B., M.R.C.S., appointed Surgeon to the No. 1 Section of the Manchester Ship Canal.
EETHIS, A. S., M.B., M.R.C.S., appointed Kouse-Surgeon to the Monkwearmouth Dispensary, vice II. Shelmerdine, M.B., resigned.
arnen, F. W. A., L.S.A., appointed Assistant House-Surgeon to the Rother ham IIospital.'
LAREE, W. F., M.R.C.S.Eng., M.B.Lond., appointed Honse-Surgeon to the Newport signed.
Leninisex, J. George, reappointed Medical Officer of Health to the Coseley Urban Sanitary Authority.
olman, W. S., M.B.Lond., M.R.C.S., appointed IIouse-Physician to the Hospital for the Paralysed and Eplieptic, vice R. T. Wiiliamson, M.B., M.R.C.S., resigned.
awson, W. E., appointed Physician to the "Churchill Home" for Women, Chiswell Street, Finsbury Square, E.C.
UCKET, C. Alex., M.R.C.S.. L.II.C.P.Lond., L.S.A., appointed Junior HouseSurgeen to the Ancoats Hespital, Manchester.
UUTT, W. K., M.R.C.S.Eug., L.S.A.Lond., appointert Junior House-Surgeon to UTT, W. K., M.R.C.S.Eng., L.S.A.Lond.. appointer, Ji.B.Durh., M.R.C.S., reslgaed.
aic, G. Washington, M.B.Edin., appointed Henerary Medical Officer to the St. Pancras Female Charity'School and Orphanage, vice A. W. Cadman, M.R.C.S., etc., resigned.
xes, John Thomas, L.R.C.P., L.R.C.S.Edin., appointed Medical Officer and Puhlic Vaccinator to the Whitford District of Holywell Union, vice H. L. Daries, M.B., resigned.
ANE, W. Arbuthnot, F.R.C.S., appointed Assistant-Surgeon to Guy's Hospital.
Each, J. Comyns, M.D.Durlı., reappointed Medical Officer to the Rural Sanitary District of Sturminster.
ress, R. Clement, M.B., F.R.C.S., appointed Surgeon to Guy's Mospital, vice Thomas Bryant, F.I.C.S., resigned.
LCQuitry, W. B., M.D., M.Ch., M.AO... appointed House-Surgeon to the loyal Hospital, Belfast, vice S. A. Powell, M.B., M.Ch., M.A.O., resigned.
arri, Jolun William, L.Il.C.P., L.R.C.S.Edin., appointer Medical Officer to the Workhouse, Ifolywell Üton, vice II. L. Davies, M.B., resigned.
iexnall, Percy, M.D., M.R.C.S. Kng., sppointed Assistant Colonial Surgeon at the Gambia.
prichr, Walter, L.R.C.P., L.R.C.S. EAlu., appointed Deputj-Coroner for the Refford District of the County of Nottingham.
pencer, W. IK., M.A., M.D.Cantab, uppointed Consulting Physician to the Dristol lioyal Infirmary.

Dr. Grant Bey, of Cairo, has been elected an honorary member f the New York State Medical Society.
The Late Dr. William E. Buck.-A chapel has been erected it the Lacicester Infirmary in memory of William Elgar Buck, I.A., M.D., formerly honorary physician to the infirmary.

TWE POPE has bcen graciously pleased to confer upon Dr. 1. L. Kenny, M.E., Ch.B.Melb.; the title and dignity of Chevalier f the Order of Gregory the Great. Dr. Kenny is a member of the ritish Medical Association.
Dr. Macpilail, who has acted as Assistant Medical Superinendent of the Cumberłand and Westmareland Asylum at Carlisle or the last six years, las been appointed Medical Superintendent f the Derby Borough Asylum. Dr. Macphail is a graduate of the idimburgh University, and was awarded the mednl of the Medicosychological Association in the year 1884 , for his researches on he blood of the insane.
Shefrield Medico-Chirurgical Societr.-The following Iffcers have been elected for 1888-9. President: Dr. J. W. Martin;「ice-President: Dr. de Bartolomé Treasurer: Mr. G. S. Taylor; Vecretary: Mr. Simeon Snell; Other Members of the Committee: Ir. Garrard, Mr. W. F. Favell, Mr. A. Jackson, Mr. I'ye-Smith, Dr. ityme, Mr. Browning, Mr. E. Skiuner, and Dr. Hargreaves. Dathological Committee: Mr. C. Atkin, Mr. Frank llarrison, Dr. ocking, and Dr. Burgess.
The Iredical Colleges and Schools. Scholarshifs and bizes, Winter Session, 1887-88.-London Hospital College. -Clinical medicine: scholarship, Mr. H. E. Skyrme; hon, cerificates, Mr. W. S. Fenwick, and Mr, Reckett (equal). Clinical
surgery: scholarship, Mr. W. S. Fenwick; hon. certificates, Mr. H. E. Skyrme, Mr. M. A. Rudd.-St Mary's Hospital Schonl.The first-year prize of $£ 3$ 3s. in anatomy and histology, Mr. Evans, and that of $£ 33 \mathrm{~s}$. in chemistry, Mr, Mander Smythe. The secondYear prize of $£ 33 \mathrm{~s}$. in anatomy, Mr. L: Rogers, and that of $£ 33 \mathrm{~s}$. in general physiology, Mr. Winter. The third-year prizes of $£ 33 \mathrm{~s}$. in medicine, $£ 3 \mathrm{~s}$. in surgery, $£ 33 \mathrm{~s}$. in pathology, and $£ 33 \mathrm{~s}$. in fordive surgery, Mr. R. H. Cole.-King's College.-The Warneford scholarship of $£ 25$ per annmm for two years, Mr. Harry Lambert Lack; the surgical clinical prizes of £3 each, Mr. Harry Lambert Lack and Mr. Arthur Henry Cheatle.-Usiversity Col-LEGE.-The Fellowes gold clinical medal, Mr. G. R. Murray: the Fellowes silyer clinical medals, Messrs. W. B. Ransom, B. M. II. Rogers, and W. J. Broadhurst; the Liston gold medal, Mr. W. B. Ransom.

## DIARY FOR NEXT WEEK.

Royalemedical and Chiburgical Society 8.30 f.m.-The following papers will be read. Dr. P. Kidd and Mr. H. H. Taylor: On the Valne of will be read. Dr. Kilus in Clinical Diacnosis. Sir William B. the Tubercle Bacillus in Cinical Diagnosis. Sir winam BiDalby: The llemoval of Bony Growths from the External Auditory Canal. Drs. Alfred Sangster and Frederick W. Mott : Peraphigoid Eraption with Changes in Peripheral Nerves.

## WEDNESDAY.

Britise Gyx.ecological Society, 8.30 p.M.-The following papers will be read. Dr. Fancourt Barnes: Complete Chronic Inversion of the Uterus. Mr. Lawson Tait: The Infuence of Removal of the Uterus and its Appendages on the Sexual Appetite. Dr. Menry Uterus and its Appendagest of U'terine Fibroids by Hydrastis Canadensis. Specimens will be exhibited. Council, S P.M.

THUESDAY.
Royal Medical and Chirurgical Sqciety, 8.30 P.M.-Special Meetiug.Irarshall Hall Prize, I883.-Dr. Walter Holbrook Gaskell, F.R.S. : The Relations between the Function, Siructure, Origin, and The Relations between the Fundion of the Nerve-Fibres which compose the Spinal and Distribution of
Cranial Nerves.

FRIDAY.
Quekert Microscoptcal Club (University College, Gower Street), 8 P.M. Papers by Messrs. Buffham, Smith, and Priest.
Clinical Society of London, 8.30 p.M.-Dr. Ord will read a summary of the conclusions arrived at by the Committee on Myxoedema. Mr. A. E. Barker: A case of Intussusception of the Cacum. Ascending and Transverse Colon treated br Abriominal Section. Ir. R W. Parker. Two cases of Intussusception, with special ucard to Parker : Two cases olmt. Mr Pace: Two cases of regard to symptoms and Ireatment. Kr. Woud Dr ward Rupture of Intestine without External hound. Dr. Ward Cousins: Case of Stone, in which Lithotomy was pertormen twice Withis two months. Liring Baker: Two cases of Uusual Congenital Deformity.

## BIRTHS, MARRLAGES, AND DEATHS.

The charge for inserting announcements of Births, Marriages, and Deaths is Ss .6 d ., which should be forwarded in stamps with the announcement.

## MARRIAQES.

Whight-Kext.-On May 9th, at St. Mary's. Kippington, Sevenoaks, by the Rev. Prebendary Tate, vicar, and the Kev. C. B. J. Carter, of St. Giles. Cripplegate, Bernard D. Zorapore Wright, M.R.C.S., and L.R.C.P., second son of J. W. Zorapore Wright, of Barton Fields, Canterbury, to Alice, thirl daughter of the late Willian Kent, of Jondaryad, Darling Downs, Queensland.
Sxeli-Goldey.-On the 14th April, at All Saints' Church. Berbice, British Guiana, by the Yetu. Archdeacon Farrar, B.D., assisted by the Rev. Canon Butt. B.A., and the Rev. Francis Welch, George Stell, M.R.C.S.Eng. Medical Superintendent Public Lunatic Asylum, to Louisa Augusta, youngest daughter of G. J. Goldney, Maoager, Coloaial Mank, Berblee.

## LETTERS, NOTES, AND ANSWERS TO CORRESPONDENTS.

Commivicatiovs respecting editorial matters should be addressed to the Filtor, Stman $\mathrm{V}, \mathrm{C}$ London: those concernlag business matters, non-delivery 22. Strand, W.C., London: these concerd to the Manager, at the Ofice, $42 \%$. Straud, WV.C., London.
In order to avold delay, it is particularly requested that all letters on the diterial business of Jourial and not to his private house.
Authors desiring reprints of their articles published in the Britisir Medical Jourral are requested to communicate beforehand with the Manager, 429 , Strand, W.C.
Correspovorens who wish notlce to be taken of their communications, should Correspondents who wish notice ta be aken of not necessarils for publication. authenticate them with their names-ol course not necess the Notices to Correcormadents of the following weels.
gipoadents of the following wees. Office of teis Jouriall casnot under ant MiNUSCRIPTS FORTIRDED TOTEIE
elrounstanoes be returyed. We shall be much obliged to Medical Officers
Piblio Health Departicent.- We Public Health Departicent.-Te shal thetr Anual and other Reporta, fayour of Health if they will, on
us with Duvlicate Copies

## QEETIE.S.

Practice in Australifa.
M. is anxlous to ascertaln the prospect for an experiencod medical man (middleaged) in the Australian colonies.

## polson Chart

J. H, asks: Can any member recommend in good and cheap chart of "poisons and Their antidotes," for hanging in a surgery?

## ANSWEItS.

Nusquas.-It would be quite contrary to prolessiond rule to do so.
Adpertisemert.-The circular in question should be sent to the College to which the gentleman belongs, and the result of the correspondence communicated to us.

## Lserine.

Dr. Grorge F. Differ (Dublin) writes: In reply to the queries of your correspondent "D," (I) the name "eserine" was given in I865, by Vée and Leven, to a crystalline alkaloid, obtained by them from the seeds of the physostigma venosum; and (2) first described in the Comptes-Reardhe, 60, 1194 ; (3) the derivation of the word is from the name "escre," by which the seeds were known to the natives of Old Calabar.

## Qualifications for Mmmites.

M.R.O.S. wishes to be informed of the usual course to be pursued by a respect able person wishlng to obtain a proper qualitication as a midwife
** The Obstetrical Society of London awards certificates to midwives after due examination. For official information apply to the Librarian of the Society, 54, Berners Street, Oxiord Street, W.

Binind Asyivils.
M.D. asks whether there is any home or asylum for the blind which would ad milt a domestio servant, aged 21, who had an nitack resembling meningitis three months ago, during which she rapidly lost her sight completely. She has recovered from the attack, and is now in fair health, but there is no improvement in vision whatever. An eminent specialist, who has examined her eyes, has little or ao hope of her recovery.
** Application might be made to the Association Ior Promoting the General Wellare of the Blind, 23. Berners Street; or to the British and Foreign Blind Associstion (Secretary, T. IR. Armitage, 33, Cambridge Square, W.). Further Information may lia obtained frooz Fry's Louton Charities, published at 3, St. Martin's Place, Trafalgar Square.

## NOTES, LETTERS, ETC.

Bayfield Defence Fund.
Mr, E. Bellamy (17, Wimpole Street) writes: Please place the [ollowing nd ditional subscriptions to the Bayfield Defence Fund:H. M. M.

Dr. Tandy, Cedara Roadi, Clapham
The Luce Fund
Donations up to May 8th
Dr. Moore
Mr . R . Ifarrison
Mr. Robert Jones
Ju. .................... ... 1110的 Liverpool.

Ar Appesl.
We desire again to call attention to the appeal priated on April I4th, to enable a medical man of good position, who has been reduced to absolute destitution through no fault of his ows, to buy a amall mractice, and inake a living for himself and wife. Contributions towards the purchase money will he received by Dr. Farquharson, M.P., Migvie Lorlge, Porchester Gardens, W. rccesed the namea of contributors alrealy announced appear Sir William Jonner, Sir James Paget, Sir Joseph Lister, Sir Andrew Clark. Sir Prescott Mewitt, Sir Spencer Wells, Sir IIenry Thompson, Dr. Broadbent. Mr, Thomas Smith, and Dr. Hare. (see pages 817 and 944), hut the amount received is still tnadequate for ilhe purpose in view.

The Chfton Luxaci Case.
Megsr.J. Micherlt Crabke not W;H. Marsamt write : May we ninca again trespass on your kindness to acknowledge the following donations to the Marshall and Shaw, Fubd, which hare bery received during the last few days?

The list is now closed, and the total amount received is $£ 3.6 \mathrm{3s}$, 6d., which sum, minus a small amount for expeuses, has been handed to the two gentlemen. The legal expenses have amounted to opwands of food, but the exact sum is not yet known
We take this oppnrtunity of thanking all subacribers to the fund for the ready way in which thep have responded to our appeal, and we also especlally thank the Editor of the British Memical Journal, for giving such valuable publicdy to the subscription list.

Amount already acknowledged
Inglis, Alex. M., M.D. (Cheltenham)
Keall, TV. P.
Ormerod, II. (Westbury-on-Trym)
Spencer, W. H., M.D. (St. Leonard's)
Thomas, A. Garroi, M.D. (Newport) ..
Trotman, W. C., M.D


COMMUNICATIONS, LEITERS, eto., have been received from
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## CLINICAL LECTURE <br> H※MATURIA <br> Delivered at University College Hospital. <br> DY BERKELEY HILL, F.R.C.S.ENG., M.B.Lond., Professor of Clinical Surgery in University College, London.

IIEMATuma, or bloody urine, is only a symptom ; but one which varies much in importance. It may signify a trivial injury or a dangerous and rapidly fatal condition. Therefore an analysis of the characters that hematuris may assume is worth our attention this afternoon.
Blood may escape into the urine at any part of the urinary tract. Hence, for convenience, 1 shall arrange the varions forms according to their locality, namely, from the kidney, including the pelvis and ureter; from the bladder; from the prostate; and from the uretlira. The multitude of the causes of hæmaturia compels me to dwell in my remarks only on those varieties which concern the surgeon. Nevertheless, he should know all the causes that he may distinguish those needing surgical treatment.
General Causes.-Old age brings to some men enlargement of the prostate, and the enlarged organ, if congested, is more liable to bleed than when in its unenlarged condition. In women, at the menopause, or eren before that crisis is reached, blood is sometimes voided from the kidney vicariously for the menstrual flow. Also, in women, mixing of the menstrual discharge with the urine after it has left the urethra must not he forgotten. In children, malignant tumours of the kidney are more common than in adults, and they often bleed copiously. In certain countries parasitic diseasses prevail which have hematuria for a leading symptom. In Egypt and South Eastern Africa, the bilharzia hematobia is the common parasite which produces the hematuria. In China, bloody urine is caused by the filaria sanguinis hominis. Some general diseases which modify the blood, such as purpura, scarlet feeer, measles, or typhoid, and in warm climates, maxarious affections, may cause hematuria. Certain drugs, for
example example, lead, mercury, arsenic, cantharides, turpentine, or copaiba, and, it is said, asparagus, will proroke bleeding from the kidney. ing congestion of thd damp, heart-disease, or gonorrhea, by cansing congestion of the e kidney, will produce bloody urine . Like-
wise, sudden suppression of a custemary disclarge, such as epistaxis or hemorrhoidal flux, may be replaced by hematuria. Yiolent exertion of any kind will determine congestion of the kidney in some persons. Even shaking in a rough carriage, hunting, long marches, carrying heary weights, wrestling, the romiting that sometimes occurs during the throes of parturition, aud excessive copulation produce heematuria. It must be admitted that chronic renal disease is often present when bleeding follows the exciting causes 1 have mentioned.
The characters of hloody urine vary much. Sometimes the effusion of blood is sudden nnd unexpected; sometimes there are premonitory signs. The quantity and appearance of the blood also differ much. The urine, often clear and limpid, is rosy or crimson when it has been evacuated inmediately after extravasation; lut if the llood hass remained some time in the bladder, the urine acquires a dirty brown hue, porter-like if copious, smoky when scanty. This change is due to the hemaglobin being changed to methemaglolin by the action of the acid in the urine.
Again, clots like black 'currant jelly, or narrow worm-like coagula, may come nway. The latter are casts of the urethra, or, in rare cases, of the ureter, Under the microscope minute clots' of thread-like form may sometimes be detected; these are casts of the kidney tubules.
The corpuscles undergo changes. By soaking in urine they swell up, become vacuolated, and grow colourless. They may then be confounded with discoid oxalates or torule; both these objects are smaller than blood cells, and the torule are generally oval, and have a bright nucleus. Besides, the ocular test, which suffices to distinguish most cases of blood in the urine, and are the only ones by which the condition known as hemaglotinuria can be diagnosed from bloody urine thereare the tests with guaiacum and with the spectroscope. For the guaiacum test, shake a
few drops of fresh tincture of guaiacum in a drachm of urine. Then, if some ozonic ether be added, a hlue colour comes to the mixture. Two sources of fallacy exist. The urime does not always give the blue tint, and if iodide of potassium be present, a blue reaction will occur, even if no blood be present.
The spectroscope: this somewhat complicated process of medical physics and chemistry is too intricate to explain in a ferr words, lut we have some specimens prepared for us by Mr. Barton, Dr. Ringer's house-physician, who will presently demonstrate them to you. For a detailed description of the processes to bo employed you may also refer to Dr. McJlunn's work, The Spectroscope in Medicine, 1884.
$t$ is often possible to ascertain at which part of the urinary tract the blood escapes into the urine by draining the urine from the bladder as soon as it oozes through the meatus of the ureters, by placing a catheter in the empty hladder after that organ has been carefully washed, and leading the secretion at
once from the body. Indeed, attempts have been made to once from the body. Indeed, attempts have been made to collect short beak and a long eye. The catheter is so laid in the with a that its long eye shall lie closely against the outlet of one ureter, and drain away the urine dripping from that ureter to the exclusion of the urine arriving by the other nreter into the bladder. When there is blood in the urine, the act of micturition is often more frequent than at other times, partly because the effusion of
blood excites the bl common accompaniment to contract, partly because cystitis is a cases by irritation syment of hæmaturia, and probably in some of blood lost raries much. The bleeding may be constant, quantity the urine may be always tinged with blood, or the urine mat is, at times perfectly free of blood. The duration of the attack also raries much; usually, when intermittent, the length of the attack is short, and the interrals extend over weeks or months, or eren years.

Local Causes. - With respect to the kidney, blows on the loin wounding the kidney or the ureter, and operations on the kidney produce hæmaturia. The condition called " movable kidney" is nephritis or pyelo-nephritis set up by calculi, tubercle, cancer are villous tumour in the kidney or ureter. The irritation of stronguli or ather entozoa in the pelvis may be the exciting causes of hæmaturia. Either with or without these accidental prorocatives, blood is lost from the kidney in various inflammatory affections, as in acute suppurative nephritis, in acute congestion without suppuration, or in advanced stages of Bright's disease.
The kidney is probably the most frequent source of bloody urine; but the signs of renal hæmorrhage are often negatire, and the diagnosis is reached in many cases only by exclusion. Indicative of renal bleeding are the following: pain or sense of weight in the loins, with tenderness on pressure. In the sedior uric acid crrstals attached to the tubules, with minute calculi the bleeding is due to some general condition, or is a sequan acute disease, the diagnosis of the renal source of the blood is helped by the history of the illness, by signs of cardiac disease, by the presence of anasarca, and, as renal bleeding is often scanty, by the dark, smoky aspect of the urine. "Smokiness" is produced wheu the quantity of blood is small and erenly diffused kidney. There will be in other cases the signs speciat the affecy. There will be in other cases the signs special to the
affection of the kidney that causes the hrmorrlage. There would be also no indication of disease in the bladder, prostate or urethra. If there have been injury, exposure to cold, or excessive exercise, the bleeding will be free though short-lired. When renal calculus is the cause of the bleeding, the blood is rarely copious. The urine is acid, and has a plentiful deposit of muco-pus, with perhaps tubule casts. There is often a history of long-lasting pain in the lloins, shooting along the course of the ureter, exciting in some cases slight pain at the neck of the bladder, and increased frequency of micturition. Added to these signs may be an enlarged kidney, easily felt by reason of its diated pelvis, which may eren fluctuate on palpation through after ulceration
Tubercular disease would hare similar symptoms, but small calculi or uric acid crystals would be absent from the urinary deposit. There would be pus in the urine long before the adreut of blood to mingle with the urime. This complication would be in-
dicated by tenderness on pressure along the course of the ureter, with pain in the loin and groin. Tubercle of the ureter is prohably never secn unless the kidney or bladder is affected also.
ln cancer of the kidney, in addition to lumbar pain, frequent and painful micturition, there is sometimes enlarged kidney, or a tumour in the loin is palpable. Bleeding is a constant symptom, sometimes copious and intermittent, more often scanty and continuous, though varying in amount from mere smokiness of the urine to a dark porter-like 月uid with coagula. With such uncertain signs it would not be possible to diagnose cancer from calculus, tubercle, or other renal affection. In time the growth will spront into one of the calyces, and fragments of it may be found in the deposit of the urine. Gradually, the increasing severity of the symptoms and the wasting of the patient confirm the malignant nature of his disease.

Syphilis is occasionally the cause of renal bleeding. In a patient under my care, who had tertiary disease of the pharynx, tbere was for some weeks persistent slbuminuria; to this was added a sudden attack of hiematuria, with dull pain in the right loin. The urine was dark like coffee for four days; after that it beceme light brown, then smoky, and gradually regained its natural colour; ultimately no more than traces of albumen remained. Dr. Sauudby (JourNal, December IThth, 1887) relates a sornewhat similar case, but in his case some ligaline casts were also detected in the urine, and the infection was inherited.

In the bladder blood may escape into the urine through rupture of that viscus by blows on the hypogastrium, by laceration in crushed pelvis, or by too rongh handling of the lithotrite or sound. Even too rapid evacuation of the bladder after over-distention may produce it in patients whose veins are varicose beneath the mucous membrane about the neck of the bladder. Cystitis from any cause, and the ulceration produced by stone, tubercle, or cancer, often bring on bloody urine. The fibrous, the sarcomatous, and the villous tnmour, each in their degree, though the villous more than any other, have bleeding as an important symptom. Lastly, the bilharzia hæematobia has its most frequent seat in the walls of the bladder.

When bleeding is caused by stone in the bladder, the loss of blood is commonly slight, intermittent, and mainly at the end of micturition, when the chafed part of the bladder against which the stone lies is compressed. Then a few drops of blood are expelled from its surface. Where ulceration is extensive, or where the mucons membrane is inflamed, the urine is often discoloured by blood which has exuded between the acts of micturition. The quantity of the blood is usually increased by rough exercise. In addition, there would be painfal micturition, alteration of the stream, and other signs of stone to be obtained by sounding.
Tubercular disease, though cxtending into middle life, mainly affects youths and young adults. Here bleeding is a very minor symptom. It shows itself in the shape of clot in the purulent deposit, or clots are washed out with the first flow of urine, or a little bright blood comes away at the end of the stream. The signs of tubercle closely resemble those of stone; the distinctions being the cscape of clots before the flow, and the early appearance of severe pain during and after the flow of urine. Sounding the bladder is also much more painful to the patient when tubercle is present, owing to the customary seat of tubercle being at the neck of the bladder, and the sound strikes the ulcerated surface,

When a tumour growing in the bladder is the source of the hermaturia, the form the bleeding takes varies somewhat with the structure of the tumour, though this variation does not always take place. One reason why all the different growths may have free blceding for an early symptom is the fact that the several tumours may have a papilloma as a part of their structure, while the base is fibrous, ascomatous, or even epitheliomatous. Roughly speaking, the papillorata bleed abundantly at interwals, withont causiug much pain or inconvenience. The fibromata and sarcomata also bleed obatinately, and at ahort intervals. The epitheliomata usually cause mucli pain and irritation before the bleeding becomes important.

Bearing in mind the exceptions to this general habit, it may bo inferred that the tumour has a dendritic or villous form if the blood is roided copiously at frot, appearing without pain or increased frequency of micturition, and giving the patient no physical distress. The loss of blood continues for an indefinite time, from three or more days to a week or more, and then stops as auddenly as it began. While going on it scems not to be affected rither by rough exercise or by roct. The amount of blood present
in the urine varies much. Most commonly it is copious and florid, sometimes dark crimson; when the loss of blood is very slight the urine may be merely smoky. A great characteristic when the hleeding is scanty is the flow at first of clear urine, but as the bladder empties, the stream becomes mainly
bright blood. In such cases the patient may feel a little bright blood. In such cases the patient may feel a little
smarting as the contraction of the bladder squeezes blood from the growth. Characteristic also of bleeding from papilloma is the kind of deposit which settles in the urine. It consists of a loose reddish-brown sediment made up of brown coagula and whitish flocculent masses of discoloured fibrine. Not infrequently the deposit contains fragments of the tumour, which can be recognised, and the diagnosis thereby made certain. By sounding the bladder, in many cases the sound can be so directed as to catch against or to slip over the growth, and thus mark its position in the bladder.
The hæmorrhage having ceased, the urine becomes clear, and may remain so for months. More commonly, a little blood is lost at the end of micturition on most days, but it may disappear utterly for years. Sooner or later, nevertheless, perhaps in the same painless way as before, the bleeding reappeara, and after the second or third recurrence, increased frequency of micturition and dull, aching pain at the end of the flow become coustant phenomena. When clota like black jelly are washed along the urethra, they cause pain if they are large. This intermittent hæmaturia may recur for years without affecting the patient's health or apparently ahortening his life. There are specimens of bladders with such turoours in the museums, taken from persons who lived to be 80 years of age, and died from causes unconnected with the bladder. Further, cases are recorded where the whole tumour was extruded, and the patient recovered completely. Such a happy ending must not be looked for ; in nearly all cases, if untreated, the papilloma sets up cystitis, or causes obstruction of the outlet of an ureter, and so dilatation of the pelvis, with destruction of the gland, and ultimately death by great suffering.

The following case of aimple papilloma was treated by me in this hospital in 1885. A temperate man of 55 first noticed loss of blood from the bladder in the summer of 1879 . At that time, during micturition, the urine came away at first quite clear; then a sense of more to come was felt, and a few drops of pure blood would be ejected. Micturition was not increased in frequency: nor was there any pain. The escape of blood, until the spring of 1880, was only occasional and never large. In March, 1880 , the urine for two days was charged with blood, and bright crimson is colour. The bleeding then stopped altogether till the beginning of January, 1881 ; then one copious loss of blood took place.
January 2 nd there was a repetition of bleeding at every voidance of urine; great clots came away, and a little scalding was felt for a few minutes after the flow had ceased; thenceforward no discomfort was felt till the next discharge of urine. There was no increased frequency; the urine was retained all night. There was no spasm nor violent effort to drive out the clots; but there was pain if the clots were large enough to fill the urethra. This attack of hematuria continued for nine days, and then auddenly stopped. After thirteen days the blood reappeared, and the urine was more or less charged with it for six weeks, and then bleeding again entirely ceased for a month. The blood came again copiously and again ceased; but thenceforth the urino ustally contained a copper-coloured sediment, and at the end of micturition a few drops of blood escaped, with a twinge of pain. Three and a half years after the first bleeding cystitis began, and the patient's suffering gradually became severe. Fifteen months later, the patient, being exhausted by cystitis, allowed me to operate on him. This was done on May 5th, 1885 . A perineal exploring incision was made, and a suprapubic one ints the bladder. Throngh the upper incision a long frimbriated growth could be scen attached to a short sturap, near the opening of the left ureter. This was noosed by an écraseur passed through the
perineal incision. The patient's exhausted state made the recoperineal incision. my care, and I crushed a small calculus. Since that operation the patient has enjoyed good health, and there has been no return of vesical disorder.

When the tumour is sarcomatous or epithelial, and no part of it is papillomatous, blood does not escape, as a rule, in the copious manner that attends papilloma. The progress of the disease is more rapid, and there is usually pain in the hypogastrium or perineurn before bleeding commences; though cases aro recorded
was the leading symptom before the condition of the patient hecame urgent. Usually uleeration begins in a year or less; then voidance of elot is a daily occurrence, and the urine is purulent from cystitis. With epithelioma the patient is nearly always approacling old age; but sarcoma and papilloma, though affeetions of late middule life, are oceasionally met with in young adults.
The following ease is a good example of epithelioma of the bladder. I saw with Mr. Morrant Baker, in Oetoher, 1885, a gentleman, aged 61. The first attack of bleeding had occurred one year before and, stopping for a fortnight, had recurred, to again subside, leaving only a dull pain after micturition, which act took place about every three hours by day and night. When I saw him the bleeding had set in again, and was accompanied by great apasm and almost constant calls to make water. For a few daya his suffering was constant. The urine was dark crimson, mixed with clots that could be got rid of only with great difficulty. This attack lasted about a fortnight and then subsided, to return two weeks later in greater severity. The tumour, which is now before you, I remored through the perineum; Mr. Baker and Mr. Pollard being good enough to help me. Its structure is partly papilliform, but mainly epithelial. The fragments of tumour, as yon see, fill a six-ounce bottle. The patient was thoroughly reliered of his sufferings by the operation, and for a time did well; but six weeks later, the tumour began to grow again, and the patient sank under an attack of peritonitis of four days' duration.

Last summer we had in our wards a case of intermittent hematuria from bilharzia in a woman who had lived her whole life in Eagland, and therefore her history is of much interest to us. The bilharzia hematolia was discorered by Bilharz in 1851 in Cairo when, in conjunetion with Giriesinger, he was investigating the diseases of the Egyptians. It is an elongated bisexual entozoon. In its perfect phase, it inhabits the reins of the portal system, the hæmorrhoidal veins, and the veins of the bladder, nreter, and pelvis of the kidney. From these proper habitats, it may invade others. Griesinger found egg shells in the blood of the left ventricle, and Kartalis found the ora in the vena cava inferior, and Mackie in the lungs and liver. The entozoon most probably enters the human body in drinking water, for it is very prevalent in Egypt among the fellaheen who drink the Nile water unfiltered, and among the native population of South Afriea, while Europeans who are careful of the purity of their drinking water escape the disease. Dr. John Harley, who proved the Egyptian disease to be endemic in South Africa, suggested that the animal may enter by penetrating the skin as well as by the stomach to reach the uropoietic system.
The male has a flattened body, about half an inch long; he is thicker and shorter than the female, which he receives for purposes of copulation into a groove, or gynecophoric canal, and thus has a somewhat eylindrical appearance. The female is cylindrical and filiform, about three-quarters of an inch long. The mature entozoa, after impregnation, lie in the submucous tissue of the kidney, or other part to which they migrate, the bladder, transverse colon, descending colon, or rectum, in smooth-walled spaces formed from dilated blood-vessels. There the female lays the eggs, which gradually work their way to the mucous surface. The ova are about 1-170th of an inch long, almost oval, having an outer shell of hard mnterial ; the contents are granular. A spike is attached to the smaller end of the cell of those which escape in the urine; but the spike is at the larger end of those which come from the intestine. The granular contents of the unripened egg become, when mature, a definite cell within the outer case, and, according to Sir William Roberts, exlibit at that stage slowly expanding and oseillating movements. The eggs do not apparently hateli in the urine until that fluid is diluted with phain water; at least, that was so in our patient. In water the latching is rapid, and the embryo, more elongated than the orum, (" lask-shaped,", Sir W. Roberts), splits his shell and emerges covered with cilia. The cilia give him independent motion, so that he may be seen rolling on his long axis across the field of the mieroscope. What further derelopment tho embryo undergoes before he is ready to enter the human body to perfect his form is unknown. Probably he utilises some water mollure as his second lhost, and then, escaping as a cercaria, is swallowed by man in drinking. It is supposed that the spinea assist the ora in horing their way to the surface of the mucous membrane, under which they collect in numbers and cause inflamruatory swelling; so that the surface is marked by irregular projections of nodular or polyphoid form. Some of the raised patches are injected and
ecchymotic, others yellowish or covered with tougl mucus or bloody exudation which contains masses of ora. From time to time these masses soften, ulceratc, and blood eseapes in quantity with the cells so set free. In some cases the excrescences become so polypoid that they form real tumours, as may be seen at the College of Surgeons. Suel projections have been removerl by Dr. Mackie, of Alexandria, with the ecraseur from the wall of the rectum to the great relief of the patient. When the eggs mass tagether in the ureter, that duct is narrowed; urine may collect in the pelvis of the kidney, and thus hydronephrosis is produced. The congeries matted together by mucus often form the nuclei of stones in the bladder. In the intestine, dysentery with ulceration is produced. When an indefinite time has elapsed, the parasite dies and many patients recover after years of more or less constant suffering. In a considerable number nerertheless death follows by exhaustion through eystitis and perineal abscess with fistule or even rupture of the bladder. In the tracts of these fistule Mackie found the ova in great quantity. To these sequele: must be added the effects of septic disease and of great loss of blood. Similarly, fatal disease of the intestine or pelvic organs may follow the proliferation of the parasite in the portal or heemorrhoidal systems.
The symptoms are essentially chronic and vary according to the locality infested by the parasite. Respecting the length of time necessary for the maturation of the worm after its inception into the body, Sir W. Roberts noted that bloody urine appeared about four montha after the patient had drunk the water of the Nile in Egypt. The common symptoms are occasional attacks of lassitude, pains in the back or limbs or perineum, with internittent hematuria and pain at the end of micturition. Between the attacks the patient feels well and the urine may be free of sediment, though the cells still pass in the urine. In time there comes generally cystitis, and the urine is turbid during the intervals of hremorrhage, and micturition is frequent. In severe or fatal cases the course depends on the particular complication which sets in. The case which I am about to relate to you afforded ns an opportunity of witnessing many of the symptoms deseribed by those who have watched the disease in Egypt and elsewhere. The lassitude. the dull pain, the intermittent hæmorrhage, and perhsps the enlarged kidnes, were characteristic; while the presence of ova in the urine was pathognomonic of billarzia.
The following ease of bilharzia hæmatobia is, I beliere, the second observation which has been recorded as occurring in a person living wholly in this country. The other case is mentioned by Mr. Reginald Harrison. That case was, at the time Mr. Harrison wrote, under the care of Dr. Davidson in the Literpool Royal Infirmary. No details are given by Mr. Harrison. These are the notes of the case which occurred in this hospital.
Mary Ann A., aged 40, was admitted under the care of Dr. Graily IIewitt on February 18th, 1887. IIer general history was good. She was born in Kent, and had lived all her life at Erith or Gravesend. Her parents, brothers, sisters, and children ware all healthy. She liad seren children and one miscarriage. The last child was born in June, 1885 . The catamenia appeared at 16 , and remained regular till the present illness, which begau in Oetober, 1886. At that time the eatamenia were delayed for fourteen days. A free hremorrhage then took place cia the urethra. during micturition, in which the patient estimated that three pints of blood were lost in twelre hours. During her stay in hospital the catamenia resumed their necustomed regularity. This slight disturbance of the menses was the only premonitory symptom of sufficient gravity to attract the patient's attention before the bleeding began. Until January there was no copious bleeding. but small clots were frequently passed in the urine. The bleedings were preceded by chilliness and coldness of the extremities. In December there was low fever, which lasted several weeks. On January 7 th there was again bleeding to half a pint. and on the 8 th a smaller quantity was lost. After that date small clots were passed till the 27 th, when orer two pints of clotted blood came away. On February IIth bleeding began again, to be repeated on three subsequent occasions to a small amount. Before the hæmorrhages the urine was very scanty and high-coloured, but quite clear, and micturition was painful towards the end of the act, not afterwards. Each time that the bleeding ceased the urine was abundant and pale, and the act of passing it was no longer painful. When the blood was ejected in large quantity it settled at the bottom of the chamber-pot, leaving the supernatant urine clear and of the ordinary yellow colour. Micturition took place nsually every two hours by day and twice by night. When the patient

Was admitted the right kidney could be felt, but was not obviously enlarged. It ras not tender. The character of the blood was as already described. The quantity varied between 25 ounces and 72 ounces in the way already meutioned. On the subsidenco of the hemorrhage the quantity increased rapidly. The urine was always turbid, usually acid, sometimes neutral or alkaline. Albumen was always present, never less than one-twentieth part. The specific gravity varied greatly with the quantity, The deposit, during the first five weeks of the patient's stay in bespital, consisted of blood clot, blood discs, pus, and mucus. The peculiar cells of the ova of bilharzia were not discovered till later, After the patient's admission the bleeding was copious on February 24th and from March 1Ith to 15th, but the latter in part followed a dilatation and digital exploration of the urethra, which I performed at the request of Dr. Graily Hewitt on March 14th. At tha time of the examination the right kidney was much enlarged, very movable, and indistinctly lobulated. Its anterior border reached to a point midway between the umbilicus and the iliac crest. It was also painful when handled. In the bladder nothing was felt beyond a slight unerenness of the wall near the fundus on the right side. The urethra was liealthy. The womb was slightly retroverted.

On March 25th, the patient was transferred to my ward. During the following week the urine was carefully examined by Mr. $J$. Pearson. the dresser, being drawn from the bladder by catheter for this purpose. That gentleman detected in the deposit on March 31 st, besides blood dises, pus, and epithelium cells, a few oval cells of peculiar form to he presently described. On April 4th, the chilliness premonitory of free hæmorrhage appeared, but on this occasion the amount of blood lost was much less than had previously escaped. The cells were abundant. They were oral, about 1-1\%0th of an inoh leng, distinctly encapsuled, more pointed at one end than at the other, and from the sharper end a conical process or suikn projected. The cells were afterwards allowed to filter into plain water under the microscope, when the hatching of the embryo wis witnessed on several occasions by Mr. Pearson and by Mr. Blake, the house-surgeon, and by others at different times. Mr. Victor IIorsley, to whom the cells were shown in the first instance, at once pronounced them to be the ova of bilharzia. The ora were afterwards seen several times by mo. but I was not so fortunate as to observe the exit of the embryo. They were precisely the same as the eggs preserved in modoubted sperimens of this disease. The cells were tested in various ways. None were preserved, as all the media which were tried destroyed the capsule of the ovum, and the cells did not stain with colouring matters. Before specimens could beput up permanently the discharge of hlood and ora ceased. On April 30th the patient had lost all pain, and the kidney did not alter perceptibly. She remained this till June l4th, when her general condition being tolerably good, she left for home at Erith, and was lost sight of. In October her husband informed me that the woman had died in August after an illness of three days' duration, accompanied by Coninnt pain in the belly.
most unluchy. that we ing therest which attaches to the case, it is nent specimen ol ene the ova to show. That this is so is net the fault of Mr. Blake or orn to show. That this is so is net the
secure good exson, who spared no pains to secure goed examples of the orimin in ar 11 respects with the deserip-
These cells and embryos agreed in a These cells and embryos agreed in à 11 respects with the deserip-
tions given hy those who have observecd the parasite in Egypt. Especially interesting was it to observe of the ova, which could retain their vitality for an indeflnite timims in the urine withont undergoing furthor change, pass through the brehatching process in a few seconds when transferred to pure water ${ }^{\text {c }}$. The moment the embryo escaped from the shell it wriggled its t , way to any solid matter in its neighbourhood, and there remained the.fuiet nuless some current floated it off again. So far as our obsel at vations pnabled us to follow them, the embryos remained ciliated, brilay, elongated celts with somewhat granular contents.
Of hleeding from the prostate perhaps
Of hleeding from the prostate perhaps the most be occurs in old age, where the organ is large and the becommon form Under the strain of sudden engorgement the prostate reins awells, the circulation through the veins is obstructed, one or moreoc burst, and the bladder quickly fills with blood. In these cases thou burst, and is very abindant, so that for a time the contents of that'e bladder are much more blood than nrine. If the bladder be kepdet at rest by freo drainage, the concestion subsides and the bleedin'stg stops, pass water which ention of the bladder and the constant to calls to
termination to the case. If the bleeding stops, the urine becomes brown from disintegration of the clot, and the bladder is gradually cleared of blood. Sometimes the homerrhage is the result of injury to the prostate by attempts to pass instruments to rclieve retention, in which case the condition of the patient is aggravated. Corroborative of the prostatic origin of the hamerrhage would be the enlarged and tender state of the organ felt per rectum, and probably a history of long-standing impediment to micturition or attacks of retention.

Tubercular ulceration of the prostate is a cause of bleeding in young men. It shows itself in the form of clots washed out in the first part of the stream. In such cases there is cystitis, and the prostate is often irregular, hard, and tender to the touch. In other particulars the affection is not distinguishable from tubercle of the bladder, with which indeed it is usually associated.

Masturbation in youths causes prostatic hematuria. The uriue is voided at short intervals, is coffee-coloured or even dark brown for some days, and there is aching in the perineum, with some lassitude. The presence of blood and a slight increase in the amount of mucus form the only changes of the urine from the healthy standard. The attack passes off in a few days, and the patient is well till a repetition of the unnatural practice brings a return of the hæmorrbage.
The prostate may be implicated with malignant growths extendiug from the rectum, and their presence may give rise to moderate hæmaturia.
Gonorrhœa also causes prostatitis, in which slight bleeding is common,
Malarial poison as a cause of prostate bleeding came under my notice lately. As you know, it frequently happens that any operation or shock will rekindle the activity of malarial poison in persons whe have been attacked by it. This patient had had stricture for more than twenty years; and fourteen years before he consulted me he had suffered from a bad attack of tropical fever, which was followed by bloody urine. Again, six years afterwards, another attack of fever was attended by hamaturia. The stricture was placed at two ineles from the meatus; that is, of course, in the penile portion of the urethra. But there was no contraction, except muscular spasm, elserfhere. The stricture preved rebellions to simple dilatation, and it was cut internally: The first micturition passed off well; but twenty-three hours after the operation, sense of weight came in the rectum, followed by much spasm and difficulty in passing urine. There was also a slight chilliuess, and the temperature rose to $99.8^{\circ} \mathrm{F}$. Soon afterwards, as the patient himself expected, from experience of former attacks, he voided dark, reddish-brown urine with black clots. In forty-eight hours the bleeding ceased, and the temperature feli to $98^{\circ}$. Two days passed without bleeding. Then, at the same bour as before, a similar series of sensations were experienced at the neck of the bladder, and the urine again became charged mith dark blood and clot. Quinine was then taken frecly; the bleeding stopped, and did not return. During the second attack, the temperature ranged between $97^{\circ}$ and $99^{\circ}$ for four days; after that it remained steadily at $98^{\circ}$. That the blood came from the prostate was shown by the fact that there was no blood oozing from the urethra in the intervals of micturition. The dark brown and black colour of the urine, with black clot expelled at the end of the flow, indicated that the blood lad escaped into the bladder before it was voided from the body. It must be recollected, also, that the incision was made several inches array from the prostate.
When the uretbra is the locality of the bleeding, the blood is often moulded into long worm-like clots which flont in the cham-ber-pot. Besides the form of the clot, the appearance of blood between the acts of micturition and also with the first drops of urine is characteristic of bleeding from the urethra.
Laceration of the urethra by the passage of a sound may cause rery dangerous hemorrlage. Some years ago 1 had under my
care in this hospital a man who was in the habit of treating his stricture with his wife's linitting needles, which he limself bent te a suitable curve. Ilis ingenuity cost him dear. On one occasion, when using a fine needle, he pushed it through the wall of the urethra and wounded the erectile tissue behind the stricture. This led to free hamorrhage; and the blood, being penned back by the stricture, passed into the bladder, which it distended till that riseus reached to the umbilicus, and, for hardness, resembled the gravid uterus. The patient's sufferings were cxtreme; but, by diriding the stricture through the perineum, the coagula were quickly rashed from the bladder and the patient recorered.

Rupture of the erectilc tissue can in another way let loose dangerous bleeding, some yeara sgo there was a case in this hospital of a boy aged 19, a weakly lad, who had during excessive copulstion ruptured some of the vessels of the erectile tissue about the bulb, from which blood flowed so freely that the patient became blanched before the hæmorrhage was arrested. Such cases of copious hemorrhage are rare, but small bleedings are not infreqnent from this causc.
Injuries of very slight amonnt may set up small bleedings : for example, the passage of a calculus, or of a sound even when very lightly handled. Also rupture of the urethra by a fall on the perineum is often denoted by a few drops of blood oozing from the urethra before the act of micturition is attempted. To make the diagnosis precise, reference would be taken to the history, to the painful bruising and swelling of the perineum, to the sudden pain when attempt is made to pass urine, followed by retention, and succeeding to this failure would be the signs of extravasation. Finally, it would often be impossible to pass a catheter to the hladder.
Sloughing sores or the rupture of the erectile structure during chordee produce hromorrhage from the urethra, though the hremorrhage does not take the form of bloody urine.
In females the small vascular caruncles of the urethra may bleed freely if torn by the stresm of urine as it escapesif from the meatus urinarius.
The following list of writings has served to supply the rery brief account of bilharzia given above: Bilharz, Zeitschrift fïr Wissenschaftl.Zool., 1851 ; Griesenger, Archiv der Heilkunde. 1854 ; Dictionnaire de Méd. et de Chirurg. prat., par Jaccoud, 1870, art. Distoma ; Sonsino, Archives Gen. de Med., Juin, 1876,p. 650 ; Cobbold; Parasites of Man and Animals, 1879; slso Quain's Dictionary of Medicine, 1882, p. 107 : Mackie, Bryt. Med. Journ., Oct. 7th, 188i; J. Harley, Med.-Chir. Trans, vols. x|rii, lii, liv: Zancarol, Path. Trans., xxxiii, Jan. 3rd, 1882; Wortabet, Edin. Med. Journ., 1879-1880; Sir W: Roberts, Urinary Dis., 4th edit., 1885, p. 648; Reginald Harrison, Surg‥Dis. of the Urin. Organs, 1887, p. 249. This author gives antexcellent summary of the writings of others, and also adds uevi matter gathered from communications and specimenis sent to him 'by' Dr. Mackie for exhilition.' One specimen; shown to the Pathological Society in 1886 ( Path. Trans., 1887), is now in the Museum of St. Bartholomew's Hospital: Another, shown to the same Society in 1888 by Mr. Eve, is ifi the Museum of the Royal College of Surgeons.

# ABSTRACT OF CLINICAL LECTURES 

CARCINOMAS OF THE BREAST WHICH REQUIRE AN OPERATION.

By N. C.' MACNAMARA; F.R.C.S.<br>Surgeon to the Westminster Hospltal.

## Lhetote II

In my last lecture I eudesvoured to define the class' of patients suffering'from carcinoma who were unlikely to benefit by an operation for excision of the breast. Excluding cases of rapidly growing csncers, and those tumours which develop late in life and grow rery slowly, as slso patients otherwise unft to undergo'an operation, we have left hy far the majority of instances of carcinoma of the mamme. Of this majority it may be said, if the affected gland were excised in the early stages of the disease that one-fourth of the patients so treated would remain free of cancer for the rest of their lives, and the other three-fourths would be saved from much' suffering, and in not in fer instances, life would be considerably prolonged by means of the operation. If this be true, evidently it is' important to recognise cancer of the breast in its enriy stages; and althotigh therc sre no definite symptoms which indicate the commericement of the disease, we can form a sufficiently accurate opinion as to its riature to enable: its to follow without hesitation the correct line of treatment We know little about the etiology of cancer, but it arises, in persons predisposed to the disease, in continued, or in repeated, irtitation of glandular epithelium. "It is often difficult, in speoimens under the microscope, to say where simple chronic irritation ends and car-
cinoma begins; clinically, the difficulty of distinguishing between the two conditions in the early stages of cancer is still greater: but in the mammel the. products of irritation, unless they suppurate, usually pass away in the course of a few months, wereas carcinoma may be said never to disappear. If, therefore; a, patient, of from 30 to 50 years of age, consults us on account of an extremely hardalmost painless nodule in one of her bressts, which msy be about the size of a walnut; which has been noticed for six months or upwards, the growth haring a roundish form, and being inseparsbly connected with the gland, it is probable we have to deal with a carcinoma. In such a case notime should be lost in making:an explorstory incision into the tumour, snd if it offers a resistance like that of an unripe pear when it is cut into, and has no defined outline separating it from the surrounding tissues, the entire gland should at once he excised: I would urge you to study what Sir B. Brodie has to say on this subject in the lecture to which 1 hare so often referred. As an instance in point, I have made the following abstract from the notes of a case reported for me by my dresser, MIr. Sbipley Part.
E. McC., aged 35, was admitted into hospital on September 26 th, 1886. She is the mother of five children; ber family history and general heslth hare been good. Some four months before coming into hospital she bad a considerable smount of pain in the left breast, and subsequently she noticed a lump towards the outer part of the gland; this nodule is now sbout the size of a walnut and of stony hardness; it is imbedded in the gland, and causes her but little pain unless it is roughly handled. The skin and axillary glsnds are unaffected; the nipple is retrscted. On September 30th an exploratory incision having been made into the growth it was found necessary to excise the gland. On the following day the dressings were changed, and again on Novemher 3rd and November 7th; the, wound having then healed the patient left the hospital, and has since remained in perfect health.
Upon microscopic examination the growth was found, in places, to consist of enlarged tubes and acini crowded with cells, and in the surrounding connective tissue alveolar groups of epithelial cells were abundant. In other sections the tumour showed evidence of induration.

I think there can be little doubt that this growth had originated in lobular inflammation, and that carcinomatous changes had commenced in the weakened tissue, which, if left to itself, wonld have spresd to surrounding structures and killed the pstient probably within three years. It is equally certain, supposing this nodule to have been cancer, that the only way of arerting untold suffering to the patient, and a fatal termination of the disease, was to have excised the tumour together with the gland in which it had grown lefore the surrounding tissues were infected. E. McC. doubtless progressed favourably after the operation; the Tound healed in ten days, and the dressings only required changing on three occasions, but in eight out of ten such cases similar resuits may be secured by means of dry dressings and free drailage.

- But if carcinomata of the breast can be excised with solittle risk to life and so little pain in their early stages, how is it wo meet with so many cancers in their pronounced form? It seemis to me Sir Charles Bell, in the passage quoted in my last lecture, has answered this question. He states it is because excision of the breast affected with carcinoma is not resorted to sufficiently early in the progress of the disense that we meet with so many incurable cases.u Sir Charles further observes that most patients suffering from cancer of the breast apply to their medical attendants in the first instance; these gentlemen are consequently largely resonsible for the want of efficient treatment when alone there is a hope of eradicating the disease. Some practitioners do not believe that cancer is curable in any of its stages: I am convinced this is a mistake. Others, if cousulted by a patient with a suethous nodule in the breast, hope for the best, but canuot bring so months slip away, and the chance of domg any permanent and is cone. I can safely sav. 1 havence of doing any permanent good in my own practice, nor have I heard of a surgeon having to regre making an exploratory incision into a suspicions tumonir of the breast, but I have repeatedlyseen patients and practitioners sho have had good reason to feel sorrow for not having resorted to this practice. No:doubt it would be entisfactory if the symptoms presented by persons suffering from carcinoms enabled us clearly to determine the nature of the tumonr from its commencement without incising the growth, but in not a fow doubtful cases
this is the only way to arrive at an accurate opinion on the subject.
lt may be a nodule in the breast is caused by sarcoma; if 80, the sooner it is removed the better; it may be cystic, but tumours of this description are seldom met with unless in conjunction with barcomas or in carcinomas. Should the nodule have formed before the patient had reached her thirtieth year of age, it is not likely to be cancer, more probably it is an adeno-fibroma. These tumours are usually single, peripheral, and more mobile in the gland than carcinomas; but if in doubt we must make an incision into the growth. Should nothing more be necessary the wound may be closed, it will heal in the course of a week or ten days; on the other hand, if we wait and watch the suspected tumour until it is so far developed as to render the diagnosis certain, supposing it to be cancer, we ohall have waited too long, the time will have passed when we might possibly have saved the patient from one of the most terrible deaths to which a human being can be aubjected. It is well to bear in mind the fact, that cancer occurring in patients from 30 to 50 years of age, form by far the greater number of tumours of the breast we meet with in practice, and that every one of them has had a beginning.

In conclusion, we can safely answer the question referred to at the commencement of my last lecture in the affirmative; modern improvements in surgery enable us to modify the rules laid down fifty years ago as to the desirability of excising carcinomata of the breast, because the risk to life from such an operation has been lessened, and, further, the system of dressing wounds has much diminished the pain of the after-treatment. But what I wish particularly to impress on those of you who intend to follow general practice, is not to procrastinate or shirk your responsibility when consulted by a patient suffering from a persistent hard nodule in the breast. It may be, and indeed is, often necessary to clear up any uncertainty that exists in your minds as to the nature of the growth by means of the knife; should the nodule then seem to be a carcinoma excise the entire gland. You may thus save some of your patients from the further development of the disease, and you will certainly lessen their sufferings and prolong life.

> ON BONE-SETTING.'

## By W. J. PENNY, F.R.C.S.,

Assistant-Surgeon to the Bristol General Hospital; Demonstrator of Anatomy to the Bristol Medical School.

Mr. President and Gentlemen,-I am obliged to you for the compliment you have paid me, in asking me to open the discusaion this evening. The aubject aelected is more complicated than appears at first sight. The time at our disposal will not allow me to enter into it as fully as I should wish, but I will endeavour to bring its principal features before you as clearly and briefly as possible.

Bone-setting commonly so-called, means not a setting of fractured bones, but the term has arisen from the crroneous view imparted by quacks to the general public, that in many cases of distorted and useless joints a bone is out and requires setting in place again. This setting consists of some forcible movement, during which a crack is usually elicited. This crack is supposed to be caused by the bone slipping back into its place. Among affections successfully treated in this way are cases of fibrous adhesions within and around the joint ligaments and synovial membranes; cases of true complete dislocation ; cases of partial dislocation or subluxation; cases of adhesion of tendons to each other, or to ligaments or other atructures; disarrangement of ligaments; displacement of tendons; hysterical affections; cases of muscular apasm; ganglia which have been ruptured.

In bome cases, bodies forcign to the part, such as new growths, detached pieces of cartilage, displaced cartilages, thickened synovial fringes, organised blood-clot, and numerous otbers, have become nipped between the bones forming a joint, and have thus interfered with its functions.

Not infrequently infamed or strumous joints, or even malig. nant enlargements, have been treated in the same manner; I need bardly tell you with what results. I have seen three cases of amputation from improper use of these forcible movemento.

Bone-setting has been little studicd by the legitimate members

[^74]of our profession, and as cases amenable to treatment are common, quacka and charlatans have bad an extensive field for their operations. Many of these quacks, especially one lately deceased, have acquired considerable skill in the treatment of these cases, and no small reputation from the good results they have obtained. The majority, however, have little knowledge of the subject, and consequently have numerous failures as well as ouccesses. The public do not fail to laud the cures obtained by these men, or women, especially when properly qualified surgeons have previously failed to cure the complaint; and they seem rather pleased to have the chance of "having a slap" at their regular attendant. On the other hand, if a bad result ensues, they are ashamed to confess their lack of faith in their own surgeon, and dislike having the laugh turned against themselres; consequently we hear little of the bad results. Many of these quacks do not even know the anatomy of the parts affected, let alone the pathology; their knowledge as a rule amounts to this-" Here is a stiff joint, it must be worked." They know that the majority of cases are improved, a small proportionare made worse. If a bad result ensues, they frequently lay the blame on the previous attendant, by saying to the patient-"You should have consulted me before, and you would not have come to this." The more brazen their assertions, the more easily are they swallowed by the majority of the British public, who apparently like to be gulled.

Now, gentlemen, I hold it is our duty to beat these quacks on their own ground. The public are perfectly within their right to get cured wherever they can. They do not care, and why should they, whether the cure is wrought by a Member of the College of Surgeons, or by the village blacksmith, with a strong arm and a taste for backing his muscular powers against the stiffness of the patient's joint. They want relief from their ailments, and do not consider they have any special call to maintain Members of the College of Surgeons, if they cannot cure them. It is, however, our duty to expose these ignorant pretenders on all occasions; they do not spare our reputations, we need not consider theirs. It does not do simply to abuse them as impostors; patients, not unnaturally, judge by results; we must recognise the fact that they often cure cases in which we hare failed. It appears to me that very often we treat the cases just long enough to make them fit for the bone-setter, and then, sometimes from lack of patience on the part of the sufferer, sometimes from lack of enterprise on the part of the surgeon, they drift into the hands of these quacks and get cured. The only way in which we can hope to compete successfully with these men is by a careful study of the anatemical, clinical, and pathological conditions associated with these affections. Having thus gained a sounder knowledge than they, and not fearing to act on it, our successes will prove to our patients that properly qualified scientific men are the more trustworthy, more likely to effect a cure and less likely to aggravato the complaint. I will take as my text the following anecdote.
My father, many years ago, had a raluable horse, which fell and cut one knee badly. The joint was opened. For many weeks it was under the care of a vetcrinary surgeon with a good reputation. After a time the joint, which had been enormously swollen and discharged pus freely, subsided, and the wound healed. The horse had a stiff knee. "Turn it out to grass for three montlis," said the vet.; this was donc. At the end of that time there was only a slight blemish on the knee, it was the same size as the other, but the horse was perfectly useless for driving, as the knee whe still stiff and the horse extremely lame. The vet. then gare up the case in despair, and my father, in disgust, sold the animal for a very small sum. Lo and behold within a day or two the new owner getting impatient at the horse's slow progress, gave it a smart cut with a whip; the animal, a well-bred spirited beast, plunged forward, and from that minute lost its lameness, and went as well as ever. I hare seen it many times since, and it has never been lame. A great many lessons can be learnt from that case. A few fibrinous adhesions must have existed, probably within the joint. The pain caused by them prevented the horse, though spirited, from bending the knee; the sudden plunge caused by the whip ruptured them, and the horse was cured. They may have been no larger than threads of cotton. The structures round and in the joint were free from inflammation, and the constitution was sound; a typical example of the cases suitable for bone-setting. My father, a man of common sense, naturally wished to know why the veterinary could not have foreseen this; he now has less faith in him than formerly, and I almost fancy that, in spite of the empirical treatment of the other man, he would prefer his opinion in a similar case, and the result justifies this.
that the capsule either folds itself in rarious directions like a purse, according to the movements of the joint, or it is drawn out of the way by the muscles inserted around the articulation. Let me refer to the shoulder-joint. The capsular ligament is attached round the margin of the glenoid cavity, and to the anatomical neck of the humerus. It is very lax, so much so, that when all the muscles are removed, the head of the humerus can be drawn about an inch away from the scapula, withont laceration of the capsule. All the muscles inserted into the tuberosities send a few fibres into the capsule; when either of these muscles act, the capsular membrane, instead of folding anyhow, is drawn out of the way before the bone (Fig. I). If it folded anyhow, it might possibly get nipped between the bones, or it might get creased the wrong way, and so impair movement. This nipping is especially likely to happen at the back of the elbow, betreen the olecranon process and its fossa. The same rule holds good, I believe, in all the joints of the body (Fig. 2). I have examined most of them, and find it to be so. The importance of the fact is this. If the joint be moved in certain directions by its muscles, the capsule is drawn out of the way, or folds in auch a manner that the mo ments
 capsule is not drawn out of the way, and does not necessari.s fold


Fis. 3.
Flbow-joint extendeat : frregular fulit of pesterier ligament.
in the right direction; it ofteu does so, but often not. If it is at all sticky from fibrinous effusion, or thickened from the same cause, the probability is that the folding would be irregular, and the joint-movements correspondingly limited and painful, and as long as one worked it passirely, this would continue. I have often noticed myself, after a fall or a blow, a specics of discomfort in a joint, which has only passed off after working it round several times. This appears to me to be due to a false folding of the ligament. When the muscles work the joint, the ligament is unfolded and drawn into its normal position.
lt' is a useful, practical plau, in putting up an injury, 'to tell the patient to. more the joint himself; by attempting this helwould not ionly relax the muscles which perform.., the antagonistic action, as I learnt from a valued teacher, but, if he wero. unable to exert power enough to do as lie was told, he might still hare enengh to draw the capsule out of the way and prevent an improper folding. These apparently trivial details will be found on closo observation to be of real value. The majority of theso adhesions take place as the result of traumatism, or of some inflammatory affection of the joint ; singularly enough not, so often after dislocations as after, spraina. In dislocations thero:is a rent in: the: capsule, and this, makes a drainage opening' through, which the effused fluids escape. : As thes result of the injury blood or lymph gets effused; this distends the capsule. In whatever position the limb is put up, this effusion would settle to the loosesto or most dependent part. Take the shoulder again. The arm:falls naturally to the side, and is bandaged by the surgeon in that position. (This is not always prudeut.) Is a conaequence the lower part of the capaule would be loose; into this the fluid gravitates and distends it. As it subsequently becomes, ahsorbed the surfaces of the pouch approximate : each other, and, if left at rest, become bound together, either by direct fusion of their surfaces or by the intervention of organised bands of lymph.

Adhesions are frequently seen without evidence of change in the membrane or cartilage close to them. We all know, as practical surgeons, that in shoulder ankylosis the greatest difficulty is experienced in raising the arm. I have dissected one of these joints in which ankylosis of some considerable standing existed. After dividing all the muscles which depresa the arm, I found myself unable to raise the limb, and on careful examination found this was caused by a fusion of the contiguous surfaces of the lower part of the capsular ligament, with its contained synovial sac. On separating these the arm was easily raised; the rest of the joint was sound.
This fold is sometimes an" inch long, and may be even more than that, so you can easily imagine that in many cases great force must be exerted to tear it asunder. The more recent the adhesion, the more capable it is of being stretched; as it increases in age, like all new fibrous tissue, it becomes tougher, and also has a tendency to contract. Great force is then required to rupture it.
Ihad a case about two montha ago, in which, though the patient was under the influence of chloroform, I could hardly rupture the adhesion. By exerting all my force-I am endowed with more than the average amount-the adhesion ruptured with a loud report. One of our resident officers who was giving the anæsthetic and the atudents thought the bone was fractured this, however, was not the case. Very little inflammatory dis turbance followed, and the movements are now almost normal.

Adhesions may alsu take place ollside the capsule; these are usually the result of rhelmatic affections, or are caused by inflummation which has spread from without. The tendens round a joint may also become matted together or fused with the capsule or other parts, and thus impair function. I will tell you another anecdote.

Some years ago 1 possessed a hunter that had seen his best days, what is commonly called "an old screw"-scewed about the tendons of the forelegs. One day he took a big fence with me, just flinched for a minute as he pitched, but finished the day's work without a sign of lameness. The next day the leg was swollen, and he was evidently suffering from a strain of a tendon. IHe was treated carefully with cold water bandagea until the swelling subsided, and was then prescribed gentle exercise. IIe simply hobbled along. Then I tried riding him, and once or twice in a half-hearted way attempted to trot or canter, thinkirg it might he stiffness which would wear off, though I did not quite understand the pathology. The result was painful to both the horse and myself. After some weeks I sold him, as I thought, permanently lame. In a very short time the horse was to be seen careering over the country without a sign of lameness. On inquiring the treatment, it turned out to be the whip again. I was somewhat annoyed not to have tried snch a simple remedy more effectually ; "but I daresay if one had seen the treat-
ment, one would have called the man a brute ment, one would have called the man a brute, though it was a cruel kindness in the long run.
A ahnrt time afterwards I had the opportunity of dissecting a horue's leg which had a precisely similar history: Between the fexor tendons were some long, string-like adhesions, "evidently
stretched long enough not to interfere with movement. At a part lower down was a small patch of soft adhesions, easily separated, and then the tendons worked freely on each other. It seemod to me probable that when the horse started every day he rent lame until these soft adhesions gave way, and then the lameness disappeared. This correaponded with the actual, history, the lameness was always more marked after rest, but the whip being applied more, freely counteracted this. It is the strain on the adbesion and the loss of mobility that cause the lameness, not the friction of the roughened surfaces. Cases similar to this are not uncommon in man. I had the opportunity of vivisecting one auch.
The patient had an incised Wound just above the wrist. As the result, the uluar nerve and flexor carpi tulnaris tendon became bound down to the deeper parta by fibrous tissue. Excruciating pain resulted on any movement of the wrist, and even without this. I had on two occasions to separate the nerve and tendon from the deeper parts, and finally the nerye remained detached and the pain was cured. The ; tendon still has a tendency to conltract adhesions. The man works, but aays he always starts atiff, but that soon wears off. "It is better on Saturday night than Monday morning." The Sunday's rest alwaya makea the part more stiff and painful. Probably, if he.rested long enough, the tendon would become fixed again and the wrist movement impaired. The following case is also very instructire.
A. F., aged 26 , came to me lastr winter, complaining of pain, tenderness, and some swelling below and to the inner side of the left knee.; Six weeks before, while playing footbally he kiclsed sideways at the ball, with the lcft leg, at the same thme one of his opponeuts also kicked at it ; their legs crossed, and F. felt a ahatp pain in the inner side of the knee. The part arrelled, he lay in bed for a fortnight, and was then allowed to get about. After another week or ten days he could walk and run all right, and then played football again. He found that he could not "folck a ball" out of the scrimmage with his left leg (that is, hook the ball out sidcways with his foot), any atternpt to do ao causing great pain. After a week or two he had a bad fall with a man on his back, and new comes the interesting part. He felt a sharp pain for a minute or two, and, when that had passed off, the old pain had disappeared, and he thought he was well. The part swelled in the evening, and, when I saw him two days afterwards, there was slight synovitis, and a tender oedematous apot below and to the inner aide of the head of the tibia-the original seat of pain. It seemed to me that he had strained the tendons at that spot wecks before; as the result, adhesions formed; these were broken by the fall, and fresh effusion appeared. By gentle exercise and friction he soon recovered complete use of the leg.
Now we should consider the history and symptoms of these cases; a knowledge of the anatomy or pathology is of no use unless we can recognise their exterual indications. The majority have a history of this sort. They have had a fall, or a blow, or a strain of a joint. If the injury is very serere, there is probably immediate and continuous loss of function. If Jess severe, the loss of movement may come on gradually and get worse and worse until it is completely abolished. Or, again, there may bo a rheumatic, strumous, or specific diathesis, and a slight injury or even exposure to cold may bring on a similar state of things.
In the early stages rest and soothing treatment should be adopted; but if the case goes on to ankylosis, "bone-sctting may be required. I will describe a case.
11. N., aged 45, a strong, healthy woman, with no inherited or acquired predisposition to disease, sprained her right ankle ahout four months before I saw her. It swelled very much. The medical man who saw the case very properly placed it in splints, and at the end of six weeks left them.oft, and recommended very careful and gentle exercise, and friction with some liniment. After walking or hobbling, the ankle swelled and became more painful, and walking itself caused her pain. The splinta were then reapplied for fourteen days, when she was again to try exercise ; the same pain and swellingensued. Disease of the joirt was then hinted 'at, and," as is usual, all the patient's friends passed their opinion on her, case, that which found most farour being the idea that a "bone was out.". This opinion she suggested to me at the commencement of our interview. The ankle was slightly thickened, but distinctly white and cold; all the bones were in their normal position, pressure caused no pain, stamping caused ro pain; the foot was fixed at a right angle to the leg. On careful and very gentle examination, slight morement conld
be detected, but muscular spasm and pain ensued if the movements
were done at all roughly, and the joint then appeared more fixed, in fact, absolutely so. The diagnosis was clear-fibrous adhesions within or around the joint.
I should also call attention to the fact that the knee of the other leg was distended with fluid, which had appeared subsequent to her attempts at locomotion, evidently due to the increased strain thrown on it by her " dat and go one "style.
Distracting her attention, I gave a sudden wrench to the ankle; a loud report ensued. In a few minutes, after the pain had passed off, the patient could move the joint freely quite two-thirds of its normal movement, and she walked across the room comparatively well. She then said: " 1 thought the bone was out;" sbe was firmly persuaded she had heard it go in. It took me five minutes' hard talking to convince her that such was not the case, and then she was only convinced to the extent the gentler sex are "against their will." I did not wonder then that bone-setters often sared themselves the trouble of explaining, but let the patients think as they pleased. This case went on rapidly to complete recovery as far as the ankle was concerned. She has had occasion to consult me again for her kuee, which has remained weak.
This case had been treated quite correctly in the early stages, but, as in the case of my father's horse, the whip had not been applied, and so the lameness continued.
There is another side to this question. W. S., aged 24 a healthy countryman, sprained his ankle ladly. He saw a medical man, who told him to bandage it. He only lay up for four days, and then walked ahout. As the result the ankle became worse and worse, and when I saw him about seren months after the accident, there was suppuration and disorganisation of the joint, and amputation had to be resorted to. Successful treatment of these cases lies midway hetween the two, first a period of rest, and then exercise. The great secret of success lies in judging the exact period at which the one should be changed for the other. No hard-and-fast rule can be established.
In nearly all cases of fibrous ankylosis we find muscular spasm. This alone, in the absence of inflammatory symptoms, or those of new growthe or constitutional disease, is sufficient indication for "bone-setting." Many surgeons think it impossible to mistake these affections for each other; there is little danger of doing so when the inflammation or the new growth is well marked, but in their earlier and less acute stages the diagnosis is far from easy. As a rule, If find that the more spasm the slighter are the adhesions.
When the ankylosis is bony, the disease must have existed for a long time, and, the joint being completely fixed, spasmodic action of the muscles is not required to cleck the movements; they are abolished.' The muscles, therefore, waste and undergo fatty degeneration. Pain is a most misleading symptom. The most hysterical, painful case 1 ever had to deal with was cured by one slight wrench, without even synovitis following it. There was a distinct crack, and the patient immediately moved the joint freely and painlessly, and was extremely grateful. Patients suffering from hysteria pure and simple are not so. In the case of one small adhesion the strain is concentrated on one spot, and consequently ia more severely felt. If youl pinch a small piece of skin between your finger and thumb nails, acute pain is felt. Piucl a large piece with three times the force, and not half the pain is experienced. Again, pull a single hair of your head, and notice the difference between the pain and that caused by pulling a number together. So it is with the adhesion.
On making an examination of a knec-joint in the dissectingroom at Bristol, I found one small tough adhesion, about the size of a fine piece of twine, between the internal condyle and the back of the tibial spine. In this case the adhesion was stretched long enough not to interfere with movement. My patient, a nerrous, sensitive woman, had not the pluck to do so, and consequently suffered severely until the adhesion was ruptured.

Now comes the question, Where is the pain felt? Hilton, in his interesting book on Rest and Pain, states that the nerves which supply a joint are branches of those which supply the muscles acting on that joint, and also the skin over it. I will give you a case in point. A man fell over a plank on to his shoulder, bruising the upper part of the joint. Great pain was felt, but only on his attempts to abduct the arm. On passively moving the limb in that direction a soft crepitus could be detected. This movement was also painful. The interesting point is, the pain was not referred to the joint, but to the scapula and side of the neck-the course of the suprascapular nerre. This nerve supplies the upper part of the joint and the supraspinatus muscle which abducts
the limb. Pain was also felt on deep pressure over the head of the bone. Sometimes the pain is experienced immediately over the affected apot, either case being explained by Hilton's theory. I will now refer briefly to some of the more frequent and troublesome complications.

All cases of fibrous ankylosis cannot be cured by one wrench; it is exceptional to find them so simple. When one coes get a case it is an easy way of scoring a brilliant result. Cases vary much ; each must be judged on its own merits. Those most amenable to treatment are due to simple traumatisms in healthy subjects. These recover with marvellous rapidity, and, singular at first sight to relate, it often happens that the longer the ankylosis bas existed, the simpler is the cure. The first wrench may require greater force, but as a rule there ia less subsequent disturbance in tbe joint. In these cases the joint, at least that part bet ween the adhesions, has had time to recover ita tone, and the adhesions being simple fibrous cords, are just snapped across, and the joint is free. Not infrequently, however, the strain on the adhesions has produced a chronic synoritis, which obscures the primary cause.
Rheumatism is one of the most troublesome complications; every change of weather produces evidence of the constitutional affection in the weakened part, and this of itself contra-indicates movement. I have a troublesome case under my care at the present time. A young man, aged 24, cansulted me in Februsry of this year for stiffness of the right hip. Ten years ago this hip was crushed by a waggon whet 1 , and he is said to have sustained a fracture in that region. He completely recovered from that accident, and has won athletic races since. About seven years ago, he went to Australia. In March of last year he liad a bad attack of rbeumatic fever, which lasted seven weeks. Ihe was in the bush, and was only seen once by a doctor. After this he found his right hip stiff; he was unable to bend it, ride on horseback, or follow his occupation with any comfort. He went into hospital in Sydney in August. While there he was treated by extension and blisters to the part. The extension caused him great pain. While in hospital he contracted typhoid fever. He left on December 3rd and returned to England. When I saw him in Febraary there was complete loss of function of the hip-joint. Marked lordosis occurred on any attempt to straighten the leg ; and very marked muscular spasm existed, especially of the adductor longus. The loss of movement was so complete, that had it not been for the history and the muscular spasm, 1 should have considered the ankylosis bony. The right buttock and thigh were atrophied, the latter measuring two inches less in circumference than its fellow. If the patient put both heels to the ground, he measured two inches less in height than when standing on the left leg only. The thigh was fixed at an angle of $140^{\circ}$ with the body. There was a very marked rhenmatic history in the famils, consequently my prognosis was guardt d.
On producing complete muscular relaxation by chloroform, the very slightest pressure enabled me to fully extend the leg, and move it freely in all directions. Some soft adhesions were felt to give way in the process. As the adhesions were so easily sepa-
rated I I hoped he wonld soon regain the full rated l hoped he would soon regain the full use of the limb, hut the rheumatict tendency has retarded recovery. The weather has
been exceptionally severe, and at every fresh change both patient patient and his father have had twinges of rheumatism. The fact patient under suffering at the same time has made the son more patter gets pain only in the weak hip, very rarely in the knee of
and the same leg. Whenever the rheumatism appears, muscularspasm ensues, and on attempting passive morements the lumbar vertebree arch backwards and forwards instead of the normal novement at the hip-ioint. By careful treatment the patient, in spite up and dra wbacks, is now able to sit comfortably in a saddle, rise with ease and to an imaginary trot. throw his leg across the saddle gain almost if not complete use of the joint.
Struma and syphilis are complications requiring great care. If the constitution is really bad, the less one meddles with the case the hetter. Slight attempts only at movement may be made under chloroform. Many cases of so-called strumous joint-disease depend on a traumatiem occurring in a subject debilitated by bad sibly and improper hygienic surroundings, though they may posgeneral healtherited a good constitution, In such cases the improved, moremid first be attenced to, The same that has been good when syphilis is the complication.

Now comes the question of treatment. We cannot do better than refer to my text. The horse had a suppurating knee-joint ; it was turned out to grass for three months; before the whip was applied the knee was the same size as the other, and free from inflammation.
The principal symptoms of cases suitable for forcible movements may be summed up as follows. Loss of motion and muscular spasm, especially on rough handling. On very gentle manipulation slight morement can be felt, and that perfectly smooth. Pain on more forcible movemeat, pain at night, pain on Waking in the morning, pain at change of weather, pain on jarring the limh, absence of inflammation, extra coldness of the part, very elight thickening only (if there is much it should be lessened by rest or gentle exercise, blisters and absorbent application, with light friction), the lapse of some weeks before forcible morements are attempted. In the earlier stages forcible movements produce a large amount of fresh effusion, and possibly inflammatory disturbance.

I remember a case some years ago in which I yielded rather to the patient's solicitations, and moved a joint freely in the earlier stage. A large amount of effusion waspoured out, and it was only ly very careful treatment that suppuration was prevented.


Scction of ankle-joint ehowing adhesions ( $A$ ) between tibla and astragalus; reat of cartlage healiby. No. 1797. College of Surgeons Museum. This diagram was copled from a rough sketoh taken from the specimen.
In the earliest stages, that is, directly after an injury, perfect rest should be prescribed. In a few days, if the patient be fairly healthy, absorption of some of the effused fluids will have taken place, and a plastic material remains which can be stretched or mouldell by gentle pasisive movements; these also farour absorption, and should be combined with very gentle friction, remembering the axiom of Hippocrates that hard rubbing binds, soft rubbing loosens." The rnbbing should always be done in a centripetal direction. Absorhent remedies may be combined with this treatment. If the case does not progress "satisfactorily, or has not come under observation sufficiently early, forcible morements may be required to rupture the ahesions, In suitable cases force should not be spared; in one of mine I had to exert all my strength. I felt that, even if the bone was fractured, the
patient would be no worse off in the long run than if he were allowed to remain as he was. I once saw a humerus fractured by a prominent member of our profession in his attempts to rupture adhesions in the elbow-joint. The patient had a better arm than before operation.

After the adhesions hare been ruptured, a day or two of rest should be prescribed, with cooling lotions, and then gentle exercises, active as well as passive. Here is a diagram of a case in which considerable force would have to be exerted to tear through the adhesion.

In cases in which the cartilage has been partially destroyed there may still be movement ; the cartilage is replaced by a fibrous material, which fulfils its purpose. I remember a case of compound comminuted fracture of the knee-joint, which was treated in the Bristol General Ilospital. I removed several pieces of cartilage from the joint, and yet that patient recorercd with on fair amount of movement. There are several specimens in the College of Surgeons Museum which show the replacement of cartilage by fibrous tissue. It is not at all uncommon to find similar evidence with free joint-movement in the dissecting-room ; therefore, destruction of cartilage is not sufficient reason of itself to contraindicate forcible movements. Such evidence, howerer, should


Fig. 4.
Front "fiew of flexed left knee-joint. A Internal, B External semilunar cartilages in their normal position. Skin reflected from femur and tbla, make us careful as to the amount each case could safely bear, and also particularly careful in the after-treatment. Cartilage itself, as Ilunter las told us, is capable of taking on adhesions, without marked change in its structure. Specimen 1797 in the College of Surgeons Museum shows this well (Fig. 3). The cartilage close to the adhesion is smootb and quite unchanged to the naked eye.

Now we come to another class of cases-internal derangements. Many of these are caused by loose bodies in the joints, which may become nipped between the bones. These have special symptoms peculiar to them, and should be removed as soon as possible.

The knee-joint is the most common site of these derangements. It is the most complicated joint in the body. Besides flexion and extension, when the knee is flexed, rotation of the tibia on the femur is permitted. When this is carried to an abnormal degree, there may ensue either a subluxation of the condyle of the femur, or a displacement of a semilunar cartilage. The internal carti:
lage, as you will ree by this diagram, is the straighter and longer ; the onter is smaller and more circuiar. The inner, besidea being attached to the frout and back of the tibial spine, is attached all round the inner half of the head of the tibia by fibrons bands, as well as to the internal lateral ligament. Sometimes this cartilage becomes displaced and nipped between the bones, or it may slip into the notch hetween the condyles of the femur. The external cartilage is not attached round the head of the tibia, and consequently shifts its position easily, and follows the condyle, and is less frequently displaced than the internal. I will quote a case of displacement of the internal cartilage, and then explain. 1I. S., aged 25 , sprained his knee at football in January, 1885. Synovitis followed, but subsided after some weeks. He regained full use of the joint, but a feeling of weakness remained, for which he wore an elastic. knee-cap. In March, 1887, he slipped on the snow, and felt a sharp pain on the inner side of the knee. IIis leg was flexed and fixed in that position, but on pressing his hand firmly on the inner side of the knee something seemed to slip, and he conld then Hex and extend the joint freely. The knee, however, swelled and became painful. When I saw him four days after the accident he had slight cffusion into the joint; there was odema and marked tenderness over the upper part of the tibia, at its junction with the cartilage. No pain was experienced on flexing the knee, but only when pressure was thrown on the internal lateral ligament.


Fis. 5.
The same joint as in Fig. A; lateral ligaments iutint. A. Iuternal comble of femur over-riding internal semilunar cartliage B. Knee partally fexed; femur rotated iu; tibia rotated out; tibia abducted on femur. C. Patella reflected.

Slight displacement of the internal semilunar cartilage, with strain of the internal lateral ligament, was diagnosed. A felt splint was applied, in the hope that the cartilage would becomeattached again. The synovitis soondisappeared, and the leg became stronger. At the end of five weeks the pratient, who was very anxious to play cricket, said he was quite well, and, contrary to my orders, piayed. In turning for a quick run, he felt a sharp pain again in the old site. The knee was locked, and could not be replaced without help, and then only after great difficnlty had heen experienced. This has happened several times since, and 1 expect to have to operate to fix the cartilage in its proper position. In this case the sprain of 1886 had probally weakened the internal lateral ligament and the fibres which attach the cartilage to the head of the tibia (Fig. 4). In that particular movement of turning sharply, and pushing off with the foot-nearly all the cases 1 have met with have been caused in a somewhat gimilar manner-there is a double rotation and abduction. The fenur rotates inwards, the tibin outwards, at the same time, the internal la' cral ligament be
ing loose, the bones are allowed to separate, and the tibia is abducted (Fig. 5). All these movementa, done sharply and with violence, may canse the condyle to shoot over the edge of the cartilage, and thus become locked; this would be a subluxation. Sometimes not only this happens, but the cartilage gets detached and displaced inwards. While examining this point in the dissecting room onc day, I was doing these movements forcibly on a subject, and the cartilage became separated and displaced before my eyes. It happens thus. If the knee is flexed, the back part of the condyle of the femur, when rotated inwards, tends to push the pos terior part of the cartilage in the same direction: if the tibia be now rotated ontwards, the front part of the cartilage is unsupported by bone, its anterier attachment is carried out with the tibia, and great strain is then thrown on its fibrous attachments to the head of that bone ; if theese give way, the arc is straightened and the tension relieved, and the cartilage slips outwards. If the bones are much separated, aud the movement done suddenly, the cartilage may shoot clean under the condyle into the notch, and lodge there (Fig. 6). When all the fibrous bands are torn, this accident is not unlikely to happen; even when it does, the cartilage can be replaced by extreme flexion of the knee, with subsequent rotations. Mr. Gray, our assistant demonstrator of anatomy, who kindly took some photographs for me, complained that now the cartilage was separated, he could not place the bones in the position de-


Fig. 6.
A. Internal semilunar cartilage disp owed between internal condyle of fermur and anterior crucisial liganient. Thlia stelucted and rotated outwandly in cousequence. B. External semilu nar cartiligge.
scribed without the cartilage slipping between the condyles Mr. Howard Marsh, in Diseases of Joints, refers to three of thesi cases dissected and described by other surgeons.
When the cartilage is completely displaced between the condyles, the joint movements are less interfered with than when the displacement is yartial. In other cases of internal derangements, the fat or synovial fringes, especially when thickened or edematour, may become displaced and nipped between the bones.

1 will describe another case, with its explanation-a hip case. J. II. aged 4, was getting out of a donkey cart when the animal noved on. The patient's right leg slipped on the inside of the slaft, and the left came to the ground. 1lis right thigh was thus forcibly abducted and slighty liexed. He then found that he was umble to walk properly or strop; lie was a very poor man, and said: "If I saw a shilling on the ground I could not pick it up." He hobbled with difficulty into my room about forty-six hours after the accidnnt. All simple remedies lad been tried, but
they were of no avail. Ilis leg had the everted, abducted, lengthened appearance seen in subpubic dislocation of the hip. The bones were, however, in their normal relations, there was marked muscular spasm, so that I came to the conclusion it was a disarrangement of something; what I did not exactly know. Acting on the principle that if novement in ono direction is particularly painful the opposite movement should be carried to its full extent, and then the painful morement tried quickly, and finding that attempts at extension caused him most pain, I flexed the leg fully on the abdomen and rapidly extended it. The latter more ment could then be performed quite ireely and painlessly. The patient worked the leg himself, stooped with the greatest ease, and walked round the room in his usual manner. I shall not forget his surprised look as he worked his leg up and down, and said: "Why, it's all right now, Sir." A boue-setter could easily have done this, or an accidental fall might have had the same effect. As it is, a legitimate member of the profession has the credit.

The case puzzled me. I consulted authorities, and all the explanation I could find was that a muscle or tendon might be displaced. On doing the movement forcilly in the dissecting-room,
profession from charges of ignorance or carelessness, Ofter one feels and knows the truth of these charges. There is a tendency to look on these cases as hysterical or beyond cure. For my own part, I can only say that cerery year I meel with less hyssteria and nore definite pathological lesions. Varying degrees of muscular power are required in the treatment, from o force of a few ounces to humour and averceme the spasm of a muscle, to a force of possibly a couple of hundred pounds or even more to rupture dense bands of fibrous tissue.
We should be prepared for any emergency. Accidents maj happen in spite of the greatest care and forethought. © We shoulc not, for a very remote danger of bad consequences, condemn 8 large number of individnals to a life-long suffering; for these patients get pain as well as impairment of function. I rarely see inflammatory disturbance follow these manipulations i ordinary care be used. If nente suppuration of a joint shoulc set in, I feel that, thanks to Sir Joseph Lister, we have a verj powerful ally at eur backs in the antiseptic treatment, an ally that robs these cases of their great dangers to life or limb. have had the treatment of several cases of suppurating joints, it which not only the patients' life and limb were saved, but \&


そig. $\%$
A. Acetabulum. B. Transverse ligameut. C. Acetabulnr note',
no muscle could be made to disarrange itself; there is no particular bony prominence to keep out of its place any muscle which may hare slipped. No muscle could have been ruptured, as the man did all the morements quite freely and painlessly immediately after manipulation. Then I tried the capsnle, but the head of the femur fits too closely inte the acetabulum to allow that to be nipped, and a simple abuormal folding would not cause the leg to be fixed. The ligamentum teres was then tried. Professor IInmphry, in his interesting book on the skeleton, states that when the thigh is abducted in the erect posture the ligamentum teres is compressed into the lower part of the acetabulum hy the head of the femur (Fig. $\mathbf{-}$ ). In extreme abduction the ligament and the fatty tissue at its base is driven under the transrerse ligament. On doing this mevement forcibly and quickly, the ligamentum teres was found to be nipped under the transverse ligament, and this maintained the deformity: On flexing the thigh fully the ligament is drawn back into the joint, and remains there when the leg is subsequently extended. I believe this to be the explanation of my case. The abnormal position was probably maintained by reflex spasm of the surronnding muscles (Fig. 8).

I regret that time will not allow me to enter more fully into the subject ; it is most complicated. Bone-setters gain their harvest because we, the legitimate practitioners, too frequently consider the necessary details and delicato mampulations beneati our netice. The loss of function of one joint is often of as much inportanco to the patient as the loss of a limb. On numerous occasions I have had to defend the reputation of members of our
certain amount of morement as well. In one case the subsequent movement was perfect.

We must not forget that if we do not adopt this practical and legitimate treatment ourselves, we run a great risk of being instructed in our profession by men we contemptuously spenk of as "quacks."
The diagrams were drawn from prepared specimens and from photographs taken for me by Messrs. F. Calder and T. C. Gray, of the Bristol Medical School, to whom and to the artist I take this opportunity of expressing my thanks.

Bequests to Dublin Iospitals.-The late Mr. Wm. Bannon has left several bequests to Dublin hospitals. Amongst those are the Meath and Sir I'atrick Dun's, which will each receive about £6,000.
The Railiway Death-rate.--The return of railway accidents for the year 1887 compares unfarourably, in more ways than one. with that of its predecessor. There were during the year 25 passengers killed as comparel with 8 killed in 1886, and these, it should be pointed out, occurred all on onc line. There were $5: 3^{2}$ injured from various canses against 615 in the preceding yoar, while 8 servants of companies were killed and 103 injured as against 4 and 81 respectively from the same canses in the year before, rendering the total list of deaths from collisions and accidents 33 and injuries 647 , whereas only 12 were killed, though 696 were injured, in 1886.
exploring the joint with the finger, there was discovered on the posterior surface of the patella a shallow cavity which exactly corresponded in size and shape with the piece of cartilage and bone removed (Fig. 2).
The patient recovered well; sat up on January 11th, left the hospital on the 1 tth (the twenty-fifth day after the operation). and on March 12th came to the hospital. "There was no trace of a limp. He could flex the knee to a right angle, and was able th do heavy work with perfect ease.
The next case wasunder the care of my colleague Mr . Atkinson. with whose permission it is pullished. In this there is an absence of any evidence of preceding injury.
J. R., a patient in the Leeds Infirmary. On October 7th. 1886, $\mathrm{Nr}_{\mathrm{r}}$. Atkinson remored two loose cartilages from thic left knee and one from the right. There was a history of frequent attacks of pain and swelling of both knee-joints extending over a period of seven years, but not of any severe injury.

January, 1887. He was again admitted into the Leeds Infirmary. as another cartilage had been discovered in the right knee. The cartilage was remored.
On January 31 st the knee was excised, and the following condition was discorered (Fig. 3). A piece of articular cartilaye about three-quarters of an incly square was partially detached

## LOOSE BODIES IN THE KNEE-JOINT. <br> By T. PRIDGIN TEALE, M.A., F.R.C.S.

N fulfilment of my promise, $\mathbf{l}$ beg to record the following cases, thich tend to corroborate the opinion of those who think that ccasionally, as the result of injury, a piece of articular cartiage with a corresponding portion of bone may become detached, nd give rise to the ordinary symptoms of loose cartilage. Furher, such a loose body may be removed from the joint, with as omplete a recovery as in the case of simple nodule, of cartilage. He first, the case read by my father before the Medico-Chirurical Society (December 11th, 1885) has been most fully and adeuately quoted by Mr. Howard Marsh, in the Jourval of April 4th. In this case a blow on the knee was followed in twelve ronths by sudden lameness and the discovery of a loose body in he joint. It was unfortnnately proved post mortem that the oose body was a piece of articular cartilage and bone which ccurately fitted a shallow cavity in the outer condyle of the emur
The next case was under my own care at the Leeds Infirmary, nd was as follows: J. J., aged 25, a mechanic, on December 4th,

Fig. 2.-Posterior surfuce of patella, as julged by touch. 1, caught his foot in a rut, giving the knee a severe wrencl, and fell on his hands and knees. By no questioning could any widence be ohtained tending to show that the fall was the result If some foreign body in the joint. With great difficulty, hy hoping and leaning against the wall, he reached home. The joint was much swollen immediately, and excessively. painful. The ratient said that he felt sometbing loose in the joint. Next day, Necember 5th, he was admitted into the Leeds Infirmary. The oint was swollen, painful, tender to the touch, and especially to ressure over the inner margin of the patella. The house-surgeon, IIr. Edward Ward, thinking that the case might be one of dislaced semilunar cartilage, tried the usual manipulation of flexion ind extension, with the effect of producing great pain and no imelioration.
December 14th. The dresser discovered a loose body in the oint.
December 2Ist. The joint was opened, and a loose body, consistng of cartilage and a thin layer of bone (Fig. 1) was removed. On

from the extemal site of the inner condyle, being attached chictly at the upper part of its internal horder, close to the inter-condyloid notch, by a portion of cartilage and synovial membrane forming a sort of hinge, which allowed the piece of cartilage (1. flap backwards and forwards. The patient recovered.

The liospitals Association. - The fourth annual general mecting of the Xospitals Association will be held at the Town llath. Westminster, on Welnesclay next, at 5 p.a., to receive the annmal report of the council, ete. The chair will be taken by Dr J. s. Bristowe, F.R.S., the President, who will deliver an addresi. Cards of admission can be obtained of the Secretary, Niorfolk IIouse, Norfolk Street, W.C.

A message has been received from the Ilome ollice, mprieving Dr. Burke, who was to have been executed for the murder of his danghter, aged 9. by shooting her: Ile afterwards shot himself. The reprieve, it is stated, had been petitioned for cliefly by meuical men.

THE INTERNAL SEMILUNAR CARTILAGE OF THE KNEE-JOINT SUTURED TO THE HEAD OF TIIE TIBIA.
Br HERBERT WILLIAM ALLINGIIAM, F.R.C.S.,
Surgeou to the Great Northera Hospltal, and Demonstrator of Auatomy at St. George's IIospital.

It is to add to the literature of this subject, and to try to inerease in number the performances of this useful operation, that I bring before you this evening the following case. After reading Mr. Annandale's very interesting paper on this subject, and observing that he had opened the knee-joint with success in eight eases for synovial growth and slipped semilnnar cartilage, I determined to follow his ndvice, and see if I conld not assist in bringing this troublesome condition within the provinee of surgery.

As 1 am connected with the Surgical Aid Society, I constantly have the opportunity of seeing patients, who inform me that they have been cripples for many years from this malady, and that they have spent the greater part of that period in hospital, undergoing the usual regome for slipped eartilage-that is to say, rest, blistering, firing, pressure, etc. When, as often happens, they have derived little or no benefit from these modes of treatment, they are finally committed to the charge of the instrument makers, and a variety of splints tried. In some cases, great good is the result; but, should these appliances fail, the patient is compelled to suffer for the rest of his life from a weak and, at times, painful and useless knee.

Now 1 should say that, if a careful attempt has been made to remedy the displacement by one of the methods above enumerated, and this has failed, I do not see any good in waiting longer, or subjecting the patient to any further discomfort. On the contrary, I believe that, with strict cleanliness and attention to details, a slipped cartilage may be fixed, or a thickened synovial fringe removed, with no more danger than is caused by the extraction of a loose body from the joint; in both sets of cases, the need for active treatment is at times equally urgent. But before resorting to operative treatment, one should distinguish between two classes of cases-namely, the acute and the chronic. The acute are those in which the displacement has taken place at once, and the coronary ligaments been torn through; cases of this nature may be treated by rest, pressure, etc., with recovery as a not uneommon result. Un the other hand, if the eartilage has been loosencd by gradual stretching of the coronary ligaments, by no means rare, consequent on much kneeling, little time should be lost in adopting palliative measures. The same recommendation applies to those casos in which acute displacement often recurs, thus tending ta become chronic.

With regard to the directions in which the internal and external cartilages may be dislocated, it seems that they may slip forwards, backwards, inwards, or outwards, and that these displacements may be either complete or incomplete; the internal chiefly is the uost commonly affected. I may mention that, in a very elaborate paper on this subject, Dr. Scott Lang says that the internal cartilage is dislacated when the leg is ratated outwards; and that, when the external cartilage is displaced, it is from rotation of the leg inwards. Ile further advises, as an assistance to the treatment of this injury, that, when the internal cartilage is affecterl, the patient should keep the toes directed inwards, and, in the ease of the oxternal cartilage, that they should be kept outwards.

The following is the case I intend to put before you to-night:
In September, 1887 , J. W., carman, aged 33, came to me at the Surgical Aid Society, and said that I had seen him some months baek when he had applied for a linee-eap. Ile had stated on that aceasion that, abont one year previously, when carrying a heary load, something had slipped in his right linee, and that he had to rest the joint, which was very minful and swollen, for same time; after the lirst aceident he was constantly being laid up with the disoribred knee, but rest was of no avail. Each time he returned to his work the old symptoms recurred within the space of a few days. It that time, he said, I had ordered him a strong kneecap, which, unfortumately, hal been of little usc.

1 then went earefully inta his history, aud found that be detailed all the symptans of a slipped semilunar cartilage. Accordinyly. as ho was a young man and healthy, and as he had asserted that, unless something was done, he would have to give up his work, $\downarrow$ proposed that the cartilage should be fixed, and explained
to him all the risks of the operation; these he readily consented to run. 1 therefore sent him to the Great Northern llospital, and on September 28 th performed the following operation: The righl knee was thoroughly washed and enveloped in wet antiseptic bandages for some hours. A vertical incision, two inches long was made over the internal aspect of the joint, the centre of the wound being over the internal eartilage. The joint being opened I introduced my finger with some dificulty, and felt that the in ternal cartilage could be freely mored about over the head of the tibia, both forwards and out wards. Fixing it with my finger, Ither passed a strong needle mounted on a handle through the peri osteum at the bead of the tibia, and through the semilunar carti lage. The needle was threaded with stout catgut, which wa: drawn through the cartilage and periosteum, and then tied ul tightly, so as to fix the cartilage. After this the joint was dis tended with carbolic lation, and the cut edges of the synovia membrane carefully brought together with buried estgut suture: Superfieial silver sutures were passed through the skin, no drain age-tube being used.

The leg was then fixed upon a back-splint with a foot-piece which extended up the gluteal fold. Autiseptic dressings wer applied, and the whole leg bandaged, so as to obtain firm equabl pressure arer the knee.

September 29 th. Had a fair night. Vomited once, and eom plained of a little starting in the knee, so an ice-bag was applied Temperature every six hours showed $97.6^{\circ}, 98^{\circ}, 99^{\circ}, 99.6^{\circ}$.

September 30th. Pain had entirely gone. Iee still continued Temperature $99.8^{\circ}, 100.4^{\circ}, 99.6^{\circ}, 100.6^{\circ}$. IIis bowels were confined and he had pain in the abdomen; accordingly he was purged.

October Ist. IIad a comfortable night. Bowels acted well, an the temperature fell from $101^{\circ}, 100^{\circ}, 98 . i^{\circ}$, and never rose agail above normal.

October 2nd. I dressed the wound ; there was no pus, no effu sion into the joint. Antiseptics were reapplied: ice discontinued and the leg not so firmly bandaged, as it was slightly œedematous October 3rd. Netes report patient very comfortable.
October 7th. Removed the dressings; all the wound was healed the superfieial stitches were removed. No effusion. A pad o cotton-wool applied to the wound, antiseptics being left off.

October 19th. On the leg being removed from the splint, th patient could bend it nearly to a right angle under the thigh; but as it was still a little stiff, and as I did not wish him to use i until the adhesions were saund and firm, I did not let him stant upon the leg until Yovember Ist.
November 26 th. He returned from the Convaleseent Home a Bognor, saying that his knee was perfectly well. I then adviser him to walk about a little, but not to return to hard work for an other month. IIe is now at work, and you will see that, sinee th otheration, he has not been troubled with any discomfort in the joint which is now perfect. With reference to the operation, I must sul: that I made a vertical incision instead of the transverse one recom mended by Mr. Annandale. I did se, because at that time I wa under the impression that he had employed this mode; but shal certainly at a future operation follow lis advice, and make transverse cut, for, by that means, a better view of the interior the joint may be obtained. There are one or two details in th operation which 1 think most important.
I regarded the synovial eavity of the knee-joint as I do the peri toneum; that is to say, took great care that no blood should ru inta the joint, or at least should be cleaned out before being elose up. As we do when suturing the peritoneum, I was particularl careful to bring the two eut synorial edges together, in order tha in a few hours the joint might be shut off by lymph thrown oul between the edges from the rest of the wound. This point I con sider to be of great moment, and must ask my hearers to try similar plan in any ease they may operate upon, for the synovis membrane is a serous sae, like the peritoneum ; and therefore, $t$ my mint, shonld be treated in a like manner. If this is done. do not think there is much to fear from opening the knee-join There is another reason why 1 do not think there is so muelh dar yer, as is generally apprehended, in this operation of opening th knee-joint affected with a dislocated semilunar cartilage growths. When attacks of synovitis have frequently occurred, t ) synovial membranc is not nearly so likely to take on acute inflan mation as it is when the serous sac is opened without any prel minary inflammatory attacks. Abdominal disorders furnish with another parallel to these. This is shown in peritonit which, I think, is much more likely to ensue when one operat on a patient whose abdomen bas not undergone the preparato
changes which, I think, take place when the abdominal cavity has been filled with fluid or an ovarian tnmour.
The result of my treatment in this case will encourage me to attempt, at some future date, a repetition of the operation. 1 may mention that I lave under my care several patients who are troubled with symptoms of displaced cartilage or growth in the joint, which are constantly slipping or getting pinched between the ends of the bone, thus causing pain and crippling them. I incend, therefore, if 1 find no improvement after a fair trial, say and, by so doing. I slaill hope to rid them of pain, discomfort, and inability to ase the limb.
P.S.- The patient wrote to me on April 16th, 1888 (seven months after the operation), saying he continned quite well.

## AN UNUSUAL CASE OF HAMATURIA.

By THOMAS OLIVER, M.D., ML.R.C.P.,<br>Phybician to the Royal Infirmary, and Lecturer on Physiology, University of Durbam College of Medicine, Newcastle-upon-Tyne.

The following case is so unique in my experience that I renture to place it before the profession.
On September 11th, 1887, I was asked to see, in consultation with Dr. Campbell, of Neweastle-npon-Tyne, Miss L.. B., aged 11, a pale, emaciated young lady, who for a month had been suffering from hæmaturia, accompanied by high temperature. I was told that when an infant she had suffered from some illness, which had been followed by general desquamation, but whether it was scarlet fever the parents could not aay. A few years after this she had measles, and soon after this whooping-cough. A year ago she had a slight attack of hæmaturia, the cause of which was never properly understood. Her recovery was slow, and although the temperature was not taken by the medical gentleman then in attendance, the mother atates that the patient was decidedly fererish, particularly towards evening. Ultimately she made a good recovery.
Whilst spending last summer at Cullercoats along with her family, her brother took ill and was brought home only to develop and pass through a very severe attack of typhoid fever. When Dr. Camphell and I met in consultation the boy was convalescent; it was the thirty-second day of the fever. Five days after the illness of this brother was distinctly recognised as typhoid fever our patient had become fererish, and hæmaturia suddenly made its appearance. The temperature ranged from $101^{\circ}$ to $103^{\circ}$.
Ilæmat llæmaturia had persisted without any intermission from the deep black in colour; it was altwars plentiful, had a specific gravity about the normal, and was acid in reaction. It was passed without pain, never contained clot, never pus cells or tube casts, but numerous blood cells. I few days before I saw her, vomiting had aet in, always coming on immediately after eating, and without pain. Bowels were natural; there was slight cough, no expectoration.
When I saw her she was very ill, much reduced from the fever and vomiting; her tongue was moist and creamy; she was sleepy and seemed heavy and apathetic: pulse from 120 to 124 , and it had remained at this all through her illness. Small moist musical railes were heard all over the lower part of the chest; the hase of the right lung was rather dull on percussion. The heart's sounds were healthy'; liver dulness normal; splenic dulness slightly increased. There was no tumour or increased dulness detected over the region of either kidney, but a degree of pain was experienced when the right kidney was tilted forward. The abdomen was flat, no epots were seen in the skin, no fluid was detected in the peritoneal cavity, no cedema of face, fect, or hands existed. A record of the temperature was unfortunately not kept at first, but on the evening before I saw her it was $104^{\circ}$. From September 2nd to the 18th, the evening temperature generally registered $I^{\circ}$ to $3^{\circ}$ higher than the morning; the evening temperature being $103^{\circ}$ or $104^{\circ}$, whilat the morning was $101^{\circ}$ or $102^{\circ}$.
On September 19 th the morning temperature suddenly fell from $103^{\circ}$ to $99.2^{\circ}$, and whilst on this evening the temperature rose to $100.2^{\circ}$, it never again did so. The morning and evening teniperatures were for the future pretty nearly equal, never being ligher than $90^{\circ}$.
All sorts of medicines had been tried, iron, gallic acid, quinine, ergot, ergotin, in the view that the hæmaturia might be in some
way or other associated with a specific fercr. Sulphur, carbonate of soda, and quinine werc given, but all without a cail.
After the sudden fall of the temperature on September 19tll, blood never appeared in the urine, and the patient had a convalescence which was quite uninterrupted.
Now here was a case of hrematuria which began with high temperature quite suddenly; both continued for thirtyfive daye, the high temperature and the hæmaturia each being quite uninfluenced by drugs ; then a sudden fall of the temperature occurred, also a cessation of the hrmorrhage, both followed by
cure. What was the hematuria sympta cure. What was the hematuria symptomatic of There was largement of the kidney pointing to cancer, no history of hæmophilia, no purpura hæmorrhagica, no Bright's disease. The diagnosis, in my opinion, lay between tubercular disease and some peccinar blood condition; and we eliminated the former partly by cased good familily history we obtained, and the absence of any dis-
of the lung which we could definitely regard as tubercular; the ferr rales which we heard in the chest had not been of two days' duration. From the sudden onset of the illness and the high temperature, the continuation of the high temperature and hæmaturia as associated conditions of thirty-five days, the distinct evening exacerbations, their refusal to be influenced by medicines, the enlargement of the spleen, the contemporaneous illness of the brother, and that illness unmistakably typhoid fever, and the fact that brother and sister had been living under identical conditions at Cullercoats, the one taking ill five days before the other; all these led us to regard the hæmaturia as specific, or in other words, that our patient was also suffering from typhoid
fever. Am I right in even suggesting this? speak of the relationship. In scarlet fever we have an illustration of how a poison known to act principally upon the skin and the tonsils may yet attack the glands in the wall of the intestine and the kidney; "for as early as the second or third day of the fever the kidney past mortem has been found to be the seat of an interit not the a glomerulo-nepliritis. Besides, in typhoid ferer itself, is of the ilenm that while the glands in the lower part of the wall yet occurs every now and then an inflammation of the there yeith alls the every now and then an infiammation of the lungs to explain as regards its causation and relationship to the typhoid fever, and yet at other times so acute and so severe as to typhoid other signs of typhoid fever, of which it is after all but the local expression? I am inclined to think that in our case the kidneys had to bear the brunt of the poison, or as the result of the poi-
soned condition of the blood, the blood to of the blood, the wals or he renal ressels allowed claim to this case of hrematuria being regarded as quite an unusual one.

## WOLFFBERG'S COLOUR-TEST.

By Sldney h. A. Stepifeason, M.b.Edin.,
Clinical Assistant to the Royal Westminster Ophthalmic Hospital.
By the employment of this test Dr. Wolfiberg (Klin. Monatsbl., p. 359, 1886) claims to have discovered a simple method of telling in a given case whether defective rision is caused by refractive errara or by defect of the light-sense. He employs two discs placed diameter $\left(R^{2}\right)$, and the other blue, and 7 millimetres in diame in
dithe (B1 ${ }^{7}$ ); if the vision is less than $\frac{1}{10}$ larger, red and blue diameter used. By comparing the distances at which these discs are are nised by the eye under examination, with the degree of viogdefect, as ascertained by Snellen's types. Wolffberg believes that he is able to tell whether the defective vision is due to an that of refraction. An eye which reads of should sec the discs at 5.5 metres; if this be not the case, he concludes that it is suffering from some affection, other than a refractive error, which is likely to affect the light-sense.
If vision be impaircd by simple ametropia, the discs should be seen with each degree of rision at a certain constant distance from thc eye. Wolffiberg believes that he has ascertained these
distances by experiment, and he lias constructed which can be seen at a glance the distance at which the from ought to be recognised with each degree of rision. If the defective vision be caused by defect of the light-sense-which is supposed to influence colour-vision more than form-sense-the distances at which the discs will be seen will correspond to constant distances,
shown in a second table, and ascertained by discovering at what distance emmetropic eyes were able to recognise the dises when the illumination was reduced by gradually dininishing the amount of solar light.
1)r. Boehm (Klin. Monatsbl., Novemher, 1887), from a large number of experiments made in Wolfferg's clinique and at his suggealion, believes that he lias not only confirmed the above conchusions, but also that, by means of this test, he is able to detect the presence of astigmatisns ; since this impairs the form-sense in a ruch higher degree than does spherical ametropia, but has not a proportionate effect on the colour-sense.
An able and lucid review of Wolffberg's and Boehm's papers was pulblished in the London Medical Fiecord by Mr. W. Adams Frost (Iondon Medical Record, Irt. 7583, December 15th, 1887), at whose suggestion I made the experiments about to be described.
It is obrious that if Wolffberg's data were correct, we should have a valuable addition to our methods of diagnosis, but as my investigations on the subject do not confirm those data, I have thought it advisable to place them on record.
The observations were carried out on a fairly large number of intelligent children and adults, and the apparatus used was obtained from the source recommended by Dr. Wolffberg. The patients were first made to understand what was expected of them by being shown dises similar in every respect to those actually employed in the test, except that they were of different colours. The real test-discs were then placed at such a distance from the patient that they were invisible to him, and they were gradually approximated until they were recognised. Wolffberg adopts the opposite course, gradually increasing the distance mitit they become invisible. Although this difference in our respectire methods of employing the test might explain trivial liscrepancies, it would certainly not aecount for the totally different results obtained.
My experiments were limited to finding out the distances at which the discs were seen; (1) in cyes whose vision $=\frac{6}{6}$; (2) in spherical ametropia of known amount; (3) in spberical ametropia of artificial production. My original intention was to endeavour to verify all Wolffberg's conclusions, but when I found tbat the results obtained from the above three classes of cases did not coincide with his table, 1 thought it useless to proceed further, since the trustworthiness of Wolffberg's whole scheme depends on the integrity of his facts with regard to emmetropia and simple myopia and hypermetropia.
The conclusions which I have reached are as follows:
I. As to the Distances at which the Discs coull be seers by Eyes with $V^{\prime}=$ ?. Many ejes were unable to recognise the coloured liscs at 5.5 metres. The majority of those examined could not listinguish the $\mathrm{Bl}{ }^{7}$ dise beyond 5.0 metres, and in some cases not heyond 3.0 metres. According to Wolffiberg the two coloured discs should be visible at the same distance from the eye, but in most of the cases examined the $\mathbf{R}^{2}$ dise had to be held 0.5 to 1.5 metres nearer the cye than had the B1 ${ }^{\top}$ disc before it could be recognised. Many patients had great diffieulty in saying the exact distance at which the discs could be scen. So far as ? could sce there appeared to be no definite constant distance at which different eyes whose V. was $\%$ could recognise the discs.
2. Myopia and Ifypermetropia in which Corrected Tision $=8$. The distance at which, with cach degree of vision-defect, the discs could be recognised did not correspond with Wolffberg's table. In different experiments persons who had the same degree of defective vision did not see the discs at the same distances; for example, A. (myope) had V. $={ }_{~^{6} \tau}$, and saw $\mathrm{R}^{3}$ at 0.5 metre, and $\mathrm{Bl}{ }^{7}$ at 1.0 mètre; whilst B. (myope), who also had V. = sid saw $\mathrm{R}^{2}$ st 1.25 mètres, and $111^{7}$ at 1.75 mêtres.
3. Myopia and Mypermetropia produced by Conver and Concave Olasees.-In this class of cases, also, the distances at which the dises were spen in the different degrees of visual defect did not agree with Wolffiverg's table; often the results obtained from the nwo cyes of the same person with the same amount of defect in "ach gave different results; no tro cases ever coincided exactly sn with the other; and frequently a person when re-examined mive widely different answers from those obtainel at the first exammation.

In practically all cases it was found (a) that $\mathrm{K}^{3}$ had to be held nearer to the eye than had $B 1^{\top}$ before it could be recognised : $(\beta)$ that the worse the vision the nearer had both the coloured disce to be held to the eje, in order that they might be clearly scen; for example, $V$. sees $\mathrm{R}^{2}$ at 3.5 and $\mathrm{Bl}^{7}$ at 5.0 métres; $V$. $\mathrm{T}^{4}$ seen $\mathrm{R}^{2}$ at 2.5 and $\mathrm{Bi}^{7}$ at 4.0 mètres; V . $\mathrm{r}_{\mathrm{f}}$ sees $\mathrm{R}^{2}$ at 1.0 and $B 1^{7}$ at 2.0
mètres ; V . ${ }^{6}{ }^{6}$ sees $\mathrm{R}^{2}$ at 0.75 and $\mathrm{B1}^{7}$ at 2.5 mètres; V . ${ }^{6}$, sees R at 0.5 and $\mathrm{B1}{ }^{7}$ at 1.75 mètres ; Y . \&s sees $\mathrm{R}^{2}$ at 0.33 and $\mathrm{B1}{ }^{7}$ at I. mètre.

Although this test possesses some scientific interest, I fear that it is of no practical value as a help to differential diagnosis: and although there may be-and in all probability is-some ratio between form and colour-sense, I am driven to the conclusion that Wolffberg has not correctly ascertained it, and that bis test is open to many sources of error from its purely subjective nature.

## THERAPEUTIC MEMORANDA.

## SALINE PURGATIVES IN THE TREATMENT OF TYPHLITIS

 AND l'ERITONTTYS.At a recent meeting of the Midland Medical Society I showed a patient who had recovered from an undonbted attack of acute peritonitis secondary to typhlitis. In this case opium and bella. donna failed to give relief, while the administration of sulphate of magnesium and sulphate of sodium in half-drachm doses with ten minims of tiacture of belladonna every four hours was quickly followed by improvement, the motions, at first liquid, becoming more and more solid till normal stools were passed. TW0 or three slight relapses in this case were at once checked by the mixture and the man rapidly recovered, there remaining a small indura. tion in the right iliae fossa.
Since the above case was recorded, I have had under my care at the Workhouse Infirmary a severe case of typhlitis. I gave the same mixture as in the first case, with great relief; in fact, enemata of soap and water and of glycerine failed to eracuate. After continuing the medicine for a week the bowels failed to act, and in a few days the abdomen was distended, there being dulness in each flank, with a distinct thrill on percussion, all the signs, iz fact, of fluid in the peritoneal cavity being present. The patient was very prostrate, having been allowed only a pint of peptonised milk and a pint of beef-tea a day. I gave him three ounces of whisky, and the next morning he passed an enormous liquid motion containing scybala. I continued the stimulant, and allowed him another pint of milk. He continued to pass large motions with scybala, the enlargement of the abdomen and other signs of fluid in the peritoneal cavity completely disappearing. Evidently the saline aperient had caused a large flow of fluid into the intestine, but the bowel was not sufficiently powerful to evacuate it; restoration of tone by stimulants at once enabled the bowel to empty itself. At this time another complication appeared in the form of a painful swelling of the left parotid gland, which, however, subsided without suppuration. Finally, the patient completely recovered, and was discharged six weeks from the time of his admission.
It seems to me that in typhlitis due to frecal retention, and in peritonitis from the same cause, saline purgatives are of great value, especially if enemata fail to act. In moderate doses they do not cause peristalsis, their action is quite painless, and they are exceedingly uscful in washing away hardened scybala. During their administration the abdomen should be frequently examined, and any accumulation of fluid in the intestines treated by stimulants.
C. W. Sucieling, M.D., M.R.C.P.

Birmingham.

## JAMBUL IN DIABETES

A woman suffering from diabetes was admitted into the Newbury District IIospital on September 24th, and during the whole of licr stay there slie was dieterl. For the first nine days she was given a tonic mixture of quinine and iron. The average daily amount of urine was 08 ounces, with an average specific gravity of 1041.5.

During the next ten days she was given half a grain of opium, at first three times, and afterwards four times, a day. The average daily amount of urine was 91.3 ounces, with an average specific gravity of 1040.
During the next eleven days she took jambul, at first two grains and a half, and afterwards five grains three times a day. The average daily amount of urine was 138.3 ounces, with an average specific gravity of 1041.5.

I tested the urine frequently, and always found that sugar was present. The jambul was given in parts containing two grains and a half each, oltained from Thomas Christy and Co. It is an
well to publish facts about new drugs, whether they be farourable or the reverse.

Robert Linci, L.R.C.P'Lond.

## SULPIIONAL.

AFTER seeing the articles upon the new hypuotic "suiphonal," on April 21 st, I obtained a supply of the drug. I did not find that it was soluble in eighteen or tweuty parts of boiling water. It required considerably mere, aud immediately on cooling it crystallised out; neither did 1 find it soluble in 100 parts of water at the ordinary temperature.
Its effect upon patieuts was rery discouraging. For several hours after taking the drug no appreciable eftect could le observed, but during the greater part of the following day there was extreme drowsiness, also considerable cyanosis. The price is 16 s . per ounce.
The best mode of administering sulphonal is to mix with
The pulv. tragacanth co. and water.
Nettingham.
T. Ennest Lovegrove, M.r.C.S.

## PHENACETINE.

As an antipyretic I have found this drug to act admirably in from four to twelve grain doses, having greater and more prolonged effect upon the temperature than antipyrin, aud producing no rigors, romiting, or nausea, but rather a sense of well-being, the patient frequently becoming cheerful and demanding food. I hear that it has been used with marked success in the treatment of aeuralgia.
leyland Roe, L.R.C.P., M.R.C.S., etc.
Wellington Road, Eccles.

## PATHOLOGICAL MEMORANDA.

CLUB-FOOT AND OTHER CONGENTTAL CONTRACTIONS.
Mrs. M. D., aged 33, was confined for the ninth time on April I2th, 1887. The confinement was normal, but the child (a male) had double talipes equino-rarns. Shortly afterwards the mother
request requested the nurse to show ler the child's feet, and, on observing the deformity, remarked "I thought so." She then confessed to having entertained an "impression" to the effect that the child's feet would be "turned," and the existence of this impression was corroborated by her husband. Two months thereafter 1 performed the usual tenotomy operations, aud the subsequent treatment with splints and bandages was successfully carried out almost entirely by the mother. With this she was more or less employed until within a few weeks of her next confinement, which took place on April 3rd, 1888. On this occasion the presenting part was the breech, and the child (a small male) was dead when born. This child also had double talipes equino-varus, while both hands presented a somewhat crushed appearance, the fingers being flexed and closely applied to the palms. On attempting to open the hands, the little, ring, and middle fingers were found to be firmly held in this position, and could not be extended by a force short of riolence, while the thumbs and index fingers were unaffected. Moreover, both knees were drawn up, the thiglis forming with the abdomen about a right angle, and any endeavour to straighten the legs by pushing down the knees succeeded only at the expense of raising the chest from the horizontal, doubtless due to contracted psoas and iliacus muscles pulling on the spine.
As to the cause of these deformities I can find in the family listory no evidence of heredity.
I have mentioned the employment of the mother during her last pregnancy as being, in relation to the causatiou of the second case, possibly something more than a concurrent association.
The complete symmetry of these contractions suggests a central cause, and seems in opposition to the theory of their being modifications of intra-uterine attitudes from mechanical causes, - Be the explanation what it may, the cases I presunc, froin their infrequency, are not without interest.
Glasgow.
J. A. Tillson, M.B., C.M. Glasg.

AT a public meeting held at Perth on May 18th, it was deciled to form in that town a centre of the St. Andrews Ambulance Association, and a committee was appointed with that object. The opportunity was taken to present Dr. Simpson with a large and handsome silver salver, bearing a suitable inscription, in recognition of his valuable services to ambulance work in Perth. Dr. Ward, who had assisted Dr. Simpson in connection with the lectures, was presented with a silver-mounted walking-stick.

## REPORTS

HOSPITAL AND SURGICAL PRACTICE IN THE hospitals and asylums of

## GREAT BRITATN, RRELAND, AND THE COLONIES.

## ROYAL INFIRMARY, NEWCASTLE-LPON-TYNE.

three cases of stone in the bladder successfully trgated bi suprapubic lithotony.
(Dy Mr. Frederick Page.)
CASE I.-Seven years ago a Durham pitman, aged 25, took from the bed of the river Wear a pebble which he introduced into his urethra, and manipulated into his bladder. He seems to have felt but little inconvenience till four months ago, when urgent symptoms of stone in the bladder reminded him of his folly. On admission, January 30th, I888, he was suffering a good deal phy* sically and mentally. On February 7 th suprapubic lithotomy was performed, and a round phosphatic stone the size of a thrush's egg removed. Peterson's bag was used, the bladder being distended with warm boracic lotion. The wound was closed with a continuous catgut suture, a drainage-tube being introduced at its lowest part between the separated muscles, but not into the bladder. The bladder was not sutured. A soft catheter was retained in the bladder for four days; it was then removed, and passed at intervals for three other days. On the twelfth day the patient passed by the urethra ten ounces of urine, none haring escaped from the wound since the seventh day, showing that the bladder wound had healed in a week; but rery little urine escaped from the wound at any time, showing that the bladder Was effiectually drained by the catheter. The nucleus of the cal-
culus was found to be a piece of rough stone horse bean ound to be a piece of rough stone, about the size of a horse bean, and so hard that a section of it could. not be made
with a saw. The man suffered bardly auy inconvenience the operation, and the whole of the wound, with thenence from tract of the drainage-tube (which closed on the sixteenth day)
then healed by first intention.
Case II.-A boy, aged 6 years, admitted February 20̌th, 1888, with symptoms of stone in the bladder of two years' duration. Ou February 2sth a uric acid stone, coated with phosphates, the size of a large cobnut, was removed by suprapubic lithotomy. The wound was closed with a catgnt suture, a small drainagetube being introduced at its lower angle down to but not into the bladder. A soft rubber catheter was secured in the bladder. No urine escaped from the wound till the fourth day, when the catheter becoming blocked for a short time, some found its way through the draiuage-tube. On the seventh day the catheter was removed in consequence of its causing pain. Lrine then escaped from the wound for one day. On the eighth day after operation the child passed water naturally, no urine escaping from the wound again. The tract of the drainage-tube closed on the teuth day, the rest of the round haring lealed by first intention. February 27-1. B., a Northumberland pitmau, aged 23 , admitted February 27 th, 1888 , with symptoms of stone of two years' dura-
tion. Suprapubic lithotomy, ns in Case I, was performed on ruary 2athapubic lithotomy, as in Case I, was pertormed on Febcolour of a large Spanish chestnut, was removed. The soft rubber catheter was withdrawn on the sixth day. Some, but very little cathe escaped through the drainagetube daily till the ninth day when the patient passed naturally at one time nine ounces of water, after which none escaped from the wound. The tract of the drainage-tube closed on the thirteenth day, the rest of the wound having healed by first intention.
Remarks.- It must ithiuk be admitted that in cutting into the bladder nbore the pubes fewer important structures are liable to be rounded than in lateral lithotomy. It cannot be denied that the suprapubic incision is more direct and less extensive than the lateral. There are certainly rensons for preferring the high operatiou. The three cases reported above could not have done better had they been treated by lateral lithotomy, and it seems to me if suprapubic should be found, as time goes, on, to be as successful as lateral lithotomy, the question as to which opera-
tion is the tion is the better must be answered in farour of the obriously
more direct and simpler method. The points to be attended to in the after-trentment of a case of suprapubic lithotomy are I think to keep the bladder empty, and to provide for the direct escape of urine from the wounid till the cut in the bladder is
healed and the cicatrix strong enongh to resist the presence of urine in the partially distended bladder. If these principles can be readily carried out, and they are possible, I should expect to find suprapubic supplanting latera! lithotomy.

## REPORTS OF SOCIETIES,

royal medical and chirurajcal society. Tuesday, May eqnd, 1888.
Sir E. II. Sifveking, M.D., President, iu the Chair.
On the Ialue of the Tubercle Bacillus in Clinical Diagnosis.-Dr. Percy Kidd and Mr. II. II. Taylor presented a communication, the object of which was to emphasise and illustrate the value of the sputum test when systematically applied to all cases of disease of the respiratory organs of doubtful nature. The paper dealt only with cases in which other recognised methods of clinical investigation failed to indicate a definite diagnosis. In the great majority of the cases described, numbering over ninety, positive results were obtained, only a few negative cases having been included where the value of the evidence was tested by post $t$ mortem examination. The detection of the tubercle bacilli in such cases was often extremely difficult, and repeated examination might be necessary where the number of the bacilli was very small. The time required for such investigations was, however. well repaid when, as often happened, a positive diagnosis could be arrived at without delay, and without waiting for the progress of the case to decide the point. Success depended largely on the following points: judicious selection of the sample of sputum; method of preparation and staining; careful examination with auitable appliances. The cases described fell into five main groups: 1. No plysical aigns of disease of the respiratory organs. 2. Laryngeal disease of uncertain nature, without definite pulmonary signs. 3. Signs of bronchitis, with or without emphysema. 4. Signs of pleurisy. 5. Signs of doultful import- (a) anomalous physical signa, (b) slight signs at the apex, (c) signs confined to or most marked at the base. The tubercle bacillus had been found to be of little use for purposes of prognosis.--Dr. C. T. Williays congratulated the authors on what he considered an important and practical paper. IIe was quite ready himself to confirm nearly every point. Some of the divisions of the cases brought forward by the authors were almost verbatim reproductions of part of a book on Pulmonary Consumption he had recently published. Great care had been spent by the authors on the subject at Brompton Hospital, and he was pleased to hear their results: but he thought it would he a pity if attention to the bacteriological part of the subject interfered in the least with the careful examination of all previously available physical signs. He had had visits from aome Germans who had had bacilli found in their aputa by a pharmacentical chemist, and whom the clemist had proposed to treat; that was a result not to be approved. In diagnosis of laryngeal disease he thouglit examination of sputa
for bacilli of great value, and perhaps of even greater value in cases of bronchitis and emphysema where the tubercle was masked by the other discases. In two small groups of cases beyond those the author had mentioned he thought the examination rery useful, namely, in cases of pyrexia and wasting without any physical signs of disease of the lung. In some of these he had found the bacillus before the physical signs; and again in some senile cases where bronchial catarrl masked tubercular disease. In cases of playsical signs at the bases only it often happened that the original attack had been at the apex, where it had become quiescent and recrudesced at the base. Me did not agree with the conclusions of Dr. Kidd and Mr. Taylor that the bacillus was of little use in prognosis. That the results were disappointing be would allow; hut the bacillus was sometimes important in cases of arrested phthisis in whom the process might come on again; it might be of special importance in giving or refusing medical consent to marriage--Dr. G. Meron agreed to the importance of the presence of the bacillus in settling a tubercular diagnosis in some cases of laryngeal disease, and some of bronchitis and emphysema. In work at the Victoria Park Hospital for some six yearg, he had paid some attention to the inferences in prognosis to be drawn from frequent examination, and he thought they vere of great importance. If he found a case in which the number of the bacilli remained amall during several weeks of examination, he thought the prognosis much better than of one in which the
number remained steadily large, and this though he might never have seen the patient.-Dr. Dovalas lowrle valued Dr. Kidd's and Mr. Taylor's paper very highly, as it was time now to come to some conclusions on these matters. He agreed with them that the bacillus was valuable in diagnosis, and not of much use in prognosis. For prognosis in a distant patient, such as Dr . Heron had suggested, he would as soon take a report of his weight, or of his physical signs, or even a photograph. In laryngeal cases he agreed it was valuable for diagnocis, and might show phthisis when an aneurysm masked the physical signs. In cases which had been continuously and carefully watched be had sometimes known physical signs come before bacilli.-Dr. J.K. Fowler wisbed to bear testimony to the examination for bacilli in cases of spare men with some bronchitis and emphysema. They were not infrequently cases of arrested phthisis. Recently, in a lifeinsurance case of considerable importance of this clasa, he had been very much indebted to the examination of the sputa by Mr . Taylor, as showing a concomitant and probably antecedent tuber-culosis.-Dr. Percy Kidd, referring to some remarks of Dr. Williame as to the similarity of some parts of their divisions of the subject and passages of his book, remarked that their list was drawn up some time before his book was published, and he could only be glad that they had arrived independently at auch similar results. The cases of senile phthisis be had mentioned would probably have come under their heading of bronchitis and emphysema. Dr. Williams had asked after the post-mortem state of the apices of the lungs in a case he had described as basic, and be could say from personal examination that it was one of those rare cases in which the apices were completely non-tuberculous. The point they had wished to make with regard to prognosis bad perhaps been a little misunderstood. They had so often found cases in which the disease was in very rapid progress, with a constantly very scanty supply of bacilli, and a clironic stationary case in which the bacilli were very abundant, that they considered the alundance of the bacilli to add little to their other means of prognosis. If there were no other means of prognosis, the rule of many bacilli indicating acute and active disease, though it had a great many exceptions, might be of some considerable service; but what they had meant was that, in the present state of knowledge,
very nearly as good a prognogis could be made without an exvery nearly as good a prognosis could be made without an examination of the bacilli as with it.
The Removal of Bony Growths from the External Auditory Canal.-Sir W. B. Dalby rend this paper, which dealt only with those tumours of ivory hardness whose point of origin is the osseous portion of the external auditory canal. The method of removing them, which the author introduced in 1874, consisted in grinding and cutting them a way with an ordinary dentist's drill. He now employed an electric drilling machine which admitted of 5,000 turns per minute, but the rate of the revolution could be controlled. The extraordinary facility with which bone could thus be cut was shown. The met hod of operating was described in detail: the drills, burrs, and small trephines were shown.-Sir William Datisy, rising at the request of the President, explained some of the specimens and instruments. In some of these cases of exceedingly hard, bony tumours, in the external auditory meatus, it was found sufficient to bore a hole through their bnse, for that damaged their nutrition, and led to their death and removal by easier means; but the boring of this first hole was no easy matter in a narrow canal where reflected electric light and absolute stillness for the operation were requisite, and burrs made of the beat steel in the world were sometimes destroyed to the number of twenty or thirty before any serious impression was made, when they were revolving at a rate of 3,000 times a minute. However, thanks to the admirable ingenuity of Mr. Augustus Winterbottom, they now had the most perfect instruments, and could cut these bony growths as they liked, a very great contrast to much rough-and-tumble sawing and gouging he had seen in surgery, Ile could not help thinking that when the surgical world realised fully what could be done with the rapid and delicate cutting of bone, they would make more use of it.

## SOUTII EAStern branch : east surrey district. Thursnaf, Mat 10th, 1888.

T. A. Richardson, M.r.C.S., of Croydon, in the Chair.

Febrile States and Antipyretics.-Dr. Goodyart read a paper on certain innominate febrile atates and the use of antipyretica. He elowed that there was too great a tendency to assign all febrile states to a definite class and to treat them accordingly. Some
ases were improred by allowing a less restricted diet than was equired in enteric fever, for example. He described several cases of continued fever (illustrated by charts of tempcrature, etc.) which were not capable of diagnosis; cases where the diagnosis was not clear as to tubercle or typhoid; cases of "fæcal fever" with coated tongue and offensive breath; cases of severe anæmia xith pyrexia, which in his experience often terminated fatally jurpura, with pyrexia and varicella gangrenosa. There appearea o be two classes of cases: 1, where the pyrexia was hurttul ; 2 , Fhere it was not so distinctly injurious. Many indications pointed othere being a nerve centre for controlling heat-production, and robally in the latter class of cases the fever might be due to some lisordered action of this centre, and antipyretics might be useful. that they reduced the ferer was certain. On the whole, Dr. Goodlart preferred antifebrin as having least disadvantages, hut hought that in the first class of cases, where there was a distinct norbific agent, antipyretics were of little use and might be inurious unless used with great discretion. In the less serious :ases, where they appeared to act beneficially, the improvemeut vas frequently not the result of the medicine. A discussion folowed, in which Drs. Duncan, Parsons Smith, Coles, Mr. Richirdson, and Mr. Wray took part.
Electrolysis in Urethral strieture.-Mr. Brece Clarke decribed the treatment of stricture of the urethra by electrolysis, ilowing a battery with galvanometer and the necessary bougies, alid and hollow. A pad placed over the sacrum was attached to he positive pole of the battery, the urethral boügie being attached io the negative pole. About 5 milliamperes, was the average ourrent. Having examined the urethra thoroughly with a urethroneter, pass a bougie slightly larger than the stricture, note the ime, and allow the current to pass, press very gently against the tricture, and in 5 to 10 or 30 minutes the hougie would probably دass through. After ten days a larger bougie might be used. There was some smarting, and perlaps slight discharge for a day or two.-Mr. Golding-Bird thought that the class of cases likely o be permanently cured hy electrolysis would also be curable by imple dilatation.-Mr. Bruce Clarke pointed out the safety of he method by electrolysis; he had had no ill effects from it.
Local Treatment of Eczena.-Dr. Paripot read a paper on the ocal treatment of eczema. After insisting on the necessity of jetting at the cause of the disease in each case, and treating it, he maintained that locally the guide for treatment was similar to what obtained in other inflammations, acute or chronic, namely, in acute cases rest, cleanliness, antisepsis,"removal of all sources ff irritation and disturbance; in chronic cases exercise and stimuation. Acting on these principles he described the various soothing applications for acute cases, showing specimens of Dr. Unna's preparations for eczema, which combined the principle of giving test by support and applying antiseptic remedies. For chronic Lases with thickened epidermis, salicylic acid was a valuable ipplication.

## THE CLINICAL SOCIETY OF MAYCIIESTER.

Tuesday, March 20ta, 1888.

## S. Woodcock, M.D., President, in the Chair.

Laryngeal Growths.-Dr. Simpson showed two patients with laryngeal growths. One, a young woman in good health, had a papillomatous growth rising from the anterior third of the left yocal cord, and another attached below the cord. He had removed them with forceps several times almost, if not quite, completely: but the tendency to return was very troublesome, notwithstanding the subsequent application of strong astringents and chromic acid. The growth aiter removal was now, however, much less rapid than. it was before. The other case was that of a young man in.good general health, a carter, and therefore a good deal exposed to the weather. He attributed his throat affection to repeated colds. Springing from the false cords were two fleshylooking lobes or thickish flaps projecting inwards, meeting and overlapping each other in the middle line. A smaller similar growth projected forwards from the mucous membrane of the right arytenoid, at its inner edge. During inspiration these flaps were drawn downwards over the glottis, seriously obstructing inspiratiou. In forced expiration they were driven upwards, and mightt be seen to vihrate rapidly. The voice was rather rough but strong." The true cords were concealed by the growths. No operative procedure had taken place,: but their remoral would be attempted with the cutting forceps or laryngeal guillotine, probably the latter.

Spasmus Nutans.-Dr. Owen showed an example of this affection in a child aged nine months. When seven months old her head was noticed to more in an unusual manner. There were slight lateral movements, the face being turned from side to side, with occasional nutation. There was slight nystagmus. The child had cut two teeth during the past six weeks, and the gums over the upper central iucisors were swollen.
Paramyoclonus Multiplex.-Dr. Owen showed a case of symmetrical spasm of certain muscles of the trunk and face. The patient, a girl aged 13, first came under notice in 1883, with the following history and symptoms. There was no history of rheumatism. She was said to have had scarlatina ten years before, since which she had always had twitching movements, principally of the shoulders, but also of the face. During the past two years she had had spasmodic móvements affecting the upper part of the abdominal muscles. The diaphragm was distinctly involved; also the recti abdominis, sterno-thyroid, and erector spinx muscles. The twitching of the shoulders and of the face was said by the mother to alternate with spasm of the trunk muscles. There was partial control over the spasm of the abdominal muscles. The spasm of the muscles was in appearance exactly such as occurred from electric shock. There was no cardiac murmur, but the diaphragmatic spasm caused a respiratory puff, which, when heard at the cardiac aper, exactly simulated a mitral murmur. She liad been treated with large doses of arsenic, and with electricity. The affection had now (1888) existed fifteen years. The girl still showed the spasmodic affection of the abdominal muscles, but-in a much less marked degree.

Formation of Medio-Tarsal Joint.-Mr. Stannore Bishop explained, with the aid of diagrams and preparations, a view of the formation of the medio-tarsal joint. He showed by extracts from various authors that the prevailing view of this joint amongst - orthopredists was that of a transverse articulation passing straight across the foot at the level of the astragalo-scaphoid junction, and including the calcaneo-cuboid joint. The view he upheld was the more strictly anatomical one of a ball and socket, the ball being the head of the astragalus, the socket being formed by the scaphoid, as calcis, and the ligaments connecting them, the calcaneo-cuboid joint, being entirely, excluded. He suggested the following arguments as bearing out this idea: (a) The iconformation of the hones themselves. (b) The mode in which the rarious bones were united by ligaments. (c) The method of insertion of muscles into the various banes of the foot, and the especial absence of any muscular attachment to the astragalus. (d) The movements of the various segments of the foot upon one another. (e) The position of the various bones in certain deformities. If this should prove to be correct, a distinct modification of the shoes at present in use would become necessary.

## REVIEWS AND NOTICES,

On the Practical Valee of Wolffberg's Apparatts for the Quantitative Estmation of the Coloctr-sense. By B. Ilerzog. Inaug. Diss. Königsberg. 1857.

AFter reading this pamphlet, it is impossible not to agree with the conclusion of the writer, thiat Wolffberg's test as a means of differential diagnosis is practically useless. Wolfferg believes that when vision is impaired solely in consequence of an error in refraction the colour-sense fails in a defiaite proportion, so that for each degree of risual acuity there is a corresponding colour defect; when the rision is impaired from other canses, such as opacity of the media or affections of the optic nerve, the coloursense is impaired more than the visual acuity. , The colour-sense was estimated by the distance at which certain coloured discs were visible, and the visual acuity in the ordinary way. Tables were given showing the distances at which the discs should be visible for, ench degree of rision in hoth conditious. If these data were correct, it is evident that the test would euable one to say at once whether the defect in vision was due solely to an error of refraction or not. These results of Wolffberg have attracted some attention, since Foehm has published extensive statistics compiled from examinations made in Dr. Wolff berg's clinic, which appear not only to corroborate his conclusions, but to give even more definite results.
Ilerzog points out that the mode of examination is one which is opeu to many sources of error. In the first place, he asks, fre
we to require the discs to be merely sech as ubjects, or is their colour to he recognised? Then it is obvious that if, as Wolffberg reeommends, the discs are gradually withdrawn till they become invisible, memory and imagination render it extremely difficult to fix the exact moment of disappearance; and this difficulty is ly no means entirely removed when the test is rerersed. He, moreover, found that many normal emmetropic eyes could not reeognise the dises at the prescribed distances, and that some eyes which were not normal, and had subnormal vision, could recognise them at the distance proper to a normal eye. Although in most cases of astigmatism the formsense was impaired to a greater extent than the colour-sense, this was not sufficiently constant to render it available for differential diagnosis.

Dr. Herzog's pamphlet is written, with every appearance of strict impartiality, lis facts are clearly stated, and have evidently been collected with great care, and it is impossible not to feel that he has good ground for the conclusion that "Wolffberg's test method does not render superfluous a single test previously in use."

The Passage of Air and Feces from the Urethra. By IIArieison Cripps, F.R.C.S., Assistant Surgeon to St. Bartholomew's Hospital, etc. London : J. and A. Churchill.
The anthor has had under his own observation three patients suffering from that most miserable complication which forms the title of this monegraph. In two of these cases the primary disease was cancer, in the third the canse of the passage of air and freces was obscure, and some slow growing tumour might hare existed in the neighbourhood of the parts concerned. A tumour was detected in the right breast.

Mr. Catpps has avoided an error common amongst men who rely too much on large personal experience. Relatirely speaking. three cases of the rare condition in question represent a large experience. He admits that his cases naturally lead him to believe that communications between the intestine and the bladder are generally the result of malignant disease. But he demonstrates that the result of further research, extended to the records of other surgeons, shows that entero-vesical fistule are more commonly established by inflammatory processes.

Mr. Cripps has collected 63 cases, and when the series are subdivided according to the ascertained causes of the abnormal communication between the bladder and intestine, the following statistical information is obtained. Cases where the cause was inflammatory, 45 ; cancerous, 9 ; tranmatic, 2. There remain 7 cases where the cause was unascertained. The author's subdivision of the "inflammatory" group is of high interest to the surgeon. Excluding 16 from the entire 45 , abscess aecounts absolutely for 15 , stricture for 8 , ulcer (intestinal rather than vesical) 4, stone 2. The 63 cases are also grouped thus, according to the seat of the fistula on its intestinal aspect, dedncting 6 " unascertained." The-fistula was found in the rectum in $\mathbf{3}_{\overline{3}}$; colen, 15 ; small intestine, 12 ; colon and small intestine, 5 . The passage of air and faces into the bladder is dangerous as well as distressing alike in the inflammatory, the cancerous, and the ather cases. Putrid urine sometimes finds its way into the bowel (though this accident is not the rule), and other obviously unfarourable conditions break down the patient's health. Hence 22 out of ' 30 "inflammatory" cases in which a clear life-history was given, and where no snrgieal interference was deemed advisable or found practicable, cnded fatally.

Mr. Cripps is not in favour of exploratory abdominal section, for, after examining museum specimens, he has come to the concln-, sion that adherent intestine could not be safely detached from the bladder. He strongly advocates coletomy, and maintains that the reseending colon should be chosen, after a very close examination of the parts combined with careful consideration of the symptoms, for should the communication inrolve the cecum or small intestine, the operation weuld be worse than useless.

The author's analysis of the entire series is most instructive, and the cellected eases, as originally reported, form a raluable appendix. Mr. Cripps appears to have established two facts. First, entero-resical fistula is generally of inflammatory origin. Secondly, the primary disease is more frequently situated in the bowel than in the bladder.

Ture Clothworkers' Company have sent a donation of $£ 25$ to aid in maintaining and extending the work of the Parke Museum in practically teaching the laws of health.

## NOTES ON BOOKS.

The Practice of Medicine and Surgery applied to the Diseas, and Accidents incident to Women. By W. II. Brfonn, A.M. M.D Trefessor of Gynecology in Rush Medical College, etc., and Ile.ir T. Byrorn, M.D., Surgeon to the Woman's 110 spital of Chicag etc. Fourth Edition. Revised, rewritten, and very much enlarge With 306 illustrations. (London: J. and A. Churchill. 1884.) Dr. Byford's new edition contains some good chapters on th anatomy and physiology of the female organs, examination of th pelvis, tulial disease, and other subjects to which great attentio has lately heen directed by practical and scientific authoritio The authors (for Dr. Byford informs the readers that $D$ Henry Byford must practically be considered an author this edition) treat the subject of tubal inflammatory diseas in a rery temperate and satisfactory manner, and strongl condemn indiscriminate operating. Some rare but importat tubal diseases, recently described by operators 'and pathologist. pass entirely unnoticed. Especially commendable are th passages on Apostoli's electrolysis.' In noting the alleged electr: Iytic action of the current, the authors obserre: " Just how th: can occur to any considerable depth in liring tissue withor destroying its life along the course of the current, any more tha the stomach can digest itself, would however seem incompr hensible." They warn the readers that "the dangers of this treal ment are great, unless the operator is thoroughly competer and extremely" careful. Howerer," they continue, "a minut study of the technique as taught by Apostoli, renders his metho a perfectly safe one to employ. But the puncture of the tumou from the abdomen must always be attended by some danger, an also requires the use of an anesthetic.". Thus do the Drs. Byfor impartially treat one of the most important undecided question of contemporaneous gynæcology.

North London or University College Hospital. Report of th. Surgical Registrar for 1886. (London: printed by J. Truseol and Son. 1857.)-Though dated December, 1887, the report of th Surgical Registrar for 1886 does not reach one's hands until th second quarter of 1858 . The delay is doubtless inevitable, as th volumineus mass of observations and statistics contained in th volume has to be compiled by an officer atherwise very muc occupied by the daily routine of the wards. We have in prerion years described the excellent arrangements of these reporte, an Mr. Bilton Pollard and his assistants have fully maintained th high standard ef excellence reached by previous issues.

Mechamis and Experimental Science, as required for the Ma triculation Examination of the University of London. By Evw 1 R Avelivg, D.Sc. (Chapman and lfall.) - Mechanics and exper, mental science nor replace the natural philosophy and chemistr heretofore required as the "science".subject of the matriculatio examination of the London University. This is a carefull arranged textbook by an experienced' hand, plamned to meet th requirements of the new examinations: Indented side-heading give the key to each paragraph, and enable the student reading it classify and test his knowledge as be gees on; or, when reverin to his earlier reading, examples and problems are furnished fc solution, and a goed set of examination papers (taken.from thoe actually set) is supplied at the end of the book. It is a the roughly practical textbook for stndents "working up" for exs mination.

Galloway's Fundamental Principles of Chemistry. (London Longmans.)-This book aims-and very successfully; as $\pi$ think-at teaching the fundamental principles of chemistry b a netr method. The langunge of the scienee and the method d expressing chemical changes are taught by a series of progressir exercises, so that one early learns to attach due meaning to th materials and processes with which chemistry deals; The prine ples both of chemical physics and pure chemistry are taught b examination questions and exercises, which are well selected, an are chosen largely from the papers of the Lendon Unirersity an other examinations. The book is very complete, tery interesting and very practical. It appears to us to be based on a very soun view of the way in which students are most likely to acquir knowledge clearly and soundly, and it will, we think, be popule and successful as a textbook.

# GENERAL COUNCIL ${ }^{\circ}$ <br> MEDICAL EDUCATION AND REGISTRATION. <br> SESSION 1858. <br> Tuesday, May 22nd. <br> Joun Marshall, F.R.C.S., F.R.S., President, in the Chair. 

New Members.-The following gentlemen -were announced to have been appointed members of the General Medical Council: Dr. George Yeoman Henth, as representative of the University of Durham for five years from December 13th, 1887 ;'and Dr. Hector Clare Cameron, as representative of the Faculty of Paysicicians'and Surgeonis of Glasgow for five Jears from April 2nd, 1888.
President's Address.-The Presidesnt pointed out that the vacancy left by the expiration of Dr. Matthews Duncan's tenure of office as a Crown nominee had not been filled. He announced that two trustees had been appointed, of which he (the President) was one. He mentioned that the Executive Committee had sanctioned the registration of 202 additional foreign medical qualifications, and that two notifications had been received from the Privy Council relating to a separate Colonial Register for New Zealand and Ceylon. In reference to the "recent'adoption of very harsh proceedings " in Switzerland against certain medical practitioners duly qualified to practise in this country, but residing in the Swiss Republic in order to attend to the wants of their own countrymen, the President assured the Council that the interests of the profession were thoroughly comprehended and would be carefully guarded by the Privy Council under the existing law. He observed that the formation of either a colonial or a foreign Register:'was not yet within measurable' distance. ${ }^{1}$ Four cases of misemployment of unqualified assistants and four of "corering" had been submitted to him by the Registrar, in only one of which did the evidence appear to justify an inquiry. He pointed out that a misapprehension existed as to the rôle of the Council, which was purely judicial, all evidence in aupport having to be brought to it from without. He then alluded briefly to the programme of busivarious committees. These reports, however, were at present from fidential, pending communication with the sereral inspectors as to certain modifications, previously to their being transmitted to the respective bodies concerned. He suggested, therefore, that the reports in question should be referred to a small subcommittee for that purpose. It appeared that in no report yet received was "the standard of proficiency required from candidates" called in question. In conclusion the l'resident announced that then and on future occasions, committees, with the exception of the Busihegicommittee, would be re-elected at the close instead of at the beginning of the session. He looked forward to a brief but inOn the motion of session.
Smon, a mote of thanks to the President for his addr Johs agreed to, and the adis to the President for, his address was minutes.
Dr. Glover, while expressing his regret that the reports were not to be laid before them at present, admitted that it would scarcely hare been possible. Alluding to the President's statement that the reports were not to be presented to them in their original shape, he deprecated any modifications in riew of the reports of previous risitatious, on the ground that they would be more interesting as they stnod.
Dr. QUAIN having pointed ont that, the President's address wins not open to discussion, the matter was allowed to drop.
Portrait of Mr. osephi Hehry Green. -The Passident read in letter from Sir Ilenry Acland, in which he begged the Cotancil to accept the donation of the portrait of the second Tresident of the Council, Mr. Joseph IIenry Green, as a companion to the portrait of Sir Benjamin Brodie, the first l'resident.

Dr. Quain proposed that the letter be entered on the minutes.
Sir John Simon, in a few graceful and eloquent words, expressed the pleasure he felt at the sight of the portrait of his illustrious master in former years. Ho claimed for Mr. Green the initiative of the great principles of medical reform, especially as concerned the question of preliminary education.

Business Committee.-Mr. Wherlhoces (Chairmañ); and Drs.

Strutheis and Aqcidad Smirr were appointed members of the Business Committee.
Reception of Tables of Results.-Dr. Steuthers mored that the following tables be received and entered in the minutes; Professor HUMPHRY seconding: 1 , showing results of professional medical examinations during 1887 ; 2 , ahowing results of preliminary examinations during $1887 ; 3$, showing exceptional cases in regard to length of courses of study during $188 \% ; 4$, showing results of professional dental examinations during 1887; sh, showing results of competition for commissions in the department of the royal nary; 6 , showing results of examinations by the College of Preceptors.
dr, AQULLLA Swith called attention to certain discrepancies on the part of the tables referring to the M.D., and in view of the fased by information as to the preliminary examination was rethe Educational Codies, he mored that the report be referred to
Sir Dxce Duckworth called attention to the fact that in the examinations for the M.D. of the University of St. Andrews, there appeared to bare been no rejections.
Mr. Petirgrew explained that in reality three out of twelve candidates among the older men had been rejected, and there had been two rejections among the younger candidates.

The Registrar observed that the tablea had been drawn up in accordance with the latest information received from the respective neces, but that in consequence of the large number of applications under circumstain such information, the printing had been done Mr. Macsintances of great difficults.
ntitled cational bodies, and whether such replies as "various educa"cannot be given," etc., were considered saties as impracticable, that innless the Council were in n position to risfactory. He urged tion to be given, it was infra dig. to ask for it. He suggestormaa remonstrance should be addressed to tbe bodies who had fail to comply with the request of the Council for information.

In reply tojpr. Heron Waison, the Regismair explained that no returns had been received from the Army Nedical Department.

Dr. Glover asked for information as to the examinations of the University of Durbam for practitioners of orer fifteen years' standing. He said that there were no examinations of greater interest to the profession generally.

Sir Walter Foster objected to the entry upon the minutes of reports which had been shown to be full of inaccuracies.

The Registrar explained that by so doing the necessary corrections were obtained from the various bodies, and were then inserted in the revised minutes.

The Presidest, in reply to Mr. Macxamara, said that the Council had no power to require the information in question to be given.

It was then resolred that the foregoing talles, subject to corrections, be receired and entered on the minutes.

Report of the Pharmacopœia Committee.-Dr. Quais, in moring the adoption of the report of the Pharmacopaia Committee, congratulated the Council on the fact that there was a protit of £1,209 8s. 2d. on the Phamacopoia. A report received from Professor Attfield on the Pharmacopaia for 1587 had been printed, and a copy would be handed to members. Dr. Quain then alluded to the reply of the Lord President of the Priry Council to a letter from the solicitor to the Medical Comeil on the subject of the Pharmacopoia being the standard anthority for the composition and preparation of the medicines therein described, which had been considered by. the Committee, and is consequence of which the; Committee recommended that the solicitor be requested to prepare a statement showing the Orders in Council or clanses in lets of Parliament which relate to the subject. He mentioned that it had been decided by a magistrate that there was no authority to make any work a standarl of the strength of drugs, and that, in consequence, it was possible to sell laudanum connot contain any opium quantity of opium and paregoric. Which did permitted fatal opiumat all. He pointed ont that, if this were permitted, fata accidents might easily arise, as, for instance, with to a child without danger, whereas the same quantity given preparation from anotlier alienist would contain a dangerous dose of opium for a child.

The report was ordered to be reccived and entered in the minutes.

Various reports were then ordered to be received and entered in tho minutes.
An "Appointed Day" for Ceylon.-A communication from the Lord President of the Privy Council, naming January 1st,' 1888,' as the "appointed day" under the Medicil Act of 1886 for the colony of Ceylon was received and cntcred on the minutes:

Employment of Unqualified Assistants.-The Registrar read a report by the Exceutive Committee bearing on the circumstances under which a registered medical practitioner would render himself liable to the censure of the Conncil in reference to the employment of unqualificd assistants. In' the opinion of the Committee:

A registered medical practitioner would render himself liáble to the censure of the Jedical Council in case of the employment of an unqualifled assistant in the practice 'of medicine, surgery, or midwifery on behalf and for the benefit of such'registered practitioner, either in complete substitution for his own services, or under circumstances in which due personal sipervision and control are not, or cannot' be, exercised by the said registered practitioner.
The Executive Committee furthermore took the opportunity of stating, in reference to the procedure known as "covering," that in its view a registered practitioner corers an unregistered person when he does, or assists in doing, or is party to, any act which enables such unqualified person to practise as if he were duly qualifled.

In submitting to the General Council this report on the reference, the Executive Committee Fould, however, call attention to the following resolution passed by the Council on April 2Ist, I 883 (Vol. XX, p. 91 ) :-
"That the Council ask for legislation to the effect that any registered practitioner practising for gain, who knowingly and wilfully deputes a person not registered or qualifled to be registered under the Medical Act to professionally treat on his behalf, in any matter requiring professional discretion or skill, any sick or injured person, shall be subject to the same, legal liabilities as a person who falsely represents himself to be a legally qualified medical practitioner: but with special proviso that such enactment shall not hinder any duly regulated training of pupils in medical schools or otherwise by legally qualified practitioners, nor the use of trained pupils in partially treating the sick or injured under the direction, supervision, and responsibility of such practitioners, nor any legitimate employment of nurses, midwives, or dispensers."
On the motion of Sir Willian Turser the report was ordered to be receired and entered on the minutes.

Registration of B.A.O. Degree.-Communications in regard to the registration of the B.A.O. degree were received and entered on the minutes, to the effect that, in virtue of a resolution passed on April 28th, 1888, by the Irish Branch Council, the Registrar Wras directed to remove from the Register any degrees of B.A.O., which lie may have registered.

Appointment of Additional Eraminers to the Apothecaries' Society. -Mr. Brodenell Carter, in asking the Council to sanction the appointment of five examiners instead of three, said that the experience of the last twelve months had shown that the surgical department of the examining board was somewhat uudernanned. He claimed that the conduct of the examinations, as shown by the tables before them, was fully on a level with that of the other'examining boards of the country. He then compared these results with those of the Conjoint Examining Board, and showed that at the final examination in surgery of the Conjoint Board, 84 werc rejected and 123 passed ( 1 rejection to 1.46 passes), as against 79 rejections and 113 passes ( 1 to 1.5 ) at the Apothecaries' Society. Grouping together medicine and midwifery, the results were 1 rejection to 3 passes under the Conjoint Examining Board, and 1 rejection to 2.3 passes under their own Board, so that, if anything, the figures were in farour of their own examinations.

The motion was seconded by Sir John Simon, and agreed to.
Sir Wrllias Tcraser expressed a hope that the Examination Board of the Apothecarics' Society would improve their means of examining candidates in anatomy, their present means being altogether inadequate.
Mr. Brudenfll Carter then asked that Messrs. Makins, Walsham, Andrew Clark, Arbuthnot Lane, and W. Adams Frost be appointed surgical examiuers in virtue of the foregoing resolution. IIe alluded to the proposal to appoint Mr. Frost as an evidence of the desire of the Society to obviate the reproach that there was mone on the board to examine int ophthalmic surgery.

A discussion ensued as to the propriety of receiving the request in this form instcad of |by a formal letter from'the Society of Apothecaries; but on the President pointing out that it would he difficult to refuse, sceing that the request had been admitted by the Executire Committee, the motion was ultimately agreed to. The Council then adjourned at 4 P.N., there being no other business ready to be proceeded withoip it

## Ẅednesday, May \&3rd.

John Marshall, F.R.C.S.; F.R.S., President, in the Chair.
Report of the "Elducation Committee.-The Council having resolved itself into Committee, Dr. Strutiters moved the adoption of the Report of the Education Committee. He reriewed the report in question, and pointed out certain differences in the curriculum insisted on by the various licensing bodies, insisting in particular on three points of contrast.. First in regard to the four years' study which all required, 'The English and Scotch schools only required attendance for three, Winters aud two summers, whereas the Irish schools required four complete years. The next point was a very important one, bearing, as it did, on a considerable period of time being required to elapse between the examination in anatomy and physiology, and the final examination. In that respect the Scotch schools were very much behind the English and Irish schools. This regulation provided that the last two years should be devoted to practical study.: : Thirdly, as regarded the attendance of students on cases outside hospital , work, in which respect the Scotch schools seemed to be in advance of the others. He added that he thought examiners required too much from candidates, and expressed the opinion that the examiner should be a younger man, since older men were apt to expect a knowledge which could only come with experience.
Mr. Wheel ${ }^{\text {Mouse, referring to the first recommendation em- }}$ bodied in the report, "That all candidates for the final examination be required to produce evidence that they have attended for six months the practice of a public dispensary, or the outdoor practice of a hospital, or have acted for six months as, assistant to a registered practitioner," observed that it was generally agreed that the present system of, medical education was delicient in minor but rery important respects. He alluded to the adrantages of the old system of pupilage, but admitted that the Council were very unlikely to sanction any return to that system, although they were very anxious that the benefits thereof should be acquired by the student. He said there wa's a vast amount of clinical material of which no educational advantage was taken, in the dispensaries, etc. If this could be utilised, then the student would obtain the benefits without the inconveniences. He said that if the examining bodies could be induced to make provision for these matters to be learned, and abore all examined in , the problem would to a great extent have been solved. Ile then moved the adoption of the first recommendation, the motion being seconded by Dr. Chambers.

Mr. Mitchell Banks denied that the adrantages of pupilage could in any way be held to compensate for the loss of time which it would involve. Pupilage would hare to be done cither before, during, or after the usual 'curriculum. If' before, ho doubted whether much useful information would be gained; he did not see how it could be done during the curriculum, except in the holidays; if at the end, then it would mean an extension of the curriculum. He could not see how it was to be superintended, and it would consequently be done in a perfunctory manner. He alluded, in terme of commendation, to the system whicl obtained in Scotland, where in the dispensaries students risited the sick in their homes and learned how to prescribe. He regretted that nothing of the kind existed in England.
Sir John Srmon asked that it should be emphasised that something additional was intended to what already existed.

Mr. Brumenelt, Carter suggested that the recommendation should be limited to England and lreland.

Mr. Mrchell Banes thought that the paragraph did not render clear what the Committee required, as to students attencling home practice.

Sir John Simon asked that the words "under proper supervision," should be added, and also the word "authorised" before "public dispensary," "hospital," and "registered practitioner."

Dr. Banks saw great difticulties in carrying out in Dublin any sjstem of visiting in connection with, the dispensaries, He said that, so far as the assistantship was concerned, there was no sucli person as an assistant in Ireland.

Dr. Glover said that, if the system of gorernment by committees was to continue, the least that could be done was to supply early copies of the reports, which in the present instance had been received too late to admit of serious consideration. He proposed, as an amendment, that the word "pupil" should be substituted for that of "assistant." . Pupilage was already recognised by the Royal Colleges, and could therefore not be open to serious criticism. Ile observed that the medical officers of dispensaries were general practitioners, and therefore, if they could be trusted to teach, so might any general practitioner. IIe denied that the diseases, which it was desired that the student should learn to recognise were in any sense minor diseases, as, for instance, measles, whooping-cough, etc.
Mr. Macmamara said that the sclieme sketched out by Mr. Banks would never be tolerated in Ireland. Before attempting to legislate, for Ireland, Englishmen and Scotchmen should endeayour to know something about the condition of things there. Horeover, the hours at the dispensaries and hospitals were the same; the student could not be at both.. He said there was an outdoor department or dispensary attached to every hospital. As to the assistantship, the assistant in Ireland was a mere dispenser.
Dr. Letshman cordially approved the practice of attending home patients, but admitted that it was not always possible. The attempt had been made at Glasgow, and had failed, and it was not worth while to pass a resolution which it might not be pos:ible to enforce.
Dr. Bruce seconded Dr. Glover's amendment, which was agreed He said that the only way to ensure the system being properly carried out was to insist upon it at the examinations.
Sir Georae Macleod observed that the scheme for house visiting in Glasgow had, been strongly opposed by the practitioners, who derived their fees from the very class who would be risited, and they could not wish to effect the ruin of these practitioners. Another difficulty arose with reference to teachng:students on the subject of fevers, the interference of the janitary authorities having put a stop to that.
Dr. Heath observed that the pian of house visitation was in rigour in Newcastle.
Mr. Teale said the Council were getting into a dilemma, and would either fall foul of Ireland or confine themselves to what had Iready been done.
Dr. Banks said that not 50 per cent. of the candidates at examiaations had ever. seen a case of scarlet fever. He was unable to see any means of giving effect to the clause in question.
Mr. Brcdenely Carter asked for a definition of what was meant by "public dispensary," of which there were several cateyories. He considered the "registered practitioner" part of the lause the most satisfactory, provided that precautions mere baken to ensure that the person authorised was in a position io impart the requisite knowledge. He also advocated naming definite period for the pupilage.
Dr. Moore deprecated any measure which would be at the axpense of sound hospital training. He claimed that in Ireland there was every facility for the student to familiarise himself with the commoner types of disease. He objected to the idea that the general practitioner was competent to teach.
Rer. Dr. IIAUGHTON expressed his sympathy with the object of :he Committee; but the plan would be altogether inadmissible in Ireland. He suggested that a register should be kept of the attendance of students at the dispensaries attached to hospitals.
Professor IIUMPHRY was opposed to anything being added to the burdeu which the student was already called upon to bear, especially if it tended to interfere with hospital practice. The zases seen by the student at the hospital were of a kind he might no meet with elsewhere. He thought much more importance should be attached to a proper knowledge of the principles of medicine than to mere practice. Home risiting might be good for the student, but he doubted whether it would be equally advanangeous to the patient, and he quite understood the reluctance of the authoritics in Ireland to allow the dispensaries to be used for, sducational purposes.
Sir Dyoe Duckworth declined to helieve that the men they. surned out at the present time were one whit below those produced under the old systen. They conld not expect to turn out a man fully equipped in every branch of the profession and provided with the experience of a practitioner of ten years' standing. IIe said that the answers of young men at examinations showed them, as a rule, to be well prepared practically. He then alluded in very glowing terms to the system of the out-patient department at St.,

Bartholomew's Ilospital, a better system than which, he opiued, could not be conceired.
Dr. Hebon Watson said that the decision of the Committec was not the parting of the.. roads, hut the meeting of the ways. He thought that if recommended by the Council the rarious bodies would consider the best method of giving effect to their wishes, and they would be left perfectly free to adopt whatever plan they might think fit. He suggested that the result of the present system had been to gire an undue preponderance to the scientific element of medical education, which might, he thought, tend to remore the student from the mere human sentiments which should accompany him into the houses of the sick poor. What students required was to be broken-in to deal with patients in a humane and considerate manner.
Sir Willian TURNER asked in what form the recommendation was to go down to the various bodies, and said that the question ought not to.be looked at apart from prerious recommendations. He suggested that the present recommendation should be made an extension of the one which they had already made, so as not to appear to be something new.
Dr. Struthers said that when a student went as pupil to a practitioner there was a double advantage, for if the pupil learned something, the practitioner was also taught things he would not otherwise have known.

Dr. Glover, in reference to the assertion that all practitioners were not fit to teach, said that neither were all hospital surgeons and physicians. He thought they might fairly leare the student the choice of his instructor. As to the additional burden thereby laid on the student, he suggested that they might lighten it in other directions; but in any case it was cruel to send a man forth who was ignorant of subjects which would go to make up firesixths of his future practice. He said he was unable to follow Sir Dyce Duckworth in his eulogy of the out-patient departments of hospitals, and he denied that every variety of disease could be studied there. If the employment of students was not always to the advantage of the patients at their homes, neither was it at hospitals, for example, in a case of pneumonia, which had to be examined by a number of students.
Sir Dyce Duceworth said that the list of diseases met with in hospitals practically only excluded scarlet ferer and smallpox.
The President said that No. 15 of the original recommendations contained a cover for everything that had been suggested. It was then moved by Mr. Wheblhouse and seconded by Dr. Chaspers that the recommendation be adopted by the Council. Sir Wh. Turner objected very strongly to the insertion of the word "recognised" before "registered" practitioners, which he thought invidious and unnecessary.
A discussion ensued as to the propriety of inserting the word "recognised," in which Mr. Bredenflel Carter and Dr. Heron Watson took part.
The President explained what was intended by the insertion of the word "recognised," and said that it was very important that they should have something more than merely "registered practitioners." The practitioners ought to have not only the skill but the opportunities of teaching.
After some discussion, the recommendation was proposed as follows:
"That in addition to the requirements at present in force with respect to hospital attendance and duties, all candidates for the final examination be required to produce eridence that they have attended, under proper superrision, for sis months the practice of a recognised public dispensary, including the visitation of patients at their own homes, or the outdoor practice of a recognised hospital, or have acted for six months as pupil to a registered practitioner, either holding such a public appointment or haring such opportunities of imparting practical knowledge as shall be satisfactory to the examining bodies.."

The motion was then agreed to nem. con.
Eramination in "Ferer." - Rev. Dr. Haceutos then rose to propose the adoption of Recommendation Mo. 2:
"That all candidates for the final examination be required to produce eridence of haring studied the subject of 'ferer' in its rarions forms, as far as local circumstances will permit, for a period of not less than thrce months, under recognised clinical instructors."
He claimed for the University of Dublin that it was the first body
to require a certificate of special attendance on ferers to require a certuficate of special attendanse on ferers. Their example had since been followed by the other bodies in Ireland
with the hest possible results. He protested against the idea that sanitation was shortly to render an acquaintanco, with fevers unobtainable, and urged that by enabliug an adult population to grow up without having had any of the "fevers" the way was opened to terrible subsequent visitations. Ile said that students would not go to the fever hospitals because the teaching there was not of a very high ortler.

Dr. Basks said that all the cxamining bodies in Ireland required this course of study. IIe said that students avoided the ferer wards, and for this reason the course had been mado compulsory. He seconded Dr. IIaughton's motion.
Dr, Joore doubted whether three months was sufficient to learn much of fever.
Sir Dxce Duckworre pointed out that practically only scarlet fever and small-pox were excluded from the London General IIospitals.

Dr. Glover asked whether the "recognised clinical instructor" might be a general practitioner.
The discussion was then adjourned.
On the mation of Sir William Turner, the report from the Dental Committee on the ease of George Thomas Ockleford Crocker tras then received and entered on the minutes.
The Council then adjourned.

## Thursday, May 2ith,18s8

John Marshalfo F.R.C.S. M.R.S., President, in the Chair. Case of Mr. Richard Percy Woodroofe. - The meeting. having heen opened, Mr. Richard Percy, Woodroofe, Licentiate of the dpothecaries IIall, Duhlin, 1884, was summoned to appear to answer a charge of unprofessional conduct, iuasmuch as he has acted as corer to Jahn Stainford Walton, an unqualified practitioner of Northallerton, in Yorkshire, thereby enabling him, to practise as if he were legally qualified. The complaint was made to the Council ly Ar. Lumley; the medical officer of lealth, and it was on this information that the summons was issued. It'appeared that the father of the unqualified practitioner was a medical practitioner and coroner for the North Riding of Yorkshire. He died in 1874, and since that time Walton lad carried on the practice, without a qualification, being aetually a student at the Newcastle Sehool of Medicine and coroner for one of the Ridings of Yorkshire.

The Solicitor to the Council (Mr. Farrar) read the declaration of Mr. Limmles, medical officer of heath, bearing on thic facts alleged. Mr. Farrar pointed out that the declaration was in itself jreme facie vidence, seeing that \$r. Lumley might be prosecutod for perury theteupon. The Conisill could not examine witnesses on gath, and, therefore, must deeide What credence to attach to the usidence. The whole question for the Convicil to decide tras whether Walton had earried on the practice for thirteen years or sa as an- unqualified practitiouer, and whether Woodroofe had acted" as his coser since he had been acquainted with Walton. He (Jer, F'arrar) had hrought the gist of the matter before the (Gouncil in an impartial manner, and it would now be for the Conncil to hear the respective parties. A'copy of the deelaration had been sent to Mr. Woodroofe.

The Preshbeve called upon Mr. Woodroofe to say whether he had any reply to make either himself or through his Counsil.
The Kev. Dr. IVachutox thought that a's Ir. Woodroofe liad heen eliarged with having signed ecrtifieates of death in cases which he liad not atteniled, the council nught to have names and dates of casos put before them. "1t it strod, the chenrye was of the Faguest naturt, and the Council ought to lave jarticulars hefore it.

In reply to the Solicitor for the defeudant, Mr. Lexrex exaid as he was medieal ofticer of health he hat a wrekly return of the deaths in his district, and lre found the certifichtes' of casees atternded by Walton liad been exelusively simed by Woodroofe for the last two years. Ile had not brquglat those najers with him, but if the Council desired be would furnisl them.
In reply to the Rev: Dr. Hatcitrox, who ugain desired to hare names and dates, Mr., LTMLey said he had not been asked to furnish such particulars.

Jir, Hunt Macrexare (Standing Connsel) submitted that it wias not sufficient to give certincates signed hy Mr. Woodroofe.
Mr. Lemmesy alid that his contention wiss that Mr. Woodroofe Fil NH+ these cases for Mr. Waltan, not that he signed them without having pevionsy spen them. Mo would prohuce particulats

The Solicitor for the defendant asked Mr. Lumley if he lad any further specifle charge against Mr. Woodroofe.
Dr. QUAIN שas of opinion that the matter ought to be adjourned until ilr. Lumley could produce his proofs.

After some remarks from Dr. Glover, Mr. Lumley complained that he had not yet had an opportunity to open his case. If allowed he would prove his case to demonstration.
The President advised him at present to answer questiona simply Yes or No.
Sir W. TTRNER was in favour of adjourning the matter.
Mr. Muir Mackenzie submitted that they must proceed in order. It was right that Mr. Woodroofe's solicitor should ask questiqns of Mr, Lumley on his declaration.
After some further questions had been put by the defendant's solicitor, Mr. Lumley zaid, in reply to Mr. Mackenzie, that the surgery was attached to the house in which Mr. Walton lived and in which Mr. Woodroofe was a lodger. He had seen certificatea signed "Walton and Woodroofe." The house was owned by Mr. Walton. Mrs. Walton, the mother, had not been there for fourteen years. He identified the writing of the notification in a case of fever signed "Walton and Woodroofe" as being that of Walton. Mr. Lumley then went into a number of instances of alleged improper practice by Walton, going back as far as 1876 . He prodnced yarious bills sent out in Walton's name and receipted by Woodroofé. They were known as "Dr. Walton and his assistant."
Some discussion took place as to the evidence showing that Walton practised, which Mr. Lumley asserted was to his personal knowledge. The name of Woodroofe did not appear in counection with the practice. Mr. Lnmley said he had no witnesses to call, because he had been told that it was not usual.
The Eolicitor for Mr. Woodroofe (Mr. Waistell) then read part of a declaration setting forth circumstances which had canaed a great deal of ill-will between the parties. He said that in no case had a certificate of death been given unless Mr, Woodroofe had been actually in attendance. He contended that his client had in no sense acted as a cover. The name of Walton on the bills was that of the elder Walton, who died in 1874 , the practice being carried on for the benefit of his widow. His client knew nothing of the circumstances when he came to Northallerton, and he snid it was very hard that he should have been arraigned on such a vague charge. He contended that no case had been mude out against his elient. The money was received on behalf of Mrs. Walton, to whom the house belonged, the surgery heing dotached.

Mr. Wondroofe then answered certain quedtions.' In reply to Mr. Pettignew he, said that he acted as sole manager for Mrs, Walton. In reply to Dr. QUA1N as to what his position really Was, he said he merely went to take charge of the practice for the widow. He said he received. a salary, bnt Mr. Maokenzie pointed out that there was no mention of a salary in the agreement. Ire had agreed to take the salary in liell of a commission. He received the money and gave it to Mr. Walton for hia mother. He had never seen Mrs. Walton. Ile kept nolstatement of accounts of moneys received and lianded over.
Mir. Woodroofe was closely cross-examined ${ }^{7}$ as to his alleged position of manager to Mrs. Walton.

In the continued cross-examination Mr. Woonzoofe said that the agreement was drawn up'when he went as manager to Mrs. Walton, but it was not reduced to writing till a year afterwards.

Mr. Murp Mackenzif: I thought the negotiations for the agreement took place before you went?

Mr. Woodroofe. So they did. It was drawn up but not signed.
Question: "On' what terms did yon go for the first year? Answer: I went as manager for Mrs. Walton. I was on trial.
Question: Is that usual?-Answer: I believe it is. Gentlemen
in practice often go six months on trial.
Question: You are'a medical pratitioner?-Answer: Yes.
Question: And VIr. Walton"is your pupil?-Answer: Yes.
Queation: Whose pupil' was he'before jou went?-Inswer: I do not know.
Dr. Cameron: Have you any knowledge of how the buainess was kept rip between the death of the elder Walton and. the period at which' you became Mrs. Walton's manager? - l know nothing about the practice before 1 went thero.

Mr: Il'ir Mackranzm: Did yout know that Mr. Walton bad been prosecuted by the Apothecaries Society? -Ansmer: I did not know anything about it.

Mr. Murn Mackingee : What partieular part does Mr. Walton take in'thisforscticepilAnswer: He is/ my pupil, and ho goes anid
es the patients. I did not know that there was anything wrong Question: Does he go to see patients in the first instance? ie does sometimes, but not always.
Question: Does he attend all his lectures?-Answer: Yes. Mr. Mutr Mackenzie: He never told you he had been proseated by the Apothecaries' Society?-Answer: He never ld me.
At this juncture Mr. Woodroofe said that he had withdrawn om the practice, and did not intend to go back to it again. He jthdrew the moment he was summoned before the Council. He ot frightened.
Question: Did you know that it was contrary to the rules of the ouncil?-No, I did not know it was contrary to the rules; and hen I found I was doing wrong I withdrew at once. The defendant apologised humbly for the error into which he ad fallen, and said he should not have done it if he had known at it was wrong.
Strangers were then requested to withdraw, and the Council roceeded to deliberate in prirate.
Strangers haring been readmitted after two hours' absence, the resment, addressing himself to Mr. Woodroofe, said that the ouncil had given every attention to his case, and had considered at great length. He informed Mr. Woodroofe that, in the pinion of the Council, he had been guilty of the offence alleged gainst him ; further, that the Council had taken a very merciful iew of the circumstances of the case, and, in view of his exressions of contrition and his promise not to repeat the offence, ad decided not to proceed further therein, beyond request-
their President to convey the expression of their pinion. The President then dilated upon the gravity of he offence of which Mr. Wroadroofe had been declared guilty., He ointed out that it was an offence against the profession and gainst society, inasmuch as it enabled a man to act and appear $s$ if possessing a legal status to which he had no claim. He exlorted Mr. Woodroofe to be warned by what had occurred; and to roid any repetition of the offence, for the Council, he said, were rmly resolved to proceed against a practice which they regarded s constituting the gravest possible offence of which a professional aan could be guilty. He pointed out, in conclusion, that Mr. Yoodroofe had exposed himself to the risk of heing expelled from is profession with dishonour, and only owed his escape to the aerciful view taken by the Council of the circumstances of the ase.-Mr. Woodroofe, having expressed his gratitude to the Counill for their merciful consideration, then withdrew.
Case of George Thomas Ockleford Crocker.-A resolution was )assed enjoining the Registrar to remove the qualification of L.D.S. Glasgow from the Register as applying to Mr. Crocker, the aid qualification haring been withdrawn hy the College consejuent on an infringement of the College regulations against idrertising.
The Council then adjourned.

## REPORTS AND ANALYSES avi

## DESCRIPTIONS OF NEW INVENTIONS,

## in medicine, surgery, dietetice, and the

 ALLIED SCIENCES.
## SPLINTS FOR FRACTURE OF TIIE FEMUR

The two splints figured below represent two methods of treating fracture of the femur. The one is the extended straight position, with the stirrup extension obtained by the usual plan of strapping arplied on each side of the limb below the knee. The other is a cradle with a rise and falling pulley, and the stirrup extension applied each side of the thigh. A piece of wrought iron, reaching from behind the buttock to the toes, beut at any suitable angle, acts as a stay and back splint. Lateral holes are punched in the thigh part and in the lower part below the knee, for the purpose of pussing leather straps through. The limb may then be hung to the bars of the cradle. I have had holes punched in the iron which reaches behind the buttack. A band or strap can be passed through and around the trunk. I use a perineal band as well, for the purpose of fixity and to steady the splint to the limhs. In children up to seventeen years of age the straight splint or long Liston is the one generally nsed.

The first splint depicted I have found most' useful. It will do
for either leg, and by means of the sliding slot can be used for children or adults. As a rule it is better to have a smaller one made for children below sixteen years of age, but a full-sized splint may be used if the case is treated in a full-sized bed. It simply increases the length of the cord from the stirrup to the wheel at the end of the splint. The pulley I have attached to the splints, which is a distinct advantage, as sometimes it is impossible in private practice or colliery wark to fix a pulley to the framework of the bed. The wheel on the block at the end of the

splints is placed at an elevation for good traction, so that the heel of the foot is kept a finger's breadth off the bed, and the foot remains at a right angle and in good line. The limb is fixed either by means of the Scotch plan, the long sheet and pins, or by bandaging from above the ankle up. A good broad flannel spica. bandage should be always applied; it gives such support and steadiness to the limb when the bed-pan is used. Inother broad bandage should fix the trunk. I use a perineal hand smeared orer with zine ointment to avoid any chafing. This, if wished, can also be used as a strong counter-extension by fixing it to the sliding slot, pushing the slot upwards and fixing it with a screw. This should only be slightly made taut by the slot each morning. I trust for counter-extension by the bed being raised on blocks. The block at the end of the splint should be fixed down to the framework of the bed by two pieces of bandage. The splint is equally useful in hip-joint disease. The cradle is meant for cases of fracture of the neck of the femur or lower third of the bone, where the bent position is the more desirable to place the limb in, for comfort and readiness in the use of the bed-pan: this position is the best. The traction I have obtained by the stirrup strapping applied on each side of the thigl, the cord passing orer a rise and falling pulley, the latter fixed at any desirable angle. The shortening that occurs in cases of fracture of the femur will to my miud, entirely depeud on the character of the fractured ends, rather than any special mode of treatment. To obriate this, the extension method with stirrup strapping seems the best after the irritable condition of the muscles has subsided.
l have used the straight splint in twenty cases; Dr. Evan Jones, of Aberdare, and Dr. Brown, of Tredegar, tell me ther have found it rery useful in their works district. Ther are made by Jessrs. Arnold and Sons, West Smithfield, London.
R. Nelson Jones, L.R.C.P.Lond., M.R.C.S.Eng.. Swansea.

Tue saring of life effected sthrough the instrumentalitr of the Royal National Lifeboat Institution during the year 1887 amounted to no less'than 33,243 lives.

## THE MNEUMATIKON.

Tue instrument I have devised is a modification of Jefferies's respirator, but so adapted that a picce of lint, thoroughly impregnated with an antiscptic fluid, can be placed between two layers of wire gauze. It will be scen, therefore, that the instrument thus answers the double purpose of an inhaler and a respirator combined, warming the external atmosphere thus transmitted through its medium, and medicating it at the same time by means of the

antiseptic rapour. The patient is thus emabled to go out either by night or by day, fearless of evil resulta from cold, nocturnal fogs, and other such atmospheric contingencies, with the assurance of breathing pure air guaranteed to him by this antiseptic medium. I may add that the composition of the latter is not arhitrary, but may safely be left to the experienced selection of tivectitioner.
1 neea lant explain the illustration; it speaks for itself. The instrument ${ }^{2}$ can be obtained from Messrs. Down, Bros., surgical instrumidnt makers, of 3 , St. Thomas's Street, Borough, S.E., and sole manufacturers of the pneumatikon, under which name my inhaler-respicator is registered.
J. Brinduryy James, M.R.C.S.Eng., etc.,

President of the West Lennt Medico-Chirurgical Society.

## SCHACHT'S DIGESTIVE FLUZIDS.

Under the above title, Messrs, Giles Schacht aind Co., of Clifton, Bristol, hare brought out a series of very attractr: re preparations. "I'epsina Liquida" (Schacht) can fairly be claszed among the most elegant products of modern pharmacy. It is a thright, nearly colourless solution, entirely free from any disagreeable, odour, and with a pleasant taste. We find by experiment that it poinsesses the peptonizing power claimed for it by the makers; namiely, that one fluid drachm will, in from 2 ta 4 hours, render solublen, under proper conditions, I,000 grains of "comminuted egg albu'men." This term is employed by the makers to represent what is derfen. in the British Pharmacopaia as "hari-boiled white of lagg passed through wire gauze of 26 meshes to the linear inch, ajing
made of No. 32.2 brass or copper wire."
Pepsina liquidn cum bismutho is a combination of Schachtis well known liq. bismuthi, with "pepsina liquida." As a phars maceutical preparation it is all that can be desired, and it wils probably be found of considerable value in the treatment of cases in which want of digestive power is associated with gastries, irritation.
Another preparation named pepsina liquida cum hismutho cosi contains in addition one grain of soluble euonymin in each fluici rrachm. The remaining member of the scriea is pepsina liquidm cum cuonymin. This consists of one grain of euonymin dissolver $a$ in each fluid drachm of pepsina liquida (Schacht), and is likely tyo he useful in cases in which a hepatic stimulant. together with in food solvent, is required. Liquor hismuthi sedatirus (Schach in should rather be lermed a mixture than a solution, since eageh thuid drachm contains, besides pepsinn liquida and liquor $h$ ismuthi, $\eta^{3}$ grain hydrochlorate of morphine, 2 minims of diluyte lydrocyanic acid, and 5 minims of tincture of nux romica. filli the above preparations are miscible with water, and form withill it
permanently clear solutions.

## THE PHARMACOPGEIA AS A STANDARD.

An interesting question is raised by Professor Attfield iu his repo for 1887 on the British Pharmacopøia as to the extent to whic that official compilation is, or should be made to be, the leg atandard by which retail traders of all kinds are bound in prepa ing and selling medicinal articles comprised therein. So far physicians' prescriptions are concerned, the Pharmacopreia is t] sole legal standard of the strength of the substances which he pr scribes. The question bears rather upon the strength of medicin substances included in the Pharmacopcia, but which are pu chased by 'the public on their own responsibility. Takc, $f_{1}$ example, the tincture of opium, commonly asked for under tl designation of laudanum. . A right has been claimed, and, so fa as magisterial decisions can settle the question, maintained to $s t$ tincture of opium of any morphine strength and of any alcohol strength that the vendor may please. Further, certain grace and storekeepers not legally qualified to vend poisona claim tl right to sell, and do sell, not merely. official and otber nos poisonous druge of indefnite strength; but even well-knon opiates under well-known names, if only they omit the opiu from the preparation. Paregoric, for instance, containing I opium, is largely oold, and, according to a magistrate, legall sold,' As Dr. Quain remarked, 'in'bringing this roport to th notice of the General Medical Council, the practice is one whic may easily give rise to dangerous and even fatal mistakes. mother who has"given teaspoonful doses of the non-opiated par, goric to her infant with impunity, may, withont the slighter warning, be served by a more conscientious dealer with a produc of which a teaspoonful would contain what may be, for an infan a poisonous dose of oplum. The best cqurse to pursue will pre bably be to insert such names as laudanum, paregoric, etc., in th Pharmacopaia, and then take the necessary steps to establish th legal obligation to sell only drugs of the atrength, nature, an quality authorised by the official publioation, The matter is on which concerns the public very much more nearly than th medical profession, but the establishment of a proper standard $c$ strength will arm the authorities in their efforts to repres manoeurres on the part of unsorupuloustradesmen who at presen take advantage of the ambiguity of the law on this point to sel opiates without opium, and generally to operate to the detrimen of an indiscriminating public.

## THE FUTURE POSITION OF SANITARY INSPECTORS.

In the course of an interesting presidential address delivered b. Dr. Alfred Carpenter at the meeting of the North-West District of the, Association of 'Sanitary Inspectors in Liverpool, he madd some remarks on the future status of these officers, which posses: a special importance at the present moment. While admittinf that decentralisation was to some extent a good principle, it would be a misfortune if sanitary inspectors were left entirely a the mercy of the local authorities, which often contained mem. bers who were the greatest offenders against public health "The healthiness," he said, "of the extrome twigs upon which the sanitary tree depends for its development and growth must, affect the growth and the development of the trunk of the tree. If, therefore, the sanitary inspectors are not heal thy and right, the whole growth is unsound." While learing to the parishes the right to select properly-educated inspectors, he urged that the appointment ought to be ad vitam aut culpam; and that a charge of neglect of duty ought to be proved to the satisfaction of the County Council and its medical officer of health, who, he asid, must have his existence provided for in the Bill, and who, though appointed by the County Council, should himself be only removable with the approval of the Local Government Board.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscaiptions to the Assaciation for 1888 became due on January lst. Sembers of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postaffice orders should be made payable at the West Central District Office, High Ilolborn.

## The Britist) ftedical Journal.

## SATURDAY, MAY $26 \mathrm{TH}, 1888$.

## RESEARCH WORK OF THE BRITISH MEDICAL ASSOCIATION.

## The Mammalan Heart.

Such knowledge as wo possess of the changes which go on in the tissue of the beating heart has been obtained almost entirely from experiments upon the batrachian heart. Hardly any accurate work has been done upon the mammalian organ. The report of the Committee of the British Association (1843) upon an investigation of the movements of the heart by simple inspection ; a paper by Czermak and Piotrowsky (1857), upon the persistence of movements of the heart ; and another hy Kölliker and Müller (18.6), on the occurrence of electromotive ehanges accompanying the systole, are the most imiportant invéstigations nade upon the mammalian heart, and represent fairly well the position of physiological science in regard to this subject. Therefore the important communications of Drs. Wallor and Reid (On the Action of the Excised Manmalian Heart, by Augustus D. Waller, M.D., and E. Waymouth Reid, B.A., M.B., Philosophical Transactinis, 1887, and A Demonstration on Man of Electromotive Changes accompanying the Heart's Beat, by Augustus D. Waller, M.D., Jeurnal of Physiology, vol. viii, No. 5), eonducted, on the part of Dr. Wallor, in his eapacity of Research Scholar of the British Medical Association, are of extreme interest, having regard not only to the results obtained, hut to the novelty of some of the methods employed, and to the minute care takon to avoid error.

During a comse of experiments upon the elcetronotive action of various tissues, it was found that in the case of the manumalian heart tho eloctronotive variations outlast visible contraetions, and that the contractions are of an extranrdinarily prolongod character. The observers, therefore, carried out a sories of experiments with tho galvanometer, the graphic method, and with Lippmann's capillary electrometer. With the latter instrument the obscrvations were rendered inoro acenrate, and also recorded permanently in the most heautiful manner, by photngraphing the movements of the columu of mereury on a travelling plate. In this war slight movements, observable with difficulty or not at all by the unaided eye, are clearly evident, as shown by the plates which accompany the articles. For the observations the hearts of eats, dogs, rabbits, guinea-pigs, rats, and sheep were nsed.
The duration of contracting power in the excised heart was
found to be surprisingly prolonged, even though mere fibrillation was not noticed; but only complete ventricnlar contractions, sueh as could be recorded by a lever resting on the heart. In a rabbit's heart spontaneous beats were observed for seventy-two minutes, and beats in response to excitation for an hour and a half post mortem. Force of contraction, it was found, deelines rapidly at first, more slowly at later periods: frequeney of contraction diminishes with fair reguLarity. A bigeminal character is' frequently seen, and is more pronounced at the base than the apex. When irregularity of beat occurred, a period of rest was followed by a beat of unusual foree; beats in groups, and occasionally an extreme irregularity, in the form of irregular rapid fibrillation (delirium cordis) were 'seen. As time elapsed after removal, the rentrieular beat became quite independent of , the auricular beat, and was found to ontlast it. Such were the general results observed. Special attention was paid to the duration of systole in the excised heart, and the influences which cause its inerease or diminution. On removing the heart from the body the systole became greatly prolonged, and the prolongation was exaggerated by placing the heart in a chamber surrounded by ice ; in one experiment the dnration of contraction in a heart so treated was ten seconds. The full-effect of cold was to produce total abolition of contractility, both spontaneous and induced by stimulation; this could, however, he restored by the application of warmth. A constant temiperature of 40.6 degrees caused rapid decline of contractility, and no prolongation of systole. Therefore, it will be noticed that the nammalian heart agrees with other tissnes in showing great excitability and rapid decline at ligh temperatures, small excitability and slow decline at low temperatures.

A similar prolongation of the latent period of stimulation was also observed under the inflnence of cold, a common latent period being 0.5 sec ., and on one occasion in the rabbit's heart it reached 2 secs. This is longer than has been observed in the frog's heart, and generally, when the results are compared with those of Burdon Sanderson and Hermann, it is seen that the mammalian heart is more snsceptible to difference of temperature than is that of the frog.

Nothing appears to have been hitherto dono to dotermine the presence of a wave of contraction in the mammalian heart, such' as has been shown by Engelmann, Marchand, and Burdon Sanderson, with the help of the rheotome and galvanometer, to oceur in the frog's heart. Moreover, the mechanieal method has not been employed at all, even in the frog, for the record of such progressive contraction. By the application of two levers applied to the heart at a certain distance from each other, Drs. Waller and Reid obtained some eurious results. In the ventricle of the frog's heart the result of other observers mentioned above, who, using the galvamometer, showed a wave of contraction passing from hase to apex, were confirned. In the mammal's heart, howerer, the results were markedly different : thongh it must be mentioned that they were not so uniform as in the case of the frog. The contraction of the apex in cats, rabbits, dogs, and sheep generally preceded that of the base, even though all precautions were taken to avoid error. When a contraction was proveker in a quiescent. heart by direct stimulation, it was found that the ware of contraction proceened from the
part irritated to the parts beyond, and that both the mammalian and frog's hearts behaved alike in this respoct. Tho rupidity of the wave was much greater in warm-blooded than cold-blooded animals, was greater in large than in small hearts; and progressively decreased after excision of the heart.

The galvanometric experiments upon the frog's heart confirm those made by former observers. Fölliker and Müller have shown that the contraction of the mammalian heart is accompanied, or rather preceded by, an electromotive change. This Drs. Waller and Reid now show to be frequently diphasio, and to persist long after visible contractions have coased. If the heart be quiescent and be then irritated, it is found that a diphasic variation oceurs, which indicates in its direction, first, negativity of the proximal electrode; secondly, negativity of the distal electrode. Local injury, when the heart is' inexcitable and apparently dead, develops negativity of the injured to all other parts. This easy production by injury of local negativity caused occasional irregularities in the galvanometric results; sometimes, for instance, stimulation produced merely a simple and not a diphasio variation, prohably becanse a touch near one of the two electrodes had developed pormanent negativity of that spot. A diphasie variation indicating negativity starting from the distal electrode was never seon ; but an exceptional result was that local excitation might give rise to a single variation, indicating negativity of the distal electrode. This is explained by the snpposition that there exists in such a case a greater excitability of the tissue in the neighbonrhood of the distal electrode.

The above experiments refer to artificially-excited beats in an otherwiso quiescent heart, When the heart was beating spontaneously, tho galvanometric readings were not constant. When viowed by the naked eye, the spontaneous contruction of the mammalian hoart is apparently simultaneous in all parts. As mentioned above, the proof of the prosence of a wave of contraction by the graphic method was not altogether clear ; 'it is now seen that the record of the galvanometer on this point is obscure, and it is presently to be noted that the electrometer gives indications of a contraction occurring almost simultaneously in all parts of the ventricle. These are points which require further research, and upon them Drs. Waller and Reid express thomsolves cautionsly.
The experiments with the capillary electrometer are specially interesting. The movements of the mercury were magnified hy a half-inch objoctive, tho image taken 90 centimetres behind the lens, and photographed upon a sensitive surface travelling more or less rapidly. Changes which were not shown by the galvanometer appear eloarly with the electrometer. A diphasic variation was frequently shown when tho galvanometor showed only a single change of potential. But, in spite of the extreme delicacy of the electrometer used in the way deseribed, the olectromotive clange accompanying the bent of the ventriclo was somotimos seen to he monophasic. This must le nesumed to be really tho case-not a mere fusion of $t$ on phases by reason of imperfection of the instrument. Further, such monophasic variation nccurs during the earlier momenta aftar excision, giving place subsequently to a diphasic variation. The natural conclusion to he drawn from this is,
that in the very active mammalian heart the, ventricles contract with such synchronism of their various parts that the excitatory change is practically simultaneous in all parts, and, as the authors think, postulates the existence of nervous channels of conduction, since such simnltaneity is inconsistent with the slow natnre of muscular transmission.

In the second paper mentioned, Dr. Waller shows how the electromotive changes can be demonstrated even on the human subject. Electrodes leading from the front and back of the chest, when connected with the capillary electrometer, show distinct electrical variation with each beat of the heart. This might be due to mechanical alteration of contact between the electrodes and the chest-wall, caused by the heart's impulse. To disprove this, the electrodes may be led off from the hands or from one foot and one hand placed in tivo dishes of salt solntions. Still the variation occurs, though less markedly. The crucial test, however, is that by aceurate measurement the electromotive change can be shown to precede the contraction of the ventricle by 0.015 second, when the systole lasts 0.35 second. This time difference corresponds with that obtained by Donders for the, rabbit's heart in situ.

We may add that the research has received the mention honorable of the Académie des Sciences, at distinction which is greatly to be valued, and upon which we congratulate the workers.

## WOLFFBERG'S METHOD : THE COLOUR-SENSE

## AS A TEST OF REFRACTION.

Iv the present day, when objective methods of estirnating the refraction of the eye have been brought to such perfection, it is hardly to be expected that anyone proposing to institute a new test of a purely subjective character would obtain a hearing. But the results claimed to have been obtamed by Wolffberg (Klin. Monatsbl., 1886, p. 359) were so very definite, and appeared to be so fnlly confirmed by Dr. Boelm (1b., I887, p. 429) that the temptation to overlook the obvious faults in tho method and to give it a fair trial was irresistible, more especially as it was claimed on its behalf that it rendered it possible at once to say whether a given defoct in vision was due (a) to a spherical error of refraction, (b) to astigmatism, (c) to a cause unconnected with refraction. A claim such as this has never yet, we believe, been advanced in support of any test, and it is needless to point out, if it could be substantiated, Dr. Wolfberg and Dr. Boehm wonld laavo made a discovery of the first magnitudo.

In another column will be found a paper by Mr. Stephenson, giving an account of some experiments he has made for the parpose of testing some of the conclusions arrived at by Wolfferg and Bochm, and a short notice of a monograph by Dr. Herzog which deals fully with the whole snlject. The couclusions of both these authors, arrived at quite independently, are so entircly opposed to Dr. Wolffberg, that unless he can reply to them, disproving their facts and refuting their arguments, no one will be likely to spend time in using his tost.

The test really depends on instituting a comparison between the visual acuity (tested by Snellen's letters in the ordinary
way), ard the colour-sense (estimated by the distance at which cortain cloured discs are visible). Wolff berg, from experiments on ratural and artificial ametropia, believes that he' has found the cistance at which the discs should be visible for each legree of imaired vision, when such defect is due to an error of refraction. Other causes impair the colour-sense more than the form-sense. By producing different grades of impaired vision by lowerng the illumination Wolff berg believes that he has obtained dara for estimating the effect of diseases which impair the light-sene-obvinusly a debatable conclusion. Boehm confirms all these results; but, as he worked in Dr. Wolft berg's clinic and ai his instigation, his results can hardly be said to have been indejendently obtained. He attaches much importance to the fact thit astigmatism impairs the form-sense to a greater extent than tie colour-sense, so that a conclusion can be formed whether there is spherical ametropia or astigmatism.

It will be seen, therfore, that the whole stability of this test rests upon the accuracy of certain facts; and if these are proved to be untre, or not constantly true, the whole fabric falls to the ground. That a method of examination which is purely subjective, in which the patient's answers cannot be verified, should give such very definite results, is surpriing. If anyone will try the test on himself, he will at once find that it is by no means easy to fix the exact momeni at which the disc beeomes invisible, and we are surprised that Drs. Wolfferg and Boehm do not attach more importance to this difficulty. Slight discrepancies, therefore, might easily bs overlooked; but when pationts with the same defect of vision see the discs at 5 and 3 mètres respoctively, when the same patient varies, when the the two eyes of the same patient with the same refraction vary, when dises of different colours, which the authors state are visible at the same distance, are seen at different distances, it is impossible to avcid a suspicion either that the ratio between the colour and fom sense is not so definite as has been stated, or that the test does not afford a reliable means of estimating that ratio.

As far as we can ascertain, the only point in which Herzog confirms Wolftberg's cemelnsions is that in the majority of cases of astigmatisn the colour-vision is impaired to a less extent than the form-sense ; but, as this was also the case in some eyes which wele not astigmatic, the fact cannot, be utilised for diagnosis.
To our mind, however, the most damning pieç of evidence against the accuracy of the authors of the test is the statement, made hoth hy Dr. Herzog and Mr. Stephenson, that the majority of eyes with normal vision do not see the dises at the prescribed distance, and the cascs adduced by the iormer, in which the discs were seen at the proper distance althongh the eye was suffering from progressive disease. We do not see how Wolff berg's and Boelm's resnlts aan be explained unless we assume that in conducting the experiments the patients were permitted to know what answers they were expected to give, a point which should, of course, be nost scrupulously guarded against in any suljective test.

Professor Ewald, of Berlin, has been named director of the medical wards in the Augusta Hespital, in succession to Protesssr Senator.

IMMIGRATION AND OVER-POPULATION.
The Ainglo-Saxon race, as in spite of the pedantic objections of some historians we persist in calling ourselves, is just now much exercised on the over-population question. Theoretical articles in monthy reviews, and the more circumstantial evidence given to the Parliamentary Committees now sitting to investigate the sweating system and pauper immigration have stirred men's minds. A "Committee for Inquiring into the subject of Over-population," has held a semi-public meeting, so largely attended that it has been necessary to arrange to hold future "conferences" in a more roomy apartment, and Willis's Rooms have been chosen for the purpose. The United States of America, assailed on both their eastern and western "seaboard, have some time ago forbidden the entry of pauper immigrants from Europe on the east, and the immigration of the Chinese on the west. Finally Australia has precipitately attempted to forbid the influx of Chinese labourers into territories which Western Europe was still inclined to regard as boundless.

Against the Chinaman it is urged in general that his ways are insanitary, and specifically that his methods of raising vegetables for the market are distinctly dangerous to health. Miss Gordon Cumming, in one of her delightful works of travel, has given a description, the more vivid from its studied restraint, of the system of market gardening in China, which leaves a very unpleasant impression. The pail-system of sewage disposal is universally adopted in its crudest and most prinitive form, and as the same method is pursued by Chinese immigrants, there seems to be good ground for the opinion expressed by competent authorities in Australia, that such diseases as typhoid ferer may be transmitted through fresh vegetables growu by Chinese market gardeners. Fresh excreta mixed with water and applied directly to growing lettuces, much as an English gardener may add a little guano or other fertiliser to his watering pot, might very well be the direct means of distributing the disease. The objection is of a totally different kind to that which some thoughtless persons have made against sewago farms ; in the latter the liquid sewage runs in channels between the rows of vegetables, filters through soil to the roots, and even if any noxious principles escaped destruction in the earth, they would be subjected to the marvellous metabolic processes of the living cells of the plant; moreover, a laborieus research conducted in France, has shown that regetables grown on sewage farms do not contain dangerous forms of bacteria. But when recent excreta are applied in the haphazard method favoured by the Chinese, the dangers are different and greater, for the surfaces of the growing leaves may be directly contamiuated.
The Australians will, no doubt, settle the question of Chinese immigration for themselves, and will probably follow the example 'set by the United States. In this country, too, it seems not impossible that the pressure of public opinion will compel the Govermment to follow the example set by the United States on their other coast, and introduce some mensure to place the admission of pauper immigrants under strict surveillance. Our hospitals daily afford evidence of the abject poverty and hideous diseases which are the only possessions of toc many of the miserable foreigners who have within the last
deciale swarmed intol corbain districts of, East /London. I/ But wo raust not. suppose that even the most completo check to pauper immigration would solve the "aver-population question." The Committee, to which reference has been, made abore has taken up a large and somowhat delicate subject. It has choseu for motto Juex quia lex, and this alliterative jingle expresses fairly well the chief remody which we can hope to apply. Speaking generally, it is the most ignorant and least worthy classes which multiply most rapidly, so that our civilisation, it is said, is threatened hy a kind of law of the survival of the unfittest, traceable to a mere surplus of numbers." The pressure of "bad times" and the increasing difficulty of arming a living to, some extent, as ..statistics show, tend to lower the birth-rate ; but education, moral, mental, and phyr. sical, is the only real remedy, and this will take many years, even generations, to produce an effect.

## STUDIES IN 'THERAPEUTICS. VI.-Paraphenacetin.

Tue aromatic series of carbon compounds seems destined to supply us with a very large number of drugs, useful in treatment. . We are already familiar with antipyrin (dimethyloxychinicin), and antifobrin (acetanilide). The latest discovery is that of phenacetin, or para-acetphenetidin, a body elosely allied to antifebrin. This body was first prepared by Dr. 0 . Hinsberg, of Elberfeld, who, in conjunction with Profossor' Kast, subjected it to physiological research. The results of this research have led Dr. Koller, of Vienna, to : make an extensive use of it clinically for its antipretic properties. The results of his experiments are embodied in a small pamphlet from which the following facts are taken: Phenacetin is inodorous, tasteless, very slightly soluble in acid chyle or pancreatic extract at body temperature. It has no effect in reducing normal temperature, but it is claimed that in all cases of pyrexia eren small doses ( 4 to 7 grains) never fail to prorluce a perceptible effeet in diminishing the fever. No illeffects such as nausea, vomiting, and collapse, which sometimes follow the use of other antipyretics, have been observed. Altogether, fifty cases of a most varied nature have been treated with the new febrifuge. Of these, tuberculosis, pnenmonia, morbilli, and enterica form more than half. The plan adopted was to administer the antipyretic when the continued high temperature scems likely to loe prejudicial to the pationt. that is to say, in long-contimed temperature of 102 degrees to lot degrees $\mathbf{F}$. The reduction of temperature took place slowly, the maximum effect being produced in about four to six hours; this point being ratcher, the temperature again rose, so that in eight to ten hours all effects have passerl off. Nocturnal exacerbations in phthisis were found to bo not prevented, but only delayed; but the rise of temperature under these circumstances was unaccompanied by rigors. Moreover, during treatment, the patients lecame cheerful and able to take food. The fall in temperature was not usually accompanied by porspiration; when this takes place, Dr. Koller says that care is required in exlibiting the drig. In one case of this kind, temperature was reduced as low as 95 degrees $\mathbf{F}$.. which caused some alarm. The patient's temperature rose, however, under the influence of rubbing and warm bottles; and no signs of collapse appeared. It is also stated that a ccm -
paratively large initial dose is more effective than sevaral successive doses: . It would be interesting to ascertals whether. in the case of phenacetin, as in that of antipyrin, $P$ tolerance was produced after prolonged exhibition. Phenaretin exerts no diuretic action, and passes out of the 'body quite harmlessly by the kidneys; its presence in the urin may be detected by the red reaction given by ferric chlorice. It would be interesting to know during what length of time this red reaction can be observed as a clue to the rawe of excretion. Judging. by the properties of allied budies Dr. Koller has made experiments on the antiseptic preperties of phenacetin, but owing to its. great insolubility, ro 'definite results hare been arrived at.! ! The main deductions from the paper scen to be as follows :-1. That phenacein is an antipyretic. 2. That its use is not usually followel by disagreeable resulta., 3. That a single large dose is more serviceable than successivo small ones. 4. That the fall of emperature takes place less promptly than when other antpyretics are used, fbut lasts longer. This seems to be most likely due to the great insolubility of the drug, which is one of the greatost drawbacks.

The Emperor of Germany ha conferred on Professor Virchow the honour of the Red Eagle o the second class.

The Prince and Princess bl Wales have promised to open the new Great Northern Central Hospital in Holloway Road on Monday, June 25th.

- The Cavendish Lecture of the West London Medico-Chirurgical Society will be delirered at the West London Hospital, Hammersmith, on Friday, June 1st; at 5.30 f.m., by Sir Willinm Stokes Professor of Surgery in tise Foyal College of Surgeons in Ireland, Who will take as his subject The Altered Relation of Surgery to Medicine.

MEDICINE AND POLITICS IN ALSACE.
By a decree of the Gorernor of the Department, the Saciote de Médecine de Strastourg has been dissolved; in other words, the authorisation which is required by law for all meetings of more than twenty persons aas been withdrawn. No reasons are given for this rigorous decision, and the dissppearance of this venerable society has giren rise to general expressions of regret.

## GROCERS NOT PHARMACISTS.

The Correctional Tribunal of l'rivas (France) recently sentenced a grocer to a fine of 500 francs, wit h costs, for haring sold fluid extract of cinchona, santonin lozenges, mercurial ointment, etc., to the detriment of the local retail chemists. In view of this decision, the sale of Epson salts, chloride of lime, or carbolic acid must cxpose unwary tridesmen, other than chemists, to very scrious jecuniary risks. This stringency may have something to do with the comparative rarity of cases of accidental poisoning in France, Which are so lamentably common in this country, where the law. restricting the sale of poisons are, to all intents and purposes, inoperative.

## MECO-NARCEIN.

Dr. Laborde has called the attention of the French Academy of Medicine to the valuable soporific qualities of a product derived from opium, to which he proposes to give the rame of meconarceia. Narcein as ordinarily prepared is comparatively insoluble, and therefore has very little physiological effect. He has succeeded, horrever, in obtaining a product quite free from mor-
hine, and consisting of "narcein mixed with Various unknown kaloids. . A fifth of a grain induced a calm sleep in a dog weighig thirty pounds, without any apparent after-effects. It would ppear to be devoid of the preliminary exciting effects of morphine, ad does not derange the digestive apparatus. Dr. Lahorde recomends it in the treatment of insomnia of nervous origin; in bron-10-pulmonary affections characterised by cough and excessire cretion of mucus, and finally in morphinomania.".." is 1

## UCCESSFUL OVARIOTOMY IN A , PATIENT, AGED

1. Honsis, of Boston, remored, on January, 28th, 1888, a papilloiatous multilocular, cyst of the left, ovary from a widow, aged

The temperature rose on the sixth day to $100.5^{\circ}$, but subsided 1 the next day, and the patient returned to her home on March dI. The tumour had, been, olserved-for two years. Its solid ortion weighed thirteen pounds, its fluid contents one pound and rree quarters. The case is described in the Boston Medical and urgical Journal for May 3rd, 1888, where it is asserted that no Ise is recorded of ovariotomy, in a patient over 78 years, of

Olshausen, lowerer, notes . that Schröder successfully serated on a patient, aged, 79 , and on another aged 80. r. Miner described in the Buffalo Medical and Surgical Journal, !ptember, 1866 , the removal of a multilocular ovarian tumour eighing nineteen and a half pounds from a woman, aged 8. le died fourteen days after the operation, Dr. Homans's patient probably the oldest who has recovered from ovariotomy.

## POISONOUS WINE.

FEW months since, a large number of the inhabitants of Hyères ere suddenly stricken down with a disease, the symptoms of hich were colic, anorexia, puffiness of the face, photophobia, and urtial paralysis of the extremities. For a time these symptoms ere attributed to an epidemic of severe influenza. The number the rictims rapidly increased, until upwards of, 300 persons ere suffering. . It can easily be imagined that the suddenness Id mystery of the visitation excited a great deal of consternaon among the inhabitants. Hatters went on thus till the month April, when Dr. Roux, who had in the meantime been carrying It an inquiry on lines of his own, arrived at the conclusion that le course and character of the affection pointed to the effects of poison rather than to any known disease. After much painsking research, he succeeded in incriminating a particular wine pply, and at once brought the matter to the notice of the authocies, basing his opinions on the facts (1) that, the effects observed ere in direct proportion to the amount of wine absorbed; (2) at no such symptoms had presented themselves, except in those ho had partaken of the incriminated supply ; and (3) that the embers of a family who, for any reason, had not taken the wine, dd escaped the symptoms. The, authorities seized the stock of ine and arrested its proprietor, who will be kept in prison pend$g$ the final report of the analyst, who is stated to have found senic in the wine.

## AN' UNMERITED CENSURE.

f inquest recently held in Oswestry terminated in a severe d quite undeserved censüre on Dr. Fuller, a much reected practitioner in the town. The facts were simple. A an, aged 45 , was admitted into the cottage hospital suffering om retention of urine due to a long-standing stricture of the ethra. The retention of urine having been relieved by the ssage of a catheter, Dr. Fuller ordered the removal of the patient the workhouse, as he was free from pain and quite comfortable, d Was not then properly a case for treatment under the rules of e institution, which limits the admission of cases to accidents, those of an urgent nature. The patient died four day's after s removal to the sorkhouse, and for some resson unknown to us

Messrs. Blaikie and Cartwright, who attended him during those four days, were not-summoned to give evidence at the inquest As already stated, the jury added a rider to their verdict censuring Dr. Fuller for accelerating the death by the indiscriminate remoral of the patient to the 'rorkhouse. This censure is certainly not justified in'the slightest 'degree by the evidence, two rery, full reports of which have appeared in the local newspapers. We cannot belp believing that had the additional medical evidence to which we have referred been called for, the rider would never have been added. 'The indiscriminäteness on which the jury laid so much stress really consisted in the hearty dinner and quantity of beer of which the deceased partook after his retention had been relieved.

## WOODHALL SPA.

A number of medical men and others accepted on Tuesday last the invitation of the proprietors of the unique bromo-iodine $\varepsilon \mathrm{spa}$ at Woodhall, Lincolnshire, to inspect the hotel, new pump room, and baths which hare been recently'erected at that place. Till lately the valuable iodine spa at Woodhall has enjoyed little more than a local repotation; it deserres a world-wide celebrity. A short time ago a syndicate composed of Sir E. R. Webster, Q2.C., M.P., Mr.' Edward Stanhope, M.P., Mr. Henry Chaplin, M.P., and others, was formed to develop what there is 'reason to anticipate may prove to be a popular and highly useful health resort. Plans of a new hospital have also'been prepared by Mr. Waller, of Boston. At a luncheon, presided over by Mr. E; Stanhope, M.P., Dr. Burney Yeo took up effectually the parable which Mr. Ernest. Hart has propounded with so much general acceptance in these columns, and pointed out that those who desired to promote the prosperity of English spas must bring about developments in the way of recreation and public. amusements, which few of them at present possess. The invalid, he rightly said, did not merely want water and baths; there must be the means of recreation, for the invalid who was well amnsed was half cured. The Speaker of the Honse of Commons rather reproached English medical men for neglecting the spas of their own country; bnt it is not so much the doctors as the mnnicipalities and the proprietors who have been at fault. We hope that a new era is opening, and that:Woodhall:spa will help to lead the way. Mr. Ernest Hart, in his letters from Carlsbad, has given a detailed account of the very simple and effectire method by which the municipality of that little far-away bamlet developed its attractive series of public buildings, Trink-halle, musical promenades, cafés, roods, and gardens, without drawing upon the slender purse of the town. This lesson shonld not he lost upon our English municipalities and spa syndicates.

## the tubercle bacillus.

The paper which Dr. Kidd and Mr. II. H. Taylor laid before the Royal Mfedical ánd Chirurgical Society on Tuesday, May , 22nd, on the results of the examination of sputa for the tubercle bäcillus was one well worth attention. Attention on the part of those present. Was comparatively easy, as Dr. Kidd took the wise course of reading the paper himself, with selections from the cases related, and relieved the Honorary Secretary of the difficult task of emphasising just those points which the authors think important, and passing lightly orer the subsidiary parts. It is a practice we could wish was more generally adopted at this Society. The paper was the result of some years of careful and continuous microscopical study, carried on alongside of clinical observation at the Brompton Hospital. During the years that have now elapsed since Koch's discorery of the bacillus of tubercle, clinical observers have been endeavouring to come gradually to a just estimate of what they have thereby gained. They hare gained, say Dr. Kidd and Mr. Taylor, some indisputable points in dia-
gnosis of tubercular disease of the lungs and throat, and along with that in treatment, but little in prognosis, as compared with what was possible before. Many of the factors of prognosis had previously been long and carefully studied, and the results of that atudy are not contradicted, and not much added to by the fresh knowledge of the bacillary origin of the disease. One or two speakers claimed rather moore for it in prognosis, hut such claims were in part satisfied by the full acknowledgment of its usefulness in diagnosis, and in part must be put to the searching test of long experience. Dr. Kidd's and Mr. Taylor's paper dealt only with the deductions from the sputa, and, in careful and prudent fashion, declined to enter on the larger questions of the possibilities and methods of infection, and the development of any anti-bacillary treatment. These are matters which need most careful and continuous study, after the enthusiasm of a new discovery has passed through its first stage of excitement, and on which the nest generation will probably have more to say than we.

## "'TRAUMATIC HYSTERIA.'

Cases not infrequently occur in which the victims of railway accidents, who have or have not been subjected to actual wounds, develop secondary symptoms after a considerable lapse of time, involving paralysis and disorders of the sensory apparatus. The evidence given in respect of such cases in courts of law is usually rery conflicting, the medical witnesses for the plaintiff testifying to the existence of this or that aymptom, while the prefessional experts on the other side are unable to see anything more than "hyateria." it may fairly be considered how far such an expression as "hysteria" ought:to be used in such cases. The impression which it conveys is decidedly detrimental to the injured party, who may be suffering from one form or another of those functional disorders which not infrequently follow injury, and which, in the present state of ignorance is to their nature, are conveniently, but certainly inaccurately, grouped under the vague and misleading title of "hysteria." At a recent meeting of the Medical Society of London, Dr. Beevor showed just such a case. The patient was a lad who had contused his hand, and the injury was followed in a day or two by gradual from contraction of the right hand. Anæsthesia of the integument up to the shoulder supervened, with loss of muscular sense; 'but the morements of the arm and forearm were unimpaired. "The lad was otherwise healthy, and had nothing to gain by simulating an affection; the reality of which was, moreover, amply demonstrated. There is no lack of such cases on record, and the point of interest is their bearing in actions for damages on account of injury. The symptoms are as directly the effect of the injury as would be erysipelas or tetanus, and it is not easy to sec why an endeavour should be made to distinguish between one and the other in so far as the legal position is concerned. That there is still very much to be learned with respect to the nature of these ill-understood phenomena is painfully evident, and they deserve special attention on accoint of their peculiar medico-legal interest.

## ONE-CHILD STERILITY.

A cosisiderable proportion of wiomen never bear more than one child, and this fact is easily explained, for pregnancy may be complicated or followed by disorders which damage the genital apparatus. Dr. Hleinwächter observed 90 cases where women had been but once pregnent, and on that occasion at a more or less remote period, out of 1,081 patients in his gynecological practice. In 21 of the 90 cases the pregnancy had ended prematurely. He classed the caiuses of aterility after a first pregnancy into ten groups, based on a careful study of the 90 cases. "The groups were thus arranged in order of frequency: 1.' Sequcle of inflammatory processes arising during the puerperium; 2, "catarrhal endometritis; 3, sequelæ of inflammatory processes not puerperal in
origin ( 43 cases came under one or other of these grouns); 4 , displacements of the uterus; 5 , neoplasms of the uterus; 6 , constitutional sources of sterility eatablished after the first pregnancy ; 7 , impaired potency of the husband, well authenticated by the clinical history; this condition has more than a negative influence on the uterus and ovaries; 8 , super-involution or atrophy of the uterus; 9 , new growths in the ovary; 10, uncertain or unknown causes. Under Group 6 were included cases whero anæmia, cachexia, obesity, or emaciation arose after the first pregnancy. As the cases could not readily be kept under observation after their discharge from hospital, or after dispensing with the physician's services;' Dr. Kleinwächter could come to no conclusion ${ }^{\circ}$ as to treatment. His observations are to be found in the eightl volume of the Zeitschrift fïr Heilkunde.

## SYRINGOMYELIA.

Dr. Allen Starr, Clinical Lecturer on Nerrous Diserses at the College of Physicians and Surgeons, New York, has recently con. tributed to the American Journal of the Medical Sciences a memoil of considerable importance on "Syringomyelia; its Pathology anc Clinical Features." Dr. Starr affords his readers a good summary of the opinions of authorities upon this condition, where abnorma cavities are present within the spinal cord. Syringomyelia differ from hydromyelus, which is a congenital affection where the central canal is dilated, the carity being lined with cylindrica epithelium. Syringomyelia is, on the other hand, acquired. Sucl is the distinction drawn by Dr. Starr and other writers, but Drs Frederick Taylor and Whipham, whose raluable papers or syringomyelia in the Transactions of the Pathological Society o London have apparently been overlooked by Dr. Starr, do not cm ploy the terms in so definite a sense. In syringomyelia prope the cavities represent the breaking-down of small gliomat8 although Leyden, Westphal; and Taylor maintain that the caritie are more probably developed from the central canal itself. Fron a summary of clinical records Dr. Starr concludes that certait symptoms in a certain combination are characteristic of syringo myelia." First, there is promessive muscular atrophy, witl paralysis affecting some or all of the muscles of one limb, an usually extending to the opposite limb and to the body. Again rasomotor and trophic disturbances are observed in the affectec limb, manifested by coldness, blueness, bullous eruptions, ulcera tion, abscesses, and even atrophy and fragility of the hony struc tares, and a diminution in the excretion of sweat. Lastly, ther is a loss of the sensations of pain and temperature in the atrophie part, whilst the senses of touch and location may be preservec The causes of syringomyelia hare not been precisely defined, aul nothing is known of the 'treatment of this disease, which mas. progress slowly, or come to a standstill, or terminate suddenly.

## MEDICAL SELF-HELP.

In the presence of the numerous and touching appeals which $\pi$ have recently published on behalf of medical men who have bee overtaken by sudden calamity from unforeseen sickness, acciden and financial disaster, it is gratifying to, be able to note th growth of proridence and the extension of membership in th Medical Sickness and Life Assurance Society. The quarterl report which we recently published showed the remarkabl growth of the invested funds of this Society, now amountin to upwards of $£ 20,000$ in the course of four years, and the sati: factory fact that all the funds show a good surplus, while th management fund shows in the same time a saving of nearl £2,000, which is placed to the credit of the members. At the la monthly meeting of the Society, sickness payments were ordere on account of cases of practitioners, members of the Society, di abled from practice by locomotor ataxy, phthisis' (2), compoun fracture of the leg and of the arm, myelitis, pneumonia, promil

Menière's disease, acute rheumatism,'enteritis. Two of these cases are likely to require, and will receive, a continuons payment for the rest of life, the diseases being permanent and involving total disablement. The Society is one of purely mutual character; there is no eleemosynary element in its constitution. The Managing Committee, however, are unpaid; and the whole of the profits accumulated are the property of the members. The members claim their payments due as a matter of right, and it is a subject for hearty congratulation that an association which puts self-help within the reach of every practitioner in sound health, and enables him to provide against accident, misfortune, sickness, and disablement from old age, is prospering so remarkably, and continues to receive almost daily applications for membership. Prospectuses, tables of premium, forms of proposal, and all information are furnished on application to Mr. C. J. Radley, 25, Wynne Road, Brixton, London, S.W.

## NECROPSY OR DISSECTION.

With reference to the alleged instance at Victoria Park Hospital of the performance of a post-mortem examination in opposition to the wishes of the relatives, we are requested to state the following facts. The patient died somewhat suddenly after rallying from a fit." At the commencement of the serious symptoms the friends were telegraphed for, and a porter afterwards sent to the address given. The friends were, however, not forthcoming. Some hours after the death of the patient the post-mortern examination was performed. It is the custom to ask permission in every case for a post-mortem examination, but, in the event of the relatires not arriving, this is always performed. ' In this case the father did not arrive till after the examination (which was an ordinary one) was made. So far from being treated abruptly, the father was given every opportunity of stating his grievance before the committee of the hospital, and no such expression as has been re-ported-that "they should do ns"they liked"-was ever used to him. An idea seems to be prevalent that the body was "dissected;" such was not the case. In an ordinary post-mortem examination, such as was performed in the instance under consideration, it is impossible, withont specially looking, to discover whether an examination has been made or not. The practice of post-mortem examinations in hospitals or elsewhere is to be governed by good sense and consideration for the feelings of relatires rather than by reference to legal rights. The low is singularly silent on the subject. In a test case raised by the Figilance Committee and heard at Bow Street in June, 1882, Mr. Flowers stated that the question for 'decision tras whether making a postmortem examination could be considered to be offering an indignity to a buman body. This point was decided by Lord Chief Baron Pollock in the case of Regina $v$. Feist, which came before the Court for Crown Cases Reserved in 1858. The Chief Baron held that there was nothing wrong or against good feeling in making a properly conducted post-mortem examination, so that a medical officer who, in the courso of his ordinary duties, makes such an examination does not violate the law.

PHYSIOLOGISTS: ON MONT BLANC.
Triee enterprising Frencli gentlemen went last summer to the top of Mont Blanc for the purpose of making a series of metebrological and physiological observations, and remained there for two or thrëe days, in order to obviate the errors which, so far as physiological observations are concerned, would be inevitable if made while still suffering from the extreme fatigue incidontal to so laborious an ascent. Is it was, none of them had the courage, on attaining the goal; to put up the tent, etc., which with great difficulty had been brought up, and they fell asleep with their heads on the boxes of instruments. The thermometer, when placed on the snow, registered $19^{\circ} \mathrm{C}$. below zero. M. Richard and one of the guides 'suffered from severe headache, with feverish symptoms.

The least effort-even ordinary morement-caused such fatigue that they were compelled to lie down during the greater part of the day. They had masks to preserve the skin of the face from the biting cold, and the usual spectacles to avoid snow-blindness. The travellers suffered from almost complete anorexia, and they noticed that tea immediately made them ill. The second day tracings were taken of the pulsation of the carotid and radial arteries. One of the guides was quite prostrated with headache and high fever, and was only got down with great difficulty Once down, a good meal, a denser air, and a milder temperature soon restored them to their normal condition of health.

## CORPORAL PUNISHMENT IN ELEMENTARY SCHOOLS.

THE matter of corporal punishment still remains a vexed question with schoolmasters and magistrates. We have great sympathy with the schoolmaster who tries to do his duty and finds, chastisement in school necessary. Reasonable chastisement is a useful discipline; if properly, administered it is not harmful to the body, while it often improves manners, and stimulates learning Teachers have a right to some authoritative decision as to the power of administering chastisement without incurring legal liability thereby. This is not a matter for fine sentiment and feeling, but for deliberate judgment and action. Let the Education Department and the Home Office confer, and define in a code the ages under which children may corporally be punished, and the mode and extent of administration. Corporal punishment may prodace some aches and pains, but it interferes with health less than confinement after hours, or deprivation of food. The teacher should not fear to do his duty, and the law should support him in doing it for the child's good and the maintenance of a wholesome discipline.

## UNIVERSITY COLLEGE HOSPITAL.

A member of the medical staff of University College Hospital is credited with an expression of profound regret that, when an accidental fire occurred in that renerable building during the course of some Cbristmas festivities, the active workers who extinguished the flames did not turn their attention to remoring the patients, learing the building to be consumed by the devouring element. It is an open secret that the structure is very imperfectly adapted to its purpose, and that many members of the committee have long entertained the opinion that to further patch and repair was mere waste of money, and that the true economy would be to pull down and rebuild. The late Sir Francis Goldsmid, a generous benefactor of the hospital, as he was of the College, held this view so strongly that his large legacs was contingent on this course being adopted, and, when a decision adverse to the proposal was renched, the legacy lapsed. Plans hare actually been in existence for years, and some money has been raised; yet it is reported that the committee propose to waste further sums on tinkering at the sanitary arrangements, which once again have been found so patently defective that the hospital will probably have to be closed for six weeks this summer.

STILLBORN CHILDREN AND WORMIAN BONES. Dr. Grace Peokham contributes to the New Fork Medical Record, April 14th, 1888, an article on "Wormian Bones in Fontanelles, and their Effect in Childbirth." From the experience of three cases. Tery similar-indeed, alnoost identical-in character she has been led to infer that large Wormian bones in the fontanelles, especially in the postcriot, may endanger the child during parturition. They may prevent the overlapping at the sutures, so that during the second stage of labour. When the pressure is greatest, the intra-cranial contents may be gravely damaged by pressure. In all three cases the patients were primipare, and
there was nothing abnormal in the measurements of the maternal pelres and foital heads.' The presentation was left occipitoanterior in 'all the cases. The labours progressed slowly but normally through the first stage, but the second stage was very slow, lasting two or three hours. As thero was a constant expectation that the labours would terminate naturally, no instruments iwere uscd. All these children were stillborn. In the first two cases the abrormality gave rise to confusion in determining the presentation ; in the third, previous experience rendered diagnosia easy. The bones were two in number, triangular, and lying on each side of the middle line, the suture which divided them being continuous with the sagittal; their bases lay towards the occipnt, their apices touched the parietals. These bones must be distinguished from the remarkable "interparietal," "epactal," or "lambdoid" bone, the "os Incx" said to exist in 20 per cent. of the skulls of the ancient Perurians. The interparietal bone is single, and represents failure of union of the upper with the lower part of the occipital portion of the occipital bone. Dr. Peckham insists on the facility with which Wormian bones in the posterior fontanelle may be diagnosed during labour, and raises the question: Can the dangerous pressure-effects be aroided by the prompt and early use of instruments? She turns the attention of obstetricians to the subject.

## INTERNATIONAL CONGRESS ON ANTHROPOLOGY. '

 Tee Congress amnounced to be held at Columbia College, Brooklyn, U.S.A., June 4 th to 7 th, will discuss a variety of subjects affecting medicine and public health. There will be sections for anthropology, ethnology, ethnography, prehistoric archæology, and history of culture. Under anthropology there will be considered the effect of 'physical surroundings on man, with the influence of the present system of education; the physiology of the mind, the relation between physical states and psychical phenomena, heredity, criminal biology, and sociology. Under ethnology there fall to be discussed the laws of human progress as affected by food, narcotics, disease, sexual relations, language, the arts and sciences, goveriment and laws, religions, and civilisation. The President is Dr. E. C.'Mann. Among the medical English Vice-Presidents are Professors Flower, Huxley, and Victor Horsley;' Sir Crichton Browne. Drs. T. S. Clouston, Norman Kerr, Henry Maudsley, George II. Savage, and L. S. Forbes Winslow. English'law is represented by Sir J. FitzJames Stephen,' and Sir Henry Maine. Other Vice-Presidents are Sir John Labbock, Professóor Häckel of Jena, Professor Virchow of Berlin, Professor Carl Vogt of Geneva, Dr. Kraus of Vienna, and Dr. Morell of Ghent.ECTOCARDIA CURED BY A PLASTIC OPERATION. Professor Lannelongue, of [Paris, recently presented to the Academie des Sciences a very remarkable case of deformity of the chest wall, with ectopia of the heart, which he had dealt with successfully by operation.' The patient was a female child, six days old, well-formed in every part except the thorax. On the front of the chest over the middle of the sternum there was a circular ulcer, rather larger than a franc piece, the base being formed by a yellowish membrane which appeared to be becoming gangrenous: It was already detached from the edges of the ulcer at aeveral points, and thus only imperfectly closed the aperture into the chest. Each beat of the heart pushed it forwards, and on applying the finger during systole the hardening of the ventricular walla as they contracted could be distinctly felt. The inner ends of the clavicle articulated below with the first rib, and appeared to be free internally and above: the sternum was entirely wanting between them. This gap in the osaeous, wall of the cheat extended downwards in the middle line; the aternum appearing to be represented on each side only by a narrow strip of bone running downwards and ob-
liquely inwards," and finally joining the corresponding piece below the median ulcer already referred to. The deficiency in the bony chest wall was therefore of the shapc of an isosceles triangle, the apex being below at the ensiform cartilage and the base ehove at a line joining the inner ends of the two clavicles. The side of the triangle measured 4 , and the base 3 centimetres. The circular ulcer was as it were inscribed in this triangle. On inspiration the chest wall correaponding to the malformed part of the skeleton was drawn in, so that a hollow half an incli deep was formed at the upper part; in expiration, on the other hand, it bulged markedly forward. A few days after the little patient was first seen, the remains of the "obturator" membrane at the bottom of the ulcer disappeared; the pericardium was seen to be entirely wanting; the apex of the leart projected outside the chest, and the whole anterior aurface of the rentricles was exposed. The hole in the skin became gradually smaller owing to the formation of large fleshy granulations, which pressed on the apex and rentricles of the heart, and it was obvious that immediate eurgical interference was necessary to prevent most serious disturbances of the circulation. M. Lannelongue therefore made two vertical incisions on each aide, $1 \frac{1}{2}$ centimetre to the outer side of the ulcer; the flaps thus formed were sufficiently loosened to allow of their internal edges being brought together over the opening in the chest wall, where they were fixed by three hair sutures. Only a few drops of blood were lost; the operation, was not followed by any constitutional disturbance, and the wound was entirely healed in twenty days. Two months after the operation" the child was in perfect health. M. Lannelongue points out that in this way he transformed the case from one of "ectocardia" into one of " subcutaneous ectopia." He thinks it possible that the ectopia, which is at present extra-thoracic, may in time, ss the heart develops, become intra-thoracic. Professor Verneuil, in presenting M. Lannelongue's communication to the Academy, remarked that this was the first time such a procedure had ever been attempted.

## SCOTLAND.

Sir George Musband Baird Macleod, Knight, Regius Professor of Surgery in the University of Glasgow, has been made a Deputy-Lieutenant of the County of Dumbarton.'

GLASGOW MATERNITY, HOSPITAL.
THe directors of this hospital intend to open, on June IIth next, a west-end branch, at, 491 , St. Vincent Street. Patients will not be received into the west-end house, but will be attended from it, free of payment, at their own houses. Students will continue to take their first aix cases from the hospital in North Portland Street, but will be allowed to take additional casca from the branch. This arrangement will be of great service both to students and patients.

## ORIGIN OF HOSPITALS.

In his admirable lecture on Life in One Room, Dr. J. B. Russell, Medical Officer of Health for Glaagow, made the atatement'that "hospitals for the sick are the special product of Chriatianity." Aa this represents a very common belief, our readers may be pleased to have the following references to authorities on anothor view of the subject. They are taken from a letter in the Glasgow Herald, of May 17th. Professor Monier Williama aays that "the firat hospitals for diseared men and animals are known to have originated with the Indian Buddhists" (Nineteenth Century, p. 77, July, 1882). In the fourth century B.c., an edict was promulgated in India by King Asoka, commanding the establishment of hospitala throughout his dominions (Westminster Reviex, October,
1887). Boswortl Smith, in his Mohammed and Mohanmedanism, p. 253, says we owe the origin of hospitals to the Indian Buddhista, and of lunatic asylums to the Mohammedans. And Prescott, in his Conquest of Merico, p. 16, says that hospitals were established in the principal cities of ancient Mexico for the cure of the sick and the permanent refuge of disabled soldiers.

## THE "JOHN REID" MEDICAL PRIZE.

Thrs prize, founded by Miss Mary Reid in memory of her brother, the late John Reid, surgeon, Glasgow, is awarded for the hest original researcli bearing on any of the departments of medical science, conducted in one of the hospitals or laboratories of Glasgow. The prize, which is of the annual value of $£ 25$, was, at a meeting of the trustees held on May 17th, awarded for one year to Mr. Rohert M. Buchanan, Glasgow, for an able paper on the Absorption of Amyloid Material, and the Amyloid Change in Ilodgkin's Disease.

PROSECUTION UNDER THE VACCINATION ACT.
Ar Alloa Sheriff Court the Rev. E. M. Pulsford was cbarged by the Farochial Board with a contravention of the Vaccination Act by refusing or neglecting to raccinate his daughter. Mr. Pulaford, who has been twice proviously convicted, pleaded guilty, and said he understood it was within the province of the Parochial Board to drop prosecution after the first conviction. The Sheriff stated he had no choice in the matter. The policy of the Act was to make vaccination compulsory, and if boards only prosecuted once that would not be compulsion. He then imposed a fine of 5 s., with 30 s. expenses, or seven days' imprisonment. It may be noted here that, as will be seen from the Registrar-General's report, only four deatha from small-pox occurred in the eight principal Seoteh towns during 1887.

SEVERE THUNDERSTORM IN SCOTLAND.
On Saturday, May 19th, a most terrific thunderstorm broke over Glasgow and the south-west of Scotland, causing much damage to property and live stock, and causing four deaths. Two young boys were killed on Glasgow Green. On the body of the one there was only a slight mark on the chest, but that of the other was much scorehed, especially about the head and chest, and the hair was entirely hurnt off one side of the head. A piece of tin in this hoy's pocket was fused by the current, and a large hole, a foot wide and about four feet deep, was made in the ground near where the boys were standing. Ahout the same time two men were struck down in Paisley Road in the outakirts of Glasgow; one was killed, and the other rendered insensible. No marks were found on the body in this case. A young man was also killed near Bathgate. Professor Grant, of the Glasgow Observatory, states that the thunderstorm was the most severe recorded in the annals of the observatory.

## the government amendments to the UNIVERSITIES (SCOTLAND) BILL.

Wirf the view of rendering the principle of affiliation of colleges clearer, and settling the relations of those colleges to the universities, the Secretary for Scotland is going to introduce certain amendments in committee. The most important of these arc the following: The words "affiliation" and "incorporation," are to be struck out of the Bill altogether, and replaced by "added to." On Clause 6 , which deals with the powers of the University Court, it is proposed that that body shall have power to administer and manage the whole revenue and property of the University, including the contributions for nniversity purposes from any college which may hereafter be added to the University, provided always that no member of a university court who represents any college which may hereafter be added to the nniversity shall sit or vote
as a member of such court, while it is engaged in the administration or management of any university funds or property, other than the contributions to be severally made by the university and any such added college, as hereinafter enacted. The following new clause is to be introduced after Clause 14. The Commissioners and, after the expiry of their powers, the Lniversity Court, may if they think fit make ordinances to extend any of the universities by adding new colleges to them, under regulations to be laid down by the Commissioners, subjeet to the following conditions: I. The university court and the college, which it is proposed shall form part of the university, shall be consenting parties. 2. The approval of the Universities Committee shall be signified. 3. The college shall have been under its existing constitution placed on a permanent footing, and shall be sufficiently endowed, in the opinion of the Commissioners. 4. The university and any college or colleges which may be added to it shall severally contribute for the general purposes of the university, as increased hy such addition, such annual sum as the Commissioners may determine. 5. When such college is established and on a permanent footing, and nuder its constitution the college funds are managed by persons other than the teachers, such funds shall continue to he managed as heretofore, subject to the control and review of the university court. 6. The university court or any college which under this act shall have been made part of the university may resolve that such college shall cease to form part of such university.

## IRELAND.

The portrait of Dr. John Halahan, Professor of Anatomy and Midwifery, 1788, and that of Dr. Croker King, first president, hare been presented to the Royal College of Surgeons by the surviving relatives of those gentlemen respectively.

## THE LOCAL GOVERNMENT BOARD AND DR. <br> MAGNER.

We learn that the Local Government Board for Ireland have refused to sanction Dr. Magner's appointment as medical officer of Timoleague Dispensary unless he gives a vritten promise not to connect himself further with any illegal combination or conspiracy while holding office. Dr. Magner has replied to a communication from the Board to this effect, that if they expect him to resign his membership of the National League before obtaining their sanction to his appointment, he must refuse to give any such undertaking.

FEES FOR EXAMINING LUNATICS.
Dr. Blake, of Tuam Union, lately examined a lunatic, and obtained a magistrate's order for his fee; but, on applying to the guardians for the amount due, it was refused. He applied again, and the guardians, instead of paying, which they ultimately must, directed their clerk to write to Dr. Blake, pointing out the grest injustice that would be done the ratepayers if the fee was required to be paid ; that they considered his position such that he should be slow to take advantage of an order which simply was giving paupers relief. Most people, we would imagine, would regard the refusal of the guardians to pay the fee demanded as an act of injustice towards Dr. Burke.
UNVEILING OF A PORTRAIT OF THE QUEEN AT THE ROYAL COLLEGE OF SURGEONS, IRELAND. On Tuesday, May 2and, IIs Excellency the Lord Lieutenant of Ireland unveiled a full-length portrait of IIer Majesty in the Royal College of Surgeons, at Dublin. There was a very large and distinguished attendance. The portrait, which is by Mr. Catterson Smith, represents the Queen standing on a dais, attired
in a black satin dress trimmed with white lace. She wears a miniature crown, and the blue sash of the Order of the Garter. Dr. Anthony 1I. Corley, President of the College, read an address, to which the Lord Lieutennit made a suitable reply. In the evening Dr. Corley entertained a large and distinguished company at dimer in tho Albert Ilall. Among those present were the Lord Lieutenant, the Lord Chief Justice, the President of the Royal Acalemy of lledicine in Ireland (Dr. Robert McDonnell, F.R.S.), Lord Justice Fitzgiblhon, the l'rovost of I'rinity College, the Lord Chancellor, Dr. Fitzgibbon, Colonel Sir West Ridgway, Sir Robert Ball (Astronomer hoyal), and Sir George Porter. The only toasts proposed were "The Queen," "The Prince and Princess of Wales," "The Lord Lieutenant of Ireland," "The President of tbe Royal College of Surgeons," and "The Lniversities and the Medical Corporations of Ireland." The company then proceeded to the board-room, where some excellent singing was listened to. The evening passed off brilliantly.

## PRESENTATION TO DR. A. H. CORLEY, PRESIDENT OF THE ROYAL COLLEGE OF SURGEONS.

On Monday last a number of the pupils, past and present, of the Carmichael College of, Medicine met to present an address to Dr. Corley, President of the College of Surgeons, and Lecturer on Surgery in the Carmichael School. The address was accompanied by a silver salver and a pair of handsome claret jugs. Dr. Gordon, who occupied the chair, bore testimony to Dr. Corley's popularity and eminence. Dr. Corley made a suitable reply.

## THE AMALGAMATION OF DUBLIN SCHOOLS.

On Friday, May 18th, a special meeting of the Fellows of the College of Surgeons was held, pursuant to requisition, for the purpose of considering the question of amalgamation of schools. Dr. Corlcy presided. The subject was introduced by Mr. Thomson, who pointed out the disadvantages which resulted from a multiplicity of schools in Dublin, and concluded by moving: "That, hasing regard to the interests of medical education in Dublin, it is desirable to diminish, as far as possible, the number of private schools, and that, with a view to carrying out this principle, it be an earnest recommendation to the Council to take such steps as may be necessary to effect, on equitable terms, an amalgamation of the existing private schools with those of the Royal College of Surgeous." Dr. Kidd secontled the motion, which was supported by Dr. McDonnell, Professor Thornley Stoker, Mr. Barton, and Mr. W'm. Stoker, and opposed by Professors R. Macnamara and Lamilton, and Mr. Wharton. A division then took place, with the result that the motion was carried by 39 to 16 . It was further directed that a special meeting of the Fellows should be summoned to examine any scheme of amalgamation. The schools which it is thus songht to unite with the College School aro the Carmichael and the Ledwich. The difficulties in carrying out such a mion are great, but they are by no means insurmountable. Certain professors and lecturors would, of oourse, retire, and for a time there would be more than one occupant of several of the professorships; but seeing that the three schools have about 500 pupils altogether, and that the majority of these would still be retained, the pecuniary result would he satisfactory even at once. As the staff diminished the value ol the chairs would be considerable. Mr. Thomson, in his speech, very properly urged the necessity of haring such subjects as anntomy and physiology tanght' by men whose whole time could be devoted to them, and he pointed ont that it was only in this way that the scientific reputation of the Dublin School could be raised. The subject has now made a distinct advance, the proposal having for the first time been approverl at a mecting of the Fellows, nnd it is to be hoped that nothing will interfere to prevent its being examined in a fair spirit.

GIBSON AND WIFE $r$. JEFFRIES AND MILLS. May we appeal to the readers of the Jounnal on behalf of llessrs. W. C. Jeffries and A. 1'. Hills, the defendants in an action tried last July at Guildford before Mr. Jnstice Cave, and reported in your issue of Augustil3th? Damages to the amount of $£ 500$ were then sought to bo recovered on the ground of alleged negligence and unskilfulness in the ase of forceps during the confinement of Mrs. Gibson, one of the plaintiffs. The jury found for the defendants, and no medical man can read the report of the trial without feeling that the action ought never to have been brought, and that auy practitiouer who applies the forceps and accidentally ruptures the perineum, or any medical man who is compelled by illness to employ a locum tenens is linble to be treated as were Messrs. Hills and Jeffries.

Although costs were given against the plaintiffs, the latter not being in a position to pay, Messrs. Jeffries and Hills will have to pay their own law costs, amomting to $£ 150$, and are just now being pressed for payment by the solicitors. There are special and personal reasons known to us that make this a particularly deserving case, and, while it is impossible to remedy the injury, anxiety, and worry through which Messrs. Hills and Jeffries have had to go, we hope that the law costs will be met by subscription among their medical brethren. We would further suggest that this is a case which would be most appropriately dealt with by small subscriptions from a large number of medical men, as it is one deserving such widespread sympathy. The trustees of the "Bower and Keats Fund" have just contributed £50 towards the expenses of Messrs. Jeffries and Hill, but a balance of $£ 100$ still remains to be provided.
Subscriptions will be acknorledged in the Journal, and may be sent to Mr. Meetley, 10, George Street, Hanover Square, W.

Graily Hewitt, M.D.,
Geo. Granville Bantock, M.D.,
F. Dawtrey Drewitt, M.D.,
C. B. Kfetley, F.R.C.S.

## ASSOCIATION INTELLIGENCE. NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

ANY qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or hy any recognised Branch Council.

Meetings of the Council will be held on July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-ono days before each meeting, namely, June 27th, September 26th, and December 28th, 1888.

Candidates seeking election by a Branch Comeil should apply to the Secretary of the Branch. No member can be elected by a Lranch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

F'rancis Fowke, General Secretary.

## BRANCH MEETINGS TO BE LELD.

Staffordshire: Branch. - The third general meeting of the present session wlll be held in the Bell Library and Medical Institute, Cleveland Joad, Wolverhampton, on Thursday, May 31st. The chair will be taken by the Prealident. Mr. W. D. Spanton, at 3 o'clock fa the afternoon. The following papers will be read:-Dr. C. A. McMunn: Lxeretion of Reduction Products of firmalln in Dlseaso. Dr. Alfred II. Carter: Practical Considerations on the Nature and Treatment of Chronie Cardiae Disease. Mr. D. Hurry Fenwick, London: Treatment of Chronio Cardiae Disease. Mr. E. Murry Fenwick, innmina : The Electrie Ilumination of the Rtadder and Urethrs, and its Valuc in tho Diamosis and Treatment of Obscure lesico-Urethral Diseases. Dr. Mrcminn wilh
adow a simple method of adapting a photographic camera to the microscope.T. Vincent Jackson, Wolverhampton.

Fist York and Norte Lincoln Branoh, The annual meeting will be held at the Infirmary, Ifull, on Wednesiay, May 3ath, at 1.30 p.m. Gentlemen who intend to make any conmunication, or to propose aut resolntion, aro raguesteal to inform tho Secretary not later than May 20th.-Li. P. IIAnDNY, Ilonorary Secretary, SO, Spring Bank, Jull.

Minidim Branch.-The annual meetlig will be lield at Nottigham on Thuraday, June 14 th. st 2 p.3t. Members desirous of reading papers, exhibiting eases, cte., are requested to communleate with tha Secretary before May 21 th. Candidates for election by the Braneh Council must send in their Corms of application by the same date.-W. A. Camive, II.B., Honorary Sceretary, Efincoln.

Soutin-Western bravoh. -The annual meeting of this Branch will be held at the Devou aud Exeter ITospital, Exeter, on Tuesday, Jume 26th, beld at the presidency of Dr. John Woodman, F.IR.C.S. Notices of motlon or commonications to be intimated to the Ifonorary. Secretary without or common an will facilitate arrangeruents if members will inform the Honorary Secretary as soon as possible if they hope to be present at the nueeting. The Secretary as 800 n as possime at the Conncil Meeting on Nay 2nd:-"That inasfollowing metion was passed at the Counch meeting on the character of a day of much as the annual mecting assumes more or recreation, and with a view of encouraging the cisirict meetings, the business the annual meeting slall be conliued to the President's address, the business of the Branch, the exhibitien of cases or of specimens with wotes, and the
annual dinner."-P. NaURY De.s, Wonford House, Exeter, Honerary annual di
Secretary.

North of Exgland Branch. - A meeting for the exhitition and discussion of microscepic specimens will be held on May 31st, at 3.30 P . M1., in the dissect-ing-room of the College of Medicine, Newcastle-upon-Tyue. The Secretary will be glad to hear from any of the nembers who have luteresting slides of any description. After the mecting there will be an infermal dinner at spor, Iyne, Ilonerary Secretary.

Lavcashire and Chesmire Braxch.-The annual meeting will be held in Liverponl about the 13th of Jnne. Gentlemen wishing to read papers or show John Street, Manchester, Monorary Secretary.

Birminghay asi Midland Coustics Brarch,-The annal meeting of this Branch will be held in the Birninglian: Medical Institnte, on Wednesday, June 14th, at 3.30 P. Br.

South-Easters Brasich : East Stessex District.-A meeting of the above District will be held in the hoard-room of the new hospital, at Hastings, on Tuesday, June 12th. Dr. Bagshawe will preside. The Chairnun, Mr. Ticehnrst, and Dr. Penhall, will contribute short papers on cases. Gentlemen interested in hospital construction will be at liberty to inspect the new building. Communications as to papers, ete., should be addressed to T. Jemaer Yerrall, 97, Montpellier Read, Brighton, Henorary Secretary.

Bath and bristol branch.-The sixth ordinary meeting of the session will be held at the Museum and Library, Bristol, on Wednesday evening, May 30 th, at half-past $70^{\circ}$ clock, G. F. Burder, M.D., President. The following cases will be exhibited at 7.30 P.M. precisely :-Dr. F. St. John Kemm : Graves's Disease treated with Strophauthns. Mr. J. Michell Clarke: Psendo-Hypertrophic Paralysis. The following communications are also expected:-Mr. J. Ormeroil : Spina Bifida, with Specimens. Mr. C. F. Pickering: The Treatment of Discharge from the Ear. Dr. J. G. Swayue: The Hour of Delirery. Dr. II. Warge from the Ear, Embolic Memiplegia.-E. Markeam Skerritt, R. J. H. Scotr, IVonorary Secretaries, Clifton.

Metropolitay Counties Branch: East Lomdox and Souti Essex Dis-TBICr.-The annnal meeting for the election of officers will be held at the Forest IIotel, Chingford, on Thursday, June 7th, at 6 P.m. At 6.15 P.M. (sharp) the members nud their friends wll dine together. A. Durham, Esq., President of the Branch, will preside. Tickets, 8s. each, exclusive of wine. Members wishiug to be present are requestel to communicate with the llonorary Secrehishiug to be present are requesteritod. tary not later than satur
Quen's Read, Dalston.

Sueth Midland Braych. -The annual mecting of the above Branch will be held at the Bletchiey Park ILotel. Bletchley, on Thursday, Juoe 1ilh, at 2.45 r.as: The new President, 1I. Veasey, Esq., invites the members to luncheon at the same place previously to the meeting, Irom 1.30 to 2.30 P.M., at which aeeting and place pren ererr qualified medical man will be a welcome visitor. Gentlemen accepting the invitation are requested to intimate the same to the Gentlemen accepting foe invitaton 1 The armagements for a come Lonorary Secretary not later than Jume llth. The arringements for a combined meeting this Year of the Cambs and Hunts and Sonth Miiland Branches having fallen through, the informal reciprocal visits of members, to whom it may he convenient, at the respective mectings, would be most agrecable, and are herehy invited. Agenda :- U'sual business of annual meeting. Resolution on subject of "Fees to Mrdieal Withesses," etr. Communication from Chairman of Parliamentary Bills Committee on Subject of "Lunacy Acts Amerdment Bill" (sce Joorisil, May 12th, p. 102b). The lollowing gentlemen will be proposed as new members of tho Association and Brameh: John Ilenry be proposed as aew memuers What Esq., Bedford: J. Nell Whitield, Esq., Northampton; A. R. Godírey. Eloyde, Esq., Bedford: Weatherley, Esq., Northampton Intrmary. Gentlemen wishing to read papers for discussion, cases, etc., are requested to send the titles of the same withont delay to the undersigncl. The following lave been promised Mr. Muligan : Case of Strangulated Umhilical Iternia:Operation for Radical Cure: Recovery. Dr. Jones : Physical Indications io Heart Affections.-C. J. Brass, Llonorary Secretary, Norlhampton.
lemathamire Brasci.- The next meeting of this Branch will be held in the Lecture Mall of the Perthshire Natural Science Society. Tay Street, Perth, on Friday, June lst, at 4 P.M. The President. Dr. Trotter, in the chair. Agenda: -Dr. Trotter: Scarlet Fever during the Puerperium. Dr. W. B. Gomnns: Case of Poisoning by Hydrochlorle Acid, with Specimen. Election of a Representative to be present at the amual neeting of the Association in Crlasgow during August.-W. B. Gomans, M.D., Secretary, B, St. Leonard's Bank, Perth.
Dorset and West Ilasts Brascir. -The next meeting will be held at Sherborve, on Wednesday. May 30th. The busioess meeting will be hell at the Yeatman Ifuspital, at 2.30 P .38 . The following are the ageuda =-lilection of Branch Conneil and of now members. Election of a representative of the Branch on the Cenncil of the Association. Election of a representative on the Parliamentary Dills Comuittee. Place and date of the summer mecting. Dr. Jahn Roberts Thomson, to move the addition of the following words to By-faw 8 relating to the election of members of the Branch Council, "Personal canvass
recent action of the Committee of Management of the Dorset County IIospita], Discussion: Pleuritic Efusion. Communications: Dr. Leach: Four cases of Discussion: Pleuritic EMasione (London) : Some Polnts of Interest in connec tion with Collective Investigation. Mr. Marah: Short Notes of a case of Lawsen Tait's Operation for Extension of Periceum, with an Uncommon and Lawsen Taits Operation ior Dr. Greves: A case of Cereliral Tumonr (specinen) Unfortunate Termination. Dr. Greves: A case of Cerehral fumonr (specharen, with Remarks on the Diaprosis of Intra-Cranial Tomours Implicating the Cortex of the Brain. Dr. Darison: A case of Infantile Scurcy. Dr. Hac Donald: Our Epilepsy, with Notes of a Case and Pathological Specimens. Dinner at the Digby Hotel at 6.30 P.3.; charge, 6s. each, without wine.Wilinam Vawdret Iush, M.D., Weymouth, C. H. Wamt Pabkissox, Wimborne, IIonorary Secretaries.

SOUTH-EASTERN BRANCIT: EAST SURREY DISTRICT. A meeting of this District was held at the Greyhound llatel, Croydon, on Thursday, May 10th, at 4 p.3. ; T. A. Rrchabdson, Esq., of Croydon, in the chair.

Communications.-Papers, abstracts of which will be found at p. III4, were read by Dr. Goodhart, Mr. Bruce Clabefe, and Dr. PHilpot.

Dinner.-after the meeting, seventeen members and risitors dined together.
METROPOLITAN COUNTIES BRANCT: WESTERN DISTRICT, A meeting was held on Wednesday, May 16 th , at the St. George's Union Infirmary, Fulham Road, Brompton, S.W. Dr. Charlion Bastian, F.R.S., Vice-President of the district, was in the chair, and about twenty members and visitors were present. The minutes of the preceding meeting were read and confirmed.
Chronic Ulcer of the Tongue.-Mr. Butins, F.R.C.S., read notes of three cases of chronic ulcers of the tongue, in which the disease had resisted all medicinal treatment, and eren scraping and freshening the edges. The ulcer was removed in each case by the knife by incisions passing deep into the substance of the tongue. The disease had existed for from eighteen months to three or more years. The author recommended the adoption of this method of treatment in cases of long-standing lingual ulcers in which other measures failed to cure.-A discussion ensued, in which Drs. Bastian, Jamieson, and Mr. Noble Smith took part.

Orthopedic Appliances.-Mr. Noble Sumth gave a demonstration of his more recent modifications of appliances in orthoprdic surgery. Light splints in place of heary instrumeuts; the substitution of metal rods, which could be bent by the surgeon, for the lighly-tempered irons usually made; the simplification of joints in instruments used after operations for club-foot, to sare complication and expense; and the limitation of the restraining influence of all apparatus to the parts absolutely requiring restraint. were among the more noticeable points referred to. The treatment of contracted and relaxed joints and the application of fixation apparatus to diseased spines were also included in this practical demonstration.-A discussion followed, in which Drs. Bastian, Jamiesos, Sheldon, and Messrs. Betlis, s. Bubton, and Steele joined.

Cases.-Dr. Webster, the medical superintendent of the Infirmary, then exhibited patients suffering from diseases of much clinical interest, including a marked case of pseudo-hypertrophic paralysis, lateral sclerosis, and a rare form of skin disease.

Totes of Thanks.-The proceedings closed with the usual votes of thanks.

SOURU-EASTERN BRANCII: WEST KENT DISTRICT.
A meeting of the above district was held at the Hospital, Graresend, on April 27th, R. J. Brrden, Esq., in the chair.

Next Meeting.-It was decided that the next meeting should be held at Maidstone in November, and that Dr. Shaw should be requested to preside on the occasion.

Election of Honorary Secretary.-A. W. Nankivell, F.R.C.S., was unanimonsly re-elected Honorary Secretary of the District for the ensuing year.

Communications.-The following papers were read and discussed. 1. Dr. P, Horrocks: On Tuerperal Fever. -. Dr. TisNaHill: On Symmetrical Gangrene.

Dimer.-Twenty-eight members and risitors subsequently dined at the New Falcon llotel.

Bequests.-Sir Francis W. Grant, Bart., of Monymusk, Aberdeenshire, has bequeathed $£ 1,000$ to the St. George aud St. James Dispensary.-Lady Tite, widow of Sir William Tite, C.B., has bequeathed $£ 800$ to the Hospital for Women, $£ 100$ to St. George"s IIospital, and £100 to the Royal Free Hospital.

## BRITISH MIEDICAL ASSOCIATION.

## FIFTY-SIXTH ANNUAL MEETING.

Tiff: fifty-sixth Anuual Meeting of the British Medical Associntion will he held at Glasgow, on Tuesday, Wednesday, Thursday, and Friday, August 7th, 8th, 9 th, and 10th, 1888.

President: John T. Banks, M.D., D.Sc.(IIon.), F.K.Q.C.P.I., Iiegius I'rofessor of Physic in the University of Dublin.

President-Elect: 1'rofessor W. T. Gairdner, M.D., LL.D., Professor of Medicine in the University of Glasgow:

President of the Cuuncil: Thomas Bridgwater, M,B., J.P., ILar-row-on-the-lIill.

Treasurer: Constantine IIolnan, M.D., J.F., Reigate.
In Address in Medicine will be delivered by Thomas Clifford Allbutt, M.D., Consulting Plysician, Leeds General Infirmary.

In Address in Surgery will be delivered by Sir George H. D. Macleod, M.D., Surgeon in Ordinary to Iler Majesty in Scotland.
A Special Address on his "Recent Investigations in Surgery" will be given by William Maceren, M.D., Lecturer on Clinical Surgery, Glasgow hoyal Infirmary.

An Address in Ihysioiogy will be delivered by John Gray McǨendrick, M.D., LL.D., F.R.S., Professor of Institutes of Medicine, University of Glasgow.

All the rooms required for the purposes of the meeting will, by the kindness of the authorities, be provided in the University of Glasgow.

Humanity Class Room.
A. Medicnes-President, T. McCall Anderson, M.D. Tice-Presidents, W. L. Bowles, M.D. ; George F. Duffey, M.D. Honorary Secretaries, J. McGregor RoLertson, M.D., 400 , Great Western Road, Glasgow; Robert M. Simon, M.D., 27, Newhall Street, Eirmingham. Chernistry Class Room.
B. Surgery.-President, George Buchanan, M.D. Iice-Presidenta, James Dunlop, M.D. ; Charles Robert Bell Keetley, F.R.C.S. ITonorary Secretaries, David Neilson Knox, M.B., 8, India Street, Glasgow; Walter Pye, F.R.C.S., 4, Sackville Street, Piccadilly, London, F .

## Medical Jurisprudence Class Room.

C. Obetetric Medicine.-President, Thomas More Madden, M.D. Vice-Presidents, William Leishman, M.D.: J. Halliday Groom, M.D. IIonorary Secretaries, William Walter, M.D., 20, St. Jolin Street, Manchester: W. L. Reid, M.D., 7, Royal Crescent, Glasgow.

Greek Class 'Room.
D. Pubiac Medicine.-President, Henry Duncan Littlejohn, 11.1). Vice-Presidents, James Christie, M.D.; D. Гage, M.D. Honorary Secretaries, Ebenezer Duncan, M.D., 4, Royal Crescent, Crosshill, Glasgow ; John C. McVail, M.D., Holmhead, Kilmarnock.

Hebrew Class Room.
F. Psychologr.-President, James C. Howden, M.D. Tice-Presidente, James Rutherford, M.D.: Julius Mickle, M.D. Honorary Secretaries, A. R. Urquhart, M.D., Murray IIouse, Perth; Alex. Ňewington, M.D., Ticehurst, Sussex.

> Anatomy Class Room.
F. Anatomy and Physiology,-President, John Cleland, M.D., LL.D., F.R.S. Vice-Presidente, F. J. Anderson, M.D.; Henry Fdward Clark, F.F.P.S.G. Honorary Secretaries, John Barlow, M.D., 27. Elmbank Crescent, Glasgow ; Charles Barrett Lockwood, F'R.C.S., 19, UPper Berkeley Street, Portman Square, W.

Lavo Class Rroom.
G. Pstholoor:-President, Sir William Aitken, M.D., LL.H., F.R.S. Jice-Presidents, Alexander Davidson, M.D.; Joseph Coats, M.D.; Charles Koy. M.D., F.R.S. ITonorary Secretarips, G. Sims Woorlhead, M.D., G, Marchhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34, Berkeley Terrace, Glasgow.

Miduifery Class lioom.
II. Ophthalmologi- - Iresident, Thomas Revid, M.D. Iice-Presidents, J. R. Wolfe, M.D.: C. E. Glascott. M.D. Monorary Secretaries, IIenry Bendelack llewetson, M.R.C.S., II, Ilanover Square, Leeds; A. Freeland Fergus, M.B., 41, Elmbank Street, Glasgow:

Fiblical Class Room.

1. Otology.-President, Thomas Barr, M.D. Fice-Presidents, John Astley Bloxam, F.R.C.S.: J. J. K. Duneanson, M.D. Honorary Secretaries, Jolunstone Macfie, M.D., 23, Ashton Terrace, Glargow: James Black, F.R.U.S., IG, Wimpole Street, London.

English Literature Class Room.
J. Disfeasfa of Cmildren.- President, Walter Butler Cheadle, M.D. I'ice-I'residents. James Finlayson, M.D.; Ilenry Asbby,
M.D. Honorary Secretaries, George S. Middleton, M.D., 23, Sandyford Place, Glasgow; W. Arbuthnot Lane, M.S., F.R.C.S., 14, St, Thomas's Street, S.E.

Conveyaneing Class Room.
K. Pharmacoloay and Theraibutics. - President, James Morton, M.D. Vice-Presidents, John Dougail, M.D.: Theodore Cash, M.D., F.R.S. Honorary Secretaries, Alexander Kapier, M.D., 3, Royal Terrace, Crosshill, Glasgow; Sidncy Harris Cox Martin, M.D., 60, Gower Street, London, W.C.

Divinity Class 7 Room.
L. Laringologi and Rinnology.-President, Felix Semon, M.D. Iice-Presidents, George Hunter Mackenzie, M.U.; Feter McBride, M.D. Honorary Secretaries, D. Newman, M.D., 18, Woodside Place, Glasgow; A. E. Garrod, M.D., 9, Chandos Street, Cavendish Square.

## Programme of Proceedinos.

Tursday, Augest 7 Th, 1888.
9.30 A.M. - Meeting of $1887-1888$ Council. Randolph Hail.
11.30 A.N.-First General Meeting. Report of Council. Reports of Committees. Service in the Cathedral. Bute Hall.
8.30 P.M.-Adjourned General Meeting from 11.30 A.M. Presicent s Address. Hinte Hall.
Wedmesday, August 8th, 1858.
9.30 A.a.-Meeting of 1ss8-89 Council. Randolph IIsll.
10.30 A.M. to 2 P.M.-Sectional Meetings.

3 P.M.-Second General Meeting. Address in Medicine by Thomas Clifford Allbutt, M.D., F.ll.S. Bute Hall. Thursnat. Adgust 9th, 1888.
9.30 A.M.-Address on his Recent Surgical Investigations ly William Macewen, M.D. Bute Hall.
11 A.M.-Meetlng of Council. Randolph Hall.
10.30 A.M. to 2 P.M. - Scetional Meetings.

3 p.M.-Third General Meeting. Address in Surgery by Sir George H. B. Macleod, M.D. Bute Mall.
f P.m.-Public Dinner. St. Andrew's Mall. Friday, August $10 \mathrm{TH}, 1883$.
10.30 A.M. to 1.30 r.M.-Sectional Meetings.

3 p.M.-Conclinding General Meeting. Address in Physioiogy by John G. McKendrick, M.D., F.R.S. Bute Hall. SATURD\& 1 . AUGEST $11 T H, 1888$.
Escursions.

## Anvual Museum.

The Annual Museum will be held on August 7th, Sth, 9th, and 10th, in the Examination ILall of the Cniversity of Glasgow, and will be arranged in the following six Sections:

Section A.-Food and Drugs, including Antiseptic Dressinga, and other Chemical and Pharmaceutical Preparations. (IIonorary Secretary, R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Street.)

Section B.-Pathology, comprising Casts, Models, Diagrams, Microscopical Preparations, and Micro-organisms. (Honorary Secretary, J. Lindsay Steven, M.D., 34 , Berkeley Terrace.)
SEction C.-Anatomy, comprising Special Dissections, Methods of Mounting, Abnormalities, Drawings, Medals, ete. (Honorary Secretary, J. Yule Mackay, M.D., 34, Elmbank Crescent.)

Section D.-Plysiology, consisting of Apparatus, Microscopes, Microtomes, and Nicroscopical I'reparations of Normal IIstology: (IIonorary Secretary, J. McGregor Robertson, M.A., M.B., C.M., f(0), Great Western Road.)
Section E.-Instruments and Books, including AppliancesMedical. Surgical, and Electrical. (Honorary Secretary, J. Macintyre, M.B., C.M., 173, Bath Street.
Sectron F.-Sanitation (1) Domestic Sanitary Appliances, cmbracing all Improvements applicable to the Treatment of the Sick in Private Dwellings. (2) Personal Itygiene, including Dress and Gymnastic Appliances. (3) Ambulances, Carriages, and nll other Appliances used for the Conreyance and Treatment of the Sick Drawings, Models, and Apparatus illustrative of the Ventilation. Lighting, and Draining of Hospitals. (5) Hospital Furniture. (6) Sanitary Appliances in connection with Educational Insticutions and Public Buildings. (1lonorary Secretary, 1, 2, 3, Robert I'ollok, M.B., C.M., Pollokshields; Honorary Secretary, 4, 5, and 6, A. 11 . Russell, M.A., M.B., C.M., Western Infirmary.)

Intending exhibitors should communicate as early as possible with the Secretary of the Section in which they propose to exhibit, as the Museum Catalogue must be complete one month before the date of meeting. Inquiries as to adrertisements in the Catalogue should be sent without delay to Dr. Thomson, 3, Melrose Street, Glasgow.

Honorary General Secretaries of Museum Committec, A. Ernest Maylard, B.S., M.B., 54, Berkeley Terrace; R. S. Thomson, B.Sc., М.B., C.M., 3, Melrose Terrace.

Francls Fowne, General Secretary.

# SPECIAL CORRESPONDENCE. 

## PARIS.

[FROM OUR OWN CORRESPONDENT.] Orypropylendizsoamylamine.-Common Salt in Migraine.-Hygiene of Vewborn Infants.-Taccination Institution. - Hydrophobia in France.
Ar a meeting of the Société de Biologie on April 21st, M. E. Louise read a note upon the action of oxypropylendiisonmylamine on the circulation and respiration. From a considerable number of experiments on dogs that had undergone tracheotomy, it appeared that the inhibitory action is destroyed by the influence of
the poison, and the heart's action becomes violent and disorderly; the pressure increases in the arteries, and the vessels of the nerrous centres receive a rush of blood, causing disturbance. During the fits the heart is tetanised; this causes general cengestion of the veins, which no doubt helps to prolong the epileptiform attack. The animals during the minor attack express terror or fury, which is naturally, as in the convulsive fits, the result of the anatomical connections between the brain and the heart, which render constant the exchanges and reciprocity of action between the two organs. It the same time that the heart is affected there is considerable diminution in the number of inspirations and augmentation of their amplitude.
The Annales de la Société Médico-Chirurgicale de Liége indicate the prevention or cure of migraine by the ingestion of a certain quantity of salt. The treatment was discovered by chance. Dr Rabow advised a young man suffering from petit mal and aura to swallow some kitchen salt at the first symptoms of the aura, according to the method of Nothnagel. The prescription was carried out with success. The patient's aunt, who had suffered from migraine for seseral years, also adopted the plan of taking a halfspoonful or so of salt at the first appearance of the symptoms wenting preceded her attack of migraine. She succeeded in preventing the access, or at least of subduing it at the end of half an
hour. same rem. Rabow, encouraged by this observation, employed the cases sea salt administered at the beginning of the access has produced remarkable results. With some patients, however, the method has failed. It is probably to some reflected phenomena that the above result is due.
At the meeting of the Association Française pour l'Araucement des Sciences, on April 2nd, a note from Dr. Haro, of Montpellier, was read, on a new decision of the municipality concerning the hygiene of young mothers and newborn chillren. Dr. Haro suggested to the Mayor of Montpellier to join to the livret the first principles of hygiene for women during pregnancy and confinement and newborn children. The Mayor received the proposal favourably, and at the session of the Consail Municipal, Marcli 7th, it was decided that the instructions drawn up by Dr. Haro. and approved by the Conscil Dspartemental dllygiene, should be added to the liuret presented to newly married couples by the civil officer.
The formation of a Medical Institute for Vaccination, which has long been contemplated, is a bout to be accomplished. A commission has been formed, composed of MM. Peyron, Levraud, Vaillant, Chautemps, Dubrisay, Risler, Brouardel, Priust, Du Mcenil, Lépine, Bezanc̣on, Mourlaun, Bandouin des Salles. This Commission has consulted MM. Chaureau, who founded the Institute for Vaccination at Lyons; Nocard, director of the Vaccination College of Alfort: Yaillard. who is appointed vaccinator at Val-le-Grace; Chambon and Launay, vaccinators; Gallois and Bouvard, architects. The result of the inquiries made hy this Commission will be submitted first to the Council of lnspection, and subsequently to the Municipal Council.

A Hygienic and International Fxlibition will be opened at 1) stend on June 3rd; particulars coneerning which may be had by
 H. Leon Colin, in his report on the death, caused from lydropholia, of the soldier Marinot, draws attention to the great in-
crease of this unanimonsly malady, and urges the enforcement of the measures being of the same opinien, the llygicuic Council appointed a contmission to draw up a notice, which is to bo posted up publicly. 1u this notice it is stated that hydropholia being considerably on the increase, all doga found wandering alone will be seized,' those
without collars to be killed immediately, those with collars will be kept three days, and killed if not claimed.

## BERLIN.

[from our own correspondent.]
The change of weather has had the best effect on the condition of His Majesty the Emperor. Sir Marell Mackenzie on May 17th for the first time allowed his illustrious patient to be brought into the magnificent park of Charlottenburg Castle. There he spent some time in a large and lofty tent which had been constructed for him in the quietest part of the garden, and afterwards drove in a low carriage drawn by a quiet old pony; a present from his royal mother-in-law. The experiment turned out very favourably. The evening fever, which already before had nearly totally disappeared, did not recur. His appetite and sleep are excellent. His vigour and elasticity of better days are beginning to return. lle can already walk without help through the rooms of the castle, and he is in excellent spirits. It may be added that Professor Virchow, who has just returned from Egypt. could not find any carcinomatous cells in the sputum, but only pus cells. Though this negative result does not of course prove the German public. the malignant nature of there this sither any doubt about improvement gives grounds for hopes that the life on which such vast issues depend may still be prolonged for some time.

## GLASGOW.

[From our onn correspondent.] and Loch Goilhead.-Glasgovo Botanic Gardens.-Andersonan Chemical Society.-Compensation for the Loss of an EyreHealth of Greenock.- Tital Statistics for Scotland.-Orphan Homes of Scotland.
Arrangements for the meeting at Glasgow are now very well advanced. The various sectional office-bearers are busy arranging for papers and discussions, and details for the accommodation of sections within the University have been definitely settled. Socially the mecting promises to be a marked success. The cirporation of the city and the University authorities are heartily co-operating with the various entertainment committees to make the visit to Glasgow a memorable and enjoyable one. There have
been already arranged a conversazione to be given by the Principals and I'rofessors a conversazione to be a convery the to be given by the Corporation of the city, and a garden party in the Botanic Gardens to be given by the Fuculty of Physicians and Surgeons. Then it is expected that the Committee will be able to provide for the members achieved a phenomenal success, and ought to be to members of the Association a source of much attractive interest and plessure For the Saturday's excursions, no fewer than ten separate tomra have beon arranged, so that strangers will have an opportunity of seeing all that is finest in the firth, lake, and hill scenery, for which the west and middle of Scotland are famous.

Memorials from inhabitants of the shores of Loch Long and Loch Goilhead have been prepared for presentation to the Secratary for Scotland craving for mmediate action being takeu by the Government on the lines indicated by the recent report of Jir. Fetcher. The fishermen have also memorialised the Governmen on the suliject.
The Corporation of Glasgow and the proprietors of the Botanit Gardens are likely to come to some agreement which will pernit of the gardens being opened for the publie enjoyment at a mortrate charge. The gardens hare been closed becanse of the Corpnration calling for payment of $£ 50,000$ lent on the security of the gardens. This call the proprietars conid not mect. The gardens what is to ho done with them. They are opened in the meantinn only temporarily, the main question not yot being settled.

1'rofessor Crim Brown, of Edinhurgh, lecturel to the Andersonian Chemical Sacicty on May Isth on "Some Points of Interest in Chemical Theories." Ife expressed and illustrated the vien* of the actual facts and relations, were o poor sort of knowledgy of the actual facts and relations, were a poor sort of algebra, nai
that common sense was worth a bushel of formule. l'rs? ?-

Dittinar, who presided, moved a vote of thanks, and thanked l'rofessor Crum Brown for having hroken a lance in favour of common sense as an essential element in all chemical inrestigations.
In the Sheriff Court of Glasgort a hoy has been awarded eff ns compensation for the loss of his left ere. He was in the empheyment of the Clydesdale Iron Works, and was set to fix a punch in a puncling machine. In doing so patt of the apparatus broke and a fragment struck his eye, destroying it. The sheriff decided that the boy was ignorant of the wark and unqualified for it, nnd mught not to have been set to do it. He therefore awarded danages and expenses.
Dr. Wallace, the Medical Oflicer of Health of Gireenock, reports that during April the death-rate was lower than at any time since 1875 . The total mortality during the month was 94, equal to a rate of 15.6 por 1,000 . In the same time 11 cases of infectious disease were reported, including 1 of typhus fever, 1 of scarlet ferer, 3 of measles, 3 of whooping-cough, 1 of diphtheria, and 2 undefined.
The thirty-third annual report of the Registrar-General was recently issued. The estimated population of Scotland at the middle of 1887 was $3,991,499$, of whom $1,334,215$ were males and $2,057,284$ females. During the year there were registered 124,375 births, 74,500 deaths, and 24,851 marriages. For every hundred estimated population there were 3.12 births, 1.87 deaths, and 0.62 marriages. The births show a lower proportion than in any previons year. The deaths were rather less in proportion in the preceding year, and the marriage-rate is a little in adrance of that for 1886 . The excess of births over deaths is 49,875 . The highest birth-rate in the eight chief towns was in Paisley, the lowest in Perth. In the former city it is 370 per 10,000 , and the birtl-rite for Glasgow is 369 , the Perth rate is 275 . Of the total number of births, 43,057 , 8.46 per cent. are illegitimate, namely, 3.643. In Aberdeen the percentage is 10.6 ; in Glasgow, 8.3 ; in Edinburgh, 8.5 ; in Paisley, 6.5 , and in Greenock, 5.4. Of the total births in the eight towns, 22,025 were of males and 21,032 of females, the proportion of boys to girls being as 104.7 to 100 . The deaths in these towns were 22,068 (males, 13,793 ; females, 14,275 ), representing a rate of 216 in every 10,000 . The Paisley rate was 260 per 10,000 ; Glasgow, 231 ; Alerdeen, 218; Dundee, 212 ; Greenock, 198; Edinburgh, 197 : l'erth, $184 ;$ and Leith, 175 . In all cases except Glacgorw and
Leith, these ratos are an increase over those of 1886 ; and in all cases except Aberdeen and Paisley, they show a decrease on the mean for the preceding ten years. As to deaths among ehildren under five years of age, 74 out of every 1,000 succumbed in Glasgow, in Paisley the number was 72, in Ediuburgh 56, and in Perth $5_{2}$. Of the total mortality the deaths among clildren made 47.3 per cent. in Greenock, 44 per cent. in Glasgow, 35.1 per cent. in Edinburgh, and 34.8 per cent. in Leith. The marriage-rate was 79 per 10,000 , or a total of 10,266 . In Glasgow it is highest at 86 , and in Greenock lowest at 62 . In the eight principal towns only 4 deaths from small-pox were recorded during the year.
On May 17th 120 boys and girls rescued by the Orphan Homes of Scotland sailed from the Clyde for Canadn, under the eare of Mr. Quarrier, the founder of the Homes. Mr. Quarrier explained at a farewell meeting that between 400 and 500 children had been rescued in the prerious twelve months, and that there were at present 1,100 children in the Ilomes. During the year he had received money to build two new houses, and the total money received had been $£ 14,000$. He had rescued during the past serenteen years something like $\overline{5}, 000$ chilidren, and he calculated that that meant a saring in rates of about $£ 200,000$.

## LIVERPOOL.

[FROM OUR OWN CORRESPONDENT.]
Post-graduate Course.-Funeral of Dr. Rich.-The "Cat."-Meeting of Sanitary Inspectors.
A post-graditate course of lectures is being delivered at the School of Medicine by the professors and demonstrators. The entrics have been fairly numerous. This is the first time that a course of this kind has been attempted in Liverpool, and the success of the scheme that has been already attained angurs well for its future.

The funeral of the late Dr. A. C. Rich, whose early death was recorded in the Journal of May 19th, took place on that day, and was attended by a large and representative gatherng, both of members of the profession and of the general
public. A detachment of the sth Lancashire Voluntecrs, to which regiment the deceased was surgeon, was present at the cemetery, and the path to the grave was lined by $a$ number of the employés in the Liverpool postal and telegraph service, of which he was medical superintendent. A contingent of police constables was also present, the men wearing the badke of the St. John Ambulance Association, in connection with which Dr. Rich was a frequent lecturer; and there also attended representatives of charitable institutions which had enjoyed his gratuitous services.

A somewhat lively correspondence has lately appeared in the daily papers with regard to the punishment of criminals by flogging with the "cat." At the recent assizes several prisoners convicted of violence to the person were sentenced to the lash, and one of the leading Liverpool journals expressed a fear that by its use our large prisons would be conrerted into a kind of shambles. The "eat" consists of nine thin cords, eighteen inches long, fastened to a wooden handle twelve inches in length. The cords are not knotted, but the free ends are fastened off with fine twine. When applied it does not cause an abrasion, and the resulting cechymoses hare generally disappeared before the end of a week.

At a meeting of the Association of Sanitary Inspectors of Great Britain, held here on May 19th, resolutions were carried in favour of the due qualification of inspectors, and fixity of tenure of office; and sctting forth the need of a uniform Public IIealth Act for the whole kingdom.

## CORRESPONDENCE.

RESEARCI AT TIIE COLLEGE OF SURGEONS.
Sir,-In your last issue appeared an announcement inviting Fellows and Members of the College to apply for the privilege of using the new laboratories of the College of Surgeons in Lincoln's Inn Fields, and you were able to publish the conditions under Which the pririlege can be obtained, and the subjects of research which it is proposed shall be carried on. To those of your readers acquainted with research work, the eonditions of study as laid down by the Council camot be other than a marrel. Any Fellow or Member of the College, when applying to be permitted to work in the laboratory must send in a prospectus or description of the proposed inveatigation with as complete a list as possible of the necessary apparatus and instruments he will require. This has to be approved of by the Council. If the applicant is successful in his application to carry on the research he proposes, he is prohibited from undertaking any new line of research other than that originally approved by the Council without their previous sanction. If any assistance be required the investigator mar provide it, but the person, or persons, proposed must be approred by the Council. It seems almost incredible that any committee, any one member of which was acquainted with research work, could have drawn up such a set of conditions. The merest tyro at research work knows full well that the conditions required by the Council are impossible. Everyone wilh even a slight knowledge of research work before beginning an investigation of a suliject has some ideas as to how he will conduct his researches; these he may doubtless submit to the Council, but if he has had much previous experience in original work he knows full well that such a programme is utterly worthless. Before he has completed the priliminary investigation of his subject he will as likely as not find
it necessary to modify considerably or even entirely change the it necessary to modify considerably or even entirely chang from
mode of his procedire. This, hovever, he is prohibited for doing by the conditions under which he is permitted to use the laboratory without the consent of the Conncil.

It is by no means an exaggeration to assert that an experienced investigator would, in all probability, have to go to the Council six or eight times in the course of an investigation on \& single subject for permission to alter his programme, each time submitting to them a course of investigation, which further researcly would lrove uscless, or yield only negative results. It is only by experience and results obtained during each stage that even a highly trained investigator can determine the course and methods he must adopt in order to work out a subject successfully. Exactly the reverse of this is cxpected by the Council of the College, who
expect him to apply with all the methods ready cut and dry. Unless the conditione of study are modified in this reepect, the Council are taking, without doubt, the most effectual way to obstruct good reaearch work. This is much to be regretted, as it is in their power to bestow a great boon on those members of the profeasion who are able and willing to carry out work in which we, a\& $\AA$ nation, are far belhind our neighluours on the Continent
It is evidently not the purpose of the Conncil to provide an experienced head of the laboratory who shall give counsel and asaiatance to those working in the laboratory, but it seems strange that the investigator must be further handicapped by requiring to have the person or persons from whom he obtains such assistance approved of by the Council. When we contrat the regulations required by the College de l'rance, the various German universities, and the University of Cambridge, of those who are willing to carry on research within their walls, we are forced to the conclusion that only inability to be absent from London for a sufficiently long period would induce men to use the College laboratoriea. In the former they are untrammeled by any hard and fast lines such as are laid down by the College of Surgeons, and they have likerrise the advantage of the assistance in their researches of a professor or superintendent of the laboratory of great experience in research work, to whom they may at once apply for counsel and adrice.-I am, etc.,

## a Fellow of the Coliege.

## THE CHAIR OF HYGIENE AT NETLET.

Sir,-The nnnouncement made in the Journal of May 19th that it is proposed to appoint Depaty Surgeon-General Marston, C.B., to the Chair of Military Hygiene in the Army Medical School, has created what is known as a " sensation" throughout the serrice at home, and will doubtless be regarded with like astonishment in all parte of the world where this Journal circulates. Dr. Marston is a medical officer of ability-no one disputes the fact, and his best friends do not say that his public services hare been overlooked. There is, however, an objection to this appointment which hhould be fatal to it-Dr. Marston is not a chemist. Is it right and fitting, is it eren decent, that the successor to Professors Parkes and De Chaumont sheuld be a man of whom such a thing can be truthfully said? It is true that this officer during the inlness of the late jrofessor delivered, as we have heard, some very good lectures on hygiene, embracing such parts of this great subject as did not require any special chemical knowledge; but it is equally true that he took no part in the specinl laboratory instruction, which, as is well known. formed the most important part of the course nuder Professors Parkes and De Chaumont. Dr. Marston himself would be the first to gire a reason for this, to wit, incapacity. It is no discredit to Dr. Marston to say that he is not a master of this brancl of science. We cannot be specialists on every subject, but if this appointment is made, the discredit will lie at the doors of those who made it.
There is only one word of three letters in the English language that will adequately characterise what will be an injury to the school, and an insult to the memory of the eminent men who filled his responsible post with honour to themselves and advantage to he State. 1 should not write thus strongly but that I know that ny indignant sentiments are also those of the great mass of the

Army Medicai Department.

## electricity in ghnecology.

Sir,-May I ask Mr. Lawrson Tait to substantiate or withdraw I remark made by him in the Jornsal for May 19th to the effect hat 1 had proposcd electricity "for the arrest of hemorrhage in sases of ruptured tubal pregnancy?" I think I may safely assert hat such a preposterous proposal never cutered anyone's hend but Mr. Tait's, and I now challenge him to bring forward the least particle of evidence upon which a rational man could found such i reckless assertion. What I have proposed and still confidently secommend is the electrical treatment of extra-uterine gestation nits carly or pre-rupture stage. This plan of treatment has heen ior many years successfully employed in America, and is new haroughly eatablished and adepted by the most eminent gynxsologists of that country. 1 have used it, and have the henour of seing the first in Britain to publish a successful case. It was elated at the Brighton meeting of the Asseciation; and Mr. Tait, The aays: "He is not aware that any opposition, or abuse, or idicule, has been directed towards the advancement of electrical
treatment," apeaking after the reading of the paper, said: "He offered objections of the very atrongest kind against the use of the electric current in such cases because be considered it as onc of the most nonsensical proposals which had ever been submitted to a surgical andience."
Mr. Tait also maintained that electrical treatment ought to be carried out by an accomplished electrician. Now, the two cases of extra-uterine gestation treated in this country before mine were done according to the adrice and with the assistance of an accomphished electrician, and in both casea a dangerons electrical methord was adopted, ending in the death of hoth women. The position of the electrician to the gynecologist is similar to that of the organblower to the organist; one supplies the force, the other directs it. But by a mechanical arrangement easily mastered the organist can blow with his foot and play with his hands. So ought the gynecologist to master the use of the battery and direct its force with safety and efficacy, for the management of a battery can be learnt in as many hours as it takes years to make a skilled gynxcologist. What does an electrician know about the passage of a sound, or the selection of a safe spot for galvano-puncture, or the condition of a patient necessary to render the use of electricity safe?
I quite agree with Dr.Playfair that the gynecologist is the only person in a position to carry out the details of electrical treatment without risk. It matters not whether the effect of the galvanic current be polar or interpolar, or whether the catalytic results originate in caustic, electrolytic, or cataphoric actions, or in the influence which electricity has upon the vasomotor or trophic nerves. The electrician can give us theories on these subjects, but the clinical experience of the gynecologist must decide whether the battery is to take its place as an important electrotherapeatic agent and be permanently used by the gynacologist. -1 am, etc.,
Upper Wimpole Street, W., 3tay 21st.

## TEA AND TEETH.

Sid,--Your correspondents appear to have beeu unaware that in the cities of the United States of America, where tea is consumed in much smaller quantities than in this country, the teeth decay more rapidly than with us. The climate, the many indigestible articles of diet, the extreme nerve-tension of the Americans, and other causes affecting the nervine and general health of that great people tend to induce a dyspeptic condition which alway: seemed to me to be largely responsible for their premature dental decay.
At the same time there can be little doubt that the white bread and tea (a common though defective staple diet of too many of our own population) is a frequent canse of gastric trouble. Next to tea, alcohol, by its depravity of the digestive apparatus, has alwars seemed to me to interfere with tooth nutrition and soundness.
It is to be hoped that the correspondeuce on this subject in your columns will draw permanent attention to the great need for a judiciously-selected, nourishing, non-stimulating, and wholesome dietary.-1 am, etc.,
42, Grove Road, Regent's Park, London, N.W., May 21 st .
Sir,-The alleged influence of excessive tea drinking upon the teeth scems to excite so much interest, that it may be well to bring the matter to a definite and useful issue. It may be taken as an indiaputable fact that tea can hare no direct effect upno either the teeth or the tissues of the mouth leading to dental disease, and whatever effect it produces in that direction can be brouglit about only through its influence upon digestion on the general liealth. There are so many factors in the remote causation of dental discase, that it must be rery difficult to demonstrate the exact part which any one of them may take, but there cannot, as some of your correspondents seem to suppose, be any difficulty in the clear recognition of any dental disense co-xistent with tea drinking.

Dental diseases are few in number, simple in nature, distinct in character, and easily classified and namerl. Cariea (decay), with its sequels intlammation of the dental pulp (nerve) or periosteum, are by far the most common of dental maladies : and in so far as tea drinking might aid in inducing dyspepsia or any affection accompanied br vitiation of the oral secretions, so far would it become a factor in exciting caries.
A correspondent who writes of dental disease and tea drinking among factory hands, will find many other things in the regimen
of these people to account for the fact which he observes. They usually earn good wages, their food is superabundant and ill cooked; they sometimes take too much beer and coarse spirit; their work is largely sedentary, and carried on in the warm, often moist, atmosphere of imperfectly ventilated rooms, so that they mostly suffer from chronic dyspepsia, and commonly accept it as an ovil of life from which there is no escape. Add to this that tooth-brushes are unknown among these communities, and that the teeth remain from childhood covered with tartar, and with the debris of food. epithelium, and secretions-a decomposing mass constantly giving rise to formation of acid capable of dissolving enamel-and we have enough to account for the early onset and rapid progress of tooth decay from which they suffer. Some correspondents write, but rather raguely, of maladies affecting the gums and roots of the teeth. There are well known diseases of this kind. Some of them very much resemble diseases of the linir-varions kinds of baldness. In many of these instances, the patient's liealth being good and the teeth free from ordinary decay (caries), the teeth slowly loosen, and are lost through very gradual absorption of the alveoli, very little or no inflanmation being present until towards the end. In most cases the symptoms eommence with inflammation, appearing to affect simultaneously the free edge of the gum and the alveolar periosteum. The gum and alveolus slowly waste, the bone in many instances more rapidly than the gum. There is a diseharge, varying in quantity, of muco-pus from withiu the loosened swollen border of the gum. Tartar may be deposited in vast masses on the exposed surfaces of the roots, but often exists only in the form of small hard black nodnles beneath the gum. The disease may affect one toothonly, but more commonly attacks several at the same time, gradually extending to the whole set. The inflammation usually is extremely chronic, with occasional subacute, and, in late stages of the disease, acute exacerbations extending throughout the alveolar periosteum of the affected teeth. This disease, sometimes called pyorrhoa alveolaris, if not a disease of modern life, seems on the increase at the present day. It is probally not commonly of local origin, but beyond the fact that it is usually associated with some form of general ill-health or dyscrasia, it is impossible as yet to determine its etiology.

If correspondents interested in this subject would make necurate diagnosis of the dental diseases which they find associaterl with tea drinking, the first necessary step in settling the question broached will have been taken, and I venture to express a very decided opinion that tea drinking and tooth lecay will be found very rarely, if ever, to exist as cause and effeet, or to liave any other than amerely post hoc relation.-I am, etc.,

40, Wimpole Strect.
Henry Sewill.

## THE RELATIVE VALUE OF THE BROMIDES

Sir,-For the last two or three years I have thought that the basic element was the eausc of some of the uncomfortable symptoms produced when the iodide or bromide of potassium has been preseribed in large and contimual doses; and with the intention of, if possible, avoiding them, I have, both in my hospital work and in private practice, prescribed the sola salts instead of the potassium salts, and with marked advantage to some of the unpleasant symptoms, but with no corresponding diminution of the beneficial effects of these drugs.

1 would especially mention the loss of appetite, the emaciation and nausea which occasionally happen to patients who have for long had the iodide of potassium prescribed, and the severe epigastric pain which sometimes follows the liko administration of bromide of potassium. We should bear in mind that the potassium is most usually given only as a vehiele for the acid element, and it stands to reason that if we can find a more wholesome vehicle that vehicle onght to be employed. But there is moreover another reason, namely, the combining weight of potnssium is $30,0 t$, while that of sodim is only 2iz.09. The combining weight of iodine is 1043,73 , and that of bromine is 79.75 . From thesu data we calculate that every 10 grains of bromide of potassium contain 6.i:2 grains of bromine, and that every 10 grams of bromide of sodium contain 7.7 b grains of bromine, so that in orler to prescribe the same reeight of bromine we must give, instead of 10 grains of bromide of potassimm, only 8.6 grams of liromide of sodium. So also with the isdile of potassium, a 10 -grain dose is represented by a 9 -grain tlose of iodide of sodium.

Thu. we see we are actually giving a smaller guantity of what we contend is a more wholevome vehicle when we preseribe the sodium salt. It is true that at present the sodium salts are little
more expensive than the potassium salts relatively to the amount of the acid element contained in them, but this is probably because the demand for the sodium salts is so much less than for the potassium salte. Soda is really less expensive than potass, so that if the demand for the soda salts increased, they would diminish in value, and would in the end become relatively cheaper than the potassium salts.-I am, etc.,

Robert Cory, M.D., F.R.C.P., Assistant Obstetrical l'hysician to St. Thomas's Ilospital.

## TIIE IROPOSED SUPYLEMENTAL CIRARTER OF TIIE

 RUYAL COLLEGE OF SURGEONS.Sir,-As an independent Member of the College, I have read with regret that an attempt has been made to pateh up the differences at present existing between the Council and Members of the College, by omitting from the proposed supplemental charter certain points assumed to be the only ones in dispute.
Should this attempt succeed it is quite plain that needful reform will be indefinitely postponed, as the Members will have lost the advantage which they now possess in the necessity for a revised charter, and will be as far as ever from having a reasonable voice in the managemeat of their own affairs and the administration of their own property.

I would further suggest that there is no good reason why either Fellows or Members should be, as at present, debarred from borrowing their own books, a privilege which is enjojed by our American confreres, who can even have the books sent by mail to any part of the United States.-1 am, etc.,

Ebward Havghton, M.D.
Upper Norwood, S.E., May 19th.
TIIE SANITARY CONDITION OF HAILEYBURY COLLEGE.
Sir,- Yon state in your comments on Dr. Stevenson's last analysis of the well-water (published in the Jourvar of May 19th) that you "hare no desire to impugn the quality of the Haileybury water." Your sincerity will, 1 feel sure, allow me space to point out that, in the course of those comments, you do "impugn" it-unfoundedly, I venture to think-through misapprehensiou and incorrect statement of the actual facts, and consequent confusion of the inforences drawn from them.
First, in his report, published in the Jounval of April 23 th, your commissioner stated: "I understand that Dr. Stevenson, of Guy's llospital, has been lately supplied with a sample (of water) for analysis, which will probably throw some light on its present quality." Your commissioner, at the time of lis visit to Haileybury, was made aware of the existence and receipt of Dr. Stevenson's previous analyses, if he did not actually examine them ; and-sinee in my letter to him of April 9th I had stated that "a sample of this elearer water is again in Dr. Stevenson's hands for analysis"-it was natural to infer that it was to this, the latest sample, that he referred in the passage I have quoted from his report.
It so happened that this sample miscarried; Dr. Stevenson, wrote to me, under date April 13th, that it had not reached him. Accordingly, fresh samples (of water presenting identical plysical claracters) were sent to him on April 18th. When, therefore, in your note to my letter, published on May 5th, you challenged the production of "Dr. Stevenson's last analysis, with his notes and remarks thereon, which we presume are by this time in the possion of the College nuthorities." it was but natural, in all gooll faith, to send you precisely what you had asked for, and what appeared to be all that you required, namely, the full report of the "last analysis," and the only one made subsequently to those which Mr. Bailey Denton knew to be already in cxistence at the time of writing his report.
Under these eircumstances, was it guite fair to imply that the report sent to you by me had heen substituted for the copy of a "previons analysis more npplicalle to the point at issue," you at the same time not publishng the remarks which 1 sent therewith, and which explained Dr. Stevenson's refereuce to the "organic impurities found in the water lately?"

Had you delinitely asked for the reports on the carlier analyses, I have little doubt that they would have been at onee supplied, accompanied by Dr. Stevenson'a letters roferring to them, and much modifying a former expression of opinion. At the present time I am not in a position to anticipnte in this respret the exhanstive report which is to be laid before the Council ou May 23 rd .

Iou remind me that the sample of April 18 th "was taken at a ery farourable time during the holidays." In return, let me oint to the equally favourable analysis (of "a phenomenally ure water"), dated October 11 th, 1887 -the middle of a full erm. Further, the analysis and report for which you asked (and which, you stated, you would "gladly publish") on May 5th vere in your hands on the carly morning of May 7 th, and their eceipt was acknowledged by you. The report was not published until May 19 th. This may have been unavoidable, but the apparent lelay in the acceptance of your challenge certainly tended to preudice the position of IIaileybury in the minds of some of your eaders.
Secondly, in justice to both Dr. Stevenson and myself, I ask for he grounds of your statement (on p, 1079) that a eample of water ubnaitted for analysis, "according to Dr. Shelly, was stated by )r. Stevenson to have been " most discoloured." That an analyst hould state respecting a chalk-water that it was "most disoloured " would, of conrse, be strong prima facie eridence of its mpurity; but no such phrase nor any like it occurs in any of Dr. vater; and I have no recollection of having attributed to Dr. ftevenson any expression which be did not use. It is, I submit, unfair to Haileybury to publicly state that Dr. Stevenson at ny time described the water in these terms, or that 1 said he lid 80.
Thirdly, in justice to Haileybury, I ask the grounds for your tatement that samples of water were sent to Dr. Stevenson for nalysis "on or about Lady Day " (and again, more definitely, " on farch $23 \mathrm{rd} "$ ), because, on this quite erroneous statement, and in onjunction with the comparatively scanty rainfall which pre:eded that assumed date, is based the further inference that there ras no "cause, atmospheric or otherwise for the discoloration of he deep water in the chalk" at the time when the sample of dis:oloured water was submitted for analysis.
Fow for the facts. The authorities at this time were anxioue o submit a sample of discoloured water-and that the darkest ob-ainable-for analysis. On "March 23rd," and after the fall of enly 1.65 inch of rain" (more correctly, 1.90 inch), the wellvater was atill bright and clear; and let me repeat, as an absolute act, constantly verified and quite beyond mere theorising, that he well-water becomes discoloured only after prolonged and heavy ain. Indeed, it was not until April 3rd (that is, eleven days ater than the date given by you), when nearly 4 inehes (not "only 1.65 inch ") of rain had fallen, and after there had been wenty-two (not "twelre") days of rain, that the water was ound to be really tinged with yellow and snitable for the special ourpore intended. Samples were accordingly sent to Dr. Stevensen on that day (April 3id). All the above facts were accossible to our commissioner. It was the analysis of this water which was, is you atate, in possession of the school autlorities on April ith. $t$ reached them only that morning; it could not be handed ser to Mr. Bailey Denton when he called on the master that nerning (thongh he was told of it), as it was required for the neeting of the Council at midday. It was not enbsequently tsked for.

1 hold no brief for IIaileybury. To me-to all of us there-it would be vastly more satisfactory to detect, and thns to abolish, 1 definitely insanitary blot, than to be harassed by obscure and insidious inroads of disease. But I do plead for a fair statement of acts. The Journax possesses a wide circulation, and wields a ,et wider influence. The public is often more readily persuaded f evil than braced to impartial judgment. I believe your sincere mpartiality may be trusted to correct the misstatements as to acts which I have pointed out, and to retract the false concluions to which such statements would, if not corrected, obviously ead your readers.
Finally, may 1 remind 8 uch of your readers as are directly inerested in IIalleybury that the Council will almost immediately sare hefore them a report-minute, lengtly, and most exluaustive -on the whole subject of the recent illness, prepared with most oainstaking diligence by an expert whose distinguished ability in his department of hycienic investigation is acknowledged, and xho was specially recommended to the Council by the Medical Jficer of Her Majesty's Local Government Board as a man eminently fitted for such work?-I am, etc.,

Ceas. Enfod. Shelly, M.B.Cantab., ctc.
Medical Officer, Haileybury College.

THE APOTIIECARIES' IIALL AND TIIE TITLE OF ITS NEW LICENCE.
Sir, -The licence of the Society of Apothecaries is, as your correspondent of last week writes, "a full qualification" in medicine, surgery, and midwifery, and it gives to its holder the right to use the excellent title of "Apothecary," which is a designation, in the present day, far more respectable than that of "Doctor." By registcring the qualification its holder acquires a right to take and use the additional title of "Surgeon," so that a registered apothecary may describe himself on his door plate, or in any other way, as of yore, "Surgeon, Apothecary, and Accoucheur." For general practitioners, what descriptions can be nore respectable; what so respectable, 80 genuine, so honest?

Your correspondent is so unaware of the fact that the Medical Council have no power to alter the titles conferred by the licences granted by our examining bodies, that he modestly expresses a "hope" that the Council will, upon his request, anonymonsly made, "take up and decide at once" the question of his title. which, for want of infermation and reflection, he thinks should be represented by the letters "L.M. and L.S.Lond." Now, what do the public know or care about the initials of our qualificstions? To the profession and to lawyers, "L.M.Lond." would imply "Licentiate in Midwifery of the Royal College of Surgeons," which would render any apothecary taking that title, unless he possessed it, liable to criminal proceedings.

It is most lamentable and amazing that members of our profession take no trouble to ascertain the legal value, the scope, the privileges of even their own qualifications, let alone the qualifications of others with whom they have to compete. Only on Friday last a young gentleman practising in Brighton as a general practitioner, without any English qualification whatever, but with two Scotch degrees of the year 1882 , asserted in conversation with me, quite innocently and positively, that anyone holding a foreign degree only could pnt "Dr." on his door and practise in England without fear of legal molestation. IIowever, the gentleman to whom this conversation referred knew better, for apon my demanding of him his christian name for the purpose of a prosecution by the Alliance, he wisely and at once took down his illegal description; but, for all that, the matter, as regards his employer. and who is the most to blame, will be laid before the Medical Council.-1 am, otc.,
R. H. S. Carpfinter.

Stockwell Road, May 21 st.

## NAVAL AND MILITARY MEDICAL SERVICES.

## TOLUSTEER MED1CAL ASSOCIATION゙.

A Deputation will wait upon the Right Hon. the Secretary of State for War, on Tuesday, June 5 th, at I P.M., relative to the needs of the Volunteer Medical Service. Those volunteer surgeons Who are desirous of joining in the deputation are requested to commwnicate their names at once to the Honorary Secretary of the Association, Alfred Lingard, Surgeon, 3rd M.A.V., at the offices. 26, King William Street, Strand, and to meet at such place at 12 o'clock on the day named.

DEFENCE FUND FOR THE ARMY MEDICAL DEPARTMENT.
Onser Onserver writes : hope the suggestion fund may be starter to protect the innot be lost slght of, and that a detence fond mat onfficlent funds will be availterests of the medical staff. Independent position, will only set the "hall able, If rolling."

ARMY MEDICAL STAEF.
Verbur Sap. writes: The only way for medical men to put an end to the treatnent they now reccive in the service is to aritate for belng formed into a ment they now recclie in Royal Eugineers. So other conrse is open to them. cond on the regimental allowances and par of a and they must be prepared to accept the regimental arp can take care of lisclf, why should net another?

A ctrilian not content with hls pasition has better enter the service, but let him berare of the reserve, or any half-and-half measures, as dangerous. When Mephistopheles cajoles and is tolerated, the dungeon is nigh and the shackles soon riveted.

MIDLAND VOLUNTEER MEDICAL ASSOCIATION.
AT the thlrd annual meeting of thls Association, held at Birmingham, the iuvitation ol Lord Burton to hold the annual field-day at the encamprient of the 2nd Volunteer Battalion, North Staffordshire Regiment, in August. was the 2nd olunteer Mataion, M. Morgan, of the aboveregiment, was elected accepted.
President. Sevcral alterations and additions were made to the rules, among which has
one to the effect "that all medleal ofticers of yeomenry, caralry, militis, and
velunteers shall be ellgible as members, and that alt medical officers retiring with the right to wear the unifnem of their reglmente, nad surgeous holding combatant commiasions in the above forces may hecome (or remain) members of the Assoclation." Surgeon E. L. Freer was re-elected Honorary Secretary.

The questlon of amalgamation with the Volunteer Medical Association was discussed, and It was ileched that the Prestlent and Seeretary (both nembers of the Council of the Volunteer Medical Association) should lay the subject before that Councll at thelr next meetha, and report to the members at a special gencral meeting. The hoyal Warrant for a reserve of medical officers was also discussed, pinions being somewhat divided. though it was generally considered to be an unsatisfactory result of the promises foreshadowed.
It was decided to bring the suhject again forward at the speclal general meetlng, and in the meantime for members to ellcit the feellag of officers of the Medical Staft and the volunteer and medical press upon it as far as possible. The subseription to this Association is 5 s. per annum, payable to Fiwari L. Freer (1lonorary Secretary), 7, Newhall Street, Birmingham.

## THE NAVY

Deputy Inspector-Gembral M. W. Cowas. M.D., has been promoted to be Tospector-General. His previous comnissions are dated: Surgeon, July 13th, 1854: Siaff-Surgeon, September 30 th, 1864 ; Fleet-Surgeon, November 9 th, 1876 ; and Deputy Inspeetor-General, Jume 11th, 1883. He served in the Black Sea during the Russian war, and landed at the attacks on Kertch and Yenikale ; he had temporary charge of the Russian wounded in the bogpital at the latter place; he has received the Crimean medal rith clasp for Sebastopol, and the Turklsh medal.
Fleet-Sirgeon Alexavder Turnbelz, M.D., has been promoted to be Deputy Inspector-Gencral. He entered as Surgeon August 12th, 1859; became StaffSurgeon August 19th, 1870; and Fleet-Surgeon June 2ad, 1880 . He has no war record.
The following appoint ments have been made at the Admiralty: C. J. MavsField, M.B., Surgeon to the Dincan; D. T. Koskyn,. M.B., Surgeon to the Plymouth Division of the Royal Marines; J. F. Dosovan, Surgeon to the Thunderer.

## THE MEDICAL STAFF

Scrgrons S. O. Sitart and A. Dodn, on return from leave in England, are directed to do general duty in the Bombay Ulstrict. Northern Division, Aden.
Surgeon-Major E. M. D. FitzGerald, M.D., died on April 20 th in Ceylon, at the age of 12. He entered the gersice as Assistant-Surgeon October 1st, 1867; becarne Surgeon March 1st. 1873; and Surgeon-Major October1st, 1859. He Joea not appear to have had war experience.
Surgeon Willan Batlef, formerly of the 98th Foot, died at Chichester on May 191 h , aged 69.

## ARMY MEDICAL RESERVE.

Surgeon Charles Tanfifld Vachell. M.D., lat Glamorgansbire Artilery Volunteers, to be Surgeon-Major (ranking as Major).
The under-mentioned officers to be Surgeons (ranking as Captains) : - Acting. Surgeon Ronert Koss Browr. 3rd Volunteer (Kent) Brigade Cinque Ports Dlfision, Royal Artillery (late the lst Kent Artillery); Acting-Surgeon Wililam Ricanin Dambrill-Davifa, sth Volunteer Battalion the Cheshire Regiment (late the 5th Cheshire Volunteers) ; Surgeon James Duxcan. M.B., 7th Lancashire Ripe Volunteer Corps; Aeting-Surgeon Johy Paysf. Massivgeam, ist Shropshlre and Staffordshire Artiliery Volunteers : Aeting-Surgeon J $\mathrm{OBN}_{\mathrm{H}}$ Sétcliffe, and Volunteer Battalion of the Duke of Wellington's West Riding Regiment (late the bth West lliding of Yorkshire Volunteers).

## THE INDIAN MEDICAL SEEVICE

Brigade-Surgeon A. 11. Ifissor, M.I)., Bengal Establishment, offieiating Surgeon-General Gwalior and Saugor Dist riets, is appointed to offieiate as In-apector-General of Civil Hospital, Dengal, durlag the absence on privilege Jeave of Deputy Surgeon-General A. J. Cowi
Sir besjamis Sinpson, M.D., K.C.J.E., Bengal Fistablishment, SurgeonGeneral and Sanitary Commissinner with the Government of India, has leare of ahsence for 183 days on medical certificate.
The inder mentloned gentlemen have also obtalned leate of absence for the perlorls opeeified:-Surgeon-Major Jous Bevrett, Bengal Fstablishment, Medical Officer to the Mahararah of Putlala, fur 300 days on medical certlficate; Surgeon H. W. G. Maclenn, Bengal listablishment, for 182 days on medical certiticate: Surgeon-Major P. A. Weir, M.B., Bengal Establibhment, Principal Assistant. Opium Agent, Benares, for one year; Surgeon D. F. Dymott, Madras Listablishment, Officiating Inspector of Vaccination and Deputy Sanitary Commissiouer, for three months ; Surgeon A. F. Feaguson, Bodibay Establishment, for six monthe in extenaton en inedical eertificate.
Surgeon- Xajor W. C. Coles, M.D., F.M.O.S., retired, Bumbay Establishment, died on May IFth at Bourton-on-the-Water, Gloncestershire, in his 71st year.

THE VOLUNTEERS.
The under-mentloned pentlemen are appointed deting-Surgeons to the corps specified: Cuaklis A viRilic, 5th Volunteer Battalion Cheshire Regiment (late tho 5 th Cheshire) ; M. T. MEAnows, M.B., 2nd Volunteer Battalinn Duke of Cormwall's Light Infantry (late the 2nd Cornwall).
Surgeon and Honorary Surgenn-Majnr J. Visice, M.D. of the 4 th Voluntcer Battrion fissex Jegiment (late the tith liasex), has reslgued hla commission. which dated from May 3 rd, 1 su7; he is permitted to retain his rank and uniform.
Surgeon and Honorary Surgeom-Major T. W. Thunsfield, M.D., and Volinteer lattalion Royal Warwickahre Reglment (late the 2 nd Warwickshire), has also resigned his commission, with permlsslon to retain his rank and uulform ; happolintment bore date November $14112,1868$.
Mr. If. G. Reap has heen appolnterl Surgeon to the London Division of the Volunteer Medical Staff.

AT the 33rd annual festiral dinner of the I'oplar Hospital for Accidents, held last week, the Secretary (Lieutenant-Colonel Feneran) announced subscriptions amounting to $£ 1,31918: 9 \mathrm{~d}$.

## MEDICO-LEGAL AND MEDICO-ETHICAL

## THE L.S.A, AND SURGICAL FEES.

M. and L.S.A.L.-An L.S.A. reduces a fraeture of leg; the case terminates quite sat isfactorily; the patient disputes the payment ( $£ 33 \mathrm{3}$.), belng thus advised as the L.S. is not also. M.R.C.S. Is not the L.S.A. entitled to his fee?

* In reyly to our corresponclent's special question we are constrained to admit that, Blthough he is indisputably morally entltled thereto, he eannot legally enforce payment of his fee of $£ 338$. in the case in question, 1nasmuch as a person registered with a medical qualification only cannot recover for profersional attendance ia a surgical case, and vice versa. For any medlcinea, however, whieh he may have prescribed as aubservient to the aurgical athend.
ance, he is entitled to charge for and recover. Comment on the new medleal practitioner's reputed advice to the patient is unnecessary.


## A IIYPOTHETICAL CASE.

J. E. C. writes: A., B., aad C. are practising in the same distrlet (residing, any, within a mile of each other). A. is desirous of removing, and suceceds fo securing a purchaser (D.) for his practlce. Are B. and C. committing any breach of professional honour or etiquette in competing for appointments held by A., sad which they know A. is using his influence to bave transferred to D. as hls auccessor? The case is a hypothetical one; consequently, there are no attendant conditions to be taken into consideration.
** In the ahsence of knowledgo of the attendant essential conditions of the" "hypothetical case" submitted, we are not in a position to advise J. E. C. thereon further than that, if the vacaney of the appointment alluded to fo advertised, or otherwise publiely made known, and there are no surrounding eireumstances which dictate abstention from opposition to D . as the proposed euccessor to A.. we see no ralid ethical objection to B. and C. competing for the appointment.
Memaer. - The prolonged and evidently deliberate omission of the resident medical practitioners to return "A Member's" call of courtesy, constitutes a regrettable breach of professional etiquette, and, to our mind, indicates but too elearly a feeling of other than fraternal regard for the neweomer, whose advent must necessarily more or less interfere with thelr reapective practices.

## UNIVERSITY INTELLIGENCE,

professorial changes in foreiga universities.
Docens Dr. Engelhardt has been appointed as an Extraordinary Professor of Gynæcology at the Unirersity of Iena.
Dr. Jos. BALER, Extraordinary Professor in the University of Munich, has been named an Ordinary Professor of the Propadeutic Clinic there.
Docens Dr. Hernann Haas, of Prague, recently died in that town owing to typhoid fever contracted in the practice of his profession.
Dr. Cunscharany, the Director of the Hamburger Stadtisches Krankenhaus, has received and accepted a call to Leipzig as Director of the Medical Clinic there, in the place of Professor E. Wagner.
Dr. Gerage has been named Docens for Internal Medicine at Wuirzburg.
Professor Silvestrini, of Parma, has been named Ordinary Professor in the Medical Clinic at Palermo.
Dr. A. Riva, Extraordinary Professor at Pisa, has been named an Ordinary Professor in the Medical Clinic at Parma.
Dr. S. kostucrin has been appointed Ordinary Professor of General Pathology at Charkom.
Dr. Podwyssotzki, jun., has been named Extraordinary Professor of General Pathology at Liew.

## CAMBRIDGE.

Catradish College.-An examination will be held on Tuesday, July 24th, and following days, according to the results of which it is intended to a ward eight acholarships of $£ 30$ a year, provided that candidates of suflicient merit present themselves. C'andidates must be under 18 years of age on Octoler Ist, I888, and may offer for examination one or more of the following subjects: classics, mathematics, natural science, modern languages. The scholars elected will be recmired to come into residence at Carendish College in October, 1888, and commence study for a tripos or the engineering course. Medical students may conveniently combine their medical work with the coursc for the natural science tripos. It is also intended to offer in June, 1889 , three scholarships of $£ 30$, to be competed for by students of the College who will then have resided not longer than one year. The College fec for board, lodging, and tuition is £25 for eacli of the thrce university terms, and $£ 15$ for residence (optional) in the Long Vacation. Further information can be had on applying to the Bursar, Cavendish College, Cambridge
At the Congrcgation on Thursday, May 24tb, Mr. Squier Ilinnell, of Pembroke College, was admitted to the degrees of M.B. and B.C. and Dr. Sieg fried Ruhemann to the degree of M.A. honoris causd.

## PUBLIC $\underset{A N D}{\text { HEALTH }}$ <br> POOR-LAW MEDICAL SERVICES.

STATISTICS OF NOTIFICATION OF DISEASE. Tre following table, drawn up by Dr. Biddle, of Kingston, gires tor the twenty-eight large towns of England the zymotic deathrates for each of the six years, 1881-86, together with the averages before and after the enforcement of the notification clauses. The towns are grouped so that the average death-rate may be obtained for each of three conditions-namely, (1) where no system of notification is in force; ( 2 ) where the householder alone is under the penal clause: (3) where it is compulsory for both householder and medical attendant to notify.
Dr. Biddle's figures show that the zymotic death-rate is greater
after than before the Act is enforced, except in two casesnamely, Halifax, in which the death-rate declined from an already good average 2.3 to 1.7 , and Sunderland, where only one year is given to afford an arerage for the after atata of things: and even here the record has been beaten in a previous year. -
In Portsmouth the effect of the Act has been to raise the $\mathbf{z y}$ motic death-rate from 3.3 to 3.5 per 1,000; in Manchester the zymotic death-rate was only 2.3 per 1,000 in the year preceding the Act, but has averaged 3.4 since; in Salford it has risen from 3.4. to 3.7 ; and in Neweastle it has plunged from 2.9 to 3.6. Dr. Biddle adds: "If the calculations hased on the appended table be correct, as 1 believe they are, and we further wish to know what the respective effects of the single and dual systems would be, if enforced over a population of $30,000,000$, we find that the former would sare 15,000 lives per annum, whilst the latter, if not positively destructive of life, would be of no sort of compensatory value as a death-preventive.


Hralth of Englysh Towns. - In the twenty-eight large Engliah towns, including London, which have an eatimated popuatien of $9,398,273$ persons, 5,440 births and 3,398 deaths were :egistered during the week ending Saturday, May 19th. The innual rate of mortality, which had declined from 18.9 to 17.6 per $\mathrm{I}, 000$ in the three preceding weeks, rose again during the Freek under notice to 18.9. The rates in the several towns :anged from 14.2 in Nottingham, 15.3 in Leicester, and 16.3 in Halifax to 23.5 in Salford, 24.5 in Norwich, and 25.6 in Blackburn. In the twenty-seven provincial towns the mean death-rate was 19.7 per 1,000 , and exceeded by 1.8 the rate recorded in London, which was only 17.9 per 1,000 . The 3,398 deatha registered during :he week under notice included 140 which resulted from whooping-cough, 43 from diarrhoea, 49 from diphtheria, 37 from scarlet fever, 32 from measles, 30 from "fever"(principally enteric), and only 9 from small-pox; in all 330 deatha resulted from these principal zymotic diseases, against 329 and 288 in the two precedng weeks. These 330 deaths were equal to an annual rate of 1.8 per 1,000 ; in London the zymotic death-rate was 1.8 ; it also searaged 1.8 in the twenty-seven provincial towns, and ranged from 0.0 in Plymouth and in Halifax to 3.5 in Blackburn, 3.7 in Salford, 3.8 in Wolverhampton, and 4.4 in Sheffield. Measles caused the highest proportional fatality in Nottingham and Wolverhampton; scarlet fever in Bolton, Cardiff, and Blackhurn; whooping:ough in Manchester, Salford, and Sheffield; and "fever" in Salford and Wolverhampton. Of the 39 deaths from diphtheria ecorded during the week under notice in the twenty-eight towns, 18 occurred in London and 3 in Norwich. The 9 fatal cases of
small-por included 8 in Sheftield and 1 in Bristol. The number of small-pox patients in the Metropolitan Asylums Hospitals on Saturday, May 19th, was 6, not one having been admitted during the week. These hospitals also contained 915 scarlet-fever patients on the same date, which showed an increase of 11 upon the number at the end of the previous week; 82 cases were admitted during the week, against 91 in the previous week. The death-rate from diseases of the respiratory organs in London was equal to 3.5 per 1,000 , and was slightly below the average.

Health of Scotch Towns.-During the week ending Saturday, Jay 19th, 900 births and 488 deaths were registered in the eight principal Scotch towns. The annual rate of mortality, which had been 19.5 and 21.1 per 1,000 in the two preceding weeks, declined to 19.3 during the week under notice, hut exceeded by 0.4 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns the lowest rates were recorded in Paisley and Greenock, and the highest in Edinburgh and Glasgow. The 488 deaths in these towns during the week under notice included 41 which were referred to the principal zymotic diseases, equal to an annual rate of 1.6 per 1,000 , which was below the mean zymotic death-rate during the same period in the large English towns. The highest zymotic rates were recorded in Edinburgh and Glasgow. Eleren fatal cases of whooping-cough and 10 of measles were recorded in Glasgow. The mortality from diseases of the respiratory organs in these towns was equal to 3.8 per 1,000 , against 3.5 in London.

SH゙NTON SMALL-1PON HOSIITAL.
THIs hospital, which is represented in the accompanying sketch and plan, consists of a circular brick building 30 fect in diameter, with a wooden floor and a wooden ceiling at a height of 11 feet 3 inches. It is divided into two wards by a double boarded partition down the centre. There are four windows and four $\&$-inch fresh air inlets, and two outlets in the ceiling. There is a closet for each ward built outside the brickwork, but communicating with the ward by double doors. The horel is aurmounted by one of Boyle's 3 feet air pumps, which, with an areraga wind, entirely renews the air in the building four times per hour.
The administrative department is built adjoining of double lined boards, and roofed with boards covered with a waterproof felt. It consists of an entrance passage, a kitchen 16 feet $\times 14$ feet, containing a cooking range, a bath-room 10 feet $\times 8$ feet with hot and cold water, two pantries, and a nurses' bedroom 12 feet $\times 10$ feet, all $10 \frac{1}{2}$ feet high. Thera is one tortoise stove in each ward, and a smaller one in the nurses' room. The cost for erection was $£ 128$; for stores, bath and fittings, £44; for 16 beds and furnishing, £50 18s.; total, £222 18s.



TIIF CLOSURE OF CONTAMINATED WELLS.
Tro recent magisterial decisions with regard to the closing of contaminated wells-one at Enfield and the other at Birmingham -have called the attention of medical officers and others to the powerlessness of the Public Health Act to ensure the closure of wells containing contaminated water. At a meeting of the Society of Medical Officers of Iealth, held on Friday, May I8th, presided over hy Dr. A. IIrle, of Birmingham, this important queation was discussed.

Mr. Lloyd raised the queation what, in the words of the 70th *ection of the Public IIealth Act, constituted "water injurious to health?" The presence of sewage matters in a potable water even when in large quantity, appeared not necessarily to do so, though if the sewage contained the germs of disease, it would. Was the chemist, by means of variation in the chemical composition of the water, abla to detect the injurious one? In reply, he said Dupré, Frankland, and Wanklyn had shown that no sufficient chemical rariation to be of a decisive character existed. It was equally impossible to prove the presence of disease germs by the methods of tha bacteriologist, and such proof, even though possible, was practically prohibited. Recognising these facta he had, when re-
porting upon contaminated water, simply stated the water contained sewage, and was therefore untit for drinking purposes, and this had sufficed in most cases to ensure the closing of the wells: but recently a contested case at Enfield was lost. on the ground that the report did not use the words of the Act. Enfield it was stated, had for several months past been suffering from more or less continued diphtheria, the source of which the Local Board of Health had been actirely engaged in trying to discorer. A aample of the water sulimitted to him on December 20 th, gave the following result. Total solid matter, 83.72 ; loss on heat, 7.00 ; oxygen absorbed, 0.157 ; chlorine, 8.40 ; equal to common salt, 13.84 ; nitrogen a.s nitrates, 2.28 ; free saline ammonia, 0.084 : organic albuminoid ammonia, 0.008 . He, therefore, condemned the water as containing sewage, and as totally unfit for drinking purposes. The owner of the well disputed his report, 'and an analysis on hia behalf was made by Mr. Gregory, who found practically the same result, with the exception of the nitrates, which he gives as 4.22 , and who reported "a perfectly aafe water to use for drinking and domestic purposes, being free from any trace of sewage contamination." In view of the conflicting evidence, the magistrate decided to aend a aampla to Dr. Bell, at Somerget House, and he, in his report, stated that his results did not differ materially from the previous analyses. It was evident, he thought, from the large quantity of aaline matters present, that it passed through a stratum of earth largely charged with sewage or organic refuse, and carried down with it various products resulting from the oxidation of the organic matter whicl, though not dangerons to health, was very objectionable. As to how such a sentence came in the Act. he thought it was taken for granted that the mere presence of sewage in potable water was primâ facie evidence that the water was injurious, and that view was supported by the fact that in the Sixth Report of the Rivers Commission on Domestic Water Supply, rirer water receiving sewage, and shallow well waters were designated dangerous without any consideration of the quantity of pollutions. So long as Sumerset House was made the court of appeal, it practically amounted to an inability to close polluted wells.-The Chisrman referred to his own recent experience at Birmingham in a casa commented on in the Iocrnat last week. ITe did not consider the average chemist fit to be an arbitrator of the plyysiological significance of a polluted well, because chemistry by itself was totally inadequate ta decide the question whether the pollution
was injurious or not. Microscopy was equally inadequate to naswer the question. He knew only one test, and that was the ore of illness or denth produced by the use of the water. If after the drinking of polluted water such marked effects were produced epidemic of case of the Broad street pump during the cholera culty. Sueh proofs were not to be got in the case of all polluted
cult waters, and the only other course for them to pursue was to condemn all watera found polluted with animal and excrementitious matters. Unfortunately they had not the arbitration of the question in their own hands. They were settled for them by the spceial pleading of lawyers, who impressed their viewa on the physiology, or law. Dr. Hill pointed out how difficult it was to prove drinking water to be absolutely "injurious to health." and he thought the intention of the Legislature was to say "danafter , hence all their difficulties. The lawyer would say, " lf, mains in perfect health, do you mean to say that that can be injurious?" He (Dr. Hill) did not mean to say anything of the kind. He contended that it was a dangerous water, and might become injurious at any moment. It was, he contended, impossible to bring a case of the kind before the Court with any prospect of a verdict. It was an important question which affected the whole kingdom. Individually they had no power. In such cases the medical officer should have the support of a barrister, and not be left alone to fight the battle, as he had been, against
two leading barristers and siz London chemists. They must, he said, bring all the combined influence they could upon the Legislature, and agitate for an alteration of the expression "injurious" in the Act to what no doubt was intended and alone was reasonable," namely, "dangerous."-Dr. Ridge said the oecurrence of four cases of typhoid in one of fire houses supplied by a shallow Tell ten feet distant from the houses in gravel soil, gave rise to produce pollution of the water, if there had been the least leakage of any of the numerous drains.-Mr. Shirley Murphy: 1 suppose Dr. Bell did not state it was injurious to health ? - Mr. Lloyd: "Not absolntely dangerous" were his words.-The CHainMay said he had known a well with 0.005 of organic ammonia produce typhoid ferer and a number of cases and death.-Dr. Ridge to the pressed surprise that no reference was made by Dr. and there it was. They would like to know something about them.-Dr. kidge said lie was unable to supply the information.
It was proposed and resolved to refer the cases in question to counsel for consideration, and to take such steps as they might deem advisable.
guardiaxs and medical officers.
Wre are very glad to be able to announce that the Local Government Board has refused to confirm the resolution of the Holborn guardians, ealling upon Mr. Marshall to resign his office of medical offieer to their seloons at Mitcham. It is satisfactory to know that members of the medical profession are not always to be ridden over by Boards of Guardians at their sweet will. No doubt the support aceorded to Mr. Marshall by his professional brethren at Croydon has assisted the Local Government Board to come to a riglt deeision in his ease.

She robert rawlinson on metropolitan sewage. Tue sewage precipitation works of the Board of Works at Barking and Crossness fill Sir liobert Rawlinson as a sanitary engineer with astonislıment and as a ratepayer with indignation. He considers that the outfalls ought never to have been established, and that the present outlay of more than a million sterling, and half a million per annum to keep the works going, can only aggravate existing evils. The sludge precipitation and sludge barges rould be huge and costly ahominations. The officials of the Board were wilfuly sinning against light nnd evidence obtained by themselves and furnished by Royal commissioners. They ought to know that the only way to deal with crude sewage economically was to irrigate the land with it, as at Berlin, and at seores of places in Eugland-Birmingham, Bradford, Doneaster, and othera. He recommended that conduits should be made from Barking and Crossness to Canrey Island or to the Fens, and arrangements mande for the application of sewage on the road from both sides of the sewage conduits, and in time every gallon of sewnge would
be taken-would be used and paid for by the adjoining farmers and landowners. It is well known that Sir Robert Rawlinson's view as to the application of gewage to land was expressly recommended by Lord Bram well's Commission, but no action has hitherto been taken with that object.

## REPORTS OF MEDICAL OFFICERS OF HEALTH

Jarrow (Population, 30,000)--Typhus Imported.-Dr. Campbell Munro refers as usual to the depression of trade in this borough in his report for the year 1886. It is again satisfactory to observe that, notwithstanding the depression was felt with exceptional intensity during the year, the health of the town did not appear to be mueh affeeted hy it. The death-rate, which in 188.5 was 22.1 , fell to 20.7. Besides a lower death-rate, the town enjoyed an unusual freedon from infectious disease, the number of cases notified being lower than in any year aince 1880. The zymotic death-rate was 3.9 , as compared with 4.4 in the prerious year. No case of smallpox appeared in the borough during the year. Although measles was excessively prevalent in 1885, oniv 3 cases were notified in medical men of the town have been requested by the council to notify all cases of this disease, although it was not compuril to notifiable under the Jarrow Improvement Act. Of the cases of fever notified during the year, 2 were of typhus and 22 of enteric fever. Each of the typhus cases was imported, and from the second case the disease spread to 3 other members of the household, one of whom died.

Kidderminster Urban. Prevalence of Measles and Sore Throats: Value of Hospital.-Mr. Corbet is to be congratulated on the satisfactory state of his district, as shown by the decreasing mortality during the past few years, especially in 188\%, when the death-rate fell to 16.9 per 1,000 . The deaths from 2 ymotic diseases were fewer than in any year since 1884 . Measles was the most extensively preralent, 226 eases coming under notice, whilst doubtless there were many others which were not made known to the authority. Mr. Corbet testifies to the valuable assistance afforded by the Dorough Hospital in preventing an epidemic of searlet fever; 31 out of 49 cases were admitted, and only one death oecurred. In the autumn months sore throats were very prevalent in the ligher parts of the town. The cases were more troublesome than seyere. lnquiry and search were made, but no reason could be assigned for the malady. Seven cases of true diphtheria oecurred, of which 5 were fatal.
Holsworthy Rural (Population, 9,008).-Diphtheritic Throat Affections Prevalent; Influence of Schools.-This district was exceptionally free from epidemic disease during 1887. Dr. Linnington Ash states that of the seven prineipal zymotics, three only were seriously prevalent, namely, diphtheria, wbooping-cough, and diarrhea. The death-rate from these causes was 0.6 , out of a gencral rate of 15.2 per 1,000 , and related to six deaths only. The general sickness throughout the year was greatly belor the average. There was a remarkable absence of pulmonary diseases, which are usually the seourge of the district, and Dr. Ash considers it more than probable that 1837 will be one of the healthiest years on record. One death from diphtheria was registered, but an epidemic of a disease of a rery suspicious character and widesprend, was prevalent in the fnorthern part of the district. Dr. Ash describes the cases as mild, and partaking of the nature of simple ulceration of the tonsils, with sympathetic glandular enlargement around the throat. There was no evidence of fibrinons exudation claraeteristic of diphtheria, nor any subsequent symptoms of paralysis. Other medical men shared Dr. Ash's doubts as to the precise nature of the affection, but all agreed that it was eminently infectious. The cases were so numerons that the sehools closed themselves hy renson of the non-attendance of scholars. Dr. Ash thinks there is increasing
evidence of the operation of elementary schools as factorin of the operation of elementary scbools as an important factor in the spread of these epidemic diseases, and of the neces-
sity for closing them on the The absence of any provision for isolation, and for the precisder infection of elothing, is a serious hindrance to the cffective management of cases, and renders the more necessary an immedise recourse to all available means of precaution. Dr. Ash stigmatises the rude and ignorant use of disinfectnats as employed in this part of the country as "a waste of money, a delusion, and a danger."

Batir.-Imported Small-par.-The usual evidence of longevity in Bath is again shown in the ennual report of Dr. Brabazon by the fact that of 1,004 deaths cluring 1886,117 Trere of persons aged 80 and upwards. The principal factors in the general mortality were discases of the respiratory organs and constitutional diseases. Dr. Brabazon reports a very low rate of zymotic mortality- 0.4 per 1,000 . Whooping-cough was the most, active agent in producing this result, causing la deaths out of the total of no for the year. Fearly sll the cases of zymotic disease had their origin without the city. The most serious occasion for anxiety tras in the beginning of the year, when small-pox was introduced from listol, and, being unracognised, the patient was allowed to visit his friends with the discase in the pustular stage upon him. Several cases followed, all of which were removed to hospital. One death resulted. Revaccination was carried out and the houses disinfected, and by these means the outbreak was restricted to the districts in which the first case occurred. The corrocted death-rate is stated to be 18.03 per 1,000 .

River Trise Pont.-Thorough Supervision of Shipping.-Mr. Henry F. Armstrong states, in his report for 1887 , that the diminished prevalence of cholera abroad, and its absence from the Tyne, as also the small amount of other infectious sickness coming under observation during the year, are matters for general satisfaction. Owing to the decline of the former disease, the vessels arriving from foreign infected ports were much ferrer in number, and, consequently, the work of supervision required in this particular was less ardnons than before. At the same time the record of ships inspected during 1887 is, except that for the year 1885, when cholera was so prevalent, the largest since the formation of the sanitary authority. Cases of sickness, infectious and otherwise, to the number of 218 , were inquired into, and dealt with as occasion required. Six vessels from abroad reporting "all well" to the customs officers were subsequently found to have cases of serious illness on board. Nine patients were admitted to the Floating IIospital, including 3 cases of scarlet fever, 2 of enteric fever, and 1 of small-pox. They were all discharged cured. As usual, the movements of all vessels reported from suspected places were carefully watched, and deaths at foreign ports or at sea were inquired into. It would be well if the superrision of shipping at all our ports were carried out with the system and thoroughness which characterise the work on the Tyne.

Tornuar (Population, 25,000).-Favourable Statistics.-The account of zymotic diseases given by Mr. Paul Q. Karkeek in his report for 1807 may be considered very favourable, Seven deaths only were assigned to these causes, or a rate of 0.28 per 1,000 . The cases notified to the authority were 2 of diphtheria, 13 of enteric fever, and 32 of scarlatina. These last were all of a very mild type; 3 were traced to direct importation; a group of 0 were associated with a school; 10 occurred in one parish; and in the others the source of infection could not be traced. Of the 13 enteric fever cases, most were due to sanitary defects, 2 were imported, and 1 was a nurse who contracted her illness while in the discharge of her duties. There was but little autumnal diarrhora, although the season was unnsually dry, and only 3 cases proved fatal; 1 of these was choleraic, and rapidy killed an ailult whose henlth had heen previously much cnfeebled. The total number of deaths was 333 , the smallest figure for twenty-three years. Deducting the deaths of it visitors, the death-rate for 1887 was 11.5 per 1,000 .

FEFS FOR ATESNDANCE ON DIRIVATE MILL COMLITTRES.
Samitamy and lolice.-It is impogalule to lay downa general rule, but, as a rough Indication, we wouk state that a charge of ten guineas a day, and all hotel and travalling expenses, while attending In London to glve evidence hotel and brave Blll Commiliec, would not be too highil our correspondont belore a wero not in th.
ably oxpected.

Inisu Luvatic Isylums.-Dr. W. 2. Myles, Senior Assistant at the Richmond District Asylum, Dublin, has been appointed Superintendent of the asylum at Kilkenny in succession to the late Dr. Barry Delans. The salary is £550 per annnm, with allow-ances.-The Lord Lieutenant has authorised the expenditure of £3, 5.00 for the completion of the sanitary improvements at the Richmond District Lunatic Asylum, and $£ 250$ for repairs of the Limerick Lunatic Asylum.

## MEDICO-PARLIAMENTARY,

## HOUSE OF COMMONS.-Friday, May 1Sth.

The Royal College of Surgeons.-Dr. Faroumarson asked the Vice-President of the Council of Education whether he would lay upon the table a copy of the petition for reform in the constitution of the Royal Coliege of Surgeons of England, signed by 6,000 Members of the College, and addressed to the Lord President of the Privy Council, together with a copy of the statement and contentions in support thereof made to the Lord President by the deputation of members which waited upon him on November 11th, 1887; and whether he would state if that statement was referred to the President and Council of the College for reply; whether any reply was received; and on what grounds the Privy Council had, in the absence of any reply, and without further communication with the Members of the Colloge or their representatives, decided to negative their request for such reform.-Sir W. Hart Diek, in reply, said there would be no objection to lay on the table a copy of the petition and statement of the Members of the Royal College of Surgeons. The statement was referred to the College, and the receipt acknowledged. The Privy Council subsequently decided to strike out the contentious clauses from tha draft charter, and the College had agreed to accept the supplemental charter on those terms.

## OBITUARY,

JAMES RJGBY, M.R.C.S.E., L.S.A.
We are sorry to record the death on May 5th, after a somewhat protracted illness. of Mr. Rigby, who occupied a high and honourable position in the profession at Doncaster, where he bad practised for thirty-four years. The deceased gentleman was a nativa of Stockport, born in November, 1825 , and commenced his professional career at a time when the old apprenticeship sistem was still in operation. He was articled to the late Dr. Rayner, of Stockjort, one of the earliest graduates of the London University, and subsequently entered at Cniversity College, where ho passed through his curriculum with great distinction, obtaining gold medals in chemistry and materia medica, silver medats in anatomy and physiology, and certificales of proficiency in other subjects; He also obtained the gold medal awarded by the Apothecaries' Society for general proficiency. He passed the first M.B.Lond. examination in 1848, but did not proceed to take the degree. After qualifying he was elected in 1850 honse-surgeon to the Stockport Infirmary. In 1854 he joined the late Mr. Russell, of Doncaster, in partnership, an arrangement which terminated ly mutual consent in 185s. In that year Mr. Rigby commenced practice for himself. Associated with the Doncaster Infirmary from its establishment in 1867, and being one of its first surgeons, he held for nineteen years the appointment of honorary surgeon to this institution, retiring in 1886 as consulting surgeon. In 1861 he was elected honorary surgeon to the Doncaster Dispensary; in succession to Dr. Withers Moore, who at this time remored to brighton. IIs predilections were for surgery, and he soon acquired a reputation as a successful operator, and w"2s one of tha first to perform lateral lithotomy in Doncaster. Towrards the end of 1887 he began to show signs of failing health. He had suffered for many years from a discharge from the right ear, pointing to some form of intra-cranial suppuration. In spite of a certain brusqueness of manner, his strict professional integrity and uprightness of conduct, and his quick insight into the nature of discase, were recognised by a select clientele to whom he was much endeared, and who knew how to value and appreciate his many sterling qualities. His funeral, which took place on the Tth, was attended by most of his medical brethren and a large and representative gathering of his fellow townsmen.

Santtary Institute of Great Britain:-At the annual general meeting held at the P'arkes Musenm on Wednesday, May 16 th, Professor ir. II. Corffeld, M.A., M.D. (Chairman of Council) in the chair, a report was presented by the Council on the work of the institute during last year, and on the Congress at Bolton in the autumn of 1887. The Chairman gave an addres8, and the offcer for the ensuing year were elected.

## INDIA AND THE COLONIES，

## ivdia．

We regret to hear from Madras the sad intelligence of the death of Surgeon－Major John Prendergast，from drowning，at Kirkee． The deceased officer and a subaltern of artillery，Lieutenant Fal－ kiner，were out together in a small boat on the Moola Mootha iver，when the light craft was eapsized by a sudden gust of aind，both the occupants being preeipitated into the water．Both ives were lost．Dr．Prendergast＇s commission dated from March 31st，1874．He was promoted to the rank of Surgeon－Major when tationed at Quetta，two or three years ago；thence he was ransferred to Purandhur，going to Poona in January last，to aet is Brigade－Surgeon for Dr．Gaye．Dr．Prendergast received a spear round in the lungs at Tel－el－Kebir，while in attendance on the rounded，and was for a time dangerously ill at the hospital at juez．He was stationed at Wanowrie in 1878.
The Surgeon－General Moore Memorial Fund is，we learn from 3ombay，making satisfactory progress．The subseription list， vhich already shows a substantial sum，includes 500 rupees from Iis lighness the Gaekwar of Baroda．It has been provisionally etermined that the memorial will take the form in the first nstance of a bust or portrait，and that any other funds available hall be used to found a medieal seholarship or prize ；the question． lowever，will he submitted to a general meeting of the sub－ cribers
In the list of the Queen＇s birthday honours，consisting of pro－ aotions in and appointments to the Most Distinguished Order of it．Michael and St．George，in the London Gazette of Thursday， ccur the names of William Raymond Kynsey，Esq．，Principal ivil Medieal Officer and Inspector－General of Hospitals of the aland of Ceylon，and Anthony Colling Brownless，M．D．，Chan－ ellor of the University of Melbourne，who have been appointed rdinary Members of the Third Class，or Companions of the Most listinguished Order．

## MEDICAL NEWS，

Royal College of Surgeons of England．－The following entlemen passed their primary examinations in Anatomy and hysiology for the Diploma of Fellow at a meeting of the Board f Examiners on May 21 st， 22 nd，and 23 rd，and when eligible will e admitted to the pass examination，namely：－
H．S．Ballance，King＇s Collegc ；A．E．Berry，Owens College，Manchester；Q． F．Blacker，University College；C．C．Braive，Charing Cross Hospitat；Fp Calder．Bristol Mledical Sclool；W．T．Clegk．Liverpool Infirmary Scheol Ot Medicine；L．Cobbetl，St．Thomas＇s Hospital ；A．T．Collum，char st Cross Mospital：${ }^{\circ} \mathrm{C}$ ．Deverent，Matiesex hospitai，©．Douphas， Georye＇s Hospital：T．A．Dukcs，st．Thomas＇s Hospital，W．F．Farncombe St．Rartholomew＇s Hospital：A．G．Francis，St．Bartholemew＇s Hospital ${ }_{\text {d }}$ J．Gallewasy Aberdeen！and London 1tospital：T．C．Grey．Bristol Medical School ；F．Johnson，St．Barthololouew＇s Hospitai；；H．Johnson，Unitersity College； O ．N．Jones，London Hospital；A． S ．Kenny，King＇s College ；H． i．Luard，Cambridge and St．Thomas＇s Mospital ；R．H．Luce，London Hospital；＇Y．II．Napier．St．Birtholomew＇s Iospital ：T．Redmayne，Cam－ bridre and Lonton Hespital：R．II．Russell．King＇s College ；W．T．H． Spicer，St．Bartholenew＇s Hospital；A．Street．Leceds and Combridge ； E．Teichelmanu，Queen＇s Cellege，Birmingham ：J．L．．Thomas，st．Bar－ tholomest＇s Hospltal；W．T．Themas，University College is． L ．Trech－
 George＇s Ilespital ；G．Wiikinoson，Canuvridge University．

## medical Vacancies．

The folloring Vacancies are announced：
Altinolass UNION－Medical Officer，Dunlaxin Dispensary．Salary，£135 per aunum，and fees．Applicatious to Captala Heighten，J．P．．，Honorary Secereary．Donard IIonse．I：lection on June 13th．
ERES COUNTY ASYLCUM，Wallingford－Astistant Medical Officer as Locum Triens．Twe gulueas per wrek，with board，etc．Applications to J． Mans．Twe gulleas per wreck with
irminoham and midland shin and lock hosptal－－acting Surgeen．Applications by May 26th te J．F．．Hartley，Fsqq，13，St．Paul＇s Square，Blrminglum．
OARD OF WORKS FOR THE WANDSWORTII DISTRICT．－－Medical of－ ficer for the Parish of Clapham．Salary，$£ 75$ per aunum，with Lncrense． Applcationg bs June 12 th to the Clerk＇to the Board，East Hill，Wands－ werth．
Recon infirmary．－Rcsideut Honse－Surgeon．Salary，fion per annum， with furnibhed apartments，etc．Applications bs June bth to the Secrotary．

BRIQHION，HOVE，AND PRESTON DISPENSARY．－House－Surgeon． Salary，£140，with apartments，etc．Applicatlous by Jume 2nd to the Assist－ ant Secretary．
CHELSEA HOSPITAL FOR WOMEN．－Iresident Medical Officer．Salary， £60，with board and resldence．Appllcations by：May 31st to the Sec－ retary．
CHILDREN＇S HOSPITAI，Birmingham．－Assistant Resideat Medtcal Offeer． Salary，E10，with board aod lorging．Applicatlons by June bith to the Secretary．
CHILDREN＇S ILOSPITAL，Btrmingham．－Resident Medical Officer．Salary， exo，with board and lodgiog．Applications by June 6th to the Secretary．
CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEST，Vlctoris Park，E．－Assistant Physiciav．Applicatiecs by June fith to the Sec－ retary．
COUNTIES ASYLUM，Carlisle．－Assistant Medical Superintendent．Salary． £120，with board．Applications by May 29th to Dr．Campbell，Garlauds． Carlisle．
FOLKESTONE FRIENDLY SOCIETIES＇MEDICAL ASSOCIATION゙．－ Medleal Officer．Salary，£150，with fees and unfurnished apartments．Appll catiens by Juoe 6th to the Secretary，47，St．Michael＇s Street，Folkestone．
FULHAM UNION．－Resident Medical Superiatendent of Infirmary，and Medical Officer of the Union Workbouse．Salary，e3 30 ，with resldence，etc． Applications by Juae 5th to the Clerk to the Guardians．
GENERAL INFIRMARY，Leeds．－Ida Convalescent Home，Cookridge．－Resil－ dent Medical Officer．Honorarium of $£ 25$ for six months，with board and lodging．Applications by June lst to W．H．Brewn，Esq．，19，Queen Street． Leeds．
GORDON HOSPITAL FOR FISTULA，etc．，Yauxball Bridge Road．－Assist－ ant Surgeon．Applications by May 2 oth to the Secretary．
HOSPITAL FOR DISEASES OF THE THROAT，Golden Square．－Resident Medical Officer．Salary，\＆50 per annum，with board aud lodging．Appli－ catioos by May 2 bth to the Howorary Secretary．
KINO＇S COLLEGE HOSPITAL．－Assistant－Surgeon．Applications to the Secretary：
LONDON TEMPERANCE 高OSPITAL，Hampstead Road．－Surgeon．Appli－ cations by Juve 15th to the Secretarg．
METROPOLITAN ASYLUNS BOARD：DARENTII SCHOOL FOR IMBE－ CILE CHILDREN，Dartford．－Assista ot Medical Ofticer．Salary £120 per anmum，with board aud lodging，etc．Applications us May 3lst to W．F． Jebl，Eisq．，Norielk House，Vorfolk Street，Strand．
METROPOLITAN ASYLUMS BOARD：WESTERN FBVER HOSPITAL， Fulham，S．W．－Clinical Assistant．Board and lodging．Applications to the Medical Superintendent at the Hospital．
NORTH LONDON CONSUBPTION HOSPITAL，Hampstead and London．－ Resident Medical Officer．Salary，£50 per annum，with board aad lodgiag． Applications by June 2nd to the Secretary．
OWENS COLLEGE，Manchester．－Professor ol Surgery．Applications by June 9th to the Registrar．
QUEEN゙S COLLEGE，Birmingham．－Assistant Medical Tutor．Applicatien＇s by June 20 th to the Secretary
ST，PETER＇S IIOSPITAL FOR STONE，etc．，Henrietta Street．Covent Garden．－House－Surgeon．Ilonerarinm， 25 guineas，with board，lodging． etc．Applications by May $29 t h$ to the Secretary．
SHEFFIELD GENEtIAL INFIRMARY，－IIouse－Surgeon．Salary，2120，with board，lodging，etc．Applications by June 18th to the Secretars．
SHFFFIELD GENERAL INFIRMAl！Y．－Assistant House－Surgeon．Salary， £so per annum，with board，lodging，etc．Applications by June isth to the Secretary．
LNIVERSITY COLLEGE，LONDON．－Prolessor of Butany．Applicatlons by May 30 h to the Secretary．
VICTOTRIA HOSPITAL FOR CIIILDREN，Chelsen．－House－Physiclan．Hoao－ rarium of $£ 50$ ，with board aod lodging．Applicatious by June 2ad to the Secretary．
VICTORIA HOSPITAL FOR CHILDREN，Chelser－Honse－Surgeon．Hono rarium of £50，with board and lodgiag：Applicatious by June 2nd to the Secretary
WELLINGBOROV゙GIL AND DISTRICT MRDICAL INSTITUTFE－MEAIMI Officer．Salary，£2so，and fees，with dwelling－house，etc．Applications to G．Bayes，Esq．，Jackson＇s Lace，Wellingborough．
WESTPORT LNiON．－Medical Officer，Weatpert No． 2 and Louisburgh No． 2 Districts．Salary，$£ 39$ per annum，nud iecs．Electlon on Jume $24 t h$.

## MEDICAL APPOINTMENTS．

Binweld，L．A．，M．R．C．S．，L．S．A．（Exteastun），appolnted House－Surgeap to St． Thomas＇s IIospital．
Belstorfe．H．C．，L．IR．C．P．，M．T．C．S．，appointed Cliaical Assistant In the Far Department of St．Themas＇s Itospital．
Belstrobe，II．T．，M．B．，B．C．Cantab．，L．R．C．P．，M．R．C．S．（Fxtensiou），ap－ peinted Clinfeal Asslatant in the Throst Department of St．Thomas＇s Iospital．
CalfERT，J．T．，M．B．Lond．，L．R．C．P．，M．R．C．S．（Extension），appoioted Non－ Resident Ileuse－Physlelan to St．Thomas＇s Hospital．
Cook，S．B．，I．R．C．P．，M．R．C．S．（Fxtension），appoiated Assistant IIouse－Phy－ sician to St．Thomas＇s Hospital．
Cooks．O．W．i L．R．C．P．，M．R．C．S．，appointed Assistant Heuse－Surgeon to St． Thomas＇s Hespital．
Crisp，E．II．，L．R．C．P．，M．R．C．S．（Extensioa），appointed Clinical Assistant in the Throat Department of St．Thomas＇s Ieaptal．
Goonnr，F．S．，L．R．C．P．，M．R．C．S．，L．S．A．（Extension），appointed Ophthaimic Clinical Assistant to St．Thomas＇s Hospital．
Honнovse，E．，M．B．，B．S．Oxon．，M．R．C．S．（Exteusion），appointed Resident House－Phystclan to St．Thamas＇s Hospital．

James, C. M., L.R.C.P., M.I.C.S., appointed Aesistant Mouse-Surgeon to St. Thomasia liospltal.
Lotz. H.. L.H.C.P., M.R.C.S. (Firtenslon), appointed Clinical Assistant In the kiar Departmont of St. Thomasis Hospltal.
Lt $A R D$, H. B., M.B., B.C.Cantab. L. K.C.P., M.R.C.S., appolnted Rexident Houso-Fhysiclan to St. Thomas's Hospltal.,
Newsmol.Ne, Arthur, M.D. D.P.H.Lond., appointed Medical Officer of Health
to the Borough of Brighton, vice M. P. B. Tasfe, MiD. Lond. deceased. to the Borough of Brighton, vice 13. P. B. Tarfe, M.D.Lond., decersed.
Ronerts, Sldney M.P. M.B., M.R.C.S., appointed Sentor Physician to the Sbefteld Yublic llosplea!, vice W, R. Thomas, M.D., resigned: aleo appolnted Lecturer on Medleal Jurisprudence at the Shefieid School of Medicino.
Eaveov, H, A., L.R.C.P., M.R.C.S.(Extension), appolnted Clinical Assistant in the Skin Departnent of St. Thenas's IIospital.
Solly, R. V., L. R.C. P., M.R.C.S., appolnted Clluleal Assistant in the Skin Department nf St. Thomas's Hospltal.
Spexcer, M. H., M.A., M.B., B.C.Cantab., L.R.C.P., M.R.C.S., appointed Ophthalmie Cilnteal dssistant to St. Thomas's Hospital.
STabd, E. C., L.K.C.P', M.R.C.S., L.S.i.(Extension), appointed House-Surgeon to St. Thomas's Hospital.
Wम rsos, John, M.B., appolnted Junlor Assistant House-Surgeon to the Hull Hoyal Infirmary, vice F. Savery, M.R.C.S., resigned.
Weeston, S. W., M.B.Lond., L.H.C.P., M.R.C.S., appointed Resident Accoucheur to St. Thomas's Hospital.
Windle, John T., M.D.Aberd., appointed Certifyiog Surgeon under the Factory Acts for Ovenden and district, vice J. Horgson Wright, M.R.C.S., appointed to the Halifax District.
WOAEES, Arnold, L.R.C.Y., M.R.O.S., appointed Surgeon to the London Throat Hospltal, vice K. Law, M.D.Edin., resigned.
Yorwo, P. W., L.R.C.P. and S. Edin, and Glasgow, appointed Medical Officer to the Parish of Lochs, Stornoway, vice D. Stnclatr, M.B., resigned.

Pares for the People.-A park of fifteen acres in extent has been presented by the Earl of Dartmonth to the inlabitants of Morley in Yorkshire, in commemoration of the Queen's Jubilee. Ravenscroft Park, Ifammersmith, comprising an estate of thirtytwo acres, has been jointly acquired by the Netropolitan Board of Works and the Vestry of Mammersmith, at a total cost of $£ 58,000$, and has been thrown open to the public.

Jy Memortam.-In the church of Westerham, of which place the late Mr. Charles R. Thompson was a resident, a handsome stained-glass window has been placed and an eagle lectern supplied, from a sum amounting to $£ 350$, subscribed by his friends for the purpose of raising on the anniversary of his death a fitting memorial to his memory:

Legal Apprectation of Medical Service.-The Montpellier parquet has distinguished itself by a fit of economy at the expense of its medico-legal experts. Three professors of the Faculty of Medicine, having had their fees diminished by one-third, have retaliated by a resolution declining to give any expert evidence at all in future.
a Bacteriolooical, Institution at Cracow.- A bacteriological institution for the treatment of rabies after Pasteur's method has recently been established at Cracow, Galicia.

## DIARY FOR NEXT WEEK.

## IONDAE.

Croonsar Lecturf of tife Roval. Society, Foyal Institution, Albemarle Sirret, 9 \&.M.-Professor Kilhne, of Heldellerg: Ueber die linststhung der vitalen Bewegung (On the Source of Vital Movement).

## TEFMDAY.

West Lonidon IOspitale is p.M.-Clinical afternoon.
WEDNE:NDAY.
Cohlege of State Municisfe, Birl!ngton 11 onse. 4 P. M.-Inspector-General John M. Macdonald, r'.k.S. : The Organlsms occurriog in Freeh Water, and the Hyglenic lmportance of their Presence.
Hombitals Assoctation. Town IEnll, Weatminster, 5 p.m. - Annual meetlog, Dr. J, S. Bristowe, F.Il.S. in the chalr.

## PIEIDAN.

What London Mpdico-Chircroicai. Socif.ty (West London Ifospltal), 6.30 P.M.-Cavendish Lecture: Sir Willlam Stokes: The Altered Helation of Surgery to Medicine.

## BIRTHS, MARRIAGES, AND DEATHS

The charge for insertiag aaaouncements of Burths, Marriages, and Deaths is 3s. Od., which should be forwarded in stamps with the announcement.

## DEATH8.

Prirce, -On May 11th, at Newlands, Redditch, Emily Marla, the dearly loved wile of James K. Pelrce. J.P., M.R.C.S.Eug., L.S.A.Lond.
Stravae, On May thi, very uddenly, at 42. Foregate Street, Worceater,

## operation days at the london hospitals.

MONDAI: i......... 10.30 A.M.: Royal London Ophthalmic.- 1.30 P.M. ; Guy: (Ophthalule lepartment) ; and Royal West roinster uphthal mic.-2 P.M.; Metropolitan Frea: St. Mark's; Central Londot Ophthalmic: Hoyal Orthopredic ; and Hospital for Women. 2.30 P.M. : Chelsea 1 lospital for Women.

 ster Oplithaninic.- 2 P.st.: Westminster; st. Mark's Centra

WEDNESDAY 10 A.M. : National Orthopailic. 10.50 A.M. : Royal Londor Ophthalmic.-1 P.M. : Mindlesex.- 1.30 p... St. Bartholonter is St. Thomas s; Joyal West asinster Ophthalmic.-2 P.M. London; University Coilfere Westninster: Great Northen
 Free 11 ospital for Women and Chlliten ; st. Peter's. -3 to,
pra: King College. p... . Kins's College.

THURSDAY... -1.30 p.M. : St. Bartholomew's (Ophthaimic Department) Guy's (Ophthalmic Department); Royal Yestminster Ophthal mic.-2 P.M.: Charing Cross: London: Central London Opth Homen.-2.30 P.M.: North-West London; Chelsea Hospitnlfo Women.
ERIDAY ............. A.st.: St. May's (Ophihalmic Department). -10.30 A.M. Royal London Ophthalmic.- -2.15 p.M.: St. George's (Uphtlial mie Department).-1.30 p.N. G Gv's; Roval Westminster Oph thalmic.-2 p.M. : King's College; St. Thomas's (Ophthalmí Department); Central London Ophthaimic; Royal Soutl London Ophthalmic: East London Hospital for Childreu. 2.30 P.M. : West London.

SATURDAY 4.M. : Royal Free.-10.30 A.M. : Roynl London Ophthalmis.1 P.M.: Fing's College.-1.30 P.M.: St. Bartholomew's; St Thomasis: Koyal Westminster Ophthaimic.-2 P.M.: Charing Cross: London: Middlesex; Reyal Free: Central London Ophthaimic.-2.70 P.M.: Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON Hospitals.

Charing Cross.-Medical and Surgical, dnily, 1 ; Obstetric, Tu. F., 1.30 ; Skiu M. Th. . 30 : Dental, M. W. F., 9 .

Gui's,-Medical and Surgical, daily, 1.30; Obstetric, M, Tu, F., 1.30; Eye, M.Tu. Th. F., 1.30 ; Ear, Tu. F., 12,30: Skin, Tu., 12.30 ; Dental, Tu. Th. F. 12 .
Kino's ColifgF,-Medical, daily, 2 : Surgicai, daily, 1.30 ; Obstetric. In. Th. 8 2: 0.p., M. W. F., 12.34; Eyf, M. Th.. 1: Oplithaimic Department, W Ear, Th. 3 : Skin, Th.: Throat, Th.. 3: 1)ental, Tu. F., 10.
Lonתon. - Mellcal, daily, exc. S., 2 ; Surgical, daily, 1.30 nid 2 ; Obst elric, M. Th $1.30 ; 0 . \mathrm{p}$ W. S., $1.30 ;$ Fye, W, S. 9 : Ear, S. ! 1.30 ; Skin, Th., 9 ; 1)entat, Tu. MidnErsek.-Medical and Surgical, dialy, Obstetric. Tu. F., 1.30; o.p. W. 1.30; Eye. W.S.. 8.30 ; Ear and Throat, Tu.. $9:$ Skin. Tu., 4 ; Dental, dally. St. Birtholomew's. - Iedical and Surgical daily, 1.30 Obstetric. Tu. Th. S. o.p., W.S., 9; Eye, Tu. Th. S., 2.30 ; Ear. Tu. F., 2 ; Skin, F., 1.30 ; Larynx. F 2.30; Orthopredic. M., 2.30 : Dental, Tu. F.. 9.

ST. GEOREF'S.Medical and Surgical, M. T. F. S., 1 : Oustetric. Tu, S., 1 : op Tu., 2 ; Fye, WV. S. 2; Far. Tu. 2 ; Skin. WY., 2; Throat. Th.. 2; Orthopsedic, iv., 2; Dental, Tu., S., 9, Th.. 1.
St. MARY's.-Medical and Surgical, daily, 1.45 ; Obstetric, Tu. F.. 1.45; 0.p., M T. MARYS.-Medical and Surgical, daly, 1.45 ; Obstetric, Tu, F. 1.40; 0.p., M.
Th., 1.30 ; Eye, Tu. F.S., 9: Eiar, M. Th., 3 ; Tıroat, Tu. F., 1.30 ; Skin, $\mathbf{M}$. Th.,
 Operations, Tu., 1.30 : Ophthalmic Operations, $F$., 9 ,
St. Thomas's.-Medical and Surgical, daily, except Sat., 2; Obstetric, M. Th., o.p., W., 1.30; Eve, M. Th., 2; o.p., dailv, except Sat., 1.30 : Ear, M.. 12.30 ; Skin, W., 12.30 : Throat, Tu. F., 1.30; Children. S., 22.30 ; Dental, Tu. F.. 10. USIVERSITY COLIEQE.-Medical and Surgleal, dally, 1 to 2 ; Obstetrics, M. Th. F., 1.30; Eye, M. Tu. Th. F., 2; Ear, S., 1.30; Skin, W'., 1.45, S. Throat. Th. 2.30 : Dentai. W., 10.30 .
Westminsten, - Iédical and Surgical, dally, 1.3n: Obstetric, Tu. F., 3: Bye, M. Th., 2.30; Ear, M., 9: Skin, Yh., 1 ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS.

Commentcertons respecting editnrial matters should be addressed to the Fdltor, 429 , Strand, W.C., London: those concerning business matters, non-delirery of the JovRs\&l, etc., should be addressed to the Manager, at tho Ofice, the Strand, W.C.. London.
Is order to avoid delay, It is particularly requested that all letters on the editorfal business of the Jorrvil be addressed to the Editorat the nffice of tha Jovirsar, and not to his private house.
Avthons desiring reprints of thelr articles piblished In the Britisn Mmoical JOURsAh, are requested to communtcate beforahand with the Mansger. 129 Jours\&l, are
Strand, W.C.
Cormespondents who wish notice to be taken of thelr communications, should authentlcate them with their names-of course not necessarfly for publimathu.
Confrspondants not answered are requested to look to the fotices to Corre spondents of the following week.
MANUSCRIPTS FORWARNED TO THF. OFFICE OF THIS JOURVAL. CANXOT T'SDER ANY CIRCUMATANCFS DF. RETLRNED.
Puncio ifeaktil lypartmpnt.- We shall be much obliged to Medleal Offeery of Hesith if they will, on forwarding thelr dnatuai and other lfeportb, favora its with Duplicrie Copies.

## QUERIES.

Old Member wishes to know how a goung fidlow (foor) can oltain train. ng is a nurse; where, and at about what expense,
URER asks: Is there any home or institution where the wife nf a deceased entical man could be received? Sho has no means and is hypochondriacal.

## Tue Üse of Cocaine in Deytistrit

W. W. asks for the experieace of those who have tried the injection of wraine ia tooth extraction on the following points: The annount of the drug o be lnjected into the gum; the time to elapse betore

## Oocipital II eadacht.

R.C.S., L.R.C.P. writes: I have now a patient under my care who, for some ars, has suffered from a dull, contiduous pain of neuralgic character over he occiput and parietal bones, which becomes worse after meals, fatigue, or rcitement, and is almost completely relieved by rest in bed, or lyiag on a ouch, or in an armchair, so as to get preasure on the occiput. The secrepparent rheumatic, stomach, liver, or other organic affection. The secre ions and excretious are all normal. He is 34 years old, robist, nou-smoker, otal abstainer, and has always led a very moral and metbodical life. Having red many remealea withourval will suggest a treatment for me.

Tbeatment of Loconotor Ataxy at Aacaen.
Jas. J. L. Rstrion (63, Lee Park, Blackheatb, S.F.) writes: A patient sufering from progressive locomotor ataxy underfient the special treatment at lachen last Augnst. He returned in a decided state of mercurialism at the nd of a month, and his constitution was so far broken down that i had some loubts about his pulling through. His gums were so nuth affected that he ould not eat we!l for about another moath. He was advised at Aachen o return agaia this spriag, to renew the treatment for a sbort course. I am loubtful about the advisability of his doing so, as he has improved as regards he symptoms of his disease, and gained in weight. I fear that a second epeuril course may do more harm than good.
I should be greatly obliged to any of your readers experiencedia this matter or their advice on the poiat.

Inciction in Scarlet Fevfr
crococct's nrites: In the treatment of scarlet lever, is it a fact that the arbolic acid in carbolised oil for external inunction has any germicidal effect ir is plain oil just as useful, and, if so, is any application known which will woth prevent the beales flying about and destroy the germs?

## ANBTVERS.

Final Examination for L.R.C.P.Lond.
C.P.Losd. writes: The books nsually read for this examination are, on Bedicine, Bristow or Roberts; Midwefery, Leishman or Playfair, preferably he latter; Disezses of Women, Lart and Barbour or Galabin, both excellent woks; and shortly before the examination, Hall's $\mathcal{A}$ ids to Obstetrics and Dr. こarter's Elements of Medicine.

## NOTES, LETTERS, ETC.

Eare asked to state that Mr. C. Lovegrove (Flixton) passed the M.D. examination, second division, of the Uuiversity of Trinity College, Toronso, ou April 5 th.

The Lece Fusd.
Donations np to May 6 th
Anodrmolis Donor.
bite (Switzerland) ".
Dr. W. A. Sachell ...
Dr. Barron $\quad . . . \quad . . . \quad$... $\quad .$.
Further donations in aill of Mrs. Luce will be gratefully received by Dr,
heppard, 64, Durning Roal, Liverpool, or by Dr. Caton, 31, Hodney Street, Liverpool.

Bayfifin Defface Fixd.
R. E. Beldamy (17, Wimpole Street) writes: l'lease place the following additional subscription to the Baytield Defence Fund:-

Mr. T. A. White, M.K.C.S.
$\begin{array}{lll}1 & 0 & 0\end{array}$
A Simple Means of Diafivosis ix Chest Disfases.
hafon F. P. Nichois, B.A., M.B.Cantab., writes to express the opinion that la cases of pnellmonia or pleurisy in which we are doubtful. of the existence of fuld in the chest, the syringe is not sufficiently used. Ile says : For cevera rears, whenever I have felt that knowledge on the point would he oseral, have used this means, not only the chest, but the liver and elsewhere. is well to first sponge the skin with a strong carbolic lotlon, and make the moncture through lint wetted with some antieentic, and I generally close the
 any harm result nor have l ever beard of ans: that it is almost painless, If any harm resif. now from personal experience. In Dr. IIood's paper in the doue quickly, 1 know from personal experilow. Pneumonia. I see be uses Jourvai, of May 19th on 'Finpyema followiag Pneumonia.
thls nethad, Lnt apparently as a last, instead of a first, resourec.
Fegitive Ginkma of the Eiflidis
b. Lnimoworta (Acerington) writes: Dr. Tom Robinson has directed atten tion to an affection which, though uot mentloned in works on medicine, is frequently met with in practice. I have seed about six cases of it in fous yeare in a population of $6, \mathrm{mog}$.
The cedema is as often unilateral as bllateral ; it is confined to the lower lids: and it is accompanied by great min in the temporal region of the affreted side. In ene whe which saw the swelling was so pronounced that It gave me the impression of having orlginated in a gumboll, and, without inquiring as to the first appearance of the affection. I prescribed for the louloureux. Nest day the patient was much worse, and completely pros trate with pain and sleeplessness. I then gave half-drachm doses of the splrits of ammonia, and cured the disease in alout twenty-four liours.

It is, I think, due to passive congestion in the infra-orbital regioa, causion mechanical brek to the passage of venous hlooll, aud consequent loras aerous effusion. It would apuear to bear a close relation to migraine, which erous effesion. and anlipyriv, aud always acconpauied, if uot actually caused, by great cardiac debility.

Managemext of Feyer Casps.
Mr. Datin Davis (Builth, Breconshire) writes: Yesterday, Sunday, I was called to see a little boy, aged 8 years, the son of a gentleman residing in this town, and found him suffering from scarlet fever. Amongst other symptonis Ifound that lisi bowels were gomewhat constipated, and ordered him a mild aperient, giving him at the same time a febrifuge mixture. I directed that aperient, giving him at and the temperature of the room regulated to about he chould be kem uarm, amd witient again in the evening. Mr. T-, the $55^{\circ} \mathrm{F}^{\circ}$. On calling to aee my yutient again in the evorse of conversation, remarked that it was yery singular that father, in coctors disagreed so numelt, and on my asking for an explanation, he showeat me a book written by Mr. Pye Henry Chavasse called Advice to a Mother on me Management of Her Chise Henry Chas Munagement of their more Pressing Illnesses, in which he bad marked the following seotences: "On no arcount give opeoing physic. Aperieat medicines are, in my opioion, highly improper and dangerovs both before and during the period of eruption. It is nyy firm conviction that the administration of opening medicioe at such times is one of the principal causen of scarlet fever being so ireqnentiy fatal. that is the first thing to be done? Sead the child to bed, tbrow open the , and have a thorough reatilation, for fise windows, be it winter cool, I may say cold.

Now, Sir, is not the above quotation in direct opposition to the teaching of the present day? 1 am under the impression that attention to the bowels, a slight febrifuge mixture, and keeping the patient in bed in a warm room, are alone necessary in simple scarlet fever. I have advised Mr. T- to put Lr. Chavasse's book on one side, and listen only to nyy directions. in of Chavions that nuch harm might be done by parents reading such worls and acting on suggestions sucls as those quoted. Am I right or wrong?

Id OSFZCRASY WITH REGARD TO ANTIPYRIN.
Mr. U. K. Dutt ( 70 , Portsdown Road, W.) writes: Ilaving heard of a complaint from one of my patients with regard to the taste of antipyrin tabloids. I took one before golng to bed. The taste was a little bitter, but dot at all clisagreeable. I let it gradualiy dissolve in my mouth. No sooner had il finished it than a violent itching, tingling, and burning sensation was felt on the hasi and soft palate, and the mincous membrane of the back and top of the and sott palate, and nose, followed of. But before it had disappeared I felt considerable litching and burning over $e$ beral spots on the armand forearm; then on the abdomen, cheat, ing over 6evernl sporenis and foreskin, in successive order; later on the thighs and back; on the penis and then on the legs, and finally on the feet, back and then on the bands, adis was the order of manifestation, and the intenand lastiy on the soles. 16is was the or sity at one particular apot lasted. for two to diminish there, it began to increase elsewhere he the whole thing subsided in about hall an hour. Ithought au urticarial rash was coming out, but on the most careful examination 1 coul abo rash. I alpays hove had urticarial rash a little after eating inned lobstcrs crabs, ete., and the sensation before the rash appesrs was amost imlt. No ap lave tried another dose of a grains daylight.
pearavee an explanation of the anodrne effect of anti-
This seems to me to zuggeet and Professor Germain See. This drut pro pyria in very large doses as used bably exalts the function of sensory nerves, or, atany rate. irritable in small doses, and then exhausts their irritab. Would the tody feeling pain, and thereby the shence upon the sensory nerres, the vasonoto system beiog in intimate connectlon with the sensory nerves?

Perforation of ax Eifebalh with the Kyot of a Whip. Mr. H. Prioy Donk (11, Nottingham Place, W.) writes: In answer to Dr. Sanc tuary's letter in the Jolrral of May sth, quite agree with him that the ex planation of the detachment of the knot in my case the perg having become ball (which I am reported to have said was due to the thong haring becent is heated) is not the right one. The only possible explauation of the accident is that ahioh Dr. Sadctuary gives, and wbich I previously had attempter io make plain at the preeting of the Society on April 6 th.

## Neale:s "Digfst.

Disapponten writes: 1 quite endorse the opinion of your correspondent, recorded in the Jourxish of April 31st, respecting the Medical Drgest. I found it long since to be a delusion and a snare pure and simple, in the absench it the ro

Unifors or Sthallow Tatl.
M保 It has been the suler
bring the mater beroreoting, the invitations to the conversasones and Should, at our annual meetings, the be worn if possible?" By this means our public dimer be marked " unitormationt than ever, especially as so many of gatherings would become more brilliant than ever. especta auxiliary forces. our members now hold comman entitled to wear inlform
besides aumerous others who may be entitled to wear the Glasgow Exreutire If this matter shonld meet with approval,

The Managfment of Ceinical Thervometrrs.

- Does everyhody know low, when, and where to shahe fromat arfas writes: bis clinical thermometer? Never attempt to lower the down the mercury in his cemical cool. Ilow is it possible to reduce $104^{\circ}$ to $\mathrm{g}^{\circ}$ unceury until it has had tinc to exms. antil yon arrive at the next houke, before doing the shaking dowa.

Thy New Sctheme for the M.D. St. Annraws.
fr. B. Joxfs (Leigh. Lancashire) writes: May I be allowed to polnt out. in replo to numerons inquiries, and to remove misspprehension, that in the oew regulations which we seek to obtaid at st. Adares at present to ten iv each receiriug the degrec of M.D. will not he limited, as at present. to ten iu earl
year, but that the only limitation will be that of lailing to pase tho examinntlon?

The siguntures of wearly 300 medical new have airealy been eent in to the Semate, but as fresli slymatures keep arrlving. It will be pecessary to forward nnontler batch towards the end of the month, and nanes will beglady received by noe until that dite.

## proposed Annual Lichace to Practice.

Lecus writes: At a time when medical men are disturbed in their minds by the proposed tax on horses, it may appenr unsmasnnable to suggest aunther tax on incomes realueed by agricaltural, manulacturlug, and trade depressions. However, whereas the horse tax is undoubterlly a grievance, the tax 1 would ters to propose would be a protection, and would not necessitate the elnborate discussions of the Medical Council concerning unqualified practice, at the same time being turuch more effectise.

If each qualified registered man paid a yearly tax-a nominal one-anything from half a guinea upwards, and if the collection of such tidx devolved uponthe excise, the excisemen in each district would have a list of all so paying, and should they discover any mar practising in their district not having pald his tix, and therelore proumably not registered, they could take le.gal proceedings against him.

At present, when nn unqualified man is in practice, although the medical men in his neighbourhood often timd him a formalable opponent, no individual cares to "bell the cat."
Considering the late enormous additions to the Medical Register, the number nf qualified men unemployer, mad the number of men who, never having set Ioot in a hospltal or ever having atteaded a lecture, hold gool assistancies or act as principals keeping qualified nssistaata, it is time sonuething more sweeping should be done than picking out isolated cases, and nfternlongand expensive investigation letting transgressors off with a caution.

* The principal objection which occurs to us is that the proposal leaves out of sccount the expense which prosecutions of unqualified practitioners involve. Where successiul. the prosecutor frequently has to bear the costs in full. through the insolvent clrcumatances of the defendant, and the consequent loss of the penalty recovered. Under the arrangement proposed, which Fo मotice gives an option to the Government to prosecute or not, the Government ;would be only very indirectly interested in auppressing unqualified practice; they would only be iuterested in tloing so so far as its suppression would increase the number of registered men, and so mugment the tax. Now the cost of suppressiog unqualitied practice wonll, it seems to us, very far exceed any bonefit of this kind, and, if that were so, the Goverament would prefer to leave unqualified persons ummolested. The uation would get the tax, but the profession who are to bear it would derive no advantage in retura.

On tho otler hand, even if the Government were to undertake, in return for the tax, to proseeute all cases of unqualified praetice, the tax, reduced by the costs of prosecutions, would provide the Chancellor of the Exchequer witl a poor sulstitute for the horse tax.

> Acerte lirgot

Da. C. 14. ILhivgworter (Accrington) writes: Permit me to thank Dr. Francis most heartlly for the boon he lins conferted upon the profession by drawing nttention to the value of astringent ergot. I have used the drug according to his formula, and I have found it to prevent collapse in a marvellous manner. The patient remnins gtrong, and the Iace is flushed instead of pale, as is generally the case with ordinary treatment. There is less hemorringe, also. and a more firm uterlne contraction. These who use the mixture prescribed by Dr. Francis will never use an ammoniated preparation acain. I think; for wiast is raplilty of action with subsequent tentency to collapse, compared with meher less rapid action with the complete absence of that dangerous symptom?

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# AN ADDRESS ON PERNICIOUS AN EMILA, WITH JAUNDICE, AND CASES SIMULATING IT. 

Delivered before the East London and South Essex District of the Metropolitan Counties Branch.
By J. S. BRISTOWE, M.D., LL.D., F.R.S.,
Senior Physician to St. Thomas's Hospital.
In this paper I hare no intention of attempting to throw any light on the etiology of pernicious anemia, but I propose to myself simply to give the clinical history of two cases of the disease that have been under my care, to compare_them?with certain other cases of disease to which they present some resemblance, and to make such comments as suggest themselves.
It will be, perbaps, conrenient that I begin by defining pernicious anæmia, as I understand it , and enumerating its more impertant and characteristic symptoms. Pernicious anæmia is an affection in which, without any organic lesion that has bitherto been discovered sufficient to account for it, without any recognised malarious or similar influence, without any apparent climatic or dietetic default, the blood undergoes progressive ' deterioration, especially in regard to the number and quality of its corpuscles, and in which the symptoms the patient presents are mainly sucb as depend on gradual increasing bloodlessness.
This definition, so far as I have gone with it, necessarily includes chlorasis or the anemia of young women, which usually goes along with some derangement of the menstrual function, and which, almest without exception, if not always, is curable by the judicieus administration of iron; and I must confess that it seems to me impossible at the present time to make any trustworthy distinction between the chlerosis of girls and pernicions aniemia, save such as depends on the age and sex of the patients and on the effects of treatment. Chloresis occurs among young women, and is curable by iren; pernicious onæmia occurs among men and women, usually above the age of 30 , and iron is generally without beneficial influence. Nevertheless, I believe, as most physicians believe, that there is a fundamental difference between them; and, moreever, I suspect that the affections now grouped together and labelled "pernicions anemia" will hereafter be found to beleng to several categories.
Pernicious anæmia, for the most part, comes on gradually. The patient progressively loses the warm tint of healtli, until at length not only his cheeks, but his lips and tongue, the inner surface of his eyelids, his ears, and his finger nails become almost white. Shortness of breath and liability to palpitation ceme on, phenomena which at first are slight and observed only when he is ascending stairs or undergoing exertion, but afterwards become more or less continuous, or at any rate induced by very slight causes. The action of the heart gets feeble, variable in rate, and sometimes irrogular. A hemic murmur usually develops over the pulmonic area. Venous bruits become recognisable in the veins of the neck. The patient conplains of noises in the ears, more especially at night-tine and when lying down. Dropsical effusions take place into the connective tissue, and mainly in the lower extremities. There is a marked tendency to hæmorrhage from the nose, the mouth, the stomach, the bowels, on tho surface and into the substance of internal organs, and beneath the skin. And ospecially hemerrhage takes place into or about the retine. The digestive functions commonly suffer; the appetite usually fails; dyspeptic symptoms, with sickncss after food, are of frequent occurrence; and, as a gencral rule, the bowels are constipated. The urine is for the most part unaffected, but sometimes it pre sents traces of albumen. The patient gets more and more feeble, unable to bear exertion or cxposure to cold; but usually there is no great degree of emaciation. Ile becomes apathetic and forsyetful, yet often irritable and fidgety; and if death ensues (as probably it does sooner or later) he sinks from exhaustion, not inirequently preceded ly coma, or from some intercurrent complicatior

The colour of the skin is usually such as might be caused only by extreme bloodlessness, but not infrequently there is a distinct yellow tinge (affecting also the cenjunctiva), which may be so intense as to be mistaken for that of ordinary hepatic juundice. But it is unassociated with any disease of the liver; no biliary pigment (at any rate as a rule) finds its way into the urine; and it is due, no doubt, not to the absorption of bile, but to the destructive changes geing on in the blood corpuscles and the escape of their colouring matter inte the bloed serum. The blood becomes thin and watery; and under the microscope there is found considerable and for the mest part propertionate diminution of both white and red corpuscles. The blood in several of my own cases was very carefully examined by my pupil, Dr. Copeman, whose obserrations are published in the lnst velume of the St. Thomas's Hospital Reports, and partly confirm those of previous writers, but present a ferr additional items of information. ILe shows that the red corpuscles may be diminished to 30 or 40 per cent. of their proper number-other observers hare found them still more largely diminished; that they are mostly smaller, paler, and less consistent than usual, and tend to alter in shape, and especially to become elongated, and to break down; that they do not usually run inte rouleaur; that mixed up with them are other corpuscles of very small size, and usually of deeper tint than even healthy cerpuscles; that the bloodserum has, in some cases, an amber-yellor bue, and that in some, crystals of hæmoglobin (which in healthy blood are hard to obtain) appear spontaneously when the blood is undergoing desiccation. The breathlessness is no doubt mainly cardiac, depending on feebleness of circulation, the effects of which are necessarily exaggerated under the influence of exertion or excitement; but dyspncea may be partly due also to œedema of the lungs occurring as a part of general anasarca. This general dropss, though not always present, is a common incident of the disease, and may become very censiderable. Beth dropsies and hremerrhage seem to depend partly on pererty of the blood, partly on weakness of circulation, and on thrombosis, which beth of these conditions tend to preduce. Noises in the ears, which are sometimes rashing, sometimes steam-engine like, sometimes musical, almost always come on sconer or later. They are more or less continuous, and evidently venous. They are sometimes the clief source of complaint on the part of the patient, and frequently prevent him from sleeping. They are related, causatively, to the co-existent venous murmurs in the neck and the hremic murmurs at the base of the heart, and are, I am inclined to think, the product of a flaccid condition of the vascular walls and relative emptiness of ressels.
I have already pointed out that the urine is sometimes of normal quality and of normal colour to the last, a point of some interest, inasmuch as it implies a continuous and relatively increasing drain on the red corpuscles. In addition to the restlessness and irritability not infrequentiy ebserved, and the coms which occasionally superrenes towards the close, patients sometimes have delusions and become maniacal, occasionally suffer from temporary blindness, and occasionally alse lese veluntary power and feeling, mere especially in the lower extremities. The temperature for the most part is either normal or subnormal, but not infrequently patients present febrile rises which may be either occasional or mere or less persistent, but are rarely high.
Finally, although in a large propertion of cases the discase is progressive, and proves fatal in the course of a year or two, undoubtedly there are many cases in which more or less perfect recovery takes place, a recovery attended, however, with liability to relapse.
The first case of what is uow generally termed pernicious anæmia which I ever saw-at any rate, to pay it special attentioncame under my care in my out-patient practice at St. Themas's in October, 1857 , and was brought by me under the notice of the Pathelogical Sceiety exactly thirty years ago. The patient was a clerk, -6 years old. During the previous five or six years he had been dyspeptic and fanciful; and during the last twe his temper. naturally placid, had been getting irritable and peevish. In 1852 he had had what be termed a "stemach attack," which lasted two or three menths, and was followed by some impairment of vision. A few months afterwards he had had a sinilar but slighter attack; and during the next three or four years he had suffered from two or three relapses, in the last two of which he stated that he had been slightly jaundiced.
IIis present illness had come on gradually during the preceding six months, with depression of spiritz, vertigo, loss of appetite.
trembling in the knees, and pains in the jaws and face. Slight jaundice had been added to the other symptoms after about two months, and latterly occasional matutinal vomiting of bilious fluid. There had been no epigastric uneasiness or vomiting after food; the bowels had been variable, but generally constipated.
IIe was spare, auxious-looking, and universally though not deeply jaundiced. There was neither general dropsy nor ascites, no fulness or increased dulness in the recion of the liver, and no uneasiness or tenderness in that situation. The heart 's sounds were normal, the pulse rapid, small, and weak, and the functions of the lungs were healthily performed.
IIe continued attending as an out-patient until January 19th, np to which date there was certainly no improvement in the symptoms. The jaundice was much the same at the end as at the beginning; the vertigo and occasional headache, the morning bilious vomiting, with feelings like those of sea-sickness, and the condition of his nutritive functions, of his evacuations, and of his physical powers remained unaltered. On two or three occasions ho had complained of weight at the chest after food, and for a week of a dull pain to the right of the umbilicus.

On January 19 th be was admitted under my care, and died on February 4 th. From the 19th to the 2nd there was not much variation in his symptoms. He was extremely weak and somewhat emaciated, with a rapid, feeble pulse. He complained generally of a feeling of giddiness, and of pain about the eyes, especially when he moved. His tongue was pale, and occasionally furred; his appetite was variable. He suffered much from thirst, and frequently romited bilions fluid. The bowels were generally constipated, and the motions pale, though not wholly untinged by bile; and his urine was high-coloured. The skin was dryish, and both it and the conjunctive were very decidedly jaundiced. He complained occasionally of dimness of sight and deafness. His sleep was generally undisturbed.

On February 2nd he enffered more than usual from the deafness and dimness of sicht, and occasionally rambled. During the ensuing night and the next day these bymptoms, and especially the delirium, increased, and he was at times violent; but he understood what was said to him, and would answer rationally. lle continued in the same state (gradually sinking however) until 4 A.m. on the 4 th, when death took place.

Varions plans of treatment were carried out, but none with obrious benefit; at one time he was dosed with nitric acid and cinchoan, at another with iodide of potassium and gentian, at another with iedide of mercury, at another with alkalies.
The corpse was universally but olightly jauadiced, and very pallid. There was some cedema of the back parts of the lungs. The heart was rather large, its substance was pale and soft, and its imar sarface especially pale and mottled. Several of the smaller branches of the pulmonary artery were filled with firm but unadherent fibrinous cnagnla. The liver was somewhat enlarged, but of normal consistence, and of a uniform yellowishbrown tint. The bile-ducts and the gall-bladder were entirely healthy. The spleen weighed one pound, but was normal in texture. All other organs were sound. The muscular tissue of the heart, and especially those parts that were mottled, presented well-marked fatty degeneration, and the liver cells contained for the most part a good many small oil globules. The blood was everywhere remarkably pate and watery, but did not display any prependerance of white corpuscles.

Among the remarke which I appended to my case are the following: "During the proyress of this case the persistence of jaundice led me to regard the liver as tho organ at fault." "It would be useleas now to state the precise diagnosis at which I arriverl, for the posi-mortem examination showed that the liver was structurally healthy, and that there was no essential disease of any other organ."

Was the case an example of that mysterious form of fatal jaundice" (1 referred to an-culled matignant jaundice) "which Dr. Alison first describel? There may he some reasons for answering this question in the aftimative, hut there is at least one important fact against it; the casr under consideration was essentially chronic. But was the case really one of fatal janndice at all? I must confers that on reviewing and comparing the history of the patient during life, and the results of the post-mortem examination, there scemas grenter reacon to believe that his death was due to gevere and jrogressive anemia than to any affection of the liver; that the cas wha, in pint of fact, one of anæmia, attended or fnllowed by jumbice. I founded this opinion, partly on the fact that the patient was ailing, and probably assemic be-
fore the jaundice made its appearance; partly on the symptoms which manifested themselves while he was under observation, and which, with the exception of the jaundice, were precisely those of anmmia, and partly on the state of the organs as revcaled after death, none of them being positively diseased, but'ecveral being in such a condition as one ordinarily finds them to be after long-continued deterioration of the blood. If the view here ouggested be correct, the case is allied to those examples of anamia to which Dr. Addison alludes in the commencement of his work on Diseases of the Suprarenal Capsules."
That this case was a typical case of pernicious anæmia, and that the jaundice obsersed was the kind of jaundice not infrequently met with in this disease, I have long had no doubt.
The next case I shall venture to quote is one in which there Was also well-marked jaundice, and in which, for several reasons, the true nature of the disease, at any rate what I am disposed to regard as the true nature of the disease, was for some time overlooked.
E. B., a young weman, 27 years of age, was admitted under my care on January 11th, 1886 . She had been a patient of mine eleven years previonsly for rheumatic fever, and two years aftereleven years previousiy for rheumatic ferer, and was adme admitted with rheumatism and pericarditis. I hare not looked up the particulars of her illness on these occasions: but I have a distinct recollection that in one of theae attacks she was exceedingly ill, and for some length of time in considerable danger. Since that time she has been liable to rheumatic pains and to shortness of breath.

Her present illness was of nine months' duration. At its commencement ale went into the Brighton Ilospital, where she remained six months. While there jaundice seems to have come on gradually, and she seems also to have lad an attack of acute pneumonia, in which her temperature rose to $105^{\circ} \mathrm{F}$. In November she came for a short time into St. Thomas's, was jaundiced, and I beliese was thought to be suffering from gall-stones. She was then sent to a convalescent hospitai. While there the jaundice became more intense, and she suffered much from pain in the region of the heart and right hypochondrium, and from alortness of breath. The catamenia had been absent during the whole period of her illness.

State on Admission.-She was a well-nourished woman, complaining mainly of weakness, shortness of breath, and pain in the precordium and both hypochondriac regions. She was somewhat ansemic, and presented a general saffron-yellow tint of skin and conjunctive. The lungs were healthy. The cardiac dulness was somewhat extended; and the apex-beat in the fourth interspace in the mid-claricular line. The sounds were healthy, but for the fact of a rough, scratchy systolic murmur in the pulmonic area. There was a rounded lump (apparently part of the liver) to be felt just below the tips of the eighth and ninth cartilages on the right side. Otherwise the abdomen was normal. The tongue was coated; the bowels were confined, but the motions were normally stained with bile, and the urine presented copious urates, but no trace of biliary colouring matter or of bile acids.
During January and Febrnary her condition varied, and was by no means eatisfactery. She suffered from pains, sometimes persistent, sometimes paroxysmal and eevere, referred chiefly to the right hypochondrium, but sometimes to the left, sometimes to the procordium, and sometimes to the loins. The nature of these pains was not clearly made out; but they were occasionally thought to be due to the passage of gall-stones; occasionally thought to be connected with old adhesions (which undoubtedly existed) of the pericardium ; occasionally-and perhaps, on the whole, more commonly-were attributed to cougestion of the liver secondary to the cardiac affection. But no gall-stones were found, the motions were always bilious, and the urine never coutained any bile-pigment.
She had pains and throbbing in the head, and a sound as of rushing water in the riglit ear. She suffered also from time to time from slight but obvious rheumatic inflamnation of some of the joints. Her pulse was feeble, rariable in rate, cometimes irregular, and rarely over 80. Her respirations were often quick and laboured, and occasionally were at the rate of 48 in the minute. She auffered from pretty constant nausea, and occasional attacks of sickness, and twice had epistaxis. During all this period the temperature was almoat always slightly above the normal, and not infrequently rose to $100^{\circ}$ or $101^{\circ}$, and on two succeasive days, when the patient felt specially ill, and was complaining of considerable precordial pain, it roee to $103.2^{\circ}$ and $103.4^{\circ}$

During all this time the patient's symptoms were assumed to due directly or indirectly to the maladies from which she had so ong suffered; namely, embarrassed action of heart, dependent on adherent pericardium, secondary engorgement of the liver, and re current attacks of very slight rheumatism, and it may be added that the right lobe of the lirer became more obvious than it was
and also was detected. But she was steadily becoming more and more anæmic, and, early in March, I began to suspect that her symptoms might be largely due to this progressive anæmia. Her eyes were then examined, and it was found that the optic dises were reduened and swollen, the eins were pale and scarcely differing
from the arteries in colour, and there were a few choroidal hæmorrhages. The blood (examined by Mr. Copeman) was pale, coagulated rapidly, and contained an excess of fibrine; the red corpuscles were only 36 per cent. of the normal, and on drying hroke down with the formation of hæmoglobin crystals. She was now trented with liquor arsenicalis, at first five and hater ten seemed to increase : then manifest improvement took place. She gradually lost her pains and discomforts, and her sense of nausea; she became stronger, and some degree of rosiness returned to her cheeks and lips and finger-nails.
re-examined, and the harch 19th her eyes were considerably in number; hut a further examination. on April 3rd, showed that the retinitis had largely subsided and the hemorrhages almost disappeared. On the same dates the blood also was tested and found improved in quality. The report on April sra form in size, of better shape and colour than they had been a month previously, and that they now formed 60 per cent. of the proper number. Moreover, though they did not run into roulecu. $x$, they did not break down when a drop of blood was dried; and hæmoglobin crystals could not be obtained.
She was disclarged fairly well on April 21st. She had then lost all her abdominal and thoracic pains, her headache, her nausea and sickness; her yellowness had diminished, though it had not actually disappeared; she had become rosy; her strength had greatly improved, and she had been getting up indeed every day for the last month; her temperature had become normal; she slept well and ate well, and expressed herself as feeling far better in health than sle had bren for twelre months; but the hæmic cardiac murmur remained, and there was still enlargement of the liver and spleen.
It is important to note that no improvement took place in this patient during the first seven or eight weeks of her residence in the hospital, but that during the last seven or eight weeks, while she was kept under the influence of arsenic, her recovery was progressive and rapid.
There can he no reasonabie doubt, I think, that both of the above cases were true exaniples of pernicious anemia, and that the light jaundice present was due not to liepatic disorder, but to decomposition of the blood. That the cases were misinterpreted (the former during the whole of the patient's lifetime, the latter during the greater part of her illness) admits, I think, of reasonable excuse. The former case occurred at a time when idiopathic aniemia (apart from chlorosis) had scarcely beenstudied, and in the latter case the anrmia became engrafted, as it were, on the presence of lesions, which were themselves conpetent to produce jaundice. I have quoted them, indeed, in preference to other cases which I might have quoted, largely on account of the difficulties they presented in the way of correct diagnosis, but nlso because of the close relationship there appears to be between the variety of pernicious anæmia they illustrate and the anæmia present in the cases which 1 now proceed to narratc.
A. T., a girl of 15 , was admitted under my care on June 29 ch , 1887. She lad, on the whole, enjoyed good health, excepting that for nearly five years she lind been jaundiced, and threo years ago was my patient in the hospital with mucla the same symptome as those she was now euffering from. ller present illness was of three months' duration, and during all the time she had complained of pains in the side, especially on walking, and latterly of fecling drowsy. She had been laid up for the last week.
State on Admission. - She was a well-nourished, and not epecially anomic girl; but she presented a general saffron-yellow lint, the conjunctive being coloured as well as the rest of the surface. She complained ouly of weakness, and of pain in the riglt side and in the abdomen. The thoracic organs were perfectly healthy. The sploen was much enlarged, extending down
to the umbilicus; it was freely movable, and presented the usund notel. The liver did not descend below the ribs, In other respects the abdomen was normal, presented no tumour or fluid, and there were no enlarged veins in its walls. There had heen no hæmorrhages, and there were none now. The appetite was fair: the bowels were somewhat confined. but the motions were colourcd with bile. The urine had a specific gravity of 1015 , presentecia a mere trace of albumen, and was quite free from bilc-pigment. The blood contained what appeared to be a fairly healthy proportion of red corpuscles, hut there was a slight increase of white. The red corpuscles did not form definite rouleaur, but ran into irregular masses. They were of normal shape and colonr.

She was in the hospital seventeen dajs, during which time she was restored to her usual state of health; but the jaundice, thie spleen, and the condition of the blood underwent no change. Her temperature was always normal; her pulse varied from ${ }^{\circ} 4$ to 80. There was no further record of the presence of albumen in the urine.
For some two or thrce months she continued to visit me as an out-patient, but no further improvement was noted. She was treated during the time she was under my care with iorlide of potassium and mercury.
A. R., single, aged 2.2 , came under Dr. Ord's care on September 21st, 1886. She had been a patient of mine in 1879, and of Dr. Ord's in 1884 and 1885. She had complained mainly of weakness, shortness of breath, headache, and pains about the body. She does not seem ever to hare had rieumatiem or any other serious acute illness; but ever since she had been under observation she had presented a loud systolic murmur, most marked at the left base, which Dr. Ord (1 believe) regards as duc to some congenital cardiac defect. She has been jaundiced for some jears. State on Admizsion.-She was a dark-haired, well-nourished girl, markedly anemic, and at the same time presenting slight junctirestakable jaundice, both of the skin and of the conjunctive. The cardiac dnlness was not unduly extensive, and within the nipple line mpinged in the fourth interspace, an inch at the left base, was audible over the whole cardiac area. A venous hum was audible in the neck. The lnngs were healthy. The liver extended for an inch and a half below the ribs, but mas smooth and free from tenderness. The spleen was very large; its anterior edge (which presented a deep notch) approached the ilium is its lower end reached the anterior superior spinc of the no ascites, and no enlargement of the superficial abdominal veine The blood was unduly pale; the red corpuscles were irrecturing form, many being oval, and did ant form rouleauz: there was no excess of white corpuscles. The urine had a specific grarity of 1012 . was acid, free from albumen, sugar, bile-acids, and bilepigments, but presented many uric acid crystals and amorphons nrates. The stools were of natural colour. Her pulse was nniek: her temperature a little alove the normal. She was treated with 5 minims of liquor arsenicalis three times a day.
The patient's symptoms varied some what while she was in the hospital. Her puise was generally rapid and at times irregular : she generally had more or less cedema of the legs and ankles; shie had attacks of pain in the sides and in the back, and she felt weak. On one occasion she had epistaxis. The blood was examined on several occasions, and the exaninations in the main contirmed the description abore given; the red corpuscles, homever, were found to be diminished by ahout one-fourth. The nrinc never presented any bile-pigment or bile-acids, albuncn, or sagar. Her jaundice contimed, hut on the whole she improved. and she left the hospital on Norember 10th.
She was again admitted under Dr. Ord's eare on July $25 t h, 1857$. Slie had then been getting poorly for a couple of nonthe, sulfering from short breath, mausea and debility. On admission she wae practically in the same state as lefore. There was great anixmia. and light but well-marked jrundice. The hood had undergone no change. The red corpuscles were enerally oval or irrequtar in form, and did not run into distinct rouleciur; but the rihite corpuscles were thought to be relatively increased in number. The urine still contained no trace of lile, and was otherwice healchy in composition. The cardiac murmur persistcd, the liver still juit emerged from heneath the ribs, and the eplech still extended down to the anterior suporior spine of the ilium. She was treated with hypophosplite of soda (ren grains three times a day), to which was sulsequently added five grains of the cirrate. of iron and ammonia.

Again she improved in health': but left the hospital still anamic, still jaundieed, and with a large spleen, on August 26th,

That the last two cases werc of the same nature there can scarcely be a doubt; and that they presented many characters in common with the first two is also obvious. The identity between the last two is implied by the association in both of chronic enlargement of the spleen, chronic yellowness of conjunctive and skin, simulating hepatic jaundice, and deterioration in the quality of the blood. It is true that in one of the patients there was a loud cardiac murmur, venous bruits, and marked bloodlessness, with such changes in the blood as are found in adranced pernicious anmwia; and that in the other the heart's sounds were hoalthy, no venous hums were observed, the anemia was scarcely noticeable, and the microscopic changes in the blood were only slight. But I confess I hare a suspicion that the cardiac murmur was hamic, and, at any rate, all the other differences just enumerated are only such as might be explained by the different stages of anæmia the cases had severally attained.
The resemblances between the last two cases and the quoted cass of pornicious anemia were mainly the presence, in both serics, of jaundice without discoverable disease of the liver, alteration in the quality of the blood with loss, or tendency to loss, of red corpuscles, and the kind of weakness which attends progressive aniemia. Indeed, it might, I think, be argued that they were all four eases of pernicious anemia, or, at any rate, of the same form of disease; inasmuch as, in addition to the resemblances above enumerated, enlargement of the spleen was present in all. It will be recollected that in my first case, although enlargement of the spleen was not observed clinically, the organ weighed a pound at the necropsy; and that, in the second case, nome enlargement both of the liver and of the spleen was detected during life. But, on the other hand, the long duration of the last two cases, and the fact that the patients were both girls, of an age at which ordinary chlorosis is common, pernicions anæmia rare if not unheard of, render this view of their nature improbable. I believe, although I do not pretend to adduce adequate proof of the correctneas of my belief, that the first two and last two cases really belonged to different categories.

It may be asked, To what was the large spleen in these cases due? In the last two cases there was no reason to believe it was of malarial, of syphilitic, or of rickety origin ; there was nothing that could have induced lardaceous degeueration; there were no tumours of lymphatic glands or disease of other organs to suggest the presence of lymphadenoma; neither the aymptoms nor the condition of the blood was compatible with leucocythemia; and, lastly, there were no sufficient grounds to attribute the splenic enlargement to portal obstruction. In the first case the structure of the enlarged spleen seemed to be healthy; in the second case it is of course possible that the enlargement of the organ was consequent on portal congestion.
The fact, however, that the spleen was enlarged in all four cases suggests the inquiry whether there was any relation between the presence of jaundice and this enlargement. It is admitted, I believe, by physiologists that one function of the spleen is to canse the disintegration of effete red corpuscles, and that the serum of the blood in the splenic rein is tinged with the dissolved hemoglobin derived from this source. It seems not ualikoly, therefore, that (whatever may be said as to the first two cases) in the last two cases the enlargement of the spleen was connected with an undue destruction of red corpuscles in this organ, and the discharge into the blood-stream of a larger amount of dissolved hemoglobin than could be got rid of by normal phyvological processes, and hence the general staining of the bloodserum and the general yellow tint of the body. But, at any rate, the jaundice in no case presented the characters of jaundice from obstruction of the hepatic ducts, and there is no sufficient ground for attributing it in any one of the cases to disease or disorder of the liver.

The different characters of the cases I have brought forward and the different kinds of treatment adopted in them make it inpossible to deduce from their clinical history any valuable information as to the effects of treatment. If my paper had been fevoted to the subject of pernicious anemia alone, I should have leeen able to confirm the general belief that cases of this disease are in large proportion fatal under any kind of treatment; but I hould have heen able to show that many cases which appear to los of the same lind undergo great improvement or get well, and that (as is now generally held) arsenic seems to have in a large unmber of cases a strikingly bencfleial influence over the progress
of the disease. Of this beneficial influence my second case is a good illustration.

## A CASE OF EXTRA-UTERINE GESTATION CURED BY ABDOMINAL SEC'TION TWO HOURS AND A HALF AFTER RUPTURE.

By G. ERNEST IIERMAN, M.B.Lond., F.R.C.l.
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Tue following case has more than one point of interest. First, I believe it is unique in the shortness of the interval between rupture and operation. Very few cases of extra-uterine gestation have been operated on while the patient was in collapse from the first hæmorrhage; in most of the published cases hæmorrhage had stopped, and the patient had rallied before the operation was done. I do not know of any case iu which the operation was done so soon as two hours and a half after rupture. This promptness of interference was due to the patient's good fortune in being in hospital at the time of rupture.

Secondly, the case is unusual in the lateuess of rupture. Tubal gestations usually rupture before the end of the third month, while this one went on for about four monthe.
Thirdly, if the diagnosis of the first illness be correct, the case is an instance of two successive extra-uterine pregnancies in the same patient, first in one tube, then in the other. There may have been an identical morbid condition of the right and left tubes which occasioned the failure of the ovum to reach the uterus.
Fourthly, the uterine souffle was distinctly heard. This is so rare in extra-uterine gestation that it has even been maintained that the presence of a uterine souffe justifies the conclusion that a pregnancy is uterine. The case now reported shows that this general rule is not without exception.
H. N., aged 24, admitted December 16th, 1885. (The notes on this occasion were taken by Mr. H. J. Hawthorn.) Until the present illness she had alwaya had good health. She began to menatruate at 15 , and was regular every month, the flow being scanty, and only attended with slight pain. She was married at 18, aud had two children, the last ten months ago; labours easy; no miscarriages. During the whole of the last pregnancy, and for a month after delivery, she had a copions yellow discharge, and her womb seemed to come down. After the last confinement she was regular, without pain, till September 4th. From this date till October 20th, she saw nothing. She then had a slight discharge of blood, and this recurred every week till five weeks ago, sinee which time she has been losing continuously and copiously. About five weeks ago, on getting into bed after passing water, ahe was seized with faintness and a cramp-like feeling at the bottom of the stomach ; she broke out into a cold sweat, shivered, and her husband said she looked very white. This cramp-like pain continued severe for about three days and then improved, but soon recurred, and has continued on and off ever since, often preventing her from sleeping. For two or three days after the first attack of pain micturition was painful and the urine scanty. There was no trouble in defecation.

On admission patient complained of pain in the back and lower abdomen, and was losing blood. The abdomen was tender, and the muscles held very rigid. Per raginam a hard, convex, very tender swelling was felt, occupying the left posterior quarter of the pelvis, and pressing the uterus forwards and to the right. The sound entered 33 inches. Temperature was $100^{\circ} \mathrm{F}$.

A neek after admission the hæmorrhage becamo slight, but it continued until January 6th. After this date, throughout the patient's stay in hospital, there was no hromorrhage. No deeidual membrane was noticed in the discharge. The temperature, all the time the patient was in hospital, never exceeded $100^{\circ}$.
The pain continued much the same as on admission, generally severe, but with occasional remissions, for about six weeks. Then it improved, and at the beginning of February was only slight and occasional. The mass in the pelvis remained of about the same size for at least a month, and then began to gradually become smaller, harder, and less conver. Patient was discharged on February 14th, 1836.

March 23rd ahe came to report hersclf. She felt quite well. Swelling in pelvis smaller than when in bospital. Patient men-
struated last week, the first time for eleven weeks, without pain, flow copious.
The diagnosis made at the time was that the swelling behind and to the left of the uterus was either a dilated Fallopian tube, which was suggested by the position of the tumour and the severity and persistence of the pain, or a hæmatocele from a ruptured extra-uterine gestation. The latter supposition was based on the histery of amenorrhea, followed by a sudden illness, attended with pain, faint ness, and pallor. The course of the case seems to me to accord with this diagnosis rather than with the former. It is far from certain, hut many cases hare been published as "cures" of extra-uterine gestation by electricity in which the diagnosis rested on ne better grounds. Had electricity been used in this case, it might perhaps have been erroneously credited with the cure.
The patient came again to the hospital, nnd was readmitted on February 9th, 1888 (the notes on this occasion were taken by Mr. C. J. Kirton, clinical clerk). She said she had been perfectly well since leaving the hospital until the last four months. She had menstruated regularly and painlessly, the last time being in October, 1887, after which she saw nothing until December 25th, when she menstruated, the flow being rather more copious, but otherwise as usual. Nothing like a membrane was observed in the discharge. In this interval she had noticed nothing that made her think ghe was pregnant. After December she sawnothing, and she then thought she was pregnant. About December 20th she began to have pain after passing urine. Throughout January, 1888 , she had pain in the back and lower abdomen, chiefly on the right side, 80 bad as to oblige her to keep her bed; this pain she described as continnons, not paroxysmal, and not relieved by lying down. Her appetite became bad, and at times she felt faint.
On the morning after admission she was examined by the resident accoucheur. Her general condition at that time was not such as to suggest any imminent danger; she walked to and from the examination conch. The abdomen was tender on pressure, and there was a rounded swelling rising out of the pelvis as far as to a little below the umbilicus. On vaginal examination the cervix was found pusled forwards, and behind it was a large rounded swelling feeling very much like a retroverted gravid uterus. The sound entered $3_{\frac{1}{2}}$ inches, in the normal direction. A distinct uterine souffe was heard over the abdominal swelling. The temperature was normal.

A little before one o'clock on February 10th the patient was suddenly seized with violent pain in the abdomen, so severe as to make her feel faint; she became distinetly pallid, broke out into a cold sweat, and her pulse became small, rapid, and weak. Dr. Iferman saw her shortly before three o'clock. The symptoms clearly pointed to internal hæmorrhage, and the history and previous physical signs made it probahle that this might be due to a ruptured extra-uterine gestation. Therefore at 3.20 P.M. (that is, as soon as the necessary preparations conld be made) Dr. Herman opened the abdomen, tirst by a small exploratory incision about an inch in length, which gave exit to a quantity of fluid blood. The diagnosis being thus confirmed, the incision was extended to 23 inches. Much fluid and clotted blood was then expressed by pressure on the abdominal walls. Then a fretus of about four months' intra-uterine age, which was lying free (except for its umbilical cord attachment) among the bewels was removed. The placenta was found attached, at least mainly, to the right Fallopian tubc. This was pulled up and removed, together with the ovary, the stump being tied with the Staffordshire knot. No attempt was made to search for or remove such part of the placenta as might not be attached to the tube. The peritoneum was then washed out with clean warm water. A large drainagetuhe was put in, reaching to the bottom of Douglas's peuch, and the wound closed in the usual way. The pulse when the operation was legun was 150 . After its completion ( 4.10 P....) 152.
In the evening ( 8.30 p.a.) the pulse had sunk te 138 . The drainage tuhe was removed on the following day, but it appeared from the subsequent course of the case that this may hare heen rather too soon, for on the fifth day the patient complained of some abdominal pain, and the temperature rose to $100.5^{\circ}$. On the sixth day there was a discharge of dark bloody fluid from the wound, and the temperature on this and the following day reached 101 . It then gradually sank, and after the fourteentl day did not exceed 99 . On the eightl day a amall drainage-tube was inserted. The discharge continued sanguineous for about five days, and then
became slight and purulent. The drainage-tnhe was gradually: ahortened.
March 17th. Patient get up.
March 30th. Discharged feeling quite well.

## ON THE TREATMENT OF INJURIES OF THE abDominal VISCERA. <br> by Brigade-Strgeon C. H. T. Godwin, M.S., Assistant Professor of Surgery, Arny Medical School,

THe freedom with which surgeons have been for some time dealing with disease of the abdominal and pelvic riscera with such remarkable success has had a considerable effect in stimulating surgeons to inquire whether it was not possible for them to take bolder steps in the treatment of perforating wounds of the abdomen, a class of injury hitherto most fatal in character, whether as the result of stabs or of gunshot mounds. Moreover, the dread of interfering with the peritoneum has, in a measure, passed away, since it has been found that if antiseptic precautions are duly taken, the peritoneum is as tolerant of treatment as any of the other serons membranes in the body.

With a view of inquiring more particularly into the nature of gunshot weunds of the abdomen, and the best methods of treating them, Dr. C. T. Parkes, Professor of Anatomy in the Rush Medical College, Chicago, performed a series of experiments upon dogs by inflicting upon them intentionally gunshot wounds. He operated in this way upon 39 dogs in all; the bullet was of large size- 38 or 44 calibre-and the firearm possessed great penetrating and lacerating power. Several most important lessone have heen taught by these experiments.
Dr. Parkes says: "There was not manifested in any case any recognisable evidence of shock aside from that following great loss of blood. The transit of the bullet made no noticeable impreasion upon the pulse or respiration. In every instance where signs of severe prostration became manifest through change in respiration or weakening of pulse, there "was found profuse hemorrhage to account for such condition."
Intense and prolonged shock has always been recognised ns one of the most marked symptoms of a perforating wound of the abdomen. By these experiments Dr. Parkes finds himself unable to disassociate this symptom from the condition caused by severe internal hæmorrhage. He tabulates the following conclusions:-

1. Hæmorrhage following slot weunds of the abdomen and intestines is very often so severe that it cannot be safely controlled without abdominal section.
2. Extravasation of the contents of the bowel after shot injuries thereof are as certain as the existence of the wound.
3. No reliable inference as to the course of the bullet can be made from the position of the wounds of entrance and exit.
4. The wounds of entrance and exit should not be disturhed in any manner, except to control bleeding or remore foreign bodies when present.
5. Several perforations of the intestines close together require a single resection including all the openings. Wounds destroying the mesenteric surface of the bowel always require resection.
6. The best means of uniting the wounded intestine after resection is by the use of fine silk thread, after Lembert's method.
7. Wounds of the stomach, small perforations, and abrasions of the intestine can be safely trusted to the continued catgui suture.
8. Every bleeding point must be ligatured or"cauterised.
9. Primary abdominal section in the midline gives the best command over the damage done, and furnishes the most feasible opening througl which the proper surgical treatment of such damage can be instituted.
Supposing we have before us a wound of the abdominal parietes, the first thing that we shall wish to know is, Does it penetrate? and, if so, aro any of the viscera wounded? What symptoms cau we rely upon as diagnostic of a wound of the riscera? If the wound is due to a bullet, and supposing it to have passell out, the experiments teach us that we can really form very little idea of its track by comparing the position of the wounds of entrance and exit.

Dr. Parkes remarks: "Nothing can be more uncertain and erratic than the track of a missile through the body."
Sir William MacCormac, in speaking of wounds of the bowel,
sans: " When the injured intestiue is prolapsed. through the woumd, or the contents of the tube cscape externally, the diaanosis is clear; but these occurrences are the exception. Tympanites and discharge of blood per anum are valuable symptoms when prosent; but neither may appear directly after the injury. Limplysema, when it occurs in the wound neighbourhood, is said to be pathognomonic. Shock and pain vary so much as to afford no useful guidanc

On the other haud, the experiments show us that it is nearly certain that if there is penetration there will be injury to the contents. Now, uearly all cases of injury to the intestines prove fatal, and the moztality is due either to hemorrhage or to septic peritonitis: hence the necessity of a dingnosis withont delay. If we are prepared to act upon the probability that, if there is perforation there will also be a wound or wounds of the viscera, can there be any valid reason against our determining the faot of penatration by probing the wound? Meretofore, when the treatment of this class of injuries was merely of an expectant nature, the rule undoubtedly was not to interfere with the wounds, except to arrest hxmorrhage or to remove' a foreign body; but when the knowledge is critical, can any harm be done by inserting a perfectly clean aseptic probe? This, 1 presume, we should do, taking at the same time every precaution that was possible not to disturb the parts unnecessarily, feeling sure that, if we waited for symptoms to develop-or, in other words, for symptoms of septic Heritonit is to commence-it would then be too late for an operafion. The urgeucy of an operation is also pressed upon us by the Sact, illustrated in these experiments, that when a blood-vessel in the abdominal carity is wounded, it continues to bleed, the blood poured out docz not coagulate, nor does the vessel contract or retract, so that death from hemorrhage can easily follow the injury of a very small vessel.

Thus, exccssive and persistent hxmorrhage from small yessels in the closed cavity of the abdomen is illustrated in another class of cases-namely, in the intraperitoneal hematocele following rupture in cases of tubal preguancy.

Mr. Lawson Tait writes in the Jocranal, March 13th, 1886: In my experience of intraperitoneal lisematocele, amounting to something like fifty-three or fifty-four cases, when 17 have verified the condition, either by post-mortem examinatien or ante-mortem abdominal section, the only cause of the condition was the rupturo of a tubal pregnancy. In these cases there was a more or less extensive homorrhage, occasioned by the rupture of small vessels within the aldominal cavity."
When, however, the abdomen is opened and air admitted; the Llood coagulates, the vessels contraet, and the natural hemostatio efforts are called into play. Hence, in the future in these cases, if we hope to save life, we must operate at an early period. There is also another reason forcing us'on to the operation. Supposing the intestine to be wounded, there is the certainty of extravasation of its contents, which is equally sure to be followed ;by septic peritonitis.
If, then, we decide to operate, we choose the mildle line, and lenve the bullet or knife wounds alone. We should choose the middle line, becauso here the edges of the wound can be kept in good apposition, because the linea alba is less rascular than other parts, because the section of it unites very readily, because there is a less thickness of parts to cut through than if we attempted to divide the muscular walls themselres, and, lastly, because an incision through the linca alba gives us more room and greater froedom of manipulation than any other form of incision. Haring apenerl up the abdomen we next proceed to examino the intestincs, and if we found only a linear clean-cut wound, we should sew it up by cither a continuous or Lembert's suture with fine silk; ascertain that there was no bleeding vassel left unticd, thea proceed to wash out the cavity with a warm boric or other astiseptic solution, and close the wound. But if the wounds of small intestine were due to a bullet, and were several in point of number, if near together, it will be evident that a resection of the injured gut will liave to be carried out.

This lias bcen done in several instances, and quite recently Mr. Garker reported a case in the lounsial, March 17th, 1888, when he say3: "The wounded gut having been excised, the margins of the bowels were united tagether by a continuous suture on. both , sidea, and the cut edges of the bowel having by this means been apposed on their proximate aspect, they were united by a continuous suture of fine silk taking up the serous and muacular coats just at the edge, the needle coming out at the cut margins st each stitcl. A second row of interrupted silk sutures was
now introduced to reinforce the first. These took up the serons and muscular coats just beyond the first row. This was done on November 21st. The man died on the fifth day, when it was found that union had taken place thoroughly between the cut cuds, and the bowel was not obstructed in any way. 'l'ested with considerable pressure it was perfectly air- and watertight."
Dr. Parkes thought that the Lembert suture alone was quite as efficacious as the more complicated forms of suture, which all require much time and patience to introdace. He describes that the chief difficulty is always to be found at the mesenteric border, Where it is difficult to get the serous surfaces in contact owing to the separation of the layers of the peritoneum just before enclosing the bowel, forming thus a triangular space, where the bowel may be said to be not corered by peritonenm.

The cavity of the abdomen must be thoroughly well cleansed, and in these cases there is this difference between operations undertaken for disease and those necessitated by injury. When abdominal section is performed for disease, a simple washing out will suffice; but if there has been a wound of the intestines there will also have been feeeal extravasation, and heuce there will be greater trouble in the washing out, and some sponging will be possibly unavoidable. Sponges once used to remove faecal extravasation should not be used again in the same operation. In bringing the edges of the abdominal parietes together, it is recommended that the sutures should be passed through the entire thickness of the walls, including both peritoneum and skin, and everything between them; drainage-tubes do not seem to be invariably necessary. When in l'aris, attending the Congress of Surgery, held in Marclı last. I witnessed M. Pozzi, when closing the abdomen after an ovariotomy, first semed the edges of the peritoneum together by a continuous catgut suture; then in like manner the muscular aponeurotic walls; then he included in his interrupted sutures the thickness of the walls extermal to the muscular coat. He described this in a paper at the Congress, as giving excellent results as regards a firm and unyielding bcar. For the different forms of suture that have been recommended for wounded intestine, I would refer to Sir WV. Mac Cormac's monograph on Abdominal Section, 1887.

In conclusion, 1 submit that if a person is now brought to hospital with a penetrating wound of the abdomen, laparatomy should at once be undertaken on the grounds that if no viscera are found wounded, the patient's condition has not been greatly altered, and if the iatestine, is wounded, we are quite sure that septic peritonitis wonld speedily bring about a fatal termination; but of course all such operations should be undertaken as grave dad 'serious measures, and every antiseptic precaution should be taken to ensure a satisfactory result.
On the other hand, with reference to soldiers in the field, the question is somewhat different, and I cannot help feeling greatly the force of some remarks of M. Delerme. a Freuch army surgeon at the Val-de-Grace, who, in a paper read at the late Congress, says, when cont rasting the case of the wonuded soldier with that of the wounded citizen: "Suffering from intense shock, often moribund, he las at first to wait for many long lours before he can be remored, and then not until he has been subjected to some rongh and improvised carriage can he reeeive the aid of the ambulance surgeon, who will have none of the nice appliances of the operating thentre, but merely such as are baroly sufficient for the coumon pperations of field surgers. There would not he the quietude necessary for earrying out a delicate and. prolonged operation. The very excitement of the combat has affected all alike; time presses. Absorbed as he is by hundreds of cases urgently demanding his ail, the utility of which in their cnses is undoubted, can he be blamed who, in circumstances so wretched and unfavourable as these, does not stop to hunt after a wounded intestine?"
However, at first the same oljection was brought against antiseptic surgery in the field, yet Russian and German surgeons overcame the difficulty in their last war, and English army surgeons since then have done the same with considerable snccess. Let us, therefore, hope that, under its salutary influence, army surgeons will yet find a way to suceour their comrades, even though they be allicted with a penetrating wound of the abdomen.
${ }^{2}$ Note.-Works referred to: Ciunshot Mounds of the Small Intestines. By C.T. Parkes, M. D., Professor of Anatomy. Chlcago.-On Abdominal Section. By Sir Wh. Mac Cormac, F.R.C.S.-Trosreme Congnts "rangais de Chion Paria. "Les Mation Complote dun kyste Mydatique du Foic. By M, Pozzi, de Parsa. VyldsPlates de 1'Intratin par les Projectle तe Querre. By Mi.

## TWO CASES OF ENTEROSTOMY.

By F. BOWREMAN JeSSETT, F.R.C.S.ENG.,
Surgeon to the Cancer Hospital.
Case r. Gastro-Enterostomy.-A man, aged 50, was admitted into the Cancer Hospital on January 22nd, 1887, suffering from intense yain in the pyloric region, accompanied by most violent vomiting and retching shortly after taking food. He had experienced considerable pain in the epigastrium for more than two years; this had not increased very much until within the last few months, though he had from time to time vomited what he described as "coffee-grounds." Ile had had gastric ferer two years
ago: he had not been able to eat any solid food for over a trel month. In October, 1856, the pains in the epigastrium very much month. In so much so that he was almost afraid to take anything In December he was seized with most violent vomiting, which lasted almost without intermission for three weeks, the romited matter consisting of mucus, froth, and "coffee-grounds," and a substance which he described as being like green paint.
The pain continued to increase until his admission iuto the hospital, but the vomiting had nearly ceased, only occurring occasionally, and during his stay in the hospital before the operation there were no "coffee-grounds" present, the vomited matter consisting He had lost fles the food be had taken, mixed with a little mucus. that he begged to have something done to endeavour to relieve him. He at present suffered from great tenderness over the pylorus, and although there was no distinct tumour to be felt, yet on deep pressure there appeared to be a good deal of thickening, probably fibrous thickening, of the pylorus, possibly of a malignant character.

It was decided to perform laparotomy, with a view of making a more careful examination of the parts; accordingly, on February $6 \mathrm{th}, 1887$, the patient being placed under the influence of ether, I proceeded to open the abdomen by a median incision extending for about three inches between the ensiform cartilage and umbilicus. The stomach and omentum were discovered to be in their normal condition, but the pylorus appeared to me to be abnormally thickened, and, there being no other cause present to account for the violent pain and romiting, it was decided to proceed to perform gastro-enterostomy.

This was accomplished by pushing the omentum on one side and drawing out about four inches of the jejunum, at the same time withdrawing a portion of the stomach. These parts were supported all round by warm carbolised sponges. Two small apertures were made in the mesentery, close to the intestinal attachment, about three inches apart, and a piece of india-rubber tubing was passed through either opening and made to encircle the gat, thus preventing all circulation of the contents of the bowel. The loop of gut whe now laid unon the portion of the stomach to be opened, and a longitudinal fold of the latter, about an inch and a half from the great curvature, was pinched up between the finger and thumb of the left hand, together with a corresponding piece of the gut.
I now cut through the serous and muscular coats of both the stomach and gut, and, still holding the parts between my left finger and thumb, I united the posterior edges of the wound by a coutinuous suture, the suture passing through the two outer coats of the divided viscera. In this way the serous surfaces were closely united from end to end before either viscus was opened; this row of stitches was carried about a quarter of an inch beyond the incision in the coats of the bowel. Inext opened the stomach and intestine by dividing the mucous coat with scissors. All bleeding points were taken up and ligatured with fine catgut as divided. A small quantity of mucus and fluid escaped, which was caught in the sponges. After carefully cleunsing the cut surfaces, I proceeded, by means of interrupted sutures of fine silk, to unite the anterio edges of the opening, adopting the Czerny-Lembert stitch. The opening was now securely fastened, but to make it more secure l inserted another row of sutures outside the first, and about an eighth of an inch from it; this row of sutures was introducod with great care through the serous and muscular coats only.
"The parts were now dropped back into the wound, and the "toilet" of the peritoneum being complete, I closed the external wound, and replaced the patient into bed. The wound was dressed with iodoform wool.

The patient bore the operation fairly well, and passed a tolerably good night; there was very little retching, and he slept at intervals. Hium - the temperature deal of pant the next day in the epigasmata of peptonised beef-tea and brandy, and forty minims of liq. opil every four hours. Is he complained of a sharp pain in the epigastric region, a hypodermic injection of morpline was given. All went on well until the 10th, three days after the operation, when the patient complained of pain and a feeling of nausea, and slight tendermess on pressure over the wound.

February 10th. Wound dressed for the first time; union appeared to be complete; at midnight of this day he complained of great pain, was slightly confused when awake, and began to romit thick brown fluid of a most offensive odour; the romiting lasted until 5 A.m., and at interrals all the next day. Half a pint of warm water, with Condy's fluid, was administered by the mouth and retained. Brand's essence, a teaspoonful erery hour, was giren. The vomiting now ceased, but the patient got gradually Weaker, and died on the night of the 16 th , rather more than ten days after the operation.
The post-mortem examination revealed that the union betreen the stomach and jejunum was perfect. There was no peritonitiz, and no fluid had escaped from the junction of the intestine and stomach into the peritoneal carity, notrithstanding the violent retching lie had. The cut edges of the mucous membrane had quite united, and there was no other cause discoverable to account for the vomiting than the "kinking" of the gut, which caused all the biliary and pancreatic secretion to be pressed back into the There instead of passing by the natural channel.
There was a cicatrix of an old ulcer just at the pylorus, which was somewhat constricted and thickened, probably cicatricial stenosis, but there was no malignant disease. Possibls this was been practised with adrantage.
Case II. Case of Duodenostomy for Cancer of Pylorus. Death One Wonth after the Operation.- E. W., a married woman, aged cancer nor of phthisis in family; had had much domestic trouble. Patient was admitted into the Cancer Hospital on May 23rd, 1887. She had suffered considerable pain after eating since the birth of her last child nine months ago. During the lant three months period she had taken pills and aperients of different hing this quently: The bowels were never open more than once a meek. She vomited about half an hour after everything she took, food returning much as when swallowed; the vomit was very brown, and "all of a boil." Two weeks before admission it was of a very dark colour, like dark blood.

Present Condition.-The abdominal parietes are very atrophied, the movement of the intestines being quite plainly visible. The stomach is seen to be much distended, reaching nearly to Poupart's ligament. In the median line, occupying a position just above the umbilicus and slightly to the left, is a hard, nodular, freely movable growth, the size of a Tangerine orange, continuous with the dilated stomach. After a consultation with my colleagues, at the patient's urgent request that something might be done for her, it was determined to perform laparotomy with a riew of attempting to remore the diseased mass, and failing that, ither to perform gastro-enterostomy, jejunostomy, or duodenos tomy:
On June 4 th, the patient being placel under the intluence of ether, I proceeded to make an incision about three inches long midway between the umbilicus and xiphoid cartilage. All bleeding points were stopped by pressure-foroeps before opening the peritoneum; when this membrane was divided the mass of disease about the size of an orange presented itself in the wound. The mass was freely morable, aud had contracted no adhesion
whatever to surrounding parts. The disease extended about two inches along the lesser currature of the stomach. The mesenteric glands were found to be eularged, the lumbar glauds free, the liver Lealthy.

Owing to the rery exhausted condition of the patient on the table, and the state of the mesenteric glands, it was not deemed advisable to subject her to the major operation of pylorectomy, although it was scarcely conceivable to imagine a more suitable case so far as the disease was concerned. From the weight of the growth the attachments of the duodenum were much stretched co as to allow of the portion of gut just beyond the disease being easily drawn into the wound. This was done, and the duodenum
stitched to the parietes, the abdominal wound closed in the usual way, and the patient returned to bed.
The patient bore the operation very well and passed a good night.
June 5 th. The patient comfortable; complained of thirst ; to have small pieces of ice to suck; temperature normal ; pulse 96 ; to be fed entirely by peptonised beef tea enemata.
June 6th. Complained of slight pain over epigastrium ; abdomen soft and flaccid; no tenderness. Tongue moist and clean; temperature normal. The enemata had been administered in threeounce doses every four hours, and the urine drawn off every six hours. She slept fairly well during the night.
June 7 th. The handage was remored, the wound looked quite healthy, and as the howel seemer to be firmly attached to the parietes 1 made an opening into it with a teuotomy knife, large enough to admit a No. It cathcter. Three ounces of peptonised beef-tea were injected into the duodenum and retained; this was ordered to be repeated every six hours. Abdomen quite flat; no pain; temperature normal.

June 9th. Removed stitches from abdomimal wound; powdered starch ordered to be dusted over the abdomen around the opening into the gut.

The patient progressed favourably until the 13th, when the beef-tea returned through the wound shortly after being introduced, and there Tras a considerable flow of bile from the wound; tive grains of sodre carb. were now added to each injection of beef, and an ounce of port wine was ordered with each enema of beef-tea.

The patient's strength mas well maintained; the temperature continued normal, and she was free from pain, but complained of great thirst. As the skin around the mound was looking red and inflamed, I ordered a powder consisting of equal parts of acid. boracic. powdered starch, and oxide of zinc; the parts to be washed at each feeding with carbolised water.


Fig. 1, representing the jejunum united to the stomach on the anterior aspect, the dotted line showing how the kinking may take place.
On June 14th, instead of the ordinary peptonised beef-tea, I substitute zymin 3 ss ; with sodx carb. gr. $x$. in a powder to be added to each injection of beef-tea. This powder answered admirably. The remainder of the stitches were removed.
June 16 th. The patient vomited four porringersful of fermented nuid. This was eridently the collection of gruel, etc., she had been allowed to take the last few days. She was ordered to take nothing by the mouth in future. The stomach was washed out with a quantity of warm Condy's fluid and water, with much benefit. She aeemed somewhat easier after this, but the stomach was enormously dilated, and distinct auccussion was percoptible. The patient from this point gradually got weaker, and died on July 3rd, exactly one month after the operation.
Ilad this patient applied earlier, I have little doubt but what pylorectomy or gastro-enterostomy might have been practised uith every chance of success; but, as I have aaid, she was so exhausted that an operation involving any great atrain upon her strength would have been impossible. But there ia no doubt that the operation performed gave her considerable comfort during the

Remarks.-The first of thesc two cases illustrates well how successfully a gastro-intestinal fistula may be formed so far as the union of the stomach and jejunum are concerned. It also suggests a few not unimportant modifications that, in my opinion, might be with advantage adopted. The vomiting that followed the operation was undoubtedly due to kinking of the jejunum just beyond the seat of union with the stomach, preventing the passage of the gastric and pancreatic fluids, and bile. The operation as performed in this case was planned as is usual, so as to bring up a loop of the jejunum as near its origin as possible, and fastening it to the anterior wall of the stomach (Fig. 1). This, of necessity, causes a great risk of the gut doubling upon itself at its efferent end. Now it appears to me that it would be far better to fastern the gut to the posterior wall of the stomach (Fig. 2). This can be done in one of two ways merely by turning the great omentum and colon up and dividing the transverse mesocolon, and thus drawing a portion of tbe stomach through the opening, and fastening it to the jejunum close to its duodenal origin, or by dividing the gastro-colic omentum in front, and fastening the posterior wall of the stomach to the anterior portion of the last portion of the duodenum. That these two operations would be attended with slighily more difficulty than the operation at present adopted there can be no doubt; but the advantages to be derived are 80 obvious, that I think the extra trouble would be well repaid.

I would here draw attention to the practice of Dr. Senn, of Milwaukee. He has made numerous experiments on dogs, and adopted the following plan. Instead of stitching the stomach and intestine together, after the Czerny-Lembert method, which he justly says is most tedious, and prolongs the operation considerably, he provides himself with two plates of decalcified bone about two inches in length, an inch in width, and a quarter-of-an inch thick, with a longitudinal opening in the centre five-eighths of an inch long by one-sixth of an inch wide. Four perforations for the sutures are made near the margin of the oblong perfora-


Fig. 2, representing the jejunum united to the stomach on the ponterior aspect, the dotted line representing the union behind the stomnch.
tion, one at each end, and one at each side. The suturns are attached to these plates by threading two fine sewing needles each with a piece of aseptic ailk, twenty-four inches long, which are tied together. The threads are then fastened to the surface of the plate by another thread passing through the perforation in the shape of a loop, and fastened to the back.
The stomach being drawn forward into the wound, a longitudinal incision is made in the anterior surface, snd the perforated disc of bone introduced. The lateral sutures armed with needles are now passed through the entire thickness of the walla of the stomach, half way between the anglea of the wound. A similar incision ia now made into the intestine at the junction of the drodenum and jejunum. The second plate of bone is introduced, and the margins of the wound punctured by the lateral armed suturea when the tro wounds are brought vis a vis, and the corresponding sutures tied. The aerous surfaces of the stomach and intestine over an area corresponding to the size of the plates are then brought into accurate permanent contact by the tying of the sutures. The animals he operated upon recovered, notwithstanding they were allowed to eat immediately after the operation, and the diet was not selected or restricted.

That this method of operating has much to recommend it I think there can be no doubt, as the time occupied in the operation is reduced, according to Dr. Senn, to from fifteen to twenty minutes.
Surgeons in this country doubtless will decline to adopt this method of operating until such time as they have convinced themselves of its feasibility, as, in the first place, the method of passing the sutures through the whole of the coats of the stomach and intestine is directly opposed to all rules of intestinal surgery of the present day. Dr. Senn, however, illuatratea his paper with numerous cases in which he has operated in this manner successfully on dogs, under the most adverse circumstances; and, if his reports are to be relied upon, 1 gee no reason why similar operations should not be periormed upon the human subject.

These operations on the dead body are perfectly easy of performance, and the time occupied is not a tithe of that consumed in the ordinary operation. In any case I think the subject is well worthy the most careful consideration of surgeons who practise in this department.

## A CASE OF INTESTINAL OBSTRUCTION TREATED BY LAPAROTOMY: RECOVERY: REMARKS. ${ }^{1}$ <br> By lloward Marsil, F.R.C.S.,

Assistant-Surgeon to St. Bartholomew's Hospital, and Senior Surgeon to the Hospital for Sick Children.
Emma D., a housekeeper, aged 34, who had previously enjoyed good health, except for occasional dyspepsia, was suddenly attacked with intense abdominal pain immediately after an action of the bowels on the 8 th of last November. With great difticulty she crawled up to bed, and when seen, half an hour afterwards, by Dr. Qualtrough, of Upper Holloway, was atill complaining of very severe pain, persistent in character, but aggravated by frequently recurring paroxyams. There was neither tenderness nor distension of the abdomen. Pulse and temperature normal. Dr. Qualtrough gave her a hypodermic injection of morphine, and ordered her a hittle ice to suck, and a small quantity of milk and soda-water occasionally. Six hours later she vomited the half digested contents of the stomach. For the next four days, during which she was seen also by Dr. Keateven, ahe remained in much the same condition. Vomiting occurred $t$ wice or three times each day; there was no action of the bowels, but flatus was passed. She still complained of considerable griping pain, and there was fulness of the abdomen, with slight tympanites; the temperature was not raised, and the pulse remained under 90 . She presented no appearance of general illness, and said that, except for the pain, she felt well enough to be up. I first saw her on the 13 th, five days after the commencement of the attack. She then looked rather pinched and anxious, and was becoming weak; the temperature was normal, and the pulse 85. Sickness had occurred several times during the day, and was increasing in frequency; the bowels had not acted, but flatus was still passed; the abdomen was distinctly, but only moderately, tympanitic; it was tender on pressure in the neighbourhood of the umbilicus.

On the 14 th, after a consultation at which Mr. Thomas Smith, who had been previously sent for, was present, and who gave me his valuable assistance, 1 opened the abdomen in the middle line, below the umbilicus, and on following the small intestine-by tracing it onward from the distended loop which presented itself in the wound, and returning each three or four inches before another portion was drawn out of the wound-I came to a part that seemed fixed. lasing my finger along this, I could feel that a loop had slipped through a hole, apparently about threcquarters of an inch in tiameter, in the mesentery. The mesentery in this spot seemed of normal thickness and pliability, and the edge of the opening was so yielding that I could readily stretch it with my finger-nail sufficiently to allow the loop of intestine to be drawn out. The loop was somewhat congested, and the lines above and below, at which it had been constricted, could be distinctly seen, but evidently strangulation had been only partial. The abdominal cavity, which contained a considerable quantity of blood-stained serum, was thoroughly sponged out with weak

[^75]carbolic lotion ( 1 in 80 ), and the wound was closed with China silk sutures.
After the operation the patient was allowed nothing by the mouth but small fragments of ice, amounting in the first twentyfour houre to less than two ounces. She was fed by the rectum, and kept slightly under the influence of morphine by hypodermic injections. A soft enema tube was passed about aix inchea into the rectum, and retained there to facilitate the eacape of flatus. Twelve hours after the operation the pulse was 84, quiet and regular, and the temperature was $98.4^{\circ} \mathrm{F}$. The patient occaaionally ejected, without straining, a little bilious fluid. She was tranquil and free from pain.

November 14 th. Pulse and temperature normal, tongue clean and moist, no abdominal distension, flatus passed freely from the tube in the rectum ; no sickness. Diet: one teaspoonful of beeftea or peptonised milk alternatively, every hour, and a little ice to allay thirat.
November 15 th. A quiet hut almost sleepless night. General condition as yesterday, but she was wasting quickly, and complained of intense thirst. To take food in rather larger quantities every hour.

November l6th. Very restless, and in great general distress; very prostrate. Was now frequently aick, ejecting bile-stained fluid. Pulse 100 , temperature $101^{\circ}$. Itad passed a small green motion, with severe griping pain referred to the umbilicus. At 7 P.M. an enema of warm soap and water was given. This produced a large evacuation of green-coloured soft fæces. The result was remarkable. Before the enema vomiting was frequent, and the patient was so exhausted that her case seemed hopeless, and it was thought that she would not live through the night. Directly after the bowels had acted she fell asleep, and slept quietly and soundly for three hours, and the romiting entirely ceased.

November 17th. Abdomen distended. She complained of very severe griping pains, which made her grind her teeth. To be fell entirely by the rectum. A yellow eracuation was passed after an enema. She was very restless and thirsty.

Norember 19th. No romiting or abdominal pain. Delirious at night; trying to get out of bed. Pulse 125, weak and running. She was rery prostrate. To have two teaspoonfuls of beef-tea or milk every hour; rectal feeding to be continued. llypodermic injection of morphine (one-sisth ol' a grain) about twice a day:

November 2lst. llad a severe attack of retching and purging this afternoon. Was rery weak, yet she looked better. Copious herpetic eruption about the mouth; aphthe on the tongue. The wound had, with the distended condition of the abdomen, reopened to the width of an inch and a half, and a coil of small intestine covered with granulations was exposed. The abdominal wall to be well supported with atrapping and a bandage.
November 26th. Still very weak; frequent hiccough; much retching and diarrhea. Skin covered with a bright red, very irritating eruption; great emaciation; tongue dry ; pulse 180 .

November 30th. Too weak to more in bed; hiccough continued; considerable distension of the abdomen; pulse 150 ; temperature $98^{\circ}$.

December 2nd. Much better; tongue moist; passed solid motions; retched only occasionally. Wound slowly closing; distension subsiding.

From this time she gradually recovered. By January 10 th she was taking usual diet; the bowels acted naturally; the wound was nearly healed, and she was steadily gaining flesh and strength. She is now quite well.

Remarks.- No clearer indication could be given of the progress of abdominal surgery than the doubt that at first presents itself, whether this case contains anything that qualifies it for publication. Numerous examples of completely successful operations, involving much more extensive interference with the intestines, have been reported; and thus, in some respects, this instance is commonplace. Yet I belicre it should be recorded. Iu the first place, it is an example of recovery after laparotomy for internal stranguletion. In this aspect it is now happily far from unique. Yet the list of such cases is much less extensive than it ought to be, and the instances in which a fatal result follows mechanical ohstruction are much more numerous than they are destined to bscome when sufficient evidence has been collected to persuade those who still hesitate ( $a$ ) that when symptoms which clearly point to the existence of mechanical obatruction are present, it is as iccumbent on the surgeon to open the aludomen as it is to operate when there is reason to believe that au external hernia is strangu-
lated: (b) that the opration must be performed early : (c) that the risk which the opration involves is so comparatively small that it camot he justitlably urged us a ground for delay.

Secondy, the case is of value hecause it illustrates and emphaaises the fact that symptoms which till recently have been aseribed to peritonitis often depend on what may be called "secomdary obstruction"-that is, on obstruction lue to the paralysed condition of the gut at the point of injury: The recognition of this fact constitutes one of the most important advances that have lately been mule in respect to cases of intemal strangulation.
The mole of onset of the attack, and the symptoms observed in the first two or three dny:s of the patient's illness, were of doubtful interpretation. The sudden onset of serere pain that followed the action of the bowels and the derelopment of sickness were strongly suggestive of mechanical obstruction, but their meaning was obscured by the fact that flatus was freely passed, and that there was scarcely any distension or tympanites. Evidently if obstruction was present it was not complete. Another feature that increased the uncertainty of the case was that the patient, for the first two or three days, had the appearance of being in almost her usual health.
These apparently conllicting symptoms were explained and reconciled at the operation. There had been little distension, but persistent sickness, because the obstruction was in the small in-testine-I think it was as high as the middle of the jejunum. The patient dial not look pinched or collapsed, and flatus was still passed, because the opening through which the gut had slipped was placed in the mesentery, where that structure was too thin and membranous to produce complete obstruction, or ereu at first to cause any serions injury to the intestinal wall. But in the course of three or four days the contimuance of sickness, the fact that no frees were passed, the appearance of distinct though still mollerate tympanites, and the gradually increasing distress of the patient forced the conclusion that mechanical obstruction must be present.
The operation itself was easily performed, as there was only slight distension of the intestine. It is now well understood that the state of the intestiue in this respeet is one of the most important points in regard to laparotomy for ohstrnction. Distension adds greatly to the difficulty of every stage of the operation. So far is this the case that in any instance of obstruction the amount of ympanites must always be taken fully into account. Few recoveries take place when it is considerable, and in any case in which operative interference is contemplated the increase of tympanites ought to be regardel as a warning against further delay.

I hare had several opportunities of testing the value of searching for the obstruction, not by introducing the liand, but by taking the loors that first presents in the wound, and tracing it onward by drawing out three or four inches for examination and then returning them, so that no more than sir inches are ever out of the wound at the same time. In this way the intestine may be traced upwards towards the duodenum, or downtards towarls the ileum, till the obstruction is reached, with very little delay, and with nn rlanger if the manipulation is gentle. If, having traed the gut up to the duodenum or down to the ileum-for he cannot tell with ecertainty in which direction he is travelling-he lias frumd no olstruction, the operator must trace his way in the opposite, lifection, taking, however, very great care that he does not Irop the loop and so break the continuity of his examination.

To relieve her as snon as possible from the discomfort and dangur of gascous distension, 1 a vailed myself of the practice recommendel by ovariotomists, of raising the patient's shoulders, so that she could the more casily expel llatus from the mouth: and I alan introduced a soft tube nbout six inches into the rectum. Throngh this, for some hours, flatus continued to escape, to the grat eomfort of the patient. Both these expedients for remoring gas from the intestinal canal should, I think, be adopted in cases of this kinl.
The farourable manner in which she bore the operation was remarkable. When 1 saw her, about six hours afterwards, her pulse was $8 t$, hor temperatur. was normal, and she showed lut small traces either of the operation, or of her previous illness.

The return of sickness on the third day after the operation, and the manmer in which it was trented, dearere careful observation. It wens dne, I think there can bo no furstion, to the fact that the piece of intustine that had been partially strangulated was still paralysmi, so that the fiecal material that was passed into it from above lodged, and so renewed the obstruction. It then became n question whether the intestine would recorer its peristaltic
action, and so orercome the obstruction, or whether the obstmetion would persist till death occurred from romiting and exhaustion. It was when the patient's life was thus in the balance that the enema was given, in the hope that it might be the means-by unloading the lower bowel, redncing distension, and indirectly stimulating the flaccid piece of intestine into action-of restorin": the patency of the canal. Fortunately this result was attained, and all the symptoms of olstruction disappeared, and diel not return. When sickness, coupled as it is so likely to be, with increasing distension, returns in cases of this kind, three courses present themselves: 1. To give an enema; $\stackrel{2}{ }$, to give an aperient by the mouth; 3, to fasten a distended loop of simall intestine to the edges of the abdominal wound and open it. In the present instance the enema secured all that was required, and put an entirely new aspect on the case. Mr. Lawson Tait and others have shown the excellent result that may follow the use of apprients in intestinal distension following some cases of abdominal section, not directly involring the intestine. Aperients, howerer, must obviously be used with very great caution when obstruction depends on paralysis of the intestine after strangulation, for the condition of the gut at the seat of injury must be a matter of doubt, and the action of an aperient might be followed by perforation. To open the small intestine in the abdominal mound is a step that will avert death in some cases, and the damaged condition of the gut at the point of strangulation and the necessity for immediate relief from obstruction may fully justify its adoption. But it has some serious drawbacks. The patient is generally so exhausted that an anasthetic, and the sickness which it may provole, the reopening of the wound, and the necessary disturbance and exposure are each a source of danger. And chere is also the highly important question whether, in the exhausted conlition of the patient, and in the presence 'of vomiting, should this continue, safe union will take place between the intestine and the abdominal wall, so that there shall be no escape of faces into the peritoneal cavity. There is the further point that we are unable to say what part of the intestine will present at the wound, and, therefore, that te eannot be sure that the opening may not be so high up as sérionsly to interfere with genernl nutrition. Which of the three alternatives should be adopted must depend on the circumstances of each case; but there is reason to hope that the timely use of an enema, when the symptoms of olistruction return after laparotomy, will often liave a valuable effect-at least, it shopuld be tried before anything more serious is undertaken.

When, in consequence of the weakly condition of the patient, the distension of the abdomen, and the retraction of the edges of the round, the latter reopened, a coil of the small intestine was exposed over an area of nearly six inches in length by two in width. But no lurm followed, for the peritomem covering the gut had become united with that lining the abdominal wall, and the peritoneal envity was safely shut off, in two othrr cases I have nuet with the sume condition, In both, as in this instance, the wound gradually closed, and no intestinal protrusion occurred.
It was apparent at one time that the patient. was suffering severely from the want of food. She wasted rapidly, complained of intense thirst, and was so prostrate that she could not jnowe even her legs without assistance; her pulse was weak and thready, her face deeply wrinkled, her eyes dull, and her conjnnetive congested. But the danger in this direction had to be incurred, for when she was allowed food by the mouth sickness at once returned, and would havo been quickly fatal to her. Thes inability to take fond by the mouth persisted till the ninth day after the operation.

## JEJUNAL, ENTERECTOMY FOR THE CLOSURE

 OF AN ARTIFICIAL ANUS OF EIGITTEEN MONTHS' STANDING: RECOVERI:By THOM,AS SINCLA1R, M.D., F.R.C.S.Fivg., Professor of Surgery in Queen's College, Belfast.

Therfa appears to be less hesitation in alopting the relatively scvere measure of resection of the bowel in the treatment of almormal intestinal openings than prevailed some time agn. Doulthess somn of these conditions yield to simpler plans, sueh as pad and handage, plastic operations of various kinds, the use of enterotome clamps and the like, bit we hare too
many opportunities of proving their inadequacy, not 'to mention the positive risks attending the employment of some of these means, particularly those last alluded to. Moreover, the anatomical relations are not so uniform in a series of cases as to adnit of a routine treatment, some inviting the clamp method, others, without a pronounced éperon, contra-indicating resort to it. Frequently also plastic operations, involving transplantations, are attempted under circumstances that offer little or no prospect of success. The following case is illustrative of some of these points, enterectomy being resorted to after failure of the pad and bandage and plaster plans to effect a closure.
The sulbject was a farm labourer, aged 60 years, who stated that eighteen montbs prior to his admission to the Royal Hospital, Belfast he had been acutely ill for some days with a groin swelling. The swelling burst; something hack escaped, after which the intestinal contents issued freely. Evidently there had been sloughing of a femoral hernia of the right side at this date. Shortly thereafter, according to the patient, the opening showed an inclination to close under the treatment of his previous medical adrisers, but latterly had become much larger in spite of this treatment. A considerable quantity of the clyme now flowed from it, more especially when be was not recumbent. Being high up in the alimentary canal this resulted in the loss of much flesh and strength. As it was growing rapidly worse, and as he was quite unfit for work, he was anxious to have some operation done for its cure. Although a moderate amount of freces passed by the normal channel, an examination of the parts was unfarourable to the adoption of the milder measures. A plastic operation was impracticable, from the rery dense cicatricial puckering extending widely around the opening, so dense that the spermatic cord and Poupart's ligament could not he felt in it. A large projection from the anterior lip of the proximal bowel, which could not be repressed, offered another obstacle. Dupuytren's plan by the enterotome clamp was unsuitable, from the want of a safe spur, the flexion of the bowel being only moderately acute. Simple en:erorrhaphy, after liberation of the coil from its parietal adhesions ind paring of the edges of the opening, suggested itself; but the pening involved more than two-thirds of the circumference of :he gut, hence enterorrlaphy would have nearly obliterated the umen of the gut. Enterectomy remained as the only open course.
Rest in bed for more than a week, with a castor-oil purge every hird day, an enema on the evening before and another on the norning of the operation formed the preparatory course. A three and a lalf inch incision through the artificial anus along Poupart's ligameut, with a circular dissection gradually deepened :ound the opening, was the first step. The spermatic cord was lisentangled with much difficulty from the hard cicatricial mass, jut the deep epigastric artery was so engaged in it, and so much $n$ the way, that it was double-ligatured and divided. Poupart's igament and the deep crural arch were also cut before the intesine could be liberated from its intimate connection with these jarts. This separation of the howel, conducted with a vierv to njure it as little as possible, was tecious, bloody, and difficult. Jrawing the coil out upon the thiglh, the abdominal wound was jlugged with aseptic sponges, and the remoral of the segment of lowel proceeded with on the lines recommended by Sir William
Hac Cormac in his masterly oration on Abdominal Section for the Creatment of intra-peritoneal Injury. The intestine was clamped bore and below with pieces of drainage-tube held by Wells's orceps, a simple plan which answered rery well. Scissors were 1sed for the section, the bowel being cut obliquely to its axis, so is to remove three inches from the concavity, and four and a half rom the convexity. This oblique section inrolved the ligature If ten arteries in the edge of the section. The mesentery was livided close to the gut hy successive snips, ten arteries requiring igatures were tied, and the ellges of the mesentery, none of Which was cut away. were stitched together.' Next, two fine ititches on either side were so introduced as to exclude the hearest uncut terminal arteries, into the sides of the mesenteric rinngle near its base, in order to bring them together, and cover is far as possible that part of the gut uncorered ly peritoneum. $3 y$ this means two of the three most important intestinal stitches recame capable of insertion by Lembert's method; only the eutral one was a muscular cont suture merely, and this was nuch buried ly its two immediate neighbours, turning the serous :oat well inwards at a point where otherwise this is difficult to eccomplislı. Two dozen Lembert's stitches were introduced in ne row, at intervals of two lines, no stitch being tightened till
all were passed. Ordinary cambric needles were used, and fine carlolised silk for all sutures and ligatures. The edges of the pucker in the mesentery, now folded and redundant, were brought together by a few points of suture, the more efficiently to support the intestinal sntures at this critical spot. Exerything laving been well hushed with warm boric lotion, the coil was reduced, and the parietal wound closed as far as practicable by silver sutures, a drainage-tube being left in its superficial part, but not reaching into the aldominal cavity. Iodoform, salicylic wool, and an elastic roller completed the dressing.
The operation occupied upwards of two hours, and the ether ras so managed that one ounce sutticed for the whole operation. llaving regard to the fact that the enterectomy involved a portion of the jejunum, which, from the great number and depth of the valvula conniventes was judged to be a portion situated bigh up in this part of the alimentary cana!, the after-treatment was carried out with much caution. Opinm, to the extent of fifteen minims of the tincture thrice in the twenty-four hours, was given to minimise peristalsis and intestinal secretion for the first eight days. At no time was it pushed so far as to affect the pupils. Indeed there was no other indication for its employment but that alluded to.
Anything likely to escape complete digestion in the stomach and to excite pancreatic and intestinal activity was withheld as long as possible. Even simple fluids were given in sips, and thirst attended to chiefly by tepid water injections into the rectum. The only things giren by the mouth for the tirst eight days were sips of water, kali water with spirits, and tea without milk. During this time four nutrient enemata, consisting of four ounces of pracreatised milk with two spoonfuls of Brand's essence, were administered on each of the first three days. For the next four days pancreatised beef-tea and pancreatised milk enemata, six to eight ounces each, were given alternately, four during each day. For two more days rectal feeding, in the form of predigested beff suppositories, was continued; but plenty of milk-whey and tea were now giren by the mouth, and some lemon juice. On the tentli day after a spontaneous action of the bowels, pancreatised beef-tea and milk were giren by the mouth, and rectal alimentation was abandoned. On the following two days, toast, butter, fish, milk, and heef-tea were allowed, and after the fourteenth ordinary meals. Hatus had passed per anum freely from the second day forward, and on the tenth the howels acted of themselves, an event which synchronised with the only febrile temperature ( $100.4^{\circ} \mathrm{F}$.) recorded throughout.
The dressings were remored for the first time on the sixth day, when the incision was found united by first intention, and the silver sutures and drain-tube were withdrawn. The central portion, corresponding to the artificial anus, the edges of which had been refreshed at the operation, subsequently granulated, and was closed before the end of the month. On account of the dense contraction here it was not possible to expedite this closure by suture or plastic operation. The patient rose upon the twentysecond and was disclarged on the twenty-eighth day, the parietal wound having closed and the howels having regained their natural function.
Mr. A. E. J. Barker, in a ver) interesting communication to the Jourval of March 17 th upou Laparotomy for Penetrating Gunshot Wound of the Aldomen, has shown by the post-mortem examination of one of his cases treated by enterectomy that six days suffice for sound union between the ends of the gut. Possibly a shorter abstinence from food by the mouth than ten days in the present instance would, in the light of this observation, hare been sufficient: but the adequacy of rectal alimentation was so pronounced that hunger was not complained of by the patient during this interval. Though quite willing to feed him by the mouth at the end of the first week, it appeared judicious to wait a few days. until either some urgency on the patient's part or some change in lis general condition demanded more thoroughgoiug uourishnent. Mr. Greig-Smith justly remarks in his work upon Abdominal Surgery, "under the lest form of rectal alimentation yet derised the patient steadily loses ground." Nerertheless one could not have observed the after-course of this case without admitting that the value of rectal feeding was considerable. The patient certainly lost flesh, but the healthy behaviour of the wound and comparative freedom from hunger attested the ralue of predigested nutrient enemata.
The other notewortly features in this instance are: the sufficiency of a single row of Lembert's sutures of silk, and the treatment of the mesentery. No triangular segment of mesentery was
exciser, and much care was taken to narrow the apace between its layers, where it joins the intestine, so as to secure as perfect coaptation of the serous layers at this spot as possible.

## CLINICAL MEMORANDA.

F゙UGITVE 10DISM: (EいEMA OF EYELIDS.
W. J. H., aged 30, on May Thi complained of frontal neuralgic headache, which had varied in intensity during the preceding ten days. He could not bring to mind having had headache belore, but had been, during several years, incomenienced by an irritable catarrhal condition of his fauces and naso-pharynx. llaring upplied a chlaroform preparation of aconite roat with a camel hair pencil horizontally to the forehead from side to side, a full inch ubove the eyebrows, 1 prescribed as lollows:-18 Liq. ferri iodidi, $z^{\mathrm{ij}} ;$ aq., $\overline{3} \mathrm{vj} ; \xi \mathrm{j}$ ter. Soon ufter the second dose the patient felt a gevere cold had come upon him quite suddenly-sneezing, a very copious and steady flow of watery fluid from the left nostril, sufficient to saturate two handkerchiefa. This ceased in one hour as abruptly as it lad occurred. Coincident with its cessation a pulliness of the eyelids on the corresponding side ensued; this increased, and on retiring the patient's lids were completely closed. He slept well, and the morning following his eye presented the appearsnce of having been stung by an insect, as described by Dr. Tom Robinson. The left eyelids, both upper and lower, were equally tumid with a somi-transparent rosy fulness, which the patient said was less than on retiring the night before. There was neither subconjunctival cedema nor any discharge from between the lids. The conjunctiva presented a diffuse pinkness. Over both checks, but nowhere else on the body, was an urticarial erythema, fainter on the left than on the right cheek. He felt well; his headache had gone. On May IOth, the phenomena had completely vanished.

Remanks.-Here is seen a person with a decided catarrhal dyscrasia suddenly attacked with fugitive cedema of the eyelids sequent upon a free catarrhal outpour from the nasal micous membrane. So far, the symptoms being limited strictly to the one side lends weight to the idea that an extension of the same catarrhal process into the neighbouring loose connective tiasue, though this was not related by immediace continuity, had occurred. Another view may be taken; that the transient oedema of the lids was associated with an impediment in the course of the efferent lymphatic circulation occasioned by the turgidity of the nasal mucous membrane.

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## EXCESSIVE THIRST A SYMIPTOM OF MALIGNANT DISEASE.

Is a care of malignant disease which came under my care lately, certain symptoms were present which seemed rather difficult of explanation, and may I think be considered unusual. The case was briefly as follows. About three months before her death I was called to see a woman, aged about 50 , who had been suffering from dyspeptic symptoms for about hive months previously. At this time she complained of pain, nausea, vomiting, and other symptoms of gastric derangement. A tumour was to be felt in the epigastric and right hypochondriac regiona, evidently involving the liver and intestimes. The case ran a rapid course. About three weeks before death, the most extraordinary thirst came on which nothing could appease. It used to come on in paroxysms, and although her friends tried to keep too much flud from her, she would clutch wildly at any vessel, and pray for more. Her husband used to say to me, "ller thirst is terrible, surely there must be some great heat in her." I may say that what she drank used almost all to come back again. Constipation, which was troublesome all along, became absolite for the last ten days, evidently from pressure of the tumour on the gut. There was no incrense in urinary secretion or febrile symptoms.

Hrecon.
W. R. Jice, M.B.Dub.

## SURGICAL MEMORANDA.

O.N THF: TREATMENTT OF SEBACEOUS TUMOURS.

Many people, the subjects of congenital sebaceoua tumours and "wens," object to having them removed, on the score that the remedy is worse than the disease, and the after-consequences may

The following is the method I have adopted in such cases, and with marked success. With a eataract knife (Gratle's) puncture the cyst, und gently squeeze out the contents; then introduce a very small piece of nitrate of silver. On the following day, by means of a pair of forceps, the capsule of the cyst can be withdrawn, just like the shell of a bean, without any portion heing left udherent. In no case has there ever been any return of the growth or any ill effects.

The method, il tried, will be found to have many advantages apart lrom its simplicity and thoronghess.

Rotherham.
T. Murnss Robentson, M.D. Wilin.

## PERICIIONDRITIS OK TIIE LARYNX: TRACHEOTONY: RECOVERY.

The following particulars of a case which occurred in my practice eight years ago may be of some practical interest at the present time.
R. W., aged 39, pointsman on a railway, consulted me for a troublesome hearse cough, attended witli difficulty in breathing. He had all the symptoms of a severe attack of laryngeal catarri, and was treated by poultices and counter-irritation, together with the usual remedies and inhalations. The case continued to get worse, the difficulty of breathing increased, and the patient could only articulate in a whisper. On laryngoscopic examination of the larynx, it was found red, swollen, and ulcerated. There was alse thickening and tenderness externally. He was now put on large doses of perchloride of mercury, with iodide of potassium and cinchona, at the same time keeping the patient in a warm atmosphere, inhalations being continued. The patient still continued to get werse, and Dr., now sir Walter Foster ssw the patient in consultation with me; he advised the continuance of the treatment, but to be in readiness to perform tracheotomy should the symptoms of dyspncer incrense. The patient got worse, and on the following morning st 5 s.m., I found him so bad, and suffocation impending, that 1 immediately, with the aid of my then assistant, Mr. Welch, opened the trachea and inserted the tube. The result was immediate relief of the patient's suffering; from being cyanosed he recovered full power of breathing, and became calm und nstural in colour. I kept him in a warn atmosplere, with hot sponges constantly applied over the orifice of the tube, and continued the medicinal treatment as before.
The case went on well, the cough gradually lessened, the thickening of the larynx and ulceration subsided. Later on a piece of exfoliated csrtilage was coughed up and the expectoration daily diminished, and st the end of one month from the operation, I deemed it advisable to make an attempt to do without the tube. 1 first experimented by removing it for a fer licurs, keeping him under close observation the whole time; finding ho seemed no worse, I continued to let him remain without it, and at the expiration of a month frem the removal of the cannula, the external wound had hesled, and the patient continued to breathe quite freely.
The patient is still alive and has had no return of the disease, and but for some fecbleness of voice is quite well.
Remarks. - The success of this case appeared to me to be due to the remeval of the cannuls at the time when the larynx had so far recovered as to enable the patient to bresthe fairly well without it, as the presence of it, acting as a foreign body, seemed to set up some irritstion in the trachea, causing exuberant granulations to appear around the orifice of the wound.

F'raneis Hollinshead, M.R.C.S.Eng., and L.S.A.Lond.
Selly Oak, neur Birmingham.

## URTICARIA DIFFUSA VEL FEBRLLIS UCUURIRJN AETER ovaRRUTOAIV.

Some time ago 1 removed a smull ovarian tumenr from a joung lady, aged 28 . The operation was a very simple one, and the wound healed rapidly, all the sutures being remered by the seventh day, and the "pulse and temperature being both normsl by that date. Late on the follewing night I received un urgent message saying "t that my patient had been taken with vomiting, and was complaining of pain in the back, headache, and sore throat. The temperature had gone up to 101, and the pulse to 120, and a red rash had come out over her face and chest." When I arrived at the loouse I found the patient in a state of great excitement owing to the nurse in her fright having said something about acarlatina. Her face was flushed, and her neck, shoulders, and body were covered with a bright red rash. She complained
of awelling and soreness in her throat, and of burning and itching of the skin. Her temperature was over $102^{\circ}$, and the pulse 130. The bowela had acted well, and there was no scantiness of urine. She had not eaten fish or meat, hut was still on light diet. In fact there was nothing to account for the attack except that she had on that day heard of the sudden illness of her mother, an old lady of 65 years. The vomiting, pains in the back, sore throat, headache, high temperature, and quick pulse rather alarmed me it first, but the suddenness of the attack and breaking out of the :ash, together with the burning and itching of the skin and the state of the tongue, led me at once to diagnose urticaria diffusa. 1 gave her a dose of white mixture, and ordered 20 grains of sodæ icarb. every two hours, and a lotion of the same, $\overline{3}$ ss. ad $\bar{J} j$, to illay the itching. 1 attempted to reassure her, but she was so ervous and excited about her condition, refusing to believe it was other than scarlatina, that I had to give her a full hypolermic injection of morphine in order to quiet her. By the next norning the rash had left the body, but was still visible on the imbs, and within twenly-four hours it had quite disappeared, and he pulse and temperature became normal. The rash was not ollowed by desquamation.
I take it that this form of urticaria, attended with a diffuse ash instead of the usual distinct wheals, is uncommon, and aight, witb such symptoms as were met with in this case, be asily mistaken for scarlatina at first sight. So far as I could udge, this attack was not brought on by any error of diet, and I hould be inclined to attribute it to some disturbance of the ervous system.
A. C. Butler-Smythe, F.R.C.S.Ed.

Brook Strcet, IT

# REPORTS 

OF

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

## NORTIIAMPTON GENERAL INFIRMARY

NEURYSM OF THE INNOMINATE ARTERY: SIMCLTANEOUS LIGA-
TURE OF RIGHT SUBCLAVIAN AND CAROTID ARTERIES:
ARREST OF THE DLSEASE.
(Under the care of Mr. Percival.)
[From ?notes kindly supplied by Mr. Andland and Mr. Weatherly.]
F., aged 43, a charwoman, married, was admitted on July $24 t h$, 387, under the care of Mr. Percival. Her family history presented thing of importance, except that her mother, grandmother, and le sister had died of phthisis. She seems to have been healthy nll rlife, her only illusshaving here an attack of typhoid fever when
hard akin. There is a pulsating tumour just above the right sternoclavicular joint, and bulging to the tracheal side of the sternomastoid. It projects upwards ahout an inch above the clavicle, and is about an inch across; its lower limit cannot be defined. It is distinctly pulsatile, lateral expansion being well marked; is only slightly tender to the touch; the akin over it is not reddened. nor is there any sign of inflamanation. The patient complains of a good deal of pain in it at times; her rest is much disturbed, and there is occasionally a certain amount of dyspncea at night. The roice is distinctly affected, the patient being only able to speak in a husky whisper. It is difficult to get a good view of the glottis, but the false cords are swollen, and there is some paralysis of the right rocal cord. The pulse differs greatly on the two sides of the hody, as shown by the sphygmographic tracings given below.

Thre is a loud rough bruit heard in the tumour and over the upper part of the sternum. The patient complains of difficulty of swallowing, and has lately been subject to severe headaches, which are increasing in intensity. No signs of old sypbilis cas be detected. She was placer on a very limited diet, and 20 grains of iodide of potassium in infusion of gentian given three times daily. An ice-bag was also applied to the swelling, but caused such pain that it was discontinued after the first day. She was kept strictly in bed, and perfect quiet enjoined. This treatment was continued till September 25 th, when the patient was heartily sick of it, and anxious for something else to be done. The tumour had meanwhile considerably increased, probably to double its size on admission: the pulsations in it were very strong; there was more pain and dyspnoea, and the voice had sunk to quite a low whisper: the nights were very sleepless, and some prominence of the eyehalls was noticed about this time. On this date, therefore, the patient being placed under ether, Mr. Percival first tied the subcla vian in the third part of its course, and then the common carotid; the only noticeable feature in the operation being the difficulty of finding the carotid artery, which was pushed so much outwards hy the aneurysm that it was almost at the outer border of the sternomastoid muscle. Both arteries were tied with chromicised catgut ligatures, and both ends of the ligatures were cut short; a small drainage-tube was inserted in each wound, silk sutures applied, and the wounds dressed with iodoform powder and Gamgee tissue. The right arm was enveloped in cotton-wool, also the right side of the neck and head. Twelve hours after operation, the patient was very comfortable, complaining only of slight pain in the head, and some numbness and tingling in the right arm, which was, however, quite warm. After this she went on remarkably well. On the third day the dressinge were removed. and the wounds found to be healed by primary union, except where the drainage-tubes had been inserted; these were now removed, and in two more days the wonnds were quite healed and gare no more trouble. There was no pulsation in the temperal or radial arteries. She took her food well, and the mumbess in the right arm gradually disapprarerl.


Years old. She has two danghters alive and well, and has had sites three children, one born dead, another which dim of some vere skin eruption which sle describes as small-pnx (syohilis?!. d anothor whim, nilv livout three wewks. She tirst noticed the

Getoher 10th. The patient hat been kept quite quiet in bed: the tumonr was certainly smaller and tirmer, lut with still much pulsation in it and a loud bruit: the voice, dyspnoea, and other symptoms harl alen imbrowed.
mour two years ago. and it had been slowly increasing in siz. ace then. The patient s a very thin woman, with a tery dry

October inth. Though the patient had been cunstantly hept quiet in bed, the tumour seemed to hare increased slightly, and the
roice was ugain wenker. She was, therefore, put on a lower scale of diet, and 10 grains of iodide of potassium, with 20 drops of tincture of digitalis, given three times a day:
November $\overline{7}$ th. The digitalis was increased to ois minims.
November loth. The digitalis had eaused such faintness, without exercising any appreciable effect on the tumour, that it was discontinued, and the following mixture sulistituted: l'ot. iod. gr. xxx, vin. antimonialis m xr, tinct. opii mis, dec. sarza co. $\underset{J}{\mathrm{Z}}$ i, three times a day:

December 21 st. The iodide and antimony had had a marked effect in lowering the force of the circulation; the pulse in the left wrist was verysmall and weak-in fact, perceptible with difficulty: the tumour was smaller again, and felt harder and firmer, lut there was still much pulsation in it, and also bruit. Shortly after this date all medicines were discontinued, and the patient was allowed gradually to get upa little more each day without any harm resulting to the swelling ; and on Janumy - 1 st, at her urgent request, was allowed to co home, the tumour being about the size of a lantam's egg, and distinctly pulsatile, but feeling considerably tirmer.
April 20 th, 1889. The patient presented herself for examination. The tumour was still the size of a bantam's egg, but much tirmer; distinct bruit over it, traceable up the right side of neck, but nowhere else; no right brachial or radial pulse ; no right temporal pulse. Sight good, and equal; ne deafness. Heart's apex heat in fifth interspace, in line drawn rertically through the nipple; "xtent of heart's duhess increased; no lruits; heart-sounds clear; vice quite good and strong; still some slight laryngeal cough at 1 imes. No difficulty of swallowing, and much less headache. The right arm was slightly smaller than the left, and felt weaker after working some little time. The patient aaid she felt quite well and strong, and had been doing all her house work and washing. She was anxious to continue her occupation as a charwoman, bint was advised not to do too much hard work again-an admonition to which she will probably pay little attention.

Remarks.-Though an absolute cure cannot he claimed for this case, it still, in my opinion, deserves to be put on record, on account of the complete arrest of all dangerous symptoms. It is now seven months since the operation; the patient has for three months resumed all her active duties, not only without causing any increase in the tumour, hut with such comfort that she is anxious to get back to her ordinary hard nad laborious occupaion. The only medicine that seemed to do good was antimony ; this was continued for several weeks until the pulse was most ilistinctly affected, and it seems to me to have largely contributed to the good result in this case wheu the tumour began again to increase after the operation.

## GILARING CRUSS HOSPITAL.

subperiosteal hemoval of half of lower jaw; recovery, with almost entire restoration of thf bone
aND PERFECT MASticatory movement.

## (Under the care of Mr Bellamy.)

[From notes by Mr. G. Goldney.]
Florence, W., aged 6, was admitted on damuary 21st, 1887, with "xtensive neerosis of the left half of the lower jaw. She had already been operatell upon, and excision of the entire bone from he outsile adviserl by a hospital surgion. This the mother would not consent to ; and she was placed under Mr. Bellamys care.

On animission, the child liad a most marked strumons aspect, the Inft site of the face being enormonsly swollen, the swelling extending over the temporal region. There was a sinus just in front of the cxternal muditory meatus and ono below the angle of tho jaw.
On Jannary 30th Mr. Dellamy colarged the opening in the superior simus, and removed the condyle, ramus, and angle, and "pened up the remains of the sinus just nuter the angle. The periosteum was free and loose and retained the original form of the bone in a most remarkable manner.

February 1st. The discharge was profuso and very offensive, although the carity had been drained antiseptically. On the 7th the swelling hegin to decrease, and the discharge was quite healthy: On the 14tha small spicula of bone was found loose and remberd from near the symphysis.

The chill made an uninterrupted recorery, with the exception of some slight paralysis of the orbiculares palpebre and oris.

Seen on April 24th, 18t8. The two sides of tho faco are nearly equal in size; there is a smatl cicatrix behind the angle ol the jaw; and on manipulation the new jaw feels somewhat sodulated, no doubt soon to mould itself into proper form. The articuiution seems to be perfect, and the movements of the jaw as free as yossible. In fact, there is no deformity at all. The teeth behind the first bicuspid have gone.

## REPORTS OF SOCIETIES.

## CLINICAL SOCIETY OF LONDON. <br> Friday, May 2otr, 1888.

W. H. Broadment, M.D., F.R.C.P., President, in the Chair.

Conclusions of the Myradema Committee.-Dr. Ond, ns the Chairman of the Myxadema Committee, read the following conclusions. IIe admitted that the time taken up in the investigation was protracted, but he claimed that when the results were known the time would not appear ont of proportion. 1. That myxadema is a well defined disease. 2. That the disease affects women much more frequently than men, and that the subjects are, for the most part, of middle age. 3. Tbat clinical and patlological obseryations respectively indicate, in a decisive way, that the oue condition, common to all cases, is destructive clange of the thyroid gland. 4. That the most common form of destructive change of the thyroid gland consists in the substitution of a delicate fibrous tissue for the proper glandular structure. 5. That interstitial development of fibrous tissue is also ohserved very frequently in the skin, and with much less frequency in the viscera, the appearances presented ly this tissue being suggestive of an irritative or inflammatory process. 6. That pathological observation, while showing cause for the changes in the skin during life, for the falling off of the hair and the loss of the teeth, for the increased bulk of the body as due to the excess of subcutaneous fat, affiords no explanation of the affections of speech, morement, sensation, consciousness, and intellect, which form a large part of the symptoms of the disease. 7 . That chemical examination of the comparatively few a vailable cases fails to show the general existence of an excess of nucin in the tissues allequately corresponding to the amount recorded in the first olservations, but that this discrepancy may be in part attributed to the fact that tumefaction of the integuments, althongh gencrally characteristic of myxedema, varies considerably throughout thie course of the disease, and often disappears shortly before death. 8. That in experiments made upon animals, particularly on monleys, symptems resembling, in a rery close and remarkalle way; those of myxedema have followed complete removal of the thy'roid gland, performed under antiseptic precautions, and with, as far as could be ascertained, no injury to the adjacent nerses, or to the tracliea. 9. That, in such experimental casse, a
large excess of mucin has heen found to be present in the large excess of mucin has leen found to be present in the
skin, fibrous tissues, blood, and salivary glands; in parskicular the parotid gland, normally containing no mucin, has presented that substance in quantitics corresponding to what would he ordinarily fonud in the submaxillary glanil.
10. That the full analysis of the results of the removil of the 10. That the full analysis of the results of the remoral of the thyroid gland in man demoustrates, in an important proportion of the cases, the fact of the subsequent development of symptoms exactly corresponding with those of myxedema. 11. That, in no inconsiderable number of cases, the operation has not hect fnllowed by such symptoms, the apparent immunity being in many eases probably due to the presence and sulsequent development of accessory thyroid glands, or to accidentally incomplete removal, or to insufficiently long ohservation of the patients after operation. 12. That wherens injury to the trachea, atrophy of the trachea, iajury of the recurrent laryngeal nerves, injury of the cervical sympathetic, and endemic influences have luch, by varinus oliservers, supposed to be the true causes of experimental
or or of operative myxoedema (cachexia strumipriva), there is, in the first place, no eridence to show that, of the numerous and various surgical operations performed on the neck and throat, involving various organs and tissues, none, save those in which the thyroil gland has been removel, hare been followed by the symptoms under consideration ; that in many of the operations on men, and in most, if not all, of the experimental operations done ly I'roTessor IIorsley on monkeys and other animals, the procedure avoided all injury of surrounding parts, and was perfectly
aseptic; that myxodema has followed removal of the thyroid gland in persons neither living in, nor having lived in, localities the seat of endemic cretinism; that, therefore, the positive evidenee on this point outweighs vastly the nergative, and that it appears strongly proved that myxoedema is frequently produced by the removal, as well as by the pathological destruetion, of the thyroid gland. 13. That whereas, aceording to Clause 2, in myscedemu women are muth more numerously affected than men, in the operative form of myxedema no important differeuce of the same kind is observed. 14. That a general review of symptoms aud pathology leads to the belief that the disease described under the name of myxcedema, as observed in adults, is practically the same discase as that named sporadic cretinism, when affeeting children; that myxoedema is probably identieal with cachexia strumipriva; and that a very close afinity exists between myx cedema and endemie cretinism. 15. That while these several conditions appear, in the main, to depend on, or to be associated with, destruction or loss of the funetion of the thyroid gland, the ultimate cause of sncl destruction or loss is at present not erident. The President congratulated the Society on the completion of this inportant investigation, and said their thanks were due to the Committee for the enormons work and the zeal and ability which had enabled them to present this summary of the report, and praetically the report itself, during the present session. When they heard the conelusions and imagined the enormous amount of inyestigation and research and inquiry which was embodied therein, four years seemed a comparatively short period for the completion of such a labour. The report would make the present session memorable. It reflected the greatest possible credit upon the Soeiety. It was the most important work yet carried out in its name. Already the labours of the Committee had served to stimulate the carrying out of similar investigations in Germany, where men had been first convinced of the reality of the disease from the labours of the Society and its Committee. He thought the members could hardly thank sufficiently the authors of the report, in which it appeared that the only person not heard of was Dr. Ord, the chairman and director of the investigation. His name, nevertheless, would for all time be associated with the literature of the disease.

Two Fatal Cases of Acute Intussusception occurring in Infants, aged 3 and 4 months respectively. - Mr. R. W. PaREER related particulars of these cases. IIe drew ehief attention to the uncertain onset, and to the absence of symptoms indicative of acute strangulation, suel as the post-mortem examination proved in these cases to have existed. The pain was not excessive and was short in duration; vomiting oeeurred only during the first twelve hours, and only after taking the breast; in neither case was much bloodstained mucus discharged from the rectum; and there was never any straining or tenesmus. Constipation was the most important feature. The author argued that the absence of some of the most classical symptoms, or their rery slight prominence, was a bad rather than a good sign, especially so in cases where an intussusception was, from other indications, known to exist. Thus, if the gut were tightly strangulated it would quiekly become gangrenous, and therefore painless, and as the circulation through the gut would be arrested nothing could pass from it or through it, hence constipation, as well as an absence of blood and mucus. The difficulty of satisfactorily treating sueh cases was dwelt on. -Dr. Fordice Barifer (New York), in response to an appeal from the President, expressed his sense of the compliment, and said that he had seen quite a number of these cases. In early stages of the malaly he would inject glycerine in smal! quantities, such as one or two drachme, with equal quantities of water, until toleration was establishel; and then continne such injections until quite a large amount was used. He thought that surgery diul not seem to offer much chance of curing the con-dition.-Mr. Marrison Cruprs remarked that there was not complete absence of blood-stained mucus, as dwelt upou by Mr. Parker, in his ease, though it was present only in small quantities. As to treatment, he was glad that MIr. Parker had called attention to the clanger of injecting water, exeept in an early stage. ITe had had a similar aecident limself, and had since quite aty careful as the lhe amount of pressure employed, excep $1, ~ T h e ~ p a t i e n t ~ w a s ~ a ~ g i r l, ~$
wis minths ofl, with symptoms whieh had lastel four or dive days. The intussuscepted bowel was felt two inches from the anns. Water was gently injected, and the bowel receded; the hend was then inverted, and more water used. The cluld became faint, romited, and in'two or three minutes died. At the post-mortem examina-
tion the strangulated lowel reached to within five inches of the anus. There was a rent of considerable size just below it, and water and oil were found in the peritoneal cavity. The injection had been made very gently with a IIigginson's syringe. Another interesting case which eame under his notice was that of a child 7 months old with a history of a fortnight's illness, with romiting and what the mother called diarrhoa. but which turned out to be the passage of the charaeteristic blood-stained mucus. The symptoms, however, had passed off during the two days just before the child was seen, and the mother had only brought the child along on account of something "sticking out of his bnek passage." On examination, something that looked like part of a red herring was seen projecting, on gently drawing out which it was seen to lead to What looked like a healthy intestine. Mr. Cripps contented himself with eutting off the slough, and admitted the child under Mr. Baker. The child remained in the hospital for about a month, during which time erery day the house-surgeon removed a piece more of this extruded slough. Ultimately the eliild left perfectly well, but died of scarlet ferer eight months later, when a post-mortem examination was made, the specimen being now in the hospital museum. The most extraordinary condition of things was found, the small intestine being found directly attaehed to the anus. There was no traee of ascending, transterse, or descending colon, nor reetum, which must have come away as a slough. This case showed what Nature would sometinies do if she was only given a clance. Early in these cases he adrised a trial of injections or laparotomy and the unravelling of the intussusception. Later, where there was mnch vomiting, he recommended Nélator's operation, the opening of the most prominent coil of intestine through the abdominal wall. Large quantities of freculent matter would pass by the new opening, whilst Nature might be able to remove the invaginated borel, and possibly leave the intestine patulous. -The President remarked that no member had spoken of the use of gaseous instead of liquid injections.-Mr. Pabker, in
reply reply, said that, should another opportunity occur, he should remember Dr. Fordyce Barker's suggested plan of treatment. The curred at discharge was very slight in his case, and only oeonly when the finger was introduced into the rectum. In Mr. A. E. Barker's case, which was to have been read there that eveuing, the thmour was felt from the front of the abdomen. Early treatment he thought should consist of enemata of water, which was possibly better than air, as one could easily caleulate the quantity of water which was injeeted.
Rupture of Intestine ucithout External Mound.-Mr. Merbert Page deserihed two such cases. He said that the interest attaching to the paper by Mr. Mayo Robson and the diseussion upon it ou February 10th had led him to contribute two cases in which laparotomy was fully considered; moreover, one of them exempufied a point to which no reference was made on that evening. Case I was that of a man aged 50 , over whose right iliae region a eab had passed on the morning of April 5th, and who was admitted into St. Mary's Hospital the following day in great pain and with very marked collapse. Rupture of intestine was diagnosed, but the amount of collapse seemed entirely to forbil laparotomy. There was no improvement during the day, and he died the next morning, forty-four hours after the accident. At rupture of the small bowel was found four feet and a half above the ileo-crecal valre; and, in aldition to some smaller contusions in the crecum and neighbonring ileum and muel mesenteric extrarasation, there was a knuckle of deeply-congested gut an ineh and a half in length. It was thought that, eren if laparotomy could have been done soou after the aecident, when diagnosis probably could not hare heen at all sure, and the ruptured portion a been satisfaetorily dealt with, this other pieee of brilised intestine could hardly have been left alone. The danger of learing it-namely, of secondary perforation from slougling-was by no means imaginary, as was showu by the history of the second case, that of a lad aged 18, who was butted in the belly-left iliac region-while at play with sume other boys IIe instantly had inteusest pain, anid when admitted to St. Marys, sixteen hours afterwards, on July ${ }^{2}$ Ith, gave a history of incessant vomiting since the aecident. There were external signs of severe contusion, and markel erilences of local peritonitis to which his symptons were regarded as due, but there whs nothing specially suggestive of perforation, or of the need for opening the abdomen. Opium was nccordingly given, and during the next three days there was undoubtedly improvement. On the night of the 30 th , however, there was sudden and alarming col-

Iapse. He rallied from this, and for three days seemed doing well ngain, but on August 3rd collapse returned. From this there was no deciled rally, and he died on August 6th. Necropsy revealed extensive hypogastrie peritonitis, and offeusivo pus in the left ilise fossa, where the blow had beensustained. A perforation was found in the small intestine, in the centre of a deeply congested sodden portion. This opening lad thiekened edges, and was surrounded with lymph. It was beliered that this perforation occurred only on the fifth day after the accident, as the result of the sloughing of a portion of severely contused gut, and the author pointed out that had laparotomy been doue when the lad tirst came to the hospital, no more difficult question could well have presented itself than that of determining whether this contused piece ought or onglit not to have been respeted. In neither of the cases was it thought that the chances of successful laparotomy were anything but the very poorest, but yet, as inparotomy alone gave a hope of life, it was, perhaps, right to operate, even though gravity of symptoms and uncertainty in diagnosis seemed to forhid it. It must be rare to meet with cases of abdominal injuries where there was no complication of any kind, or in which a simple rupture in one place was the ouly lesion, and these were considerations to be borne in mind when laparotomy was undertaken or entertained.Mr. Croet read the notes of $n$ similar case in a man, aged 34 , admitted on March 16th, 1857, having been injured in a row seventemn hours before. On admission his temperature was $103^{\circ}$. He at onee cut down, and found three different lesions: a ruptured ilcum, a lacerated mesentery, and a perforated omentum. The peritoneum was irrigated wilh a warm solution of horacic acid. An artificial anus was made, but it was found necessary to close this. On the second operation, on April 4th. the laceration was sutured, the operation taking two bours and a quarter, and the man heing very prostrate. The man died thirteen hours sfter the operation from sheer exhaustion. INe considered the ease to be a crucial one in the history of intestinal surgery, as showing that resection of the howel might he safely undertaken eren when acute septic peritonitis had been set up. He strongly adrocated early* exploratory lapsrotomy, with resection if necessary. In cases of doubt an exploratory incision should always be made. He would divide the cases into three classes: 1 , those in which laparotomy was done for exploratory purposes; : those done later, where tne diagnosis was already established; ; 3 , those later still, in which septic peritonitis had occurred. Everything was in favour of exploratory laparotomy, as atated in an able paper by Dr. Chavasse. If the abdomen were opened with all precautions, the patient was afterwaris no worse off than before, even if no lesion of intestine were found, whilst, if a distinet laceration of the bowel hid occurred, then was the time to operate. He thonght
the establishment of an artificial anus was not so sucessful ns the establishment of an artificial anus was not so successful as resection of the injured intestine and immediate elosure of the external wound. In his own ease he had followed the advice of several eminent metropolitan surgeons. The operation saved the man's life at the time: but in consequence of the malnut rition resulting from the ton early escape nf partially digested food lie eould not he ar the tedious second operation of resection of the bowel. Had the resuction heen done nt first he helieved the life would have been anvel. When the ease was knewn to be nne of ruptured intest ine the surceon should promptly decide in favour of resection. The peritonitis alrady establisherl might be therehy abolished by the antisefptic method of operation.
Ciase of Stone in which Lithotomy was Ierformed Twice within Tur, Months- Dr. Want Cousins (Snuthsea) descrihed the case. and aricl that it suggested the puruly local character of some urinary formations. The patient, aged 40, a fish dealer, was admitted into the Roval Portsmouth llospital in January, 1882. There was un Inmily history of gout, rheumatisin, or urinary trouble. He had suffered thirteen years from renal und vesical symptoms, and had coustantly passed small stones and gravel; altogether he had diserharged over half a pint. Hes had hen a great. sufferer, and during the nine monthis hefore his admission he had been contined on lech. The urine was extremely offensive, nand loaded with muenopus, It nften containet hlool and small clots. The left loin was extremely tender and painful, and he had had many attacks of orchitis in tha sames side. OII sounding there was no ring or thut, but the hladder was filled with an imnovable mass. Two nunces and a quarter of atinking coneretion of the consistence of fre:h mortar were remnved hy lateral lithotomy. He left the hospital well in a month. Three wreks later he returned with a stone andgerl in the neak of the liladder. After many failures tn
seize it with long foreeps, and other $L$.fforts to return it into the
hladder, so that it could be crushed met hladder, so that it could be crushod, mer dian lithotomy was yer-
formed. IIe. was again diseharged, appar forently well, in thiree weeks. During the past six years he hapa ferently well, in three and had daily carried on his business. The inh ine wed had heenf frcquently examined. It still contained a trace of e muco-pus and
 Irom 1.3 to 1.7 per cent. Since the operations he had new ver passed any gravel or particle of stone. Ile was in good lieatth er on May 20th, 1888. The dried concretion removed from the bladds, on May hrst operation, and also the urethral ealculus extracted , $r$ at the secoudoperation, were exhibited. Dr. Consins then remarked th, at the history of the case, the symptoms, aud the persistent discharg et of small coneretions elearly indicated that the patient was the s afject of chronic calculous pyelitis, and that part of the remalal gravel passed along the urinary passages and escaped through $t_{1}$ aha urethrs, while another portion was trapped in the bladder.
the time of the operation the calculous mass presented throughoust $t$ a'uniform appearance. In consistency it resembled fresh mortar, ${ }^{\text {an }}$ and there were no traces within it of concentric deposition. An $\left.\right|_{T} /$ analysis of the symptoms suggested tho presence of a compound renal and vesical disease, although the most urgent manifestations pointed clearly to disorder of the bladder. A group of renal symptoms, radiating from the left groin, were present throughout the illness, but these were in a measure overlapped by the characteristic signs of bladder trouble. The composition of the urine, however, and the continuous discharge of small concretions. rendered the existence of chronic pyelitis or nephro-pyelitis clesrly evident. With reference to the treatment, the dangerous and prostrate condition of the patient suggested an immertiate effort to clear out the bladder, and to establish continuous drainage. The presence of a foreign body of some kind was certain from the examination ; at the same time, the absence of nyy click or thud, the roughness of the surface, and the immobility of the mass, rendered it probable that some complication would hsre to be encountered. The lateral ineision was selected for the purpose of obtaining a thorough exploration of the bladder. The operation insured a free and incontinent escape of urine with complete rest for the diseased orgau. sad removed st once all painful micturition and straining. It permitted, moreover, the effectual drainage and washing out of the diseased vesical cavity. The cystotomy had a very beneficial influence over the whole urinary track, as the discharge of all the renal products was secureil directly after their formation. The second lithotomy was done to relieve the acute sufferings of the patient after many failures to remove the calculus through the urethra, or to return it into the hadder, so that it could be seized with a lithotrite. During the: last six years the patient had enjoyed good health. The olld vesical symptnms had never recurred, and he had never passed a particle of calculous matter. Still the cure was not actually complete. The urine contained a few pus cells mixed with cpithelinm shed from some part of the lining membrane of the urinary passages. Onght the case to be regarded in the light of a local trouble, and all its manifestations the outcome of a chronic calculous pyrlitis? Or, on the other hand, must it be considered as a constitutional disease? The subjects of urinary concretions were generally deseribed as lahouring under some sort of diathetif tendency. Sometimes the existence of a special diathesis was nuly a conjecture, and pathological processes limited to the urinary track itself were quite suflcient to explain the precip,itation and concretion of the ordinary constituents of the urine. The dis:order in this case probally broke nut in the pelvis of one kidney by the occurrence of a pyelitis. Then followed the deposition of the urie acid in the solid form. At the samo time the inflummatory clementa themselves served as points of deposit for then formations. The canse of the pyelitis was ohscure, antl whaterer morbid forces might. have lefn artive during its initial stagres, when nuer it was estahlished it could be fairly regardecl as the chiff factor in the production of the renal gravel and small emicretions. With a concentrated condition of the urine, a persistemt obstruction to its diseharge, and the presence of muro-purulemt secretion, oome of the exciting causes were present which temberl towards the deposit of falculons matter. wit hout anabnormal inerentser in the excretion of uric acid.-Dr. Onf thought the consilleration of the case very important, and suggested that a coumittee slomld report upon it.-Dr. Maritire referred to Sir W. Roherts's rosearches upon the matter.-The 1'residest nominated Dr. Ord, Dr. Magnire, and Dr. Farrnd, with Dr. Ward Cousins, as a com-
mittee to report upon the case, and expressed the hope that the :eport might be concluded in time to permit of its publication with Or. Cousins's case in the forthcoming volume of the Society's Transactions.
The session then terminated.

## harveian society of london. <br> Thursday, May $17 \mathrm{th}, 1888$.

War. Sedewick, M.R.C.S., President, in the Chair.
Value of Antiseptic Precautions in Internal Urethrotomy.-Mr. Bruce Clariee drew attention to the fact that though this operaion had been advocated for many years in certain cases of stric:ure, which did not yield readily to dilatation, yet it had never Jeen generally accepted by surgeons. This was due partly to the act that its results were not supposed to be good, and partly to he dangers of the operation itself. As to its results, it was of ten irged that the worst strictures were always those in which irethrotomy had been performed. Of course, this was perfectly rue, but it would be fairer to state that it was only the worst :trictures that were submitted to urethrotomy. If strictures were neglected after the operation they of course recurred, and ihis gave a certain currency to the idea that it was the internal urethrotomy that bad made them relapse. The dangers of the ,peration itself were, he maintained, dependent on septic fever; and it depended either on self-infection from a septic urethra or on dirty instruments. The latter source of infection could be tasily guarded against by the thorough cleansing of instrumeuts ind catheters, whilst the purification of the urethra was no easy natter. To effect this, however, as far as possible, the urethra ihould be irrigated with sublimate 1 in 2,000 for several days reforehand, and when the stricture had been divided, the bladder thould be washed out with a similar solution, and then with hot water at a temperature of $105^{\circ} \mathrm{F}$. After this a eatheter should se tied in for twenty-four hours. By this means the urine came iery little into contact with the urethra, and septic infection was troided. Fifteen eases were related in which the plan had been tried y the author, and he alluded to some others in which he bad sugjested the plan toothersurgeons. The results were very suecessful.Ifr. Swinford Edwards said that in the last six internal urehrotomies which he had performed he had not only earried out he suggestions laid down by Mr. Bruce Clarke in his paper, but aad administered beracic acid in ten-grain doses three times a lay for two days before the operation, and for a few days subsefuently, with a view of sterilising the urine, as suggested by Dr. Palmer in the American Medical Practitioner and News, August, 1887. In none of these cases did urinary fever supervene; but Jrilliant as was internal urethrotomy, he believed that the time was soon coming when it would be almost, if not entirely, supplanted by electrolysis for strictures in the deep or fixed urethra, which were unfitted for the simple treatment of dilatation.-The President speke in favour of corrosive sublimate as an antiseptic; out he regarded the prolonged suppression of urine and the other severe symptoms which lad followed the operation in the case reerred to early in the paper as more due to shock than to blood-poisoning.-Mr. Buckston Bnowse was interested in finding that in advocate of electrolysis in the treatment of urethral stricture till practised the operation of internal urethrotomy. He should like to know why electrolysis was not employed in the cases just detailed. IIe had practised internal urethrotomy now for fifteen years, and had never lost a case; he therefore knew nothing of septicamia as following the operation. He took great care to insure the utmost eleanliness of all instruments employed. He entirely dissented from Mr. Clarke's view that urethral fever was of septic origin, and maintained that the most perfect antiseptieism would never do away with urinary fever in certain eases, after urethral operations, hecause the fever was caused by uretliral bock or irritation acting reflexly through the nervous system upon the excretory renal apparatus.

## EPIDENIOLOGICAL SOCIETY OF LONDON: Wednksday, May 9th, 1888.

R. Thorne Thorne, M.B., President, in the Chair Age, Sex, and Season in Relation to Scarlet Fever.-Dr. WhiteLegoe read a paper in which he said that a detailed analysis of upwards of 6,000 notified cases showed that the liability to scarlet lever was slight in infaney, reached its maximum in the fourth or fifth year, and diminislied every year afterwards. The severity
of attack, however, was greatest in the first two years of age, and lessened year by year throughout childhood and adolescence : in adult life there was apparently a slight increase again, the reality of which was open to doubt. Females were more liable to attack than males at all ages after infancy, and notably between 20 and 35 years, when the charge of children gave special facilities for infection; but the attacks in males, though less numerous, wert more severe, and the death-rate was consequently ligher among males in childhood. The scarlet fever death-rate reached its maximum in the third year of life in both sexes. Forty-two per cent. of the cases and 65 per cent. of the deaths oceurred in the first five years of life; 40 and 26 per cent. respectively in the second quinquennium, and $11 \frac{1}{2}$ and 5 per cent. in the third. The advantage of postponing an attack was twofold; each yenr of age beyond the fifth diminished the susceptibility to attack, and each year of postponement lessened the average severity of attach if it should occur. Probably about two-thirds of the adult population had escaped attack altogether. As regarded season, the maximum of cases and of deaths occurred in October, and the minimum in April. It was probable that a scanty rainfall was favourable to the spread of disease. Besides the annual or seasonal curre, it was pessible to construct a weekly curve, showing the number of attacks upon each day of the week. The result of this experiment in regard to 1,100 cases in Nottingham was to indicate a markel reduction in the number of attacks on Wednesdays, presumably due to less facility for infection on Sundays. Diphtheria and enteric fever were now known to be affected by other influences besides the accident of exposure to contact with previously infected persons. Scarlet fever had many points of resemblance to these two diseases, notably in its seasonal curve, and in this and other respects was in strong contrast to the typically infectious diseases such as small-pox, wheoping-eough, and mensles. Ont exceptional mode of infection in scarlet fever had been brought to light by Mr. Power's Hendon inquiry, but was probably not of frequent occurrence. Infection from a previous case was the obvious explanation of many cases of human scarlet fever, and might be true of all, or nearly all; but it could not be the whole truth. Some further explanation was needed to account for the well-marked seasonal and other pariations in the prevalence of the disense.-In the discussion which follored, the President. Dr. Murray, Dr. Lawson, Dr. McKellar, Dr. E. C. Seaton, and Mr. Betterfield, took part.

## SOUTH INDJAN BRAN゙CH.

Friday, Febrcary 3md, 1888.
Deputy Surgeon-General S. B. Roe, M.B., C.B., Vice-l'resident, in the Chair.
Traumatic Pleuropneumonia.-A case of pleuropneumonia following an accident to the chest was reported by Surgeon-Major E. F. Drake-Brockiman. The wheel of a dog-cart passed over the jower part of the right chest, and, though there was considerable pain in that side, with depression of the shoulder, and a painful catch on deep inspiration. no evidence of fracture of the ribs could be obtained. The patient had a sharp attack of pleuropneumonia, but recorered. Mr. Drake-Brockran commented on the rarity of the occurrence of internal injury to the lung and pleura by an accident which did not eause any damage to the external structures or ribs.-Surgeon-Major Mackinwos stated that inflammation of luag frequently occurred in prize-fighters after pugilistic encounters, even when no external marks of violence were present, the eause being probably traumatic-SurgeonMajor Bananfoot mentioned a case he liad seen in which no injury to any of the ribs was detected after a most eareful examination during life, but at the post-mortem examination one rib was found fractured, and pleural effusion had also taken place.-Brigade-Surgeon Sibthonpe had alse met with a case in whicl it was impossible to detect fractured ribs during life.

Subperitoneal Uterine Fibroid. - Surgeon-\lajor Branfoot showed a specimen of subperitoneal fibroid tumour of the nterus. whieh had become the seat of primary cancerous deposit. The patient was a Hindu, aged 50. The growth was adherent at its upper and posterior part to the intestines, with a small abscescavity betreen the coils of the intestiue and the left Fallopian tube and left ovary. There was much thickening also at this spot, with soft cancerous growth invading the mesenteric glands. The lumbar and left axillary glands were also much enlarged by secondary growth.

Mgeetuma.-Surgeon F. Clarence Smina exhibited a patient
who was suffering from fungus disease of the right hand and right axillary region. The disease had existed in the palm of the right hand for probably about five years, but he had been able to do agricultural work until two years before admission, when he fell off the top of a hut six feet high, the palm of his right hand at the time of the fall striking the earth, eausing twe days' pain; this gave a still grenter increase to the size of the hand; and the flingers, which were until then unaffected, also swelled. At the sane time the pain shot up the inner side of the arm to the axilla, where in a few days small nodular growths appeared. After detailing the condition of the sinnses in the axilla and palm which existed when the patient was shown, Mr. Clarence Smith observed that he had been able to discover only one other recorded case in which the disease clearly seemed to have been spread by the lymphatics to the glands above the seat of the disease, and pointed out that implication of the axillary glands immediately followed a blow on the affected hand. He had not found any previous record of a case in which the axillary glands were affeeted. The other case in which glands above the seat of the disease were affected was that reeorded by Mr. D. Dymott (Indian Med. Gaz., 1881); in that ease the glands of the groin were diseased.

## ROYAL ACADEMY OFEMEDICINE IN IRELAND. Section of Scrgery.

## Friday, April 13tif, 1888.

## A. H. Corlet, M.D., President, in the Chair.

On Suprapubic Lithotomy and Vesical Suture.-Mr. Kendal Franiss read a paper on this subject. The dangers of former methods were septic infection, urinary infiltration, and injury to the peritoneum. These were met by antisepsis, suture of the bladder, and by a combination of vesical with rectal distension. He then referred to the case of a man, aged 65, who had suffered from stone in the bladder for two years. He was a tall, large, heavy man, with a deep. perinenm and a large prostate, and on account of these conditions the suprapubic operation was performed on May 10th, 1887, the rectum and bladder having been both distended. The distance of the prevesical fold of peritoneum from the pubes was three inches. Three stones were extracted of nearly equal size, shape, and weight, withont any facets, and weighing in all 66 gi grains. The bladder was sutured-first, by Lembert's method, with eatgut, and theu a seeond row of sutures, continuous, were inserted so as completely to corer in the first row. The external wound was drained from the prevesieal space to the upper angle of the woind, and the bladder was drained with $n$ soft rubher catheter, passed per urethram, which was kept in situ for five days. The bladder wound healed by first intention, and at no time was there any leakage of arine through the wound. The patient passed water without the aid of a eatheter on the twelfth day and subsequently. The drainage-tule was retained in the wound until the tenth day, and Mr. Franks explained that this was done to prevent any mischief being done shauld the bladder sutures not hold. He recommended that the drainage-tube should always be retained in the external wound for at least seven days, as statistics showed that the resical suture might yield as late as the sixth day. The patient was out of bed and walking about the wards on the fourteenth day. The caleuli were uric acid, and mensured $11_{1}{ }^{\prime \prime} \times 11^{\prime \prime}, 13^{\prime \prime} \times 13^{\prime \prime}$, and $13^{\prime \prime} \times 11_{15}{ }^{\prime \prime}$ respectively. Mr. Franks showed that the objections to the vesienl suture were more theoretical than real, and that when it succeeded it attained the ideal in suprapubic cystatomy. Statisties showed that up to 1886 it had been performed fifty-six times, and lad succeeded in serenteen cases, being a percentage of 32 per cent. Since 1886 a few cases only had been publishicd. The eauses of failure in suturing of the bladder in the high operation were-(1) an anatomical one, that the external cont of the bladder in this region was fibrous, and not serons; ( $(2)^{2}$ ) a thinned nnd diseased condition of the bladder walls; (3) injury to the edges of the wound by the manipulations employed to extract the stone; ( 4 ) a putrid condition of the urine. The advantages of suture were a shortened convalescence, ten days being on an average gained, and an effectual preventive against urinary infiltration.
Suprapubic Lithotomy.-Mr. F. Alcock Nixon read notes of the ease of a gentleman, giged 81, whe had, fifty-seven years before, suffered from "bleeding from the bladder and a stappage of water." The bleeding oecurred nt intervals every five or six years for lifty years. The bladder was opened above the pubes, and two calculi were removed, one weighing 2 ozs. $30 \frac{1}{2}$ grs., the other
$150 \frac{2}{2}$ grs. Théy were composed of the ammoniaco-magnesian and caleium phosphates. The bladder was sutured and drained, a tube was placed in tho abdominal wound, and a catheter retained in the bladder. The temperature, which was $101^{\circ} \mathrm{F}$, hecame normal on the evening of the third day; tho urine became acid: the patient was quite free from paiu, able to take food well and enjoy long periods of sleep. On the fifth day he died suddenly from syncepe, from which he previously suffered on several oceasions. After death the wound in the bladder was found to be healed, except abont half an inch in the centre, from which urine had escaped through the abdominal wound for a slort time on the second day, while the catheter was plugged with a blood-clot. There was no trace of peritonitis or of cellulitis.

Vesical Tumour removed by Suprapubic Cystotomy.-In the unaveidable absence of Dr. Hecston; this paper was read by Dr. Alfred Scotr. The patient, aged 48 , suffered for four years from symptems of vesical irritation, accompanied at gradually decreasing intervals by hemorrhage of an arterial character, which for the later five months came freely at each period of micturition in a considerable quantity: A tumoir was diagnosed by sounding, situated on the right side of the bladder, in addition to which a roughened condition of the bladder threughout was notiecd The presence of the large tumeur was also demonstrated by rectal examination. The bladder being now washed out, a portion of the tumour came away, which was proved by Dr. Alfred Scott to be papillomatous in its nature. On March 15th, 1888, the bladder was opened by the usual snprapubic method, and a tumour somaewhat larger than an orange, cemposed of three lobules, attached to the right wall of the bladder by narrow pedicles, was removed, as were also a number of smaller growths about the size of hazelnuts. The hremerrhage, which was very capious, was at once controlled by a solution of tannic and gallic acids, subsequeut to which the bladder was illuminated by the electric light, and then a stream of a wenk solntion of hazeline was passed into the bladder until it returned clear. The hladder was now closed, except sufficiently to allow of the introduction of a drainnge-tabe care being taken to elose the areolar spaces in connection with the bladder-wound. Subsequent to operation the patient progressed favourably for twelve days, the urime becoming normal in its character; but then the temperature suddenly rose to 104.2 F . the patient became delirious, and, althougle the temperature was subdued by quinine within twenty-four liours, the patient gradually sank and died sixteen days after operation. Dr. Bewley pathologist to the Adelaide llospital, performed a post-mortem examination, and found that there was no peritonitis, the bladder being firmly united to the abdominal mrietes atjthe seat of the wound, which was healthy. The bladder was contraeted the anterior wall normal: the posterior thickened and cutting hard. In the centre of this surface a space about the size of half-a-erown, was covered with white floecnli of seemingly gangrenous tissue; this was the seat of thercmoved papilloma. The spleen and kidneys were healthy, there being no evidence ot septic infection.Mr. W. Thorntey Stoker said that Mr. Franks had not referred to what was attracting a good deal of discussion in conneetion with suprapubic lithotemy; namely, the class of cases in which that operation should be selected. As far as any rule harl yet been established on the subjeet it was this, that suprapubie lithotomy was to be performed in the adult in cases where the stone was too large to admit of its probably successful removal by perineal operation; that is, where the stone exceeded two ouncis in weight, or where, because of its hardness or the great size of the prostate, there was not a likelihood that lithotrity would be successful. Another question was as regards its perfermance in children. The suprapubic operation ought to be selected in al cases of stone in the bladder in eliildren where lithotrity could not be performed, as it did not endanger the child's procrentivi apparatus. There was a remarkable difference in the mortality of children on whom the operation was performed on the Continent as compared with those at home. While the mortality on the Continent was over 20 per cent., it appeared from Sir William Mac Cormac's paper that up to March last there had been 33 case operated on in England without one death. Among adults, the mortality follewing the opcration would be found to be about the same as that in the lateral operation for lithotomy - 20 or 22 to 30 per cent. But in Dublin the mortality in perineal operations bid not been so high. The suprapubic operation was one that had not as yet arrived at perfection, because, like many ather operations, it was undergoing development since the introduction of antiseptics, and ho looked forward to the time when the mor-
tality of from 20 to 30 per cent. would be materially diminished. -Mr. Tobin suggested, with reference to the different expedients of obtaining room to make an incision, holding the patient's legs aloft. He had tried the experiment on a subject in the post-mortems room. Ilaving half filled the bladder, he measured the amount of space uncovered by the peritoneum, while the subject was lying flat on the table. He then raised the subject, holding the legs aloft, and on measuring again be found he had double the space with the subject in the raised position that he had when prone.-After some remarks by Mr. J. H. Scort, Mr. 31'Ardie said that on the successful suturing of the bladder uprapubic lithotomy would greatly depend; and hence be called ittention to a method which contra-indicated double suture as sually applied-namely, what was styled by Brenner "lace iuture." After separating the mucous from the muscular coat, a hread was passed round the wound in the bladder through the ubmucosa, two or three millimètres from the wound-border. A ecoud thread was next passed through the muscular layer, three a three and a half millimetres from the wound-border, going ound the wound iu the same way, being further from the wound .t its angle. The sutures were then drawn and tied in the order if introduction, so that all the walls of the bladder were collected nto a dense mass at the point of the opening. In experiments on logs it was found that the bladder thus closed withstood much igher fluid pressure than after button or ordinary double suture. Ie did not advocate this suture where the bladder wall was iormal, since the usual double suture had succeeded in all cases arourable for its application; but when the bladder-wall was hinned or softened he would expect from the lace suture the est results. Brenner, its originator, claimed for it, among other dvantages, that the bladder became functionally active immeiately, and the catheter need not be retained; that the wound urface was very small, and healed quickly; and that the scar was hick and solid, and that only two small threads were left in the round.-Deputy Surgeon-General Jornt did not think that a case ad been made out for suprapubic lithotomy to displace the lateral peration, with which he had heen familiar in India, where he ad operated in not less than one hundred cases. Out of that umber he could only recollect one fatal case, and whether that ras due to the operation or not he could not now say. He could nderstand, however, that the suprapubic operation would be an cceptable one in women, there being a good deal of trouble in perating on them. He had had cases in which he removed stones ne inch and a half in circumference from young girls by dilataon of the urethra, aided by incision.-Dr. CHANCE inquired what reasure of distension was advisable, having regard to the fact rat exploration was sometimes followed by a sharp attack of eritonitis.-Mr. Thomson was glad to hear Deputy Surgeoneneral Joynt, whose great experience in India carried ithority, say a word in favour of lateral lithotomy. ith regard to removing big stones by the supraubic operation, another operation was being practised now India very successfully, in which there was no cutting at all imely, an operation introduced by two distinguished graduates Irish Universities-Surgeon-Major Keegan and Surgeon-Major reyer. The results they had had from the crushing of stone aite eclipsed any from the cutting operations, and they were not sterred by the number of stones in the bladder. He believed the ingers in the suprapubic operation were not less than with teral or median perineal operations, and that as large stones had en removed by the lateral operation as by the suprapubic. -The resident said that lrish surgeons should speak with humility 1 the subject; for Dease had written that stone was a very rare fectiou in lreland. Even after lithotrity had been introduced rd established, Mr. Peel, one of the best operators in the city, led to protest he could not see in a cut in the perineum any ch dangers as were imagined by some operators. At present ;holapaxy, where it could be carried out, seemed most successful, id least trouble to the patient. He did not think enough had ea said of the dangers of the lateral operation to rush to the prapubic as a substitute. There were some cases in which the prapubic might be the best, but it was not so in all.-Mr. fanks took a more hopeful view of the future of suprapubic hotomy, than had been taken either by the President or Mr. lomson. As compared with the lateral operation, the suprabic had many advantages. It was absolutely safe as regarded morrhage, and nothing could be cut that would do harm. As a. Stoker observed, in children suprapubic lithotomy would beme the recognised operation as not endangering the procreative
organs. The reason he himself performed the operation, the subject of his paper, was not because there were three stones present, but because there was great difficulty in sounding on account 'of an enormous prostate, and the perineum was so deep he could only get his finger half way up the prostate through the rectum. Moreover, the man being 65 years of age, he thought it was a case in which suprapubic lithotomy was indicated. The two great dangers of suprapubic lithotomy were also those of lateral lithotomy; namely, infiltration of urine and blood-poisoning: but, in suprapubic lithotomy, antiseptics could be adopted to a degree inadmissible in lateral lithotomy. Moreover, death from urinary infiltration was not a result very much to be feared. As regards Dr. Chance's question, the degree of distension would depend on the size of the rectum and the age of the patient.-Mr. Nixas also replied. He had determined on the suprapubic operation from the condition of the urine, the condition of the bladder, and the large size of the stone, and also because he suspacted there was a second stone, which turned out to be the case. IIe had no doubt that syncope was the cause of death. The patient had been afflicted with hremorrhage of the bladder for over fifty-seven years. From an experience of one case he was not prepared to lay down a hard-and-fast rule as to the cases in which the suprapubic operation should, or should not, be performed.

## REVIEWS AND NOTICES,

In Allemoriam_-Phystological and Pathological Researches. By the late T. R. Lewis, M.B., F.R.S.Elect, Sur-geon-Major A.M.S., Assistant Professor of Pathology in the Army Medical School. London : Published by the Lewis Memorial Committee. 1888.
This handsome volume, arranged and edited by Professor Sir William Aitken, F.R.S., and Surgeon-Major G. E. Dobson, F.R.S., and A. E. Brown, B.Sc., is published as a memorial of the late Dr. Liwis, whose lamented death was due to fatal illness contracted in the active discharge of his scientific investigations at Netley. It consists of a reprint of his scientific reports and papers, with a biographical sketch and portrait of the author. The editors obtained the willing consent of Dr. D. D. Cunningham, of the Bengal Medical Service and Professor of Physiology in the University of Calcutta, for including in the rolume papers and reports which mere the joint production of Dr. Lewis and himself.

When Drs. Lewis and Cunningham were passing through the course of instruction in the Army Medical School in 1868, the attention of the scientific world was called to the fungoid theories of cholera, propounded by Mallier and De Bary. At the suggestion of the professors, the above-named gentlemen were sent to Germany to study this theory, not only under its expounders, but also under Pettenkofer and other eminent German physiologists. Thus prepared Drs. Lewis and Cunningham went to India, and were appointed by the Government to enter on a special inrestigation on the causation of cholera. The editors say: "Their first report was published as an appendix to the 'Sixth Annual Report of the Sanitary Commissioner with the Government of India, 1870,' and in the same way most of their subsequent work on this and kindred subjects from time to time appenred."

In March, 1870. Dr. Lewis first discovered nematoid worms in a living condition in a specimen of milky urine in Calcutta; an abstract of his report on this discovery was published in this Journal, November 19th, 1870. It was in Juls, 1892, that he found the filaria sanguinis hominis in the blood of a lfindoo suffering, from chyluria. The editors refer to the "full and masterly account" by Dr. Lewis of what is known of this disease in Quain's Dictionary of Medicine under the article Chyluria. We have only space to refer our readers to the work before us for the many valuable papers on physiological and pathological subjects on which Dr . Lewis wrote, and more particularly to the one in which he quietly extinguished Koch's comma-bacillus, which he showed to be "an old friend under a new name," a spirithum broken up by manipulation, even demonstrating the accuracy of his opinion by showing a "comma-bacillus" existing in the saliva of Professor Max von Pettenkofer liimself.

The editors have paid an eloquent tribute to the ralue of Dr. Lewis's work, the nobleness of his character, and the loss science sutained by his untimely death; and the number of service sub-
scribers to this goodly and beautifully illustrated volume show how much the late Dr. Lewis's labours in the tield of science were appreciated by his brother oflicers.

The Army Iredical School has indeed been unfortunate in the too carly deaths of Parkes, De Chaumont, and Lewis. IIad the last-named survived to this day, the universal voice of the medical services of the British and Indian armies would have named him as a fitting successor to the late Professor of Iygiene. This chair his great chemical knowledge, and the whole scope and tendency of his researches, as demonstrated in this posthumous collection of his papers, show that he was eminently qualified, more perhaps than any of his contemporaries, to fill with distinction to himself, benefit to the State, and in full harmony with the traditions of a post made famous by the eminent men whose names will always be associated with it.

Fifti Report of the: State Committee on Lunacy of the Comaronwealth of Pennsxlvania. Harrisburg: 1888.
Turs Report bears marks of praiseworthy activity. The efforts made to rescue the insane poor of Pennsylvania from neglect and ill-treatment have been untiring, and the result has been an immense alleviation of human suffering. Much remains to be done, but there is every reason to believe that this energetic Board will continue its work until the dependent, helpless class now unprovided for, as well as those able to pay at least a part of the cost of their maintenance, will be able to secure prompt admission into the State hospitals.

It is needless to say that the fearful abuses which have crept into the management of the iusane in the States are not peculiar to America. Probably no country can hoast of having been free from them; certainly England cannot. The Legislature was slow to provide accommodation. It was left for philanthropista, as in our own country, to move in the matter, and it was only when public feeling was aroused, to a large extent by a lady, Miss Dix, that the Legislature was induced to provide State hospitals for the insane. There has, however, always been a large mass of lanacy outside the hospitals, and lunatics have suffered greatly from their miserable treatment in almshouses and human pigstyes. There are now five large hospitals for the insane provided, containing 4,222 inmates. In this special work, the above mentioned lad an enormous and unique influence. Of this remarkable woman, twe observe a biographical sketch in a recent number of the Journal of Mental Science, with a portrait, which conveys a striking impression of the force and dignity of her character.

It is satisfactory to learn that while in 1885, of the 65 almshouses in the State, 36 contained insane patients, in 1886 the number was reduced to 27 , and in 1887 to 21. Again, in 1883, when the State Committee of Lunacy began its work, there were 1,510 insane in county poor-houses; in 1854, there were 1,161; in 1885, 1,057; in 1836, 875 ; and in 1887, 898, thus showing a decrease of GIL in county poor-houses. In private hospitals and licensed houses there are 567 , in the Philadelphia hospital 509 , and in prisons 63 ; making a total, with the 4,202 in hospitals, of 6,259 .

A number of instances are given in which the Committee investigated the condition of patients stowed away in private houses or elsewhere, and, finding them in a very unsatisfactory and degraded atate, had them removed to hospitals for the insane. No one can read this Report without seeing that the labours of the Committee are of the utmost value, and that they have wastly improved the condition of the insaue in l'ennsylvania.

Valuable Appendices succeed the Report, containing maps of the districts in which hospitals are placed, and plans of asylums. A remarkable feature of this section is the introduction of a series of such plans of asylums in other countries. Application was made by the Board to Dr. Hack Tuke for copies of plans of typical hospitals for the insane in Europe, with the result that these were procured from England, Scotland, Germany, and France. Such a collection renders the Report before us a document of permanent value for reference, not only for Americans, but for those who are interested in asylums for the insane in other lands. The English Commissioners in Lunacy might do worse than follow the example of the Pennsylvania State Committee on Lunacy in the preparation of their annual reports.
The Chairman, Dr. Morton, and the Secretary, Dr. Ourt, appear to be indefatigable in their labours, and deserve well of their State and country.

# GENERAL COUNCIL <br> of 

## MEDICAL EDUCATION AND REGISTRATION. <br> $$
\text { SESSION } 1 S S S
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\text { Friday, May } 25 \text { th. }
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John Marshall, F.R.C.S., F.R.S., P'resident, in the Chair.
The minutes of the last meeting were read, amended, and, as amended, confirmed. The Council then resolved itself into a Committee to continue the consideration of the recommendations comprised in the report of the liducation Committee.

Instruction in Fevers.-The Registrar then read the Rev. Dr. llaughton's motion (second recommendation):-
"That candidates for the final examination be required to produce evidence that they have, so far as local circumstances will permit, studied fevers for not less than three months under recognised clinical instructors."

Sir Dyce Dyciworth said that in London the recommendation would only apply to small-pox and scarlet fever. He urged that men could hardly be expected to devote themselves exclusively to the study of fever for the whole three months.

Dr. Glover repeated his question as to whether the instructer might be a private practitioner, and whether "fever" meant zymotic diseases.

Professor Humphry expressed a hope that the Council would not pass this resolution, seeing that it was very doubtful whether, if passed, it could be carried into effect. He deprecated recommendations bearing on special suhjects, as tending to specialisstion. If they suggested devoting three months to fever, why not three months in a lunatic asylum or skin hospital? One adrantage of studying in the London Hospitals was that no such specialisation had yet taken place.

Dr. KIDD said that their object should be to make good general practitioners, and not specialists, but he thought that to seal young men out into the world who had not seen anything of ferer was little less than a scandal. Ile suggested that the best plan would be to address a recominendation to the schools to devise a means.

Dr. Wifks protested against placing fever among the special disenses. It was a most useful and necessary part of the ordinary curriculum of medicine.

Dr. Struthers said that in many places infectious diseases had been sent away to special hospitals, and, so far, they had not the authority from the civic authorities to visit these hospitals. Doubtless if the Council made the recommendation the authorities would pay attention to it.
inr. Macnamara thought that a means might be found. and suggested that the anthorities at fever hospitals should be induced to admit students. In Dublin they were not only permitted, but invited, to attend.

Rev. Dr. Ihaughton said the resolution was not his own, but was proposed by him on behalf of the Committee. Ile disagreed with parts of the resolution. He was prepared to put "fevers "instead of "fever," but he protested energetically against the introduction of the word "zymotic," which was bad Greek, worse English, and false in theory. Ife said that lrofessor Humphry seemed to proceed on the assumption that what could not be taught in three months in the lecture room at Cambridge ought not to be taught elsewhere.

Dr. Struthers then moved the following amendment, which was seconded by Mr. Winselhover :
"That it is desirable that candidates for the final examination ahould have availed themselves of the opportunities within their reach of acquiring a practical knowledge of fevers."
The amendment was negatived.
A second amendment was moved by Sir John Simon, and seconded by Dr. Pettigrew:
"That this recommendation be remitted to the Education Committee for further consideration."

This amendment was also negatived.
The original motion was then read from the chair and carried, 12 being for and 9 against.

Attendance on Labours.-Dr. Kido moved the adoption of the third recommendation (seconded by Dr. Leishman):
"That every atudent should be required either to attend for three months the iadoor practice of a lying-in hospital, or to have
,een present at not lees than twelve labours, at least three of which te should have conducted personally under the direct superrision if a registered $p=$ sctitioner."
Ie ssid that six months' sttendance in a lying-in hospital would lo a student more real good than any other way of attending nidwifery. He ssid the admission of a "registered practitioner" ris the result of a compromise, as was the number (12) embodied in the resolution.
Dr. Leishman objected to the assumption that when a student ad attended 20 cases all had been done that was required. be grest thing was that the student should receive proper nstruction. He ssid thst, in one school at any rate, the qualifiation for recording attendance on a midwifery case was touching he bedpost. so that a msn who had touched twenty bedposts rould be held to have attended 20 cases. The four or five cases thich a man attended in Edinburgh were much preferable, seeing hat sttendance on midwifery cases involved a very serious loss f time.
Dr. Glever proposed as an amendment-
"That in this resolution the number 20 be substituted for that f 12."
le said thst, hsving regard to the extreme importsnce of this ranch of study, he must take the opinion of the Council as to the umber. He said that the number (6) of attendances required by 1e Scotch schools was a discredit to the Council and to the exmining bedies. Yot only were not mere than six cases required, ut no proof was insisted upon ss to how they were attended. :o had been told that as a matter of fact the men did not attend ven the six cases. In the majority of cases labour was over efore the student arrived. He said that twelre cases did not ford \& good opportunity of seeing any abnormality. The English odies required twenty, and the lrish thirty.
Sir Willian Turner said it was quite true that the University : Edinburgh at present only ssked for attendance on six cases, at ateps were now being taken to bring about a condition of ings almost identical with that shadowed forth in the terms of le resolution. He said that three fsctors had to be considered, amely, the student, the examining bedy, and the gravid woman.
Dr. Glover's amendment were agreed to, he doubted whether ley could find a sufficient number of gravid women for the purase.
Dr. Heron Watson pointed out that the number of pregnant omen was often not sufficient to provide even the six cases. 'hatever the advantage might be of several students attending gether, it was certainly not to the advantage of the woman. e suggested that students in the racation might be enabled to itend cases with a practitioner, but he thought it was a mistake lay down any hard and fsst rule.
Mr. Brunenell Carter explained how matters were carried 1 in London, taking the maternity of St. George's Hospital as a odel. While the Council should not impose conditions on the otch Universities which they might not be able to carry out, iat would not justify their pulling down the level of the London hools.
Dr. Glover's amendment was then negatived by 19 rotes to 7 .
Dr. KIDD, speaking to the original motion, ssid he had veted $r$ the amendment because he thought twenty better than twelve, it $\Omega$ hundred would be better than twenty. He regarded it as an stalment of justice. He then warmly defended the lying-in hostals as at present conducted.
The President said that the resolution did not prevent men tending twenty cases, or more if they wished to.
The motion was then agreed to nem. con.
Hospital Attendance.- 1 lt was moved by Dr. Struthens and conded by Mr. Wiefelhorse, that the fourth recommendation be - follows:
"In regard to hospital attendance: That neans be taken to certain the regularity of the attendance; that every student all, as far as possible, have served as dresser and as medical inical clerk, and have availed himself of the opportunities of tending the ophthalmic and other wards or hospitals for special seases; that the designation 'clinical instruction' be substituted $r$ the designation 'clinicsl lectures;' that there be regulated inical instruction to limited numbers; and that the certificate stify that the attendance has been, during a stated number of onths, on 'hospital attendance with clinical instruction.'"
Dr. Struthers explained thst the recommendation was the ttcome of a deliberation as to how the system of practical edution could best be improved.

On Mr. Macnamara's suggestion, it was agreed to discuss the clause paragraph by paragraph.
Mr. MACNAMARA then discussed the mesns of ascertaining the attendance of atudents at clinical instruction, pointing out the failings of the rarious systems employed, and ssked for some practical suggestion in this direction.
Mr. Teale pointed out that to obtain satisfactory results the same students must follow the teacher, with which ohject in riew they at Leeds had adopted the plan of subdivision into classes, which, he said, werked very well.
Mr. Brudenell Carter said that the recommendation, as addressed to examining boards, was unnecessary and absolutely impracticable, and he should therefore rote against it.
Sir Watter Foster characterised the recommendation as an excellent exsmple of grandmotherly legislation, of which they had had too much in the past. If the examinations were made more therough and more practical, the teaching would follow suit. He proposed to omit the entire paragraph.
Sir John Simon said the Council should not go into detsils which they might safely leave to the bodies concerned. He asked hew the University of London was to ascertain regularity of attendance?
Dr. Leishman expressed his satisfaction at finding that the recommendation was not to the taste of the Council. He said it would be absurd to send this recommendation down to the examining beards which had no direct control orer the achools.

Mr. Mitchell banks advocated that the subject of clerkships and dresserships should, at any rate, receive attention, seeing that certain bedies only required attendance at hospitals and did not insist on either of these posts.
Rev. Dr. Hadghton desired to get rid of the resolution altogether. They had special ressons in Dublin for trusting to examination rather then to registers of attendance. He said that the competition between the various hospitals there was very keen, and it was to their interest to get hold of the fees from the students without troubling too much sbout their attendance.

After some further discussion, in which Sir W. Turver, Dr. Brucr, and others took part, Dr. Struthers, after condemning the University of London as a failure for the very reason that it could exercise no effective supervision over its students, said that, in view of the terms of Clause 15 of the existing recommendations of the Council in regard to the Final Professional Examination, he would ask leare to withdraw his motion, and, with the permissien of the Council in Committee, the clause was accordingly withdrawn.
Instruction in Pathological Anatomy.-It was moved by Dr. Stricthers. and seconded by Mr. Macinamata:
"That greater attention be given to instruction in pathological anatomy than is required in the curricula of some of the examining bodies, and, with this view, that \& course of not less than three months' lectures on pathological anatomy with practical instruction should be included in the curriculum of all the examining bodies, and that it should be made a separate subject of examination."

Sir Waltrr Foster auggested that this snd the remaining recommendations should he all withdrawn.
Dr. STruthers suggested ironically that they should go back and withdraw the whole of the recommendations. He said that the study of pathology in this country was very much behindhand; although a question of the utmost impertance; and he dilated on the shortcomings of pathological instruction in England.
Dr. Tuke, as the representative of a body which did not include pathology in its course, hoped the Council would pass the resolution.
Dr. Wilks said it onglat to be made clear that by practical instruction they did not mean post-mortem examinations. He observed that the ignorance of men in respect of post-mortem appearsuces was something colossal. He could supply abundant examples of such ignorance, many of them having occurred in cases in which a fellow-creature's life wa involved. He maintained that proper facilities were not afforded at Edinburgh for guch instruction.
Sir Wa. Turver defended Edinburgh from the aspersions esst upon its system of pathological instruction.
Dr. Wilks would hare liked to ask Professor llumphry how much direct experience students obtained at Cambridge?
Dr. Heron Watson hoped that the student would not be hurdened with an additional course, for which he would have to pay extra.

After some further discussion the motion was put to the vote and carried.
,The Council then adjourned.

## Saturday, May 2bth.

Jomn Marshall, F.R.C.S., F.R.S., President, in the Chair.
The meoting having been formally opened, the Council resolved itself into committee to continue the discussion of the recommendations embodied in the report of the Education Committee.

The Study of Insanity.-It was moved by Dr. TUEE and seconded by Dr. Banks that the sixth recommendation should be as follows:
"That it is desirable that candidates for examination be required to have availed themselves of the opportunities within their reach of studying insanity:"

Dr. Tuke pointed out that the study of insanity did not receive the amount of attention to which its intrinsic importance entitled it-in fact, that it was to all intents and purposes neglected. - Ile urged that, both in the interests of the public and of the profession, it was desirable to put an end to a condition of things which was simply disgraceful.
Sir John Srmon objected to the clause on the same ground that he had objected to its predecessor, namely, that it tended to apecialisation.
A discussion ensued as to the means of giving effect to the recommendation if passed, and the motion was then put to the rote and carried by a large majority.

Curtailment of Lectures.-Mr. Wheelhouse moved that the seventh recommendation be as follows:
"That, in order to afford due time for clinical work, it is desirable that the number of systematic lectures be diminished."
The motion Tas secunded by Sir Dyce Duckworth; but after a brief diacussion it was withdrawn, by permission of the Council in committee, and the following motion by Dr. Leishman, seconded by Dr. Bruce, was substituted:
"That, in order to afford dne time for clinical work, it is desirable that the number of syatematic lectures be restricted, and that it be referred to the Education Committee to consider in what cases and to what extent this restriction should be applied, and to report to a subsequent meeting of the Council."

The motion was agreed to.
Subdivision of Eraminations.-Mr. Mitchell Banks mored that the eighth and last recommendation should be amended to read as follows:
"That extreme subdivision of examinations for admission to the Medical Register, by allowing candidates to present themselves for the various subjects of examination separately, is prejudicial to sound professional education, and should be discouraged: and that this resolution be referred to the Lxamination Committee for their consideration and report."
Ile said that, while it was not fair to the student to require him to keep up too many subjects at one time, he thought the system of subdivision encouraged "grinding" more than any other syatem. He believed that such a recommendation, emanating from the Council, would inflnence the examining bodies.

Dr. Kind, in seconding the above amendment (which was substituted for the original motion), expressed his approral of the object in riew.

Dr. Struthers praised the system adopted in Dublin of sessional examinations. IIe urged that it was impolitic to separate certain subjects, such as anatomy and physiology, which went naturally together, though no useful object would be attained by compelling the atudent to go up for, say, anatomy and chemiatry together. He strongly disapproved of what he called the "dot and go one" aystem of the London Colleges.

After bome remarks by Mr. Brudeniele C'arter, Dr. Glover, and Mr. Banks, the motion was agreed to.
The Council haring resumed, it was mored by Mr. Wheelifouse, se zonded by Dr. Stnumiens:
"That the recommendations passed by the Council in Committer be received and entered on the minutes."

Sir Joun Smos suggested that the discussion by the Council of the resolutions should be delayed until a future meeting. IIe said that at least one resolution (ivo. 2, as to ferers) did not express What was intended by its proposer as to obliging the student to attenil a special hospital where the general hospital did not gire the necessary instruction.

Rev. Dr. Hatonton!said dhat it was only in cases where fever
was not taught in the general hospital that they wished to insist upon the three months course in a special hospital.
The President then read the resolution moved by Sir John Simon:
"That the report be referred to a future meeting of the Council for further consideration."

Mr. Mitchell Banks characterised the motion as preposterous, seeing that it would involve going over the ground again on that future occasion.
Dr. Leishman objected to Sir Jolin Simon's remark that the terms of Clanse 2 were by no means those of the framer of thin motion. He said that he perfectly understood and agreed with the motion as expressed in the terms thereof, and he objected to any attempt to adjust it so as to acquire a signification differont from that which the Council had intended should be given to it.

Sir Walter Foster said that the motion would have for effect to stultify themselves. He would have preferred that the work had been got through in sufficient time to enable the Committee to derote an erening to its consolidation. Ile said he perfectly understood what was meant by the fever instruction clause, and the designation of the instructor had purposely been left open.

Dr. GLover hoped Sir Walter Foster would at once take the opinion of the Council, for if it came up in October the wholething would have to be gone over again, which would be an unconscionable waste of time.
Sir JoHn Simon said that an economy of time might be a waste of character. What they did ought to be well done. They had already referred back two of the realutions, and he proposed to refer that one also.

Dr. Leismman said that as regarded No. 2 Clause, Dr. Hanghton had began by saying that it was not his motion, but that of the Committee, so that whether or not the terme were those preferred by Dr. Haughton did not matter.

Dr. Strothers, speaking as the unbappy ohairman of the Education Committee, objected to their being referred back. He moved that the Council adopt the recommendations.

Sir Joun Simon, with the consent of the Council, then withdrew his resolution, and the motion of adoption was agreed to.

## Eramination in Common Diseases.-Dr. Glover moved:

"That it be a recommendation to the examining bodies to include in their final examinations of candidates tests of their knowledge of common diseases and their treatment."
He said that unless they could get additional attention to the study of common diseases, it was of very little avail to hope to improve the curriculum. He thought such a recommendation was the logical conclusion of what had already been done.

Dr. Heron Watson asked what was meant by "common diseases?" Was it "common and unclean?"

Sir Dxce Duckworth resented the motion, as an insult to the examining boards of London.

Sir William Turner moved that "the Council proceed with the next bnsiness," and this was carried. The motion therefore fell through.

Aconitine in the Pharmacopcia.-The President read a letter Irom Dr. Thudichum, which was printed in the programme for the day's proceedinga, bearing on the variable strength of the substance described as aconitine in the Pharmacopcia.

Dr. Quain protested against such letters being put into the programme, otherwise they would lave endless communications of that kind. With regard to the particular letter, the Pharmacoperia Committee had gone very carcfully into the subject. He said there was no preparation of aconitine for internal use in the Pharmacopcia.

On Mr. Macnanara's motion, the letter was referred to the l'harmacopreia Committee, the President being requested to inform Dr. Thudichum what liad been done.

The reports of the Finance Committee and of the Income anl Expenditure Committee were received and entered in the minates.

Defective Information.-1t was proposed by Dr. Strutuens and agreed to:
"That the table showing results of preliminary examination in 1887, entered in the minutes of Jay 2:2nd (pp. 28, 29), be referred to the Education Committee, together with the examination papers indicated in the last column of the table as 'sent:' and that the Registrar be requested to apply to the examining bodies for any further information the Committee may desire."

Inspectors' Reports.-It was moved by Sir Willian Turner, and seconded by Dr. Strutmers]:
"That the reports of the inspectors of the final examinations in nedicine, surgery, and midwifery, along with any observations on nedicine, surgery, and mich the bodies inspected may make, be remitted to he Examination Committee for consideration and report to a :uture meeting of the Council.'
Sir Willian Turner discussed the proper course to be folowed with these reports, which he said was defined by the Hedical Act (1886).
Dr. Glover observed that some expressions in the President's address secmed to indicate an intention to modify the reports, a course he strongly objected to.
The President said that he had asked to be associated with a sub-committee in order to discuss what to do with the reports. all he proposed was that they should be made clear and consistent with the object of the report, redundancies being elimiuated. His object was twofold: (1) that the reports should contain an explicit conclusion, explicitly expressed : and (2) to strike out redundancies. Such alterations as might be deemed necessary would only be considered in the presence of the inspectors themselves.
The motion was then agreed to.
Distribution of Registration Fees.-Mr. Macnamara proposed:
"That the fee paid for registration of the qualification or qualifications which admit a practitioner to the Medical Register hould in future be credited to the Branch Council of the division or divisions of the kingdom in which the qualification or qualifications were obtained.'
He said that the subject had been broached for the first time ten years ago, when he was chairman of the Registration Committee. The General Medical Council had no money and no income of their own, beyond the profit on the sale, of the Pharmacopaia, the principal source of its revenue being the percentage rate based on the receipts of the Branch Councils. He said the whele intention of the Acts would be frustrated if the Branch Councils collapserl. He then discussed the present financial condition of the Irish Branch Council, which had a balance of £194 7s. 10d. It might be said that the Irish Branch Council was extravagant, but that was a matter for the consideration of the Council. He urged that the English Branch Council was unduly favoured in being able to meet just prior to the meeting of the General Council, which the other Branch Councils could not do. He maintained that after educating and examining men in Ireland, they ought to be credited with the registration fees. He had calculated that under the present system some $£ 17,000$ had gone to swell the exchequer of the English Branch Council, which Should properly have gone to the others.

Dr. Quarn, in replying to the cry of "justice for Ireland," criticised the expenditure of the Jrish Branch Cenncil, and compared its financial condition with that of the Scotch Branch Council. The money had been spent in holding unnecessary and uncalled for meetings, and the remedy lay in a more economical administration. He observed, moreover, that the fees which were paid in to the English Branch Council legally accrued to that Council, and could not be alienated even with the consent of the Council.

Dr. Bruce moved "the prerious question," but this was promptly negatived.

Sir Wullian Turner, in seconding the motion, said the matter had been considered by the Scotch Branch Council, and it was not exclusively an lrish question. He urged that the usefulness of the Iranch Councils was curtailed by this diminution in the fees accruing to them. He thought that in future the fees should be credited to the Cauncil of the division where the man took his qualifications. He sain the proposal was a reasonable one, and no objection should he raised to it: but, in view of Dr. Quain's contention as to the competency of the Council to modify the present system, he would leave the matter until a future occasion to be followed up.

Mr. Carter moved, seconded ly Dr. Brece,
"That the subject of Mr. Macnamara's motion be referred to the President, with porer to consult the legal adrisers of the Council on it, and particularly as to the competeucr of the Council to make an order to the effect of that proposal."

Sir Join Smon suggested that the fee ought rather to go to the Brauch Conncil of the place in which the holder of a qualification intended to practise.
The Rer. Dr. Havghion observed that the result of this resolution would only be to postpone the discussion pending an opinion as to the legality; of the proposal.

Mr. Carter's motion was then agreed to.

A mation brought forward by the Rev. Dr. Haughton in reference to the commencement of medical study by dental students, was withdrawn, it being pointed ont that the proposal was unnecessary.
The Council then proceeded to elect the various committees.
Mr. Carter called attention to an advertisement issued by H . F. Partridge, and to the names of certain registered medical practitioners appended thereto.

The Conncil then adjourned.

## REPORTS AND ANALYSES <br> AND

DESCRIPTIONS OF NEW INVENTIONS,
IN MEDICINE, SURGERF, DIETETICS, AND THE ALIIED BCIENCES.

A NEW COMEDONES EXTRACTOR.
The early and complete removal of comedones in the treatment of sebaceous acne is so important for the
 purpose of preventing the secondary consequences disfiguring to the patient, that I renture to draw attention to the accompanying illustrations of two simple steel instruments intended to supersede the use of the watchkey.

The smaller of the two, shaped like a
 pencil-case, I have found a valuable aid if held between the thumb and forefinger immediately above the pin of the spring stylette, the knob at the end resting in the palm of the hand.

The barrel being placed orer the comedo, considerable and almost painless. pressure can be applied with the surrounding flat and bevelled edge of the instrument, with the result of dislodging the accumulated sebaceous secretion.

The use of the spring stylette easily empties the barrel when filled.

The longer instrument, of simpler construction and attached to a handle, is better suited to the patient's own use before a mirror, as the hollow crosspiece placed at right angles to the shaft allows of unobstructed view.
The circular openings are of unequal diameter, to suit the varying size of the comedones.
The instruments have been made for me by Mlessrs. Weiss and Son, 287, Oxford Street, W.
J. Iferbert Stowers, M.D., Physician to the Department for Skin Diseases at the North-West London Iospital.

## SELF-DIGESTING WHOLE-MEAL BREAD.

(Satory and Moore.)
At the request of Dr. W. B. Cheadle, Messrs. Savory and Moore have produced a judicious variety of their malted food-namely, one made with whole-neal flour. It possesses all the advantages of whole meal, combined with those of diastatic foods. It is rich in albuminoids ( 12 per cent.) and phosphates. When mixed with milk, in the manner directed on the label, it forms an unexceptionable food, of excellent flarour. It is an improrement upon malted foods made with ordinary flour and malt meal only:

## SEATREFS CUMBERLAND BROWI BREAD MEAL. <br> (Seatree and Suss, Literpool.)

We have received a sample of the above flour, and of a loaf of bread baked from it. Both are of the highest quality. The flour consists of whole meal, with 11.2 per cent. of albuminoids and 1.6 per cent. of fat. The loaf was exceedingly well baked and perfect in 'every way, free from excess of cellulose. which not infrequently, in coarsely-prepared whole meal, leads to irritation of the bowels and diarrhea.

## BRITISA MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Sunscmiptions to the Association for 1888 became due on January 1st. Members of Branches are requested to psy the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoftice orders should be made paysble at the West Central District Office, High Iolborn.

## Tlye Grítioly fledical zourmad.

## SATURDAY, JUNE 2nv, 1888.

## THE GENERAL MEDICAL COUNCIL.

Tae forty-fourth session of the General Medical Council has been singularly uneventful, and it is easy to sympathise with the exelamation of au inpatient member that if it had never heen held the profession would not have been appreciably the worse. The greater part of the session was taken up by the customary acadomic discussions on suggested improvemeuts in the existing arrangements for medieal education, and especially for clinical instruction in certain subjeets. Perhaps the most important piece of work was that done on Thursday, when a caso in which a registered practitioner had acted as eover to an unqualifed person, who was thereby enabled to carry on a medical practiee as though he were a legally qualified practitioner, was heard. After a somerwat prolonged investigation, tho practitioner in question admitted that ho had inadvertently committed the offence, stated that he had discontinued the practice, and promised not to ofiend so again. The President administered to the erring practitioner a severe reluke, which ought to be taken to heart by any who may have been tempted to commit a like indiscretion, for this plea of ignorance cannot be indefinitely repeated in tho future. Though the Council in the two cases hitherto brought beforo it has wisely tempered justice with mercy, the time will assuredly come when the large penal powers which it possesses will be put in force. The practico of "covering" unqualified persons has no legal or moral justification, it inflicts a serious injury upon the public, and is a wrong to the profession. Upon this point the medical profession is, we believe, entirely at one with the Council. The employment of genuine pupils as assistants is an entirely different thing, and it may be anthoritatively stated that so far from wishing to lamper this custom, it is the desire of the Council to favour the extension of the system. An attompt has been mado to throw dust in the oyes of general practitioners by mixing up tho two things, hut they are essentially distinct, ono being a useful part of the modical curriculum, the other a covert attempt to evado the Inw. The omployment of an mqualified assistant is, however, only to be permitted under proper safeguards, and not either in complete suhstitution for the services of the principal or under circumstances in which due personal supervision and control aro not or cannot be excreised by the principal.

Tho Irasident stated that no less than soven cases of alleged "covering" had been brought to his notice, though in one
only had tho evidonce adducod justified the holding of an inquiry. The Council declinos to tako any sharo in tho initiation of such inquiries, and assumes that it is only called upon to act in a judieial capacity ; consequently, the labour of collecting evidence and snstaining the allogation before the Council, sitting in this judicial capacity, falls upon private individuals. This is much to be regrotted, as it requires considerable moral eaurage to incur the possible odium which would attrich to the failure to establish eharges of "covering." The duty, it will seem to many, ought to be assumed by the corporations which have granted licences to practise to the aceused persons. The corporations themselves possess certain disciplinary powers whieh could not be hetter employed than in sustaining or anticipating the action of the Council.

The greater part of the session was spent in the discussion of the report by the Education Committee. Its recommendations were in the end adopted with few alterations, and with only one important omission. By some one or other of the licensing bodies every one of these reeommendations is already acted upon, though probably none are at present following all. The most important is that which states that, in order to afford due time for clinical work, it is desirable that the number of systematic lectures be diminished. This recommendation opens up a very important sulr ject, for it will have to be recognised, sooner or later, by the corporations that the value of such lectures has been very much altered by the development of medical literature and by the increased eomplexity and extent of the subjects dealt with in the systematic courses. On the one hand, the leetures are rapidly falling in the estination of students, who do not fiud them as indispensable as when textbooks were few and inperfect ; and on the other, lecturers are compelled to deal in any single courso with ouly a fraction of the whole subject, as when a lecturer on medicine limits himself to cliseases of the chest or of the nervous system, which he finds aftord more than sufficicnt material for ono session. More will be heard of this matter, as it has been referred to the Education Committee to consider in what eases and to what extent tho systematie lectures ought to be restricted; but it may be doubted whether any of the other recommendations will have mueh practical effect.

To tell students that they ought to avail themselves of the opportunities within their reach of studying fevers and insanity, is to give them very excellent advice, but as part of the requirements of examining bodies under existing conditions of keen competitiona mong medical sehools, the recommendation would, it is to be feared, be a dead letter. As to the third and fourth recommendations, it will be a surprise to many people that they should yet have to bo made; that it should still lee necessary to recommend that a courso of pathological anatomy with practical instruction should be included in the eurricula of all tho examining bodies, and that evory student ought to be required to be present at twelve and to conduct threo labours is hardly creditable to the regulations now in force.
The first recommendation related, in the words of the President, to tho "various substitutes for the beneficial purposes attained by tho now extinct pupilage ;" the main ohjection to the rocommendation is that it would havo the offect of prolonging the currieulum for six months, or of curtailing
the attendance in hospital. Tho last recommendation enters upon very debatable ground, although it was adopted without much discussion. The tendency of recent years has been towards the subdivision of examinations, and it may be Iloubted whother the University of Cambridge, for instance, would have adopted the practice if it were really so "prejudicial to sound professional education ; " the recommendation may, however, do good by calling attention to the subject and preventing abuses.

It is worthy of note that the Council now consists of its ontemplated number of thirty mombors, including the President; this has been brought about by the expiration of the term of office for which Dr. Matthews Duncan was nominated by the Crown. The vacancy thus created has not been filled up.

Sir John Simon having withdrawn from the Executive Committee, which ho found too great a tax upon his health, his place was supplied by the election of Mr. T. P. Teale, who has been for twelve years a member of the Council.

DR. GASKELL AND THE MARSHALL HALL PRIZE.
Fince the instiuntion of the Marshall Hall prize ten years ago, it has very justly been lonked upon as the blue ribbon of one Jivision of the studies of medicine and physiology-that which loals with the nervous system. It is awarded only once in ive years, and as yet there have been only three men who aive received this very ligh compliment. The first two were nen of not only English, but it might truly be said of European, reputation in their investigations of the nervous rstem by observation of disease and by the method of lirect experiment-Dr. Hughlings Jackson and Dr. Ferrier; ind now to these has been added a third, Dr. W. H. iaskell, F.R.S. Though he graduated at Cambridge nearly wenty years ago, and became M.D. of that University in 879 , he has not turned his attention to the practice of his rofession, but has kept it steadily fixed on some of the prolems of physiology ; and of those many problems he has hosen some of the most delicate and difficult, and has spared imself no trouble or expense to arrivo at an accurate and omplete solution. The magnificent opportunities which the Iniversity of Cambridgo has been able to put at the disiosal of its students in its great physiological laboratory, nder the guidance of Professor Michael Foster, hare icrer been more fully appreciated or put to worthier 30.

The study of the influence of the nervous systom on the heart nd on all parts of the circulatory system is one of the most uzaling not only to the beginner, but to the advanced student. $t$ is here first that ho comes across the phenomona of inlubition f function by an efferent nervous impulse which everywhero else in excitant; an inhibition, ton, which does not seem when more losely amalysed, and oven after the arguments of Bernstein, o resolve itself into the withdrawal of a constant normal timulus unconsciously supplied and conveyed by a nervo, but the immediate and direct result of the application to the ouveying nerve of anything that usually acts as a stimulus to he full excitement of the nervous action. Time may familiarise
us with such conceptions, but it docs not render it more easy to realise them satisfactorily. In dealing with such questions in the spirit of accurate criticism, there is much difficulty in experiment owing to the extreme anatomical complexity of the course of the nerve fibres, both of the cerebro-spinal and tho sympathetic system. There are some which both normally and under an artificial stimulus increase the rapidity of the rhythmical action of the heart, like the so-called nervus aceelerans," which probably originates in the medulla.

Dr. Gaskell has done excellent work in showing, by most laborions and careful dissection and experiment, the points of origin, combination, and separation of the accelerator, sympathetic, and inhibitory fibres; and demonstrating by a comparative examination of the snail, the frog, the tortoise, the rabbit, the cat, the dog, and man, the gradual evolution and differentiation both of function and of structure, so that in man the same nerve fibre cannot be both inhibitory and motor, or accelerator. That is a considerable and valuable contribution to a very large question. As to the accelerating fibres, he has shown good cause why they bad better be called "augmentor," as they not only increase rapidity, but strength of contraction of the auricles in cold-blooded vertebrates, and of the rentricles also in the warm-blooded. The process of inhibition night be supposed to be at the periphery, destructive or catabolic, constructive or anabolic (that is, leading to all ultimate increase of energy), or neutral and producing inhibitory effects by interference with some simultaneous process, just as tro sets of motor vibrations on the same cord may interfere with one another so as to produce rest. Dr. Gaskell's view, which is based on researches dating from before the International Congress of 1881, is that the inhibitory action is anabokic, and that though the heart's action is stopped for the time, yet its subsequent action is so much the stronger as to more than balance the arrest. The "augmentor" influence, on the other hand, for the time quickens and strengthens, but ultimately exhausts.
"One fact," to quote his own words, "seems to be coming to the front, namely, that weak stimulation is most effective in the direction of inhibition, and strong stimulation in the direction of excitation ;" weak stimulus of the seiaties slows the raso-dilators ; "the stimulus which produces by its inhibitory effeets the condition of hypnotism is essentially a weak one." From the minute and prolonged consideration of a part of the nervous system, Dr. Gaskell is proceeding, by careful steps, to a moro general survey of the largest and most fundamental divisions into what he calls "somatic" and "splanelmic" nerres, and the application of these divisions. even to the cranial nerres, in which he confirms and extends Van Wijhe's researches.

The conclusive way in which he has demonstrated the dropping of the investment of medullary sheath by some fibres at various points in the conrse of the nerve and its meaning was excellently illustrated by some magnified photographs thrown on the sereen during his lecture at the Royal Medical and Chirurgical Society's rooms last week. and commanded the entire approval of his distinguished and numerous audience. The value of his strong independent individuality and concentration on his work was very widely felt.

## THE SURGERY OF THE URETER.

Several bold surgeons have recently attempted or suggested different methods of closing, catheterising, or compressing the uroter. Dr. Tuchmam, of the German Hospital, has constructed a hollow instrument, resembling a lithotrite. The blades are senarated when this "ureter-forceps," as he terms it, is introduced into the bladder, and slipped along the base till it tonches the posterior wall. On closing the blades, they will grasp the elerated ridge of mucous membrane, representing the very oblique course of the ureter through the vesical walls. By dint of practice on the cadaver, this delicate operation may be performed on the male as well as on female patients. Fifteen minutes are ssid to ho sufficient for the purpose of keeping the ureter elosed while the urine secreted by the opposite kidney runs from the hollow outer blade of the forceps, and is preserved for testing. In this manner, not without obvious precantions, the surgeon may discover if one or both kidneys be diseased. Mr. Hurry Fenwick has contrived a ureter-aspirator. In one case, at least, he succeeded in blocking the right ureter with' clot by means of this ingenious instrument. The patient was a middle-aged man, suffering from severe hrematuria due to traumatic malignant growth of the right kidney; when the "clottage," as Mr. Fenwick tormed it, was performed, no distinct tumour could be felt. From the date of the "clottage," till the patient's death, six months afterwards, there was no recurrence of the hematuria, which for fourteen months previously had been riolent and persistent. Dr. P. Mïller has contrived a uretercompressor, somewhat after the principle of Mr. Davy's now well-known lever. He took into consideration the anatomical relations of the ureter in its course along the pelvic walls. On introdncing the finger into the rectum, feeling for the apine of the ischium, and then passing the finger about an inch and a half upwards towards tho pelvic brim, the ureter can there be compressed against the bony wall of the pelvis. In women this compression may be effected through the vagina. Dr. Muller has constructed a special compressor. It forma 'an angle ; the short arm is fixed ly a handage to the thigh after compression, and bears a hinge so that the instrument may be hent to a convenient angle, whilst the long arm bears a bag at its free extremity. The pationt is placed on his side, and the long arm is passed about five inches into the rectum. The bag is left flaccid till it has been properly introduced, it is fitted with rubber tubing, which is placed 'in communication with a long glass pipe ending in a funnol. About four pounds of mercury are poured into the bag, the ureter is then compressed to the extent of at least four-fifths of an inch. Dr. Millor has effected compression in one instance only on the living subject. Ho further proposes to eompress the ureter against the pelvic brim through tho abdominal walls, by means of a rad.

Dr. Axol Iversen, of Copenhagen, has boldly opened the bladder by suprapubic section, so as to inspect the urine as it escaped from both ureters. The patient was a man aged 38 ; he suffered severely from dischargo of purulont urine, which contained no tubercle hacilli, neither was there any swelling or any localised pain, to prove whether the disease were unilateral or hilateral. Calculous nyolitis was diagnosed. The hladder was opened,
and its cavity illuminated by the clectric light. A continuous stream of pus issued from the orifice of the loft ureter. From the right came an almost clear fluid. . This was carefully examined and found to contain some red corpuaclea, abundance of epithelium from the upper and middle part of the wrinary tract, and a considerahle quantity of hyaline and glandular casta. On that account Dr. Iveraen gave up all intentions of removing the left, the evidently suppurating, kidney, nor did he doem it necessary to perform nephrectomy, seeing that the pus could be seen to flow as freely from the ureter as it would have escaped through a lumbar incision. The patient recovered from this remarkable exploratory operation. The above-named surgeons may partly be considered pioneers in a new and not unimportant branch of surgery. That there remains room for much improvement they would, we trust, be the last to deny.

A course of lectures on bacteriology will be given by Professor Klein, F.R.S., for the College of State Medicine in the theatre of the Chemical Society, Burlington House. The first lecture will be given on June 4 th at 4 r.M., and the course will be continued on succeeding Mondays at the same hour.

## AID IN CONVALESCENCE.

The conralescent work of the Charity Organisation Society is one deserving of public recognition and support, and we may express the hope that the sum of $£ 1,500$ required for the provision of the necessary summer beds may be shortly forthcoming. This appeal is signed by Dr. W. M. Ord, St. Thomas's Hospital ; Dr. J. C. Stcele, Guy's Hospital ; Dr. Broadbent, St. Mary'a Ilospital, snd others.

## A FISH AND POULTRY JURY.

The Sanitary Committee of the Corporation of Leeds bave sanctioned, as an experiment for twelve months, the appointment of a "fish and poultry jury," to assist the sanitary officizls in deciding as to food supposed to be unfit for human consumption. The committee will select three names from a list supplied by the dealers, to constitute the jury. This plan is said to work well in some othér towns.

## RICHMOND PARK.

The Duke of Csmbridge will probably receive a great deal more sympathy in the course which he is understood to be pursuing in opposing the proposal to hold the National Volunteer Rifle Meeting in Richmond rark than some of our daily centemporaries appear to expect. The park is one of the largest, as it is certainly the most beautiful, of London's lungs, and the establishment of extensive rifle ranges in it will very seriously curtail the privileges of the public. Wimbledon common is now for six weeks in the hands of the Riffe Association-a fortnight for prepsration, a fortnight for the meeting, and a fortnight for removing, as far as pessible, the traces it has left-and it is astonishing that anyone should regard with equsnimity the subjection of Richmond Park to such an indignity.

## ALCOHOLIC TRANCE.

The first special atudy of alcololic trance was embodied in a paper read by Dr. T. D. Crothers, to the Medico-Legal Society of New York, in 1881. In a second paper read to the American Medical Asseciation, Dr. Crothers deduced the following conclusions from various clinical reports which have since been pub-lished:-1. Alcoholic trance is not an unusual condition in ine-
briety. The victim is gencrally an automaton, and acts without memory or consciousness of passing events. 2. This trance state is distinct from epilepsy, hysteris, or any known forms of mania, and is found associsted with some unknown conditions following alcoholic poisoning, continuously or at intervals. 3. The condition is prohably one of brain-exhaustion, followed by a lowering of consciousness, or a suspension of nerye force in certain directions. There is profound disturbance of the brain centres, with impaired and lessened sensibility. In some recorded cases the subject has gone about his daily work, the sbnormal state being rerealed only on an unexpected call for mental energy, producing confusion and stupor instead of adaptability to new conditions. In other cases the subjects had dono unusual acts; for example, a city banker suddenly took to delivering tracts in the slums, but subsequently remembered nothing of the incident. In other cases some unusual line of conduct seemed to grow ont of the surroundings or some old buried idea came to the surface, as in the instance of a merchant suddenly declaring aloud to all whom he met that he would kill an old schoolmaster who punished him in hoyhood.

## FIRE PREVENTION.

$1 F$ there were any further proof needed of the lsmentably inadequacy of our means of affording escape to the inmates of a burning huilding, it would be afforded by the calamitous fire which broke out soon after 6 o'clock on Wednesday morning last at a iraper's shop in Edgware Road, by which five persons lost their lives. The absence, in the present case, of sny fire escape was tue to an extraordinary rule which provides for their remoral at 3 A.M., when the greater part of Londoners are in their beds. But :or this strange arrangement, the unfortunate persons who ost their lives by this disaster would have been saved. Great :esponsibilities rest upon the owners of large establisbments where a large number of persons are housed; it is clearly their luty to provide adequate means of escape. The question ought a he considered whether all such establishments ought not to he laced under restrictive regulations by by-laws framed for the urpose by the local sanitary authority.

## THE CENTENARY OF THE LINNEAN SOCIETY.

 CHe centenary of the Linnean Society was celebrated on May 24th y a meeting at which enlogiums of Linnæus, of Robert Brown, if Charles Darwin, and of George Bentham were pronounced. It $s$ interesting to note that two of the eminent biologists to whom his honourable duty was intrusted, Sir Joseph Hooker and Proessor Flower, are, botla members of the medical profession, and hat, of the two recipients of the gold medal of the Society on this aemorable occasion, one was Sir Joseph Hooker, and the other Sir hichard Owen, who became a Member of the Royal College of Surcons in 1826, and a Fellow in 1843. On May 25 th a conversazione was cld in the rooms of the Society, at which all the memorials of inneus in the possession of the Society were cxhibited, together rith many other interesting objects.
## A HARDWORKING WOMAN.

HE death is announced of Miss Martha Petrovna Grabovekana, the rst female medical practitioner who has settled in the important iberian city of Tobolsk, where she had entire charge of the male department of the city hospital and lunatic asylum. She ctured also at the School of Midwifery, and had a considerable civate practice; in addition to her multifarious duties, she found me to pursue scientific investigations. One of her researches had ference to the hygienic effect of treating hospital walls with rrosive sublimate; for this purpose she is stated to have made lly 100 experiments in the laboratory. She was also much occued in bacteriological research. Working sixteen hours a day, as is ; young lady is said to have done, tells, however, on the
strongest constitutions, and it is not much to be wondered at that she succumbed. Before going to Siberis, she was for a time chief of Professor Slavianski's clinic.

## PROFESSOR DONDERS.

Professor Donders attained on Sunday last his seventy-first year, an age at which the Dutch law compels him to resign his professorship in the University of Utrecht. At the festivities by which the accasion was celebrated a large number of distinguished men, not only from all parts of Holland and the Dutch colonies, but from this and other countries, assembled. An address was presented to Professor Donders, recognising his forty years' services to science and humanity. The Professor announced that he desired the memorial fund to be appropriated to assisting young physiologists and ophthalmologists at the University. The King conferred the distinction of Commander of the Golden Lion on Professor Donders, and the Government was represented at the ceremony by the Home Minister. King Humbert sent him the Order of the Crown of Italy, and Sir Joseph Lister congratulated the Professor on behalf of the Royal Society of England. A medal Was also struck commemoratire of the day's ceremony. Professor Donders declared that, although he was leaving the University, he had not finished his task. A banquet was given to him in the evening.

## THE RISKS OF A GENERAL HOSPITAL.

THE question whether a general hospital csn be regarded ss a nuisance to a residential neighbourhood has recently been raised in the law courts, and will probably be still further inrestigated, Whatever the final decision may be, it is clearly the duty of erery hospital to take special precantions to prerent infectious persons found in the out-patient room, either from exposing to the risk of infection other patients in the institution, or the public who may chance to meet these persons on their return bome. The actual requirements for such a hospital in London are (I) telephonic communication with the central offices of the Metropolitan Asylums Board; (2) rooms set apart for the isolation of infectious cases occurring either in the aut-patient department or in the wards; (3) an ambulance for the removal of thase persons who are unwilling or unable to obtain admission into hospitals for infectious diseases. Many institutions hare already adopted these precautions, and it is well that the attention of others should be directed by the case to which we refer to the need for following their example.

## A RISK OF TRAVEL.

THE reported indisposition of the Duke of Edinburgh from drinking impure water at a foreign station gives prominence to What is perhaps the most usual and frequent source of danger in foreign and Continental trarel. Many of the sanitary authorities who have looked into the question hare from time to time uttered warnings to Continental trarellers as to the dangers of the ordinary drinking water to be found abroad. The pollution of table water at foreigu hotels and houses is due to a great variety of causes. The water-supply of foreign cities is as a rule, to Which there are only few exceptions, taken from sources lamentably liable to sewage pollution, either in open streams or uncovered reserroirs, or from defectire sanitation in the housesupply. A large part of the domestic supply of drinking water is, moreover, from surface wells, whicl are constantly liable to sewsge flltation. An examination made only a few years since, of syphons of sparkling "seltzer" in a great Continental city disclosed the fact that they were horribly polluted mith sewage, and that the effervescing fixed air with which they were charged only served to conceal unutterable contaminations of a most dangerons kind. Sir Henry Thompson and Dr. Herman

Weber, who have both given attention to the subject, are very emphatic in their counsel to travellers to avoid ordinary drinking water abroad. The easiest and most agreeable means of avoiding the danger is the habitual use of a pure natural mineral water in lien of the doubtful drinking water of the hotel or the private house. When the l'rince of Wales went to India he took with him a large supply of the kind, and successfully avoided this risk. Another method in which safety is sought is by invariably boiling the water before drinking it. This, however, involves more trouble than many people are willing to take, and makes the table-water flat and insipid. This insipidity may be relieved by squeezing fresh lemons into the water. But for those who cannot always be bothered with the boiling-pot or troubled with performing this little domestic operation before taking a draught of drinking-water, it would be wise when travelling abroad to select as a table-water a natural mineral water of undoubted purity rather than run the risks of bloodpoisrning, typhoid, and diarrhcea to which so considerable a number of travellers at present fall victims, finding death and disease where they are seeking health and pleasure. The instances of typhoid, blood-poisoning, diarrhoea, and dysentery, of which we hear this year from Italy and Egypt, are rery lamentable, and for the most part avoidable.

## MYXCEDEMA.

The usual scanty attendance of members at a " last night" meeting, when a massacre of the innocents is to be expected, did not obtain at the closing meeting of the session of the Clinical Society on Friday last, when a full house, which included Dr. Fordyce Barker, of New York, assembled to hear the conelusions arrived at by the Committee of the Society, which for years has been considering the whole question of myxadema. These conelusions, which were read by Dr. Ord, the Chairman of the Committee, will be found in full at page 1162. It is nearly four years sinee thia Committee was appointed, during the presidency of Sir Andrew Clark, and the labour has been enormous. The whole question has been investigated in every way that could tend to throw light on this complex subject, and the result has been the volume shartly to be published, which will be found a mine of information coucerning myxedema and its immediate congeners. The name of the Chairman of the Committee, Dr. Ord, will henceforth be indissolully associated with the literature of myxedema, in conjunction with that of Sir William Gull, who, some fifteen years ago, first accurately described the clinical features of the disease, though the name which he applied to it has since been altered. Altogether, the 'Society, and British medieine generally, are to be congratulated on the completion of this most important work. By it the relationship subsistiug between myxoedema and disease, or absence of the thyroid gland, seems to be placed beyond all doubt, though the ultimate cause of the loss of function of the thyroid gland has not yet been determined.

## THE MEDICAL DEFENCE UNION.

Thrs nseful union of medical men has been reconstituted, and is now entirely controlled and aiministered by medienl men, whilst it seems calculated to be able to fulfil the defensive requirements of members of the profession. Mr. Lawson Tait is the President, und the Vice-Presidents and other members of the Council are well-known men, practising in various parts of the United Kingrlm . One of the new articles of association states that:-"The Council may, after due investigation, undertake the conduct or defence of, or assist in conducting or defending any proceedings, whether of a strictly legal nature or otherwise, concerning or affecting any member of the union who may desire their assistance, pmviding that the cause of action, or of the proceeding, or
the action or the proceeding, have not arisen or been commenced prior to the date of the commencernent of his membership of the union." Only those actions, therefore, which originate after the date of membership can be undertaken by the union. That some . society of the kind has been needed seems to be generally admitted, though there is probably some diversity of opinion as to what sort of association it should be. Thore are now 449 members of the Medieal Defence Union, to which large additions should he made, that the society may be the better able to pursue succossfully its career. Besides conducting the defence of its members against any legal proceedings, the union will endeavour to suppress unauthorised practitioners by their prosecution. The subscription is fixed at ten shillings a year, and a call on the members to contribute funds for the purpose of the union, in proportion to the guarantee of each, is liable to be madc. The name of the secretary is Dr. Leslie Phillips, 393, Moseley Road, Birmingham.

## THE THYROID GLAND IN GRAVES'S DISEASE.

 Recent investigations have given probability to the hypothesis that some, if not all, of the symptoms of Graves's disease are to be traced to derangement of the functions of the thyroid gland. The enlargement of this gland is an early symptom, thongh not generally the earliest, being preceded by some acceleration of cardiac action, and it is, on the whole, doubtless more probable that both are dependent on some one cause than that either is the consequence of the other; the possibility that the anemia and other symptoms of cachexia may be due to the thyroid lesion ought not to be overlooked. Cases have been recorded within the last eight or nine years in which the symptoms of Graves's disease hava been observed to disappear after an operation on the gland ; to this limited series Dr. Gauthier, of Charolles, has contributed a sixth (Lyon Médical, Iviii, 22). In this case a cyst developed after four years and was tapped; the operation was followed by intense inflanmation and suppuration, but the patient recovered freed from all the symptoms of exophthalmic goitre, except soma cardiae palpitation. Though the cure was not permanent, the patient being as bad as ever seven years after the operation, the ease is extremely interesting in the connection above referred to,
## THE GERMAN EMPEROR.

Whnist the whole civilised world must rejoice at the relatively favourable turn which the malady of the German Emperor has recently taken, it is important from every point of view that the true significance of the facts should be clearly understood, and that hopes should not be excited which are doomed to disappointment. The illustrious patient has, no doubt, recovered to a considerable extent from the severe local inflammation which not long ago caused him so mueh suffering, and even placed his life in jeopardy; and this result is, of course, in itself highly satisfactory. It may be well, however, to remind the public that this distressing complication was after all only an accident of the disease, the essential nature of which remains unaffected by its disappearance. The negative result of Professor Virchow's last mieroseopic examination is of no elinical importance, as the eminent pathologist would no doubt be himsclf the first tn admit : and we aro sorry to have to say that hardly any greater weight can be attached to his reported failure to deteet any glandular enlargement in the Emperor's neek. Apart altogether from the fact that in this, as in other cases, there may be secondary deposits in glands too deeply situated to be felt, it is not by any means the rule for malignant disease beginning within the larynx to affect the related lymphatic glands. The statement attributed to Professor Virchow by a lay conteniporary that he could nows say positively that the disease is not cancerous is simply incredible. Medical men, who are accustomed to have their clearest utter-
auces misinterpreted and distorted in the most grotesque way, even by exceptionally intelligent persons, will have no difficulty in understanding how such a misconception might arise without in the least impugning the good faith of the reporter. Such misstatements, however, obtaining as they do the widest currency on the authority of journals which, in all ordinary matters, are entitlerl to the highest respect, do harm ; and in calling attention to a particularly flagrant example, we think it our duty to protest against the gross carclessness, or rather, utter recklessuess, with which medical subjects are too often treated in the general press.

## recent observations on tuberculosis.

Tire stimulus given by Koch's discovery of the tubercle bacillus to a closer clinical observation of tubercular affections bas resulted in a clearer understanding of some of the exceptional manifestations of tubercular disease. One of the most interesting additions to our knowledge in this respect is the proof, which is being continually strengthened by fresh observation, that the so-called dissection, anatomical, or post-mertem tubercle is really a manifestation of local tuberculosis, acquired by inoculation. Finger has lately published a case in which a man who had tubercular disease had suffered from five of these dissection warts, which preceded the development of general tuberculosis, and in which microscopical examination showed the tubercie bacillus. Steinthal (Monat. f. Prakt. Derm., 1888, p. 437) relates the case of a woman who was inoculated with tubercle on the skin of the hand through washing the clothes of her phthisical husband. Meyer (Ibid., p. 283) has related a case in which a child was infected with local tuberculosis of the genital organs by the wound made in the rite of circumcision being sucked by the operator, who was the victim of tubercular disense; and at a recent meeting of the Medical Society at Copenhagen Dr. Salomon, sen., stated that he also had obserred cases of tubercular infection produced in the same way by ritual cireumcisers who practised suction. On aeconnt of the dangers of the transmission of syphilis and tubercle in circumcision, Dr. Salomon, sen., adrocated that the rite should be performed under precautions laid down by the authorities.
the croonian lecture of the royal society. Tus lecture was delivered in the Theatre of the Royal Institution on Monday, May 28th, by Dr. W. Kühne, Professor of Physiology in the University of Ileidelberg, who selected for his subject The Cansation of Vital Movements. After briefly reviewing the ideas usually held regarding the phenomena of life, he proceeded to show the functional as well as the morphological unity of all living matter. He showed that the cause of protoplasmic movements could only be internal, residing in the contractile substance itself, and could only consist of chemical processes taking place within the mass itself; and experimental researches had shown that there was a striking agreement between the irritahility of protoplasm and that of muscle. The transition to the very highly-developed motor apparatus which distinguishes the animal kingdom from almost its lowest stages, namely, the bicellular apparatus consisting of sejparate cells united together for one purpose, one of which presents the exciting nerse, the ot ber the obedient muscle, was tracel. Some beautifully-prepared specimens were exhilited. showing that the termination of nerves in muscles was localised, aud that the endings did not pervade the whole muscles. I'ortions of muscles free from nerves were demonstrated to twitch when stimulated. It appears that contact of the muscle-substance with the non-medullated nerve suflices to allow the transfer of excitation from the latter to the former. In order to answer the questiou whether one muscle can excite another, the lecturer gare a remarkable experimental proof that one muscle must have excited a second electrically.

ETHERISATION: AN UNRECOGNISED DANGER.
IT is not uncommon to read at the end of the description of some prolonged operation a statement to the effect that when the patient was put back into bed it was found necessary to use several hot water bottles to restore heat to the chilled surface; the fall of temperature which has impelled surgeons so constantly to resort to this expedient has been generally attributed to the combined effects of exposure during the operation and shock. Dr. H. A. Hare, of the University of Pennsylvania, has pointed out (Therap). Gaz, May, 1888) that another factor must be taken into account. Obserration on patients in the University llospital showed that the difference in the rectal temperature before and after, operation might amount to as much as three degrees, and a comparison of the effects observed after various operations appears to prove that the whole of the effect could not be attributed to shock and exposure, but that a large, possibly the greater, part was due to ether, which was the anæsthetic used. This view found confirmation in the result of some experiments on dogs: by continuous etberisation for an hour, giving five drachos of ether every five minutes after the animal had been brought thoroughly under the anesthetic influence, the normal rectal temperature of the dog was reduced as much as from $8^{\circ}$ to $10^{\circ} \mathrm{F}$. Dr. Mare's inquiry suggests that it would sometimes be well for surgeons to combat this antipyretic action of ether by warm applications during the time that the patient is on the operating table.

## SCOTLAND.

Professor Wthltam Stirling, of Victoria University, Manchester, formerly Professor of Physiology in Aberdeen C'niversity, has been appointed Thomson Lecturer in the Free Church College, Aberdeen, for the session 1888-89. The subject of his lectures will be The l'hysiology of Nutrition.

## SUICIDE BY SWALLOWING SULPHURIC ACID.

A second case of this form of suicide has happened in clasgow. The attempt, however, has not as yet proved successful, as the patient, a man of about 40 years of age, was promptly submitted to treatment in the Royal Infirmary, and has now partially recovered from the immediate effects of the poison. It is altogether unprecedented that two cases of this uncommon form of suicide should have been admitted to the Rogal Infirmary within one week.

## health of glasgow.

Dr. J. B. Russeld's usual fortnightly report to the Ilealth Committee of the Town Council notes as a remarkable fact that no death from fever had been recorded in the fortnight. In the preceding two weeks there had been three. Dr. Russell had gone back over his records as far as $18 \% 2$ without discovering another example of a fortuight without a single fatal case of typhus, enteric, or undehned fever.

## THE EDINBURGH UNIVERSITY UNION.

The Edinburgh University Students' L'nion is fast approaching completion, aud a further effort is on foot to present the building to the L'ni versity free of debt, with which, in spite of the gallant efforts at the Fancy Fair, the undertaking is still encumbered. The latest move has proved a great success. The Theatre Royal was engaged for three nights of the week, and anateur thentrical performances of more than ordinary merit were given by the students and their friends. The pieces reudered were "Our Boys," "The Serious Family," and "Round the Corner." The audenee was numerous and most enthusiastic.

## THE EDINBURGH STUDENTS AND THE BOLOGNA

 OCTOCENTENARY.The: Students' Representative Council of Edinburgh University recently approached the Senatus Academicus, with a riew to obtain the countenance and assistance of that body in conncetion with the sending of a student representative to the commemoration festival at Bologna. The Senatus has cordially acceded to the students' request, and has granted a sum of twenty guineas towards the project. The Council has nominnted Mr. Constnble, one of their number, to be representative.

## GLASGOW POOR CHILDREN'S: FRESH AIR FORTNIGHT.

Turs scheme is now in full operation. On April 25 th the first detachment of children left Glasgow for a fortnight's holiday, and on May and a second party was despatched, the total number of children being 250. It has been decided to continue boarding out the children with respectable cottagers, as a preferable arrangement to building a bome. The applications for the benefits of the scheme are already numerous.

GLASGOW CHARITY FOOTBALL CUP FUNDS.
The Committee of the Glasgow Charity Cup met in Glasgow on May:-Ith, and distributed the funds raised by the season's matches. A total sum of $£ 1,050$ was divided among the various charities, of which the Royal and Western Infirmaries received each $£ 100$, Ophthalmic Institution £40, Eye Infirmary, Ear llospital, and Sick Children's Ilospital, each £20; Maternity Hospital, Blind Asylum, City Orphan 1 lomes, and Broomhill Homes for Incurables, each $£ 30$; conralescent homes received $£ 105$, institutions for the deaf and dumb £45, Dispensary' for Skin Diseases, Anderson's College Dispensary, Glasgow Medical Dispensary, Children's Fresh Air Fund, Society for Prevention of Cruelty to Animals, each £10; and similar sums were awarded to a large number of other institutions. The total sum now distributed by this Committee reaches nearly $£ 8,000$.

## GLASGOW OBSTETRICAL AND GYNFECOLOGICAL SOCIETY.

Ar the meeting of this Society on May 23rd, Dr. I. McIntyre showed an electric lamp that could be used with the raginal speculum. A small, easily adjusted holder was fastened on the outer rim of the speculum, and the stem of the lamp inserted into it. The lamp could then be moved up the speculum as far as necessary. Dr. McIntyre also demonstrated, with the aid of an artificial bladder, Leiter's cystoscope for illuminating and examining the interior of the bladder. Dr. R. Pollock exhibited Allen's uterine dilators, and read notes of two cases in which they had been successfully used:-(1) removal of a dead child retained in utero: (2) a case of placenta previa. The special advantage claimed for the dilators was that they could be introduced in the undilated condition of the os and cervix. The l'resident (Dr. Wallace) then gave an interesting account of a recent, risit he had made to the clinique of Dr. Apostoli, l'aris.

## ST. ANDREW AMBULANCE ASSOCIATION.

Ture stall of this Association at the Glasgew Exhibition is one of very considerable interest both to the profession and the public. It is fitted up with the waggon, litters, stretchers, and apparatus used and provided by the Association for first aid to the injured. These are admirable alike in design and workmanship. Specia! notice may be made here of the hiuged pit-stretcher with cover, lately designed to mcet the provisions of the Coal Mines Regulation Act, 1837. On this streteber the patient may be strapped down-the trunk, arms, and legs being strapped independentlyand so conveyed up from the pit bottom in either a vertical, a
horizontal, or a sitting posture. The stretcher is also fitted with forked feet, so that it oan be placed on ordinary hutch axles and wheeled along the underground rails. The Association has now been in existence for six years, and has earned a widespread reputation for usefulness. It has centres in nineteen towns and districts, chiefly in the West of Scotland, and by means of the classes taught around these centres it has given ambulance instruction to over 18,000 persons. It has also provided eightcen beautifully-equipped ambulance-waggons, and placed them at the call of any person by day or night, whencver an accident occurs, free of all cost and responsibility.

UNIVERSITIES (SCOTLAND) BILL.
Trie Students' Representative Councils of the Universities of St Andrews, Glasgow, Aberdeen, and Edinburgh have prepared a memorial for presentation to the Government respecting the Scottish Universities Bill. In this petition the memorialists pray that the Bill should be amended by providing for increased student representation in the University Court; by providing for student representation on standing committees; by defining the relations between the Commissioners on the one hand and the Students' Representative Council and the students generally on the other; by defining the relations between the Council and the Court and between the Council and the Senate; and by referring to the consideration of the Commissioners, the body by whom professorial appointments sloould be made.!

## GLASGOW UNIVERSITY.

THe new clock and bells erected in the tower of the University have now been completed. The clock is on the same principle as that of Westminster, and has been erected under the superintendcuce of Canon Cattley, of Worcester. The frame of the clock is of cast iron, $6 \frac{1}{2}$ feet long, 2 feet wide, and $1 \frac{1}{2}$ foot deep, and rests on beams built into the tower wall to prevent vibration. The whole of the wheels are of gun metal, and the pinions and arbors are of the hest steel. The clock has three parts: the going portion, the striking, and the quarters. The hammer which strikes the hours weighs 120 pounds, and is lifted 10 inches. The main wheels of the striking gear are 20 inches in diameter. The pendulum is compensated for variations in temperature. It beats $1 \frac{2}{2}$ secoud, and the bob weighs 3 cwt . When it has been completely regulated the error shonld not exceed 2 seconds a month. An automatic apparatus stops the striking of the quarters during tho night, and starts them again in the morning. The clock is not at present provided with dials, but provision has been mado for their addition at any future time. They would be 11 feet in diameter. The total weight of the clock is $2 \frac{1}{2}$ tons.

## IRELAND.

## BELFAST SOCIETY FOR PROVIDING NURSES FOR THE SICK POOR.

THe annual meeting of this excellent Society was held on May 23 rd , in the hall of the Young Men's Christian Association, under the presidency of Sir James Inalett, Mayor of Belfast. The report showed a slight falling off in the ordinary subscriptions, but substantial amounts had been "receired from bequests and donations. The nurses had during the year attended 871 patients, of whom 19 were cases of cancer, 167 cases of ulcers, abscesses, burus, etc.; 171 cases of phthisis, 99 cases of pulmonary affections other than phthisis, and 138 cases of general debility. The object of the Socicty is te afford continuous and efficient aid to the sick peor who prefer to remain in their own houses rather than remove to a hospital; and it aims at preventing the improvidence and lack of self-respect which are apt to be fostered by indiscriminate alms-
ving. The report mentioned that some ladies had invited several the nurses to spend their much needed holiday at their houses the country, and "commended this example to the attention of her friends of the institution.

## THE GALWAY INFIRMARY.

AST week in the Queen's Bench division, counsel applied on bealf of Dr. Kinkead, of Galway, that the conditional order for a w warranto, granted in December last, ve made absolute, nowithanding the cause shown by Mr. Henry Persse, J.P. The prozedings arose out of an election to the position of surgeon to the afirmary, when Dr. Colohan was elected. It appeared, however, lat several of the electors who roted were not qualified, not har1 g paid the amount to constitute them governors more than welve months previously. Dr. Colohan however serred notice dmitting that he was not duly elected. The court made the conitional order absolute. A new election will now be necessary.

## EPIDEMIC DISEASES.

N epidemic of measles has prevailed in Skibbereen and the adjining district for the past couple of weeks. In the commencerent it appeared to be of a mild type, but last week some bad ases occurred and nine deaths took place. The schools of the arish have been closed to prevent the disease spreading. The utbreak of fever in Abbeyleix Union has not been so serious as ras anticipated, and the disease so far has been of a mild type. he medical officer has complained of the great deficiency of saniary accommodation in the hospital.

## OVERCROWDING IN CORK WORKHOUSE.

N inspector of the Local Government Board has drawn the attenion of the guardians to the fact that there are many old persous a the hospital wards of the workhouse who would be in the inrm wards if proper accommodation existed in the latter. The isiting Committee have accordingly recommended the guardians - proride such accommodation in these infirm wards as would briate the necessity of retaining any inmate in the hospital exepting those who may require nedical care. The medical officers are also pointed out thatoccasionally in the hospital two sick eople have to be placed in one bed.

## royal college of surgeons in ireland ANNUAL MEETING.

He annual meeting of the Royal College of Surgeons will be held n Saturday, June 2nd, and the election of President and Conncil vill take place on the following MIonday. Dr. Fitzgibbon, Vice'resident, will go to the Presidency; and for the Vice-Presidency here are two candidates, Drs. Frazer and Meldon. For the Counil there are several new candidates, namely, Messrs. E. Fitzanurice (Tralec), J. B. Kelly (Drogheda), Conolly Norman, Theodore itack, R. F. Tobin, J. Lentaigne, F. T. Ileuston, J. B. Story. The ubject of the biennial presidency will again be brought forward yr. Thomson, who has given notice that he will propose the ollowing mation:
"That the Comncil of the College having failed to carry into ffect the recommendation of the Fellows adopted at the annual ueeting in June, 1887, namely: 'That it be recommended to the ncoming Council to take the opinion of the Fellows by letter on he question of biennial presidency, as suggested in the resoluions of Cauncil of March 17th, 188\%, and of June, 1883, and that a necting of the College be then called to consider the matter;' it s hereby resolved that the declaration of the Fellows, that a resident of the College may hold office for two successive years e re-afirmed; that this rule shall take effect from June, 1890 ; lat the Fellow who may le selceted as President at the annual lection in that year may so hold his office for two years; and hat it be a recommendation to the Council to take such eteps as aay be necessary to give effect to this rcsolution."

The necessity of some clange which will make the office of President less "cheap" is forcing itself upon the Fellows at large, and the Council has been negligent in not carrying out previous recommendations on the subject. It is not unlikely, therefore, that the motion, or something in its spirit, will be adopted. From the report it appears that the College has a sum of $£ 10,000$ placed on mortgage at $4 \frac{1}{4}$ per cent. and $£ 2,000$ in New 29 Stock. The total expenditure was $£ 5,1827 \mathrm{~s}$. 7 d . A committee has considered the question of appointing a Professor of Pathology, and having reported in farour of that course, the Council has taken steps to obtain the necessary alteration of by-law.

## ASSOCIATION OF MEMBERS OF THE ROYAL COLLEGE OF SURGEONS.

At a meeting of the Central Committee of the Association of Members of the Royal College of Surgeons, held on Thursday afternoon, May 3Ist, the following petition was signed and transmitted to the Privy Council:-

## to Her most gracious majesty the queen in COCXCIL.

The Humble Petition of the Ĺndersigned Members of the Royal College of Surgeons of England shewete:

1. That your petitioners are Members of the said Royal College of Surgeons, and of the Association of Members thereof.
2. That on the 3rd day of May, in the year 1887, a petition signed by four thousand six hundred and sixty-five Members of the said College, including your petitioners, was presented to your Majestys Priry Council, setting ont the claims of the Members of the said College to a just share in the administration or control of the property and affairs of the said College upon grounds of public policy and of equity, having regard to the original constitution, history, and office of the said College.
3. That a deputation of delegates representing a large proportion of the Members of the said College, including also a large number of the Members thereof, attended before Iour Majesty's Privy Council on the 11th day of Norember, 1887, in support of the said petition, and conreyed to the Right Honourable the Lord President their request to be heard by counsel in support of their said petition, if Your Majesty should not otherwise be adrised that their claims ought to be permitted.
4. Your petitioners are informed and believe that no communication relative to the said petition has siuce been addressed either to the said Assaciation of Members of the Royal College of Surgeons of England, or to the members of the said deputation, or to the signatories of the said petition.
5 . Your petitioners are further informed and believe that although a copy of the statement made on the eleventh day of Norember, 1857 , when the said deputation was receired, has been submitted by Your Majesty's Priry Council to the l'resident and Council of the Royal College of Surgeons, no answer to the said statement or to the contentions of the Members of the said College has been made by the President and Conncil of the College.
5. Your petitioners have heard with surprise that a proposal has nevertheless been made to the President and Council of the said College signifying an intention to grant a supplementary charter limited to certain points in which, so far as your petitioners are informed, the aforesaid claims and rights of your petitioners are not recognised in any way ; but, on the contrary, the existing elements in the constitution and administration of the said College against which your petitioners and the Members generally* protest will be further strengthened.
7 . Your petitioners therefore humbly pray that Your Majesty will be graciously pleased to refer the matter in this present petition, together with the said petition signed by 4,665 Members of the said College hereinvefore referred to, and the statement submitted on the eleventh day of Fovember, 1887, for the consideration of Your Majesty's l'rivy Council, or some of the members thereof sitting in judicial capacity, with power to hear all parties interested in the matter of these said petitions by counsel and otherwise; and to receive eridence thereon, and humbly to advise Iour Gracions Majesty in the premisses as to Your Majesty may seem fit. Aud your petitioners, as in duty bound, will ever prey.

THE AMERICAN MEDICAL ASSOCIATION. Tus thirty-ninth annual meeting of the American Medical Association was held in Cincinnati, Ohio, on May 8th, 9th, 10th, and 11th, and was well attended. The Association was welcomed by the Mayon, and also, in the name of the medical profession, by Dr. C. G. Comegys, who referred at length to the services rendered in the early part of the century by Dr. Daniel Drake, who had been instrumental in the creation of the Medical College of Ohio and of the Cincinnati Jlospital.

President's Address-The l'resident, Dr. A. I. P. Garnett, of Washington, delivered an address in which he made certain proposals for improving the present standard of medical education in the United States ; a radical and thorough reform was needed, for though facilities for education were excellent the systems of study were defective, and the preliminary education of students was insufticient. The ratio of practitioners of medicine to the population was 1 to 580 , which was greater than in any other country in the civilised world. He suggested the formation of a committee, with members from every State, in order to bring pressure to bear on local legislatures, and to promote the establishment of a Board of Examiners in every State.

Address on Medicine.-Dr. Roberts Bartholow, of Philadelphia, delivered an address, during the course of which he observed that the science of therapeutics was hindered by the unnecessary complexity and superfluity of pharmacopeial preparations. He recommended more extensive use of the alkaloids as affording singleness and simplicity of action: jaborandi, for instance, contained two alkaloids, pilocarpine and jaborine, with dissimilar actions, and when the crude drug was prescribed there was not the same certainty of obtaining the desired result as when the alkaloid was prescribed; opinm and nux vomica were also quoted as examples of this. In conclusion, be referred to the effect of the galvanic current on congestion and on the products of inflammation (as in stricture). He considered the electrolytic method full of therapeutic promise.

Address on Surgery.-Dr. E. M. Moone, of Rochester, New York, who delivered the Address on Surgery, after some general remarks on the modern metbods of treating wounds, the bloodless method of operating, and the application of the aseptic principle to abdominal surgery, quoted Volkmann's statistics of compound fracture of the leg, which showed 339 deaths in 885 cases in civil hospitals before the introduction of the antiseptic system, and 75 cases treated since its introduction without a death. He discussed the treatment of compound dislocation of the ankle, and expressed the opinion that amputation was seldom necessary. He recommended continuous irrigation with warm water as a most effective means of preserving the vitality of the contused soft parts; the malleoli and their attachments to the astragalus should be preserved if possible; the parts should be immobilised in plaster-ofParis at first, but very delicate passive movements should be begun early and continued systematically; in this way the movements of the joint would in most cases be perfectly preserved. Referring to the treatment of caries, he strongly re zommended the employment of hydrochloric acid ( 1 in 20), which he had beeu led to regard as one of the greatest advances in surgical therupeutics.

Address on State Medicine.-The address on State Medicine was delivered by Dr. II. P. Walcott, Chairman of the State Board of Health, who sketched the history of that Board since its establishment in 1860. During the period that the Board had been in existence the zymotic death-rate had declined from 25.6 to 19.0. Ovariotomy was justly regarded as one of the greatest triumpha of Imerican surgery, but by comparing the annual death-rate of Massachusetts from ovarian dropsy with the reduction effected in a single town by an efficient Board of IIealth, he showed that the adoption of sanitary reforms in a community of 30,000 people had saved more lives annually than could have been saved by the operation of orariotomy in the aame period in a State containing two million people. He strongly urged the creation of a strong and eflicient central health authority, the National Board of Health haring been allowed by the neglect of Congress to fall into a state of hopeless lethargy.

Intestinal Surgery.-A series of interesting papers on intestinal surgery were read in the Section on Surgery and Anatomy.-Dr. 1. S, McMrerthy reported a case of typhlitis in which laparotomy was performed: the crecum was found to be gangrenous in spots, and lisces had become extravasated. The edgea of the perforations were trimmed, the openings were made elliptical in shape,
and then closed by suture. The patient, who was a member of the Association, made a good recovery, and was present at the meeting.-Dr. Gross (Philadelphia) advocated early operation, and thought that in ambulatory typhoid with perforation operation afforded a fair chance of life.-Dr. Senn read a paper on rectal insufflation with bydrogen gas as a means of ascertaining the existence of injury of the gastro-intestinal cansl by penetrating wounds of the abdomen. Hydrogen gas was perfectly innocuous and unirritating, and when injected into a serous cavity or collnective tissue was rapidly absorbed. In man a pressure of from one-third to two pounds was sufficient to effect the passage of the ileo-ciecal valre, and the gas could be made to pass the entire length of the intestinal canal from the anus to the mouth. Wounds of the stamach could be diagnosed by inflation from the mouth. The gas was slowly injected from a rubber balloon holding 16 litres. A demonstration was given on a dog which was wounded in the abdomen with a pistol: the presence of the gas was recorgnised at its points of issue (mouth or wound) by ignition.

Apostoli's Method.-Dr. F. H. Martin read a paper in the Section on Obstetrics and Gynæcology on the value of galranism in the treatment of fibroid tumours of the uterus according to Apostoli's method. He said that small tumours might be completely absorbed by the application of strong currents, and that hæmorrhage might be promptly cured by the local coagulating effect of the positive pole applied to the interior of the uterus: accompanying severe neuralgias were relieved by three or four applications. Except in cases where hemorrbage or excessive leucorrhoa existed, he considered that the intra-nterine electrode should be in all cases negative. He governed the strength of the current by the area of the intra-uterine electrode, and recommended 23 milliampères for each square centimètre of active surface. Each sittiag should last five minutes when the maximum current was employed, and the applications should be intermenstrual. Since the adoption of the flexible intra-uterine electrodes and Dr. Apostoli's raginal galvano-puncture, extra-uterine puncture was only advisable, if at all, as a last resource. Whert every effort to enter the cervical canal failed, it was justifiable to make a negative galvano-puncture in the presenting part of the obstructing mass so as to form an artificial canal, which took the place of the impermeable canal in the future treatment. He antiseptic, and that the vagina before a vaginal puncture was made shonld be thoroughly wiped out with bichloride solution ( 1 in 3,000). The method when carefully applied need not be, in his opinion, either painful or dangerons to life.-Dr. Marcy (Boston) considered the method most important, and had used it during the past winter with much, though not unqualified, success. -Dr. A. 13. Carpfanter (Cleveland) advised that a small dosage should be used at first, and that patients should be required t" rest for an hour at least after the application.'

## THE NATIONAL HEALTH SOCIETY.

A numerously-attended meeting of the National Health Society was held on Monday afternoon at Grosrenor Mouse, under the presidency of the DL'RE of Westminster, for the purpose of distributing certificates of proficiency to the 250 successful candididates, principally ladies, in the ambulance and nursing classer. Among those present were the Duke and Duchess of Westminstor, Sir T. Spencer Wells, Sir James and Lady Crichton Browne, Jr. Ernest IIart (the Chairman of the Society), Dr. Farquharson, M.I'. and others, who filled both the great rooms.
The Duke of Westminster said the National Health Society could not be measured in its importance by the amount of peciniary support it had received, for that was of a very sleuder nature. The Society had been of great use not only for the actual work in which it had been engaged, but also with regard to the way in which it had fostered the interest in the whole question, and had stimulated others to establish the Sanitary Aid Association and other associations of a similar sort. They wer making, he said, a good start in connection with the Queen's.
Jubilee Fund. The amount of money was not very large, but li. Joped they might effect a lodgment in St. Katharine's Hospital, which, though now a rery useless institution, would, he trusted (and the Queen had expressed her willingness in this direction), eventually be a great centre, and that its funds would be devoted
to establishing and training nurses for the sick poor. Iis Grace

For most of theae parlicnlars we are inteleted to the telugraphic report putr Hished lin the Medical hecord of New York.
teluded by expressing his willinguess to place a site in Bucking$m$ Palace Road at the disposal of the Society, which would be ailable for the purpose of a model sanitary building. The cercates were then distributed by the Duchess of Westminster. Ir. Brnest Hart, the Chairman of the Society, in proposing a te of thanks to the lecturers, among whom lie mentionerl Dr. hofield, Mr. Owen Lankester, Mr. Edgar Willett, Dr. Gell, Miss mersham, Miss Barnett, Dr. Parry Jones, Dr. Jessop, Dr. B. Bonnor, Mrs. Shiel; and, among those in the provinces, Dr. mbyy, Dr. Crossman. Dr. Dove, Dr. Roberts, and Dr. Prosser ite, referred to a fear to which utterance had been given a medical paper that those students who had passed -ough the courses of Natiounl Health Society lectures glit, on the basis of such instruction, be tempted to regard imselves as fully trained nurses, or perhaps even as medimen or medical women. He wished it to be clearly umstood that such was not their desire, and those who had jened to the teaching knew it was no part of their programme attempt to give in that course anything like a technical prosional education. There was no rivalry between their ambuce and that of the St. John Ambulance Association. They proded on parallel lines, but nowhere met. Mr. Hart referred to ; absence of even a rudimentary knowledse of physiological ence from school teaching, a defect which in Board schools this :iety was doing something to remedy.-Sir Spencer Wells onded the resolution, with words of warm commendation of scope of the Society's teaching and of its efficiency. IIe was 11 acquainted with the excellence aud valuea of the lectures. rong the ladies who came up for certificates was Miss Wells. 3r. Schofield, in replying for the lecturers, recommended candidates to take mi, a course of lectures on domestic siene which, in view of the lact that it was believed that rly 250,000 people died anmually from prerentable disease this country, was of far greatcr importance than domestic sing.-Dr. Gell spoke of the high standard they insisted uld be maintained by the candidates.-Mr. Owen LanSTER said the thanks of the Soclety were due to those ies on whom the success of the lectures so much depended. stated that, so far from the ambulance work of their Society ag regarded as being in rivalry with that of the St. John Amance Association, the latter society had expressed themselves lighted that the Society had taken up so good a work.
ir Crichton Browne, in proposing a vote of thanks to the Duke 1 Duchess of Westminster, said there was no society to which y gave their generous aid nore worthy of encouragement n the National Health Society. The best way to preserve Ith was to prepare for disease, and many of the ills that h was heir to might be avoided by a little kindly foresight. was the supreme duty of every man, woman, aud child, to ke the best of their opportunities. Our list of diseases inased as civilisation advanced.-Dr. Farqeuarson, M.P., onded the motion.
he Duke responded, observing that the huchess was perhaps lificd for the distribution, inasmuch as she herself held a cerrate.
rote of thanks to the Secretary closed the proceedings.

## 'IHE RABHIT PEST IN AUSTRALASIA.

idea that the ouly offectual means of checking the rapid in-- ise of rablits in Australia must be sought in some of her form ife is an ohl one: at lirst it was projnsed to introduce anis such as cats, ferrets, ond stoats, which prey upon rablits, as might have been forescen, vuder the contitions of the hem, this scheme has proved quite inalequate. The predatory nals increasell and multiplied, and preyed upon the rolents, the latter increased and multiplied still faster, and more than d their serried ranks. The ilear that some form of infertions ase, capahie of self-multiplication, might be utilisend to deI $y$ the rabhits on a large scale semm to have suggesten itseif veral persons imberendently. The first suggestion made, to e use of the virns of tuberculusis, was miversally felt to he fetive, hecause if failed to meet the primary condition that disease virus usen lor the purpase must hn incapable of ining hman beings or stock animals.
enislative Arlimo-11. Pasteur's appearance as a rompetitor he prize of fis.0n for the discovery of a means of eatermiag the peat has somewhat precipitated unatters, and the Legise Assembly of New South Wales has found it necessary to
take action. The official papers printed by order of that Assembly ahow that three proposals have been formally made, and that the investigation of two had already beeu commenced before M. Pasteur's ן jroposal was received.

Rabbit Scab.-The carliest secms to have been that made by Frofeasor Watzon, of the Adclaide University. He proposed to introduce a form of itch to which rahbits are liable; if untreated it is stated to be a serious disease leading in time to glaudular suppuration, and death from septiciemia and exhaustion. As, however, the disease runs a prolonged course, it causes much suffering to the animals, and the proposal is open to the charge of umnecessary cruelty ; moreover, it is possible, if uot probable, that sheep might become infected. On the whole, it is not surprising that the report. of Mr. Edward Stanley, the Government veterinarian for New Sonth Wales, who went to South Australia to observe the experiments which were in progress, was, on the whole, unfavourable to the proposal. Auother scheme. proposed by Drs. Ellis and Butcher, is, as the report of the New South Wales Board of Health points out, wanting in precision, but the leading idea, to study any spontaneous outlireaks of disease among rabbits in crowded warrens, is sound: it might be comparatively easy to favour the spread of such a disease.
II. Pasteur's Scheme.-N. Pasteur's proposal, formally made in a letter dated from Paris on January 8th in this year, bas already been fully detailed in these columns; it is founded upon the oliservation that rabbits are extremely susceptible to fowl-cholera. the rirus of which can be easily cultivated. It was this microbe in which M. Pasteur first observed that diminution of siruleuce under epecial conditions of growth to which he applied the term "attennation." The microbe has one advantage for the purpose in riew, since it is easily destroyed by prolonged exposure to the air. or to moderate temperatures. The disease is easily communicated to rabbits hy soaking their food in fluids in which the microbe has becn grown, and it would seem that it rapidly spreads in the warrens. The New South Wales Board of Health, in reporting upon M. Pasteur's scheme, has taken the same riew as was expressed in this Joursal when the proposal was first made public; recent resenrches in bacteriology, and especially those of M. Pasteur himself, slow that clearer evidence than has yet been adduced is required to prove beyond doubt that the introduction of this rirulent disease might not directly or indirectly produce, among human beings, disastrous results. as yet unsuspected; the Board truly observes that if it were to be found that such injurions results followed either to human beings or to stock animals, it would then almost certainly be berond the power of any authority to remedy the mischief which had been done. If the scleme is to be tried, the plan proposed by Dr. Camac Wilkinson, of Sydney Unirersity, in an excellent letter (certain personal references apart) addressed to the Board of Health, ought certainly to be adopted. He suggests that a suitable island should be chosen, stocked with rablits and every form of usefnl animal found in the colony, and that M. Pasteur's method should be npplied to this isolated community; the methol would thus he testedl with some approach to scientific precision, and the results of the experiment, which we have reason to believe will be made, will he awaited with great interest.
Intercolonial Commission,-An Intereolonial Rabhit Commission has been appointed; the members of the merlical profession upou it constitule a majority; they are : for New South Wales. Dr. NacLaurin (President of the Board of Health), an! Dr. C. Wilkinson, M.LA. ; for Victoria, Professor Allen: for sonth Australia, Drs. stilling and Paterson; for Queensland, Dr. Bancroft. New Zealau! is also represented on the Commission.

[^76]
## ST. JOLIN'S llOSPITAT

It the annual General loart of Goveriors of the St. John's IInsןital for Disenses of the Skin, held at the Criterion on Thursday, Lient.-Colmel Mencres, who, in the absence of a rice-presilput (the hospital being at the present moment without a president), took the chair, expressed himself very satisfied with the present condition of the affaits of the institution.

Thesecratanv read the report, which stated that there hat been ar reduction in the debt of the hosjital of orer $£ 300$, and an increase of patients. Reference was made to the three actions against newspapers now pending, ou which Mr. Alderman Goclo stated as they were subjudice they were compelled to be silent. lieference was male to a circularsigned hy Messrs. IF. J. Raymond and Samuel IItl, IIonorary Secretarie's of the Investigation Committee, and sent to the Governors, advising those who had the true interests of the hospital at heart to hold aloof until the inquiry instituted had been completed. Attention was ealled to the question asked in the llouse of Commons as to the "wilful misapproprintim of funds " of the hospital.
Mr. Gotw observed that the only charges made against the hospital were those of discrepancies in the accounts. The llome Secretary had written to the authorities for an explanation, which he receired, and haring inquired into the matter, he replied that he could discover no reason which would jnstify any interference on his part.

The report was carried with two dissentients. The Duke of Teck tras elected President of the llospital, and a Board of Management, consisting of nine old members, eight new members, and a representative from the subscribing lodges of the Foresters and Oid Fellows was elected.

## ASSOCIATION INTELLIGENCE

## BRANCLI MFETINGS TO BE HELD.

SnUTh-Wfstery Baniour. - The nnmual mecting of thls Branch will be hold int the Devon and Exrerer Ifospital, Wactur, on Turaday, June 26th, under the prealdency of Dr. John Woodman, F.i.C.S. Notices of motion or commanteations to be intimated to the lonomary Secretary without delny, and it will devilitate armanments if members will inform the Honorary Serretary ay sonu as poasible if they hope to be: present at the meeting. The following moton was passed at the Council Meeting on Mny 2nd:-"That inasmuch ns the annual mecting assumes mort or less the character of a ctuy of recrealfon, and with a view of encoumgiog the rlist riet neetings, the business of the annmal meetlog oland be confinel to the Presitent's address, the lusiness of the Branch, the exhibition of eases or of sperelmens with notes, nut the annual dinater."-1. MaURY IOEAS, Wonforil House, Exeter, Honorary Scerclary.

Blryinginam asn Minhasd Coustifa Braveh.- The anmual murting of this Branch will he hell In the Birmingham Miedienl Institute, on Weinesday, Sune Ifth, at :3.३ P.M.

Ifetropolitan Couvineq Braver,-Preliminary Notice,-Theammal mpeting of this Brangls will ho hed at the Hothorn Reatanmat oll Wednesiny. Junc $2^{7}$ th, at 5,30 P.s. Presjdint, Arthur 16, Durham, Jisq. F. li.C.S. : Presjdent-

 secretaries.
 trict. -The anmual weesing for the election of officers will ho holel at the
 then members anif their [rjends will dine together. A. Fi, Wurhan), Fiaq., President of the Hranch, wlll fresike. Tiekets, ws, weh, exelusive of wine. Nombers
 tary not later ihno Saturday, June 2nd.-J. W. Iftsr, Ifonorary Secretary, 103, Queen's hoad, Dulston.

Hetropolitay Colvtifs Brancit: Somte Losbon District. -The namunl

 weaide. Mr. Frank W, Meddard, Jrospeqor to tho Zonlogimal Soctety nod Davia



 Thekets, tim. each, covelusive of whe. Sfembers athsirons of beiog present are asked in vignify Itwir intentlon hefore Juoet $12 t \mathrm{~h}$, to the IIonorary Seemetary

 will he helit on Tueqliy, June bth, at the St. Marylebone Intirmary, ladbroke

 Members of Comoil of the District, and Representative on Cmmell of the Bmandh. The pesent oflicers of the district, not havines served ma entire vear. will be proposed for reepluction. 3. A paper will he real hy Menry Puwer, Is,



 Ealing.
Sovite Minhanj Brasch.-The amual meeting of the ahove Brabch will the hehl at the Bletchley Park Wotel, Bletchley, on Tharalny, Jume 1.thh, 2 2.45 p.3. The new President, II. Feasey, Esq., invites tho members to luncheon Ht the same place previously to the weeting, from 1.30 to 2.30 r.m... at which nectiog and tuncheon every qualifica medical man will be a welemme Geptronen fecpting the ingition are regucsted to intionate the simue to the Gentlemen aeccpting the invititon are requeste The arrangrements for n com
 having fallen throngh, the iufornal reciprocal bisits of members, to whon it may be couvenieut, at the respertive meetings, would be most agrewable, shi are hereby invited. Agenda:- ''sual business of aumual meeting. Resolut ins m subject of "Fees to Medical Witnesses," etc. Communieation Irom Chsirman of Parliamentary Bills Committee on Sulyject of " Luyacy Arts Amenill
ment lill" (see Jouman, May l2th. p. 1025). Ihe following gentlomen will nent bill (see JounNa, May leth. p. Web). The following genikmen wil be proposed as new niembers of the disocintion Rnd Branch: John Menry
 Esq., and - Weatherles, Esq.. Northampton litirmary, Gentlemen wisi
to read papers for discussion, cases, ete., are requested to send the it les of to read papers for discussion, eases, ete, are requested to send the tit hes of the
same without delay to the undersigned. Tlae followion have hech pronised same without delay to the undersigned. Tlae followiog have hecu problise
Mr. Milligan : Case of Strangulated Umbilical Hernia: Operation for liadi Cure: Recovery. Dr. Jones: Plysical Indications in lleart Affections Goldsmith: A Question as to the Etiology of some Xervous Diseates of Chil drea. Mr. Bull: Obscure Abdoniual Tumour: Abdominal Section: Recorery Mr. Erins : The Royal Colleges and the Suciety of Apothecaries.-C. J. Honorary Secretary, Northampton.

Midland Braveh.-The annunl meeting will he held at the Masmic Ilall Notingham, on Thursday, June lith, at 2 P. M. After the transitction of the usual business raproposition to amend lute 6 will be bid before the mecting. Prpers, etc.: Mr. Eilgar M. Crookshank: On the Alleged Origirn of Ce Diseases from the Lower Animals. Ar. Fhank Fope: Shom Bone Fonecps Sequest rotomy. Dr. George Filder: Remarks on Cases of Peritonitis treaten br Abdominal Section. Dr. II. Handford: The Influence of Position on Car diac Murmurs, and on the Trentament of Heart Disease. Mr. Frank 11 will exhibit a paticnt on whom he has operated for Cataract of Each 1 different Methois. Luncheon will be provited by the President-elect, place of meeting, at I ocluck. The dinner will also take place at the Masmi Hach, at 5 o'clock. Tickets, is., exelusive of wine.-W. A. CARLINE, M.II., Honorary Secretary and Treasurer.
 of this Branch is appointed to be held at. Fity on Fringy, Jals Gith. Memlxn wishing to make conmunications, to exhibit sperimens, or to propose members are requested to signify their intention to Dr. Ammingson. Caman Secretary.

South-Easterx Brance: Fast Susaex District.--The next meeting we held in the board-rom of the hospital, at 11astings, on Tuesday, Jume Iet at $3.30 \mathrm{P} . \mathrm{M}$. Dr. Bagshawe will preside. The following pmpers are promish The Chaiman: A Case of Clyylurin. Mr. Thechurst: A Caso of Adrlis Dicense, with a lare Form of Skint Thifourd Jones: Mercury as a Diunet
 of wine- T. J wisielt Vkrahal, Honerary Secretary, 97 , Montpeliter head Brighton.
 of this Braull will be leeld nt the Iotirmary, Camliff, on Wealnesiny, Jwhe 272 Jourtber parficulars in cirenlars. Dembera wishing 10 reaty pabcers, me

 helu in the Mushum of the Korkahire Philusophical Socicty ut lork on Wewt




Soutirns Braver. - The fiftemnth annunl meeting will taki flace nt us Groswenor Jotel, Oucenskate, Southscat, ou Thumalay, Jume Ifth. Dhe fenem

 the liy-laws, two gentlemwn will be rleled at this meeling as Represestative of the Branch on tho Counetil of the Assuclation tor tha ensuing satr. whless will be alellvered by the I'residmenterlett nt 2 Vo. M.

 ptc. The Committere request that those pent lemuen wlo intemito be pracut the dimur will grusl int thelr mames on or lefore Wiodnesulay, June 13th.-

 this Branch will be held at the Mealical Inatitution, IVopu Strect. IIveryon,

the new President．The new President＇s Address．The Report of Conncil． the new Presidentearers：President－Filect，Vice－Presidents，Ifonorary Secre－ tary．Election of lepresentatire Alembers on the Council of the Association． Election of new Comucll．Choice of place for holding next annual meetiag． Flection of two members to serve on the Parliamentary Bills Committec． lilection of two nembers to serve on the darliamentary broposed to make a Grant to Lipsom College ：Notice of Motion：It kill be proposed to make a Innation of twent 5 －five guineas to tho lipsom Medical Benevolent College out of the funds of the Branch．Miscellaneous Business．Medieal and Surgical Communications．－Dr．Walter：Notes of a case of Total Extirpation of the I＇terus per Vaginam．Dr．Glyun：A noto on a New Method of Treating Chlorosis．Dr．Johnson Martin ：IJow to prevent Small－pox，and how to spread it．Mr．R．Harrison will slrow the Electrice Endoseope．Dr，Alexander：Hys－ terectomy for Uterine Cancer（patient．）．Mr．Shears：Xerosis of the Conjunc－ terectomy Jor Uterine Cancer（patient．The Use of Stimulants and Narcolics by Women．A small musuum of drawings，photographs，and selected patho－ hy Women．A small maseum of drawings，photographs，ant seleced patho－
locical suecimens．Dimmer．－The members will dine together at the Adelphi Ingical sjuecimens，Dimmer．－－Tickets，7s．each（exclusive of wine）．－CHARLEs E．Giascoty，M．D．，Generni Sucretary，23，Saint John Sireet，Manchester．

SOUTH－EASTERN゙ BR．ANCH：EAST KENT DISTRICT．
Tite annual meeting of the abore District was held at Canterbury on Thursday，May $24 t h$, Dr．I＇Arsans in the chair．

IIonorary Secretarg．－Dr．＇Iyson was re－elected Honorary Secre－ tary for the ensuing year．

Next Meeting．－It was arranged that the next meeting be held at Hythe，and that 1）r．Loregrove be asked to take the chair．

Papers－Mr．Raten rad a paper on Tendon Reactions in IIealth and Disease．Mr．Brian Rigden read Notes of a Recent Epidemic of lleasles，which gave rise to a good discussion，in which 』r．F．Waciuen，Mr．James Reid，Mr．G．Rigden，Mr． Pugin Thornton，Dr．Gogarty，Dr．Bostrfle，Mr．Raven，Mr． Whitehead Reif，M1．Garraway，and Mr．Sidney Wacher took part．

## BRITISH MEDICAL ASSOCIATION．

## FIFTY－SIXTH ANNUAL MLEETING．

Tue fifty－sixth Ammal Meeting of the British Medieal Association will be held at Glasgow，on Tuesday，Wednesday，Thursday，and Friday，August Tth，8th，9th，and 10th，IS8s．

President：John T．Banks，M．D．，D．Sc．（IIon．），F．K．Q．C．I．I．， Regins Professor of Plysic in the University of Dublin．

President－IElect：Professor W．T．Gairdner，M．D．，LL．D．，Professor of Medicine in the University of Glasgow．

President of the Cuuncil：Thomas Bridgwater，M．B．，J．P．，Har－ row－on－the－IIll？

Trcasurer：Constantine Holman，M．D．，J．P．，Reigate．
An Address in lledicine will be delivered by Thomas Clifford dUbutt，M．W．，Consulting llyysician，Lecds General Infirmary

An Address in Surgery will be delivered by Sir Genrge II．B Hacleod，M．D．，Surgeon in Orlinay to Ifer Jlajesty in Seotland．

An Address on lis＂Recent Investigations in Surgery＂will be given by William Hacewen，M．D．，Lecturer on Clinical Surgery， Glasgow Royal lafimary．

An Address in l＇hysioiogy will be delivered by John Gray McKendrick，M．D．．IL．D．，F．R．S．，Professor of Institutes of Medi－ cine，University of Glasgow．

Ill the rooms required for the purposes of the meeting will，by the kindness of the authorities，be provided in the Eniversity of Glasgow．

## Hrmanity Class Room．

A． Medrene－President．T．MeCall Anderson，M．D．Fice－Presi－ dents，R．L．Bowles，M．I）．：George I．Duffey，M．D．Honoravy Sec－ retaries，J．Mc iregor IRBertson，II．D．，400，Great Western Road，Glas－ gow；Robert II．Simon，N．D．，2T，Newlall Street，Kirminglam．

## Chemistry Class lioom．

B．Surgery：－Piesillent，Grorge Buchaman，M．D．Tice－l＇resi－ dents，James Dunloy，M．D．；Charles Robert Tell Keetloy，F．R．C．S． IIunorary Secretaries，David Seilson Knox，M．D．，\＆，Imdia Street， Glasgow：Wralter I＇ye，F．I．C．S．，4，Sackville Street，Iiccadilly， London，W．

Medical Jurisprulence Clasis Room．
C．Obstetric Medicise．－President，Thomas More Madden， M．D．Vice－Presidents，William Leishman，M．D．；J．Ialliday Groom，H．D．IIonnrary Seeretaries，William Walter，M．D．，こ0，St． John Street，Manchester；W．L．Reid，M．D．，T，Royal Crescent， Glasgow．

Greek Class Romm．
D．Public Medrevir．－President，Ileury Dunean Littlejohn， M．D．Jice－Presidents，Jimues Christie，M．D．D．L＇age，M．D．ILono－ rary Secretaries，Fhenezer Duncan，D1．D．，4，Roval Crescent，Cross－ hill，Glasgow；John C．MeVail，M．D．，Holmhead，Kilmarnock．

Hebrew Class Room
E．Psxchologr．－President，James C．Ilowden，M．D．Jice－Pre－ sidents，James Rutherford，M．D．；Julius Mickle，M．D．IIonorary Secretaries，A．R．Crquhart，J．D．，Jlurray House，Perth；Alex． Newington，M．D．，Ticehurst，Sussex．

Anatomy Class Room．
F．Avatomi and Physhology．－President，John Cleland．M．D．， LL．D．，F．R．S．THer－${ }^{2}$ ．esidents，F．J．Anderson，il．D．：Henry R：d－ ward Clark，F．F．P．S．ir．IInnorary Secretaries，John Barlow，M．T．， 27，Elmbank Crescent，Glasgow；Chirles Barrett Lockwood， F．R．C．S．，19，Upper Berkeley Street，Portman Square，W．

Law Class Room．
G．Patuologr．－President，Sir William Aitken，M．D．，LL．D．， F．R．S．Fice－Presidents，Alerander Davidson，M．D．：Joseph Coats， II．D．；Charles Roy，M．D．，F．R．S．Honorary Secretaries，G．Sims Woodhead，M．D．，6，Marehhall Crescent，E゙dinburglı：J．Lindsay Steven，Il．D．，34，Berkeley Terrace，Glasgow．

Midueifery Class Room．
H．Ophthalmology．－I＇resident．Thomas Reid，M．D．Trce－Pre－ sudentis，J．R．Wolfe，M．D．：C．E．Glascott，M．D．Flonorary Secre－ taries，Menry Bendelack Hewetron，M．R．C．S．，I1，Hanover Square， Leeds；A．Freeland Fergus，M．L．，4I，Elmbank Street，Glasgow．

Biblical Criticism Class Room．
1．Otology．－President，Thomas Barr，ML．D．Iice－Presidents， John Astley Bloram，F．R．C．S．；J．J．K．Duncanson，M．D．Hono－ rary Secretaries，Johnstone Maefie，M．1．，23，Ashton Terrace， Glisgow ；James Black，F．R．C．S．，I6，Wimpole Street，London．

## English Literature Class Roon．

J．Disfases of Children．－President，Walter Butler Cheadle， M．D．Tice－Presidents．James Finlayson，M1．D．：Henry Ashhy， M．D．Honorary Secretaries，George S．Niddleton，M．D．，23，Saniy－ ford Place．Glasgow；W．Irbuthnot Lane，M．S．，F．R．C．S．，It，St． Thomas＇s Street，S．E．

Conveyancing Class Room．
K．Pharmacologx año Therapectics．－President，James Morton，M．D．Tice－Presidents，John Dougall，M．D．：Thendnre Cash，M．D．，F．R．S．Honorary Secretaries，Alexander Japier，M．D．， 3，Royal Terrace，Croshill，（ilasmow；Sidney Harris Cox Martin， M．D．，60，Gower Street，London，W．C．

## Divinity Class Rnom．

L．Laryigology and Rhinology．－Presilent，Felix Semon， M．D．Tice－Presidents，George IIunter Mackenzie，M．D．；Peter MeBride，M．D．Honorary Secretaries，D，Nemman，M1．D．，18，Wond－ side Place，Glasgow ：A．F．Garrod，M．D．，9，Chandos Street，Caven－ dish Square

## Programate of Proceenings．

Tuesdar，Atglet 7 the 1 ees．
9.30 A．M．Weeting of $188 \pi-18=5$ Council．Handolph Hall．
11.30 A．M．－First General Meetiag，lReport of Council．Teports of Committees．Bute Hall，
AP．M．－Service in the Cathedral．Sermon ty the Verr Rev．John Caird．D．D．．LL．D．．Vive Chancellor and Prjucipal oi the Vuiversity of Glastow．
S．30 p．Mr．－Adjourned General Jeeting froma 11.30 a．n．Presideut＂s Address．Buto liall．
WEDNFADAF，AUTGUST STH，1EQS
ก． 30 A．M．－Meeting of $1 \times 88-89$ Council．IRandolph！Hall．
10.3 H A．M． $10 \%$ P．M．－Sectional Mectings．

P．M．－Seeoml General Mremit，M．11．，F．1R．S．Bite ILall．
THERSDAY，ACGUST 9Tif，1EGE．
0.30 A．sm－Aharess on his jrecent surgical Investigatlons hy

William Jacer
11 ג．M．－Itecting of Couucil．Rundelph Hall．
10.30 A．M．to 2 B．M．－Secthonal Meetings．

3 p．an－Third Geneml Meetinir．Address in Surgery by Sir George 1I．B．Macleok，M．D．Bute Lall．
i p．m．－Public Dinner．St．Andrew＇s Ilall．
Fhiday．Aluglst 10 th， $1 \mathbb{E} 8$.
10.30 A．3．to 1.30 P．m．－Sectional Meetings．

3 p．as．－Conclading General Meeting．Adareas in Phrainegry by Jolin G．Mekenirjek，M．D．．F．R．S．Bute Ylall．
SATURDAT，Al＇GUCST 11TK，INES．
Excursions．
Annual Mesecm．
THE Annual Juseum will be leld on August ith，Sth，oth，and 10th， in the Examination Mall of the Lnirersity of Glasgow，and will be arranged in the following six Sections：

Section A.-Food and Drugs including Antiseptic Dressings, and other Chemical and Pharmaceutical Preparations. (Honorary Secretary, R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Street.)

Section B.-Pathology, comprising Casts, Models, Diagrams, $\$ 1$ icroscopical I'reparations, and Miero-organisms. (Honorary Secretary, J. Lindsay Steven, M.D., 34, Berkeley Terrace.)

Section C.-Anatomy, comprising Special Dissections, Methods of Mounting, Abnormalities, Drawings, Medals, etc. (IIonorary Secretary, J. Yule Mackay, M.D., 3-1, EImbank Crescent.)

Section D.-Plysiology, consisting of Apparatus, Microscopes, Microtomes, and Microscopical Preparations of Normal Histology. (Honorary Secretary, J. McGregor Robertson, ML.A., M.B., C.M., 400, (ireat Western Road.)

Section E.-Instruments and Books, including AppliancesMedical, Surgical, and Electrical. (IIonorary Secretary, J. Macintyre, M.B., C. M., 173, Bath Strcet.

Section F.-Sanitation (I) Domestic Sanitary Appliances, emhracing all lmprovements applicable to the Treatment of the Sick in Private Dwellings. (2) Personal Hygiene, including Dress and Gymnastic Appliances. (3) Ambulances, Carriages, and all other Appliances used for the Conveyance and Treatment of the Sick and Wounded, either in Civil, Naval, or Military Practice. (4) Drawings, Models, and Apparatus illustrative of the Ventilation, Lighting, and Draining of Hospitals. (5) Hospital Furniture. (6) Sanitary Appliances in connection with Educational Institutions and Public Buildings. (Honorary Secretary, 1, 2, 3, Robert Pollok, M.B., C.M.. Pollokshielda: Honorary Secretary, 4,5, and 6, A. W. Russell, M.A., M.B., C.M., Western Infirmary.)

Intending exhibitors ahould communicate as carly as possible with the Secretary of the Section in which they propose to exhibit, as the Museum Catalogue must he complete one month hefore the date of meeting. Inquiries as to adrertisements in the Catalogue should be sent without delay to Dr. Thomson, 3, Melrose Street, Glasgow.

Ilonorary General Secretariea of Museum Committee, A. Ernest Maylard, B.S.. M.B., 54, Berkeley Terrace; K. S. Thomson, B.Sc., М. В., С. М., 3, Melrose Terrace.

Honorary Local Treasurers, Joseph Coats, M.D.; Jas. B. Russell, 1.D.

Honorary Local Secretaries, John G. McKendrick, M.D., F.R.S., 45, Westbourne Gardens, Glasgow: James Christie, M.D., IIillhead, Glasgow; John Glaister, M.D., 4, Grafton Place, Glasgow.

Francis Fowke, General Secretary.

## SPECIAL CORRESPONDENCE

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Treatment of Blepharospasmus.- Action of Antipyretics on the Liver.-I'seudo-tuberculosis.-Canadol as a Local Anasthetic.Concentrated Solution of Boric Acid.-Naphthol $\beta$ as an Anti-septic.- IFasting of the Muscles of the Chest in Phthisis.-Con-tra-indications of Antipyrn.
At a meeting of the Société de Médecine de Paris on March 2.4th, 11. A. Dehenne read a note upon the treatment of tonic hlepharospasmus by section of the supra-orhital nerve. Tonic blepharospasmus, the ouly form of this affection which is really dangerons, is not common. The contractions, which are often jninful, are incessant, and last from several seconds to several minutes. Tho patients are unable to walk out of doors unaccompanied, and can follow no occupation which requires the use of the eresight. When the affection is of old standing, the attacks, which occur from twenty to forty times daily, are accompanied ly the following phenomenn: the space hetween the eyelids is ontracted, the evebrow falls down over the upper eyelid, there are incessant clonic spasma in the lirls. Neurotomy is the only treatment which has provel effectual in checking the contractions. In most. cases section of one supra-orbital nerve suffices. The operation is performed as follows. The course of the supraorbital nerve is markerl with ink as far as the junction of the inner and middle thirds of the ejebrow. The akin is pinched up, batween the thumb and finger ; a vertical fold is thus formed, at the bottom of which a small histoury is introduced, about one centimetre abore the eyebrow, with the hlade parallel to the sur-
face of the skin. The bistoury is then withdrawn, and the neurotome, which is merely a blunt-pointed bistoury, with a elightly convex blade, is int roduced in the same way. On reaching the vasculonerrous bundle, the instrument is turned round and rested against the frontal bone. A series of cuts are then made until the periosteum is reached. The neurotome is then placed in ita former position, and is rapidly withdrawn. Strong pressure is made ly means of a coin wrapped in cotton-wool in order to prevent any subcutaneous effusion of blood. A compress bandage is applied. Tonic contractions entirely cease immediately after the nperation, but clonic contractions sometimes persist for a few days Inger. The first patient operated on by M. Dehenne in 1879 was a woman of 52 , who had suffered from the affection for three yeara. Both supra-orbital nerves were divided, and immediate recorery ensued. Six months later the spasms reappeared. Electric stimulation, with continuous currents, which liad been ineffectually applied before the operation, were completely successful after it. M. Dehenne cited a recent example of the anmirable results of neurotomy in tonic blepharospasmus. The patient, a woman of 58 , had suffered from double blepharospasmus for five years. The tonic contractions had begun three years after the appearance of clonic blepharospasmus. M. Deheune divided the left supra-orbital nerve, in which the tonic form of the affection was most pronounced, on February 25th, 1888. The tonic contractions immediately ceased, and the patient was able to open her eyes. Since the operation all spasms in the eyelids have disappeared. M. Dehenne has performed neurotomy in other cases with similar success.

I'Union Médicale of April 1 th publishes some interesting observations on the action of antipyretics, especially antipyrin, upon the liver, by MM. R. Lépine and Porteret. One of these observers lias already prored that under certain circumstances aniline helps the disintegration of nitrogenous substances, and decreases the production of heat. One naturally inquires Whether pyretics might not therefore retard the formation of bepatic glycogen. To elucidate this point, experiments have been made on guinea-pigs. It was first ascertained that the ordinary quantity of glycogen contained in their liver varies not only with their size and nourishment, but is also unequal in the case of animals of the same weight and apparently subject to the same circumstances. A number of guinea-pigs having been placed under the influence
of pyretics, MM. Lepine and Porteret found at least one-fifth more hepatic glycogen, and a slight diminution of hepatic sugar. Another experiment showed that the suspension of the transformation of glycogen into sugar is in part the result of a direct action upon the hepatic cells.
M. L. Dor has reported a case which is probably similar to those described to the Academy of Medicine by Messrs. Charrin and Roger, on March 19th, and it was in consequence of this case, which occurred hetween the monthe of April and July, 1887, that he undertook the researches the reault of which he now publishes. This malady is infectious, and resemblea tuberculosis. The symptoms are, first, a tumour, often resembling an abscess; when it appears spontaneously it is found in the tongue or in the inner walls of the mouth. Secondly, glandular swelling in the groin when the inoculation lias taken place in a posterior part, and cerebral when the original abscess is in the mouth; numerons metaatatic granulations of a cheesy nature, resembling either round tubercles or irregular nodules, cauliflower-like in form, varying from the size of a pin's head to that of a pea. Thirdly, microscopic examination haa shown that the malady is not tubercle, nor leucæmia, nor pyæmia, nor generalised sarcoma, the pustules being eomposed of a peculiar fermented species of lencocytes.

Dr. Pliouchkine, in the Revue de Therapeutıque Médico-chirurricale, April 15th, recommends canadol, a hydrocarburet distilled from American naphtha, as a local nnesthetic. It is a transparent liquid, very volatile and amelling like benzine; it is insoluble in water and in alcohol, which renders it superior to ether. It cansts rapid cold in the first minute, liko ether, but does not. like this substance, continue to lower the temperature in the ensuing minutes. The aniesthesia proluced by canadol is complete in sixty seennds, and employed as an anmsthetic in cases of minor operations completely sublums all pain.
According to M. A. Cabanès, in the J. de Méd. de Paris, April 15th. a new way has been rliscovered of dissolving a large yual. tity of horic aeid in distilled water. It is known that it has not litherto been possible to dissolve more than 4 or 4.50 grammes of this antiseptic in 100 grammes of water, which is not strnng enough completely to destroy all micrococci. The new solution
is as follows: boric acid, 120 grammes; calcined magnesia, 10 grammes; aque destill., 750 grammes. It is possible that biborate of magnesia is formed; at any rate, there remains in solntion a considerable excess of boric acid.

In a communication recently made by Professor Bouchardito the Academie des Sciences, he states that naphthol $\beta$ is an excellent antiseptic for external use. But what is more important, it would appear to be the most efficient agent for intestinal antisepsis, particularly on account of its slight solubility, which prerents its absorption and allows it to remain a long time in the intestine without poisonous effects. A daily variable dose of 1 gramme of naplithol per kilog. of weight of the animal may be administered without danger.

Dr. F. Bompard has lately made an interesting communication to the Société de Mélecine of Bordeanx on atroplyy of the thorax in phthisis. The following is a summary of his conclusions;-1. Muscular atrophy is frequent in tuberculous subjects; 2 , it is met with in the neighbourhood of pulmonary lesions, and specially at the apex of the thorax; 3 , it presents the lollowing characters: $(a)$ diminution of volume; $(b)$ subsidence of prominences; (c) exaggeration of hollows ; (d) diminution of strength; (e) diminution of electrical contractility; 4 , it may be an early symptom; 5 , it is sometimes accompanied by sharp pains in the muscles which are undergoing atrophy; 6 , it constitutes a complication of pulmonary phthisis in augmenting the difficulty of breathing, and in this manner contributes to hasten the progress of the disease. It is, therefore, most important to combat this form of muscular atrophy, which is common, particularly at the outset of the disease, when a cure may still be hoped for. For this purpose nothing can be better than chamber gymanastics, already so much recommended by 11 . Peter in 1879.

Some time ago, M. Huchard called attention at the meeting of the Société de Thérapeutique to the contra-indications of antiyyrin. He said the drug shonld be used sparingly in diseases such as typhoid fever, in which the kidneys served as emunctaries, as it diminished tho secretion of urine. On the same principle he gave 8 grammes a day to a woman suffering from meningomyelitis, who passed trom 24 to 28 litres of urine in 24 hours. This quantity wras reduced to 5 litres under the influence of antipyrin. N. Huchard therefore suggested the use of antipyrin in analogous cases, such as diabetes, for instance. d. Dujardin-Beanmetz expresed a similar opinion. Antipyrin should no more be giren than opium or salicylate of soda when the kidneys were diseased. These substances being eliminated by these organs, might possibly be absorbed into the organism with toxic effects. M. Dujardin-Beaumetz had tried antipyrin in two cases of polyuria, the amount of urine being diminished in both cases. M. Huchard added that arterio-sclerosis should not be treated by antipyrin, even when the kidneys were not affected.

## SWITZERLAND.

[FROM OLR OWN CORRESPONDENT.]
Professor Haab on General Gonorrhoal Infection.-Transmisstbility of Molluscum Contagiosum.-Transfusion of Blood in Carbonic Oxide Poisoning.-Electrolysis in Hypertrophy of the Prostate.-The Berne ('remation Society.-Sertuple Labour at Castagnola; the Ruttigen Chapel in Memory of a Septuple Labour.
At a meeting of the Gesellschaft der Aerzte, in Zurich, l'rofessor llaab read a paper on a generalised or constitutional gonorrhaeal infection developing consecutively to specific urethritis. He often met cases of gonorrha*al iritis and irido-cyclitis, as well as of conjunctivitis originsting without any direct transmission of the urethral discharge. In the cases of the latter kind no gonococci were present in the conjunctival secretion, the disease usurlly ruming a mild and favourable course. He further cites a striking case of general infection after uretliral gonorrhaea, where death was threatening in consequence of extreme exhaustion caused by a continuous, uncontrollable fever of muny weeks duration. The man was suffering from effusions into his knee and elbow joints, abscesses in the left axilla, prolonged obstinate cystitis, and double oplithalmia of the sererest kind, ending in complete destruction of one eye, and serious disorganisation of the other. No microbes were tound in the articular exudation, but the axillary abscess was found to contain staphylococcus.

Professor Jaab seems to think that this case is an instance of a mixed general infection with gonococcus plus staphylococcus.

Professor Maab also states that he has succeeded in inoculating molluscum contagiosum into his own forearm. Having rubbed into the part a portion of the contents of a [reshly extirpated nodule (and nearly forgotten all about it), he found, about six montlis afterwards, a typical nodule at the site of the inunction. When the growtl had reached the size of a lemp-aeed he extirpated it in order to examine its structure microscopically. The structure proved to be absolutely identical with that of the primary nodule which lad served for the inoculation. As is known, the number of successful experiments of the kind is as yet very scanty (Retzius, etc.).

In the Correspondenz-Blatt für Schweraer Aerzte, No. 8, 1888. p. 258 , Dr. Siegfried Stocker, of Lucerne, relates a case of poisoning by carbonic oxide, where trensfusion of human blood was successfully employed after all other means of resuscitation had utterly failed. The patient, a senior engineer to the Gothard Railway, a powerfully-built man aged 50 , went to bed (at an hotel in Goeschenen) in the best health and spirits. The next morning be and a companion were found in an unconscious state, and apparently dying. The store (closed in the night) contained halfconsumed coal and wood. The patient's friend was brought to his senses in twenty hours by means of cutaneous stimulation, ether injections, artificial respiration, and electrisation of the phrenic nerves, But the patient remained in a seemingly hopeless state even atter persistent and energetic resuscitating efforts of the same kind carried out for 48 hours. Is a last resource, transfusion was resorted to ; 800 grammes of blood were drawn from the patient's median vein, and 110 grammes of defibrinated human blood injected into the same rein. In about two hours very gradual improvement set in. It was only on the third day after the transfusion that the temperature, respiration, and pulse became normal, while extreme prostration and mental weakness continued for a long time. In fact complete recovery took place only two months later. According to Heinecke (1885), international literature contains twenty-three cases of blood-transfusion in carbonic oxide poisoning. Or these, recorery ensued only in eight. The success, therefore, is certainly not very brilliant ; still Dr. Stocker believes that the procedure is decidedly indicated in all such cases where no improrement follows in spite of persistent treatment by fresh air, rubbing and brushing the cutaneous surface, faradisation of the phrenic nerves, etc. The author lays stress on free venesection as an essential condition of success, since it is imperatively necessary. (1) to relieve the intense congestion of the internal organs which is invariably present in the cases under consideration ; and (2) to eliminate some portion of the poison and its injurious products (including disintegrated blood-corpuscles). On the other hand, the introduction of healthy blood is also thought necessary, though the quantity need not be considerable. A saline transfusion in the cases in question seems to be quite useless.
In the Revue Médicale de la Suisse Romande, May 20th, 1888, p. 232, Dr. Roux, house-surgeon to L'Hopital Cantonal, in Lausamme, writes that since August, 1887, he has employed electro$1 y$ sis in six cases of enlargement of the prostate. He places the positive electrode of an ordinary galvanic apparatus on the abdomen, while the negative one is brought in contact with long steel needles, which are plunged into the gland through the rectum as deeply as $1 \frac{1}{3}$ or 2 centimètres. The circuit having been closed, a weak current is allowed to pass; its strength is then gradually increased to 70 milliamperes in the course of one to three minutes, and maintained at this height for $t$ ro and a half to five minutes, after which it is gradually diminished. Then the needles are thrust into another portion of the prostate, the procedure leing repeated, as a rule, two or three times at a sitting. l'ain (frequently about the ablomen, sometimes about the gland) is said to be intense. One of the patients, aged 70, did not come again alter a sitting with five pigures. Another, aged it, with an normous prostate (about the size of an orange, according to the estimate of a "confrère un peu enthousiaste ${ }^{n}$ ), loft the hospital with the gland diminished to a third of its formor volume. A third man, aged ${ }_{6}^{2}:$, returned several weeks after a single sitting with such a striking diminution of his prostate that no further treatment was found necessary. A fourth patient, aged 70, who had been admitted with very bad symptoms, left the hospital after thres sittings in the course of six weeks, feeling perfectly satisfied with his state. On re-examination, on the eve of the author's present communication, the prostate was found to bare
undergone a marked reluction in size. A fifth, aged 77 , in whom electrolysis was repented tive times, at present shows "a general diuninutinn of the gland, whose sufface is now covered with nodules, ridges, amllepressions, which were entirely alsent before the treatment." The sixth ease is still under trentment. The general conelusions drawn ly Dr. lionx from this series are: (1) that electrolysis aetually enaldes us to diminish the rolume of a liypertrophiell prostate; and ( 2 ) that this simple, casy, and harmless method most decidedly deserses a further and more extensive trial.
The Berne Society for Cremation (lenerbestattungsverein) was opened on May lith. M. Gohat, a menber of the Cantonal Government (liegierungsrath) has been elected the first President of the new society. The administration of tho latter includes Dr. Schwarzenbach, the well-known professor of chemistry at the local university. The number of members registered during the first sitting has reached 305 . This is not a bad figure for a town inlabited only by 50,000 candidates for burial of all kinds. Cuteris paribus, a London Cremation Society should show something liken $2 l, 000$ mernbers.
Aceording to the Bumi of May 10th, at the village of Castagnola, nenr Lacgano, the wife of the loenl Communal President, aged 38, has been recently delivered, at full term, of six living children, esery one of which, however, died in the eourse of a few hours after their birth. This starthing event has induced a correspondent of the Berner Trolkszeitung of May 19th, p . 2 , to publish the following statement, which. he suys, can be very easily verified: Many years ago a woman, residing at the village of Fullenbach, nenr olten, was safely delivered of seven living, though tiny, infants. Since the nearest church at the time was at Olten, the seven children had to be carried to that town to be baptised. It happened that one of the rustic godfathers somehow lost one of his future godchildren on the way, the accident being discovered only after the napkina and mrappings had heen carefully examined at the church. The happy father of the seren, plunged now into the very depths of unlappiness, registered a solemn vow to the Holy Mother that if "the lost child was found alive he would erect on the self-snme spot a chapel dedicated to Ifer Ifoly name." The infant was sonn found safe and sound, lying at the left bank of the river Aar, about 500 steps from the darburg Bridge, close to Ruttigen, where there now stands the chapel as ereeted by the father, true to his solemn promise. An official document, relating in detnil to all these obstetrical nud other events, is said to be exhilited within the chapel for the public edification.

## CORRESPONDENCE

## biential election of phesident, hoyal college of SURGEONS IN TRELAND.

Sir, -I think the time has arrived when, in the interests of the Irish College of Surgeons, the Council and Fellows at harge should definitely decide that the oflico of Presilent slould last for more than one year.
The present aystem of elpeting a now President every year, owing th the altered eondition of the College, has disadvantages too numerous to mention, and ly instituting biennial elections much umpleasantness would be aroided, besides saving the College to a great extent from the unseemly enntesta for the post of lien-l'resident, which have been so common for the last few years.
The London College of Surgeons, whare it wonld be ensy to select a suitahle l'resident annually, owing to the number of distinguished aspirants for the position, do not allopt the system, bat allow the lresident to hold office lor two and sometimes thime yeare, as is the ense this yenr, when Mr. Savary takes the gresidentint elnair for the third time in succession. The matter will be brought bufore the Fellows of the Collegent their next anmunl menting, nnd 1 sincerely trust this much needed reform will he no longer delayed.
In order not to aifect the present candilates for office the system tright cormenee fmen June, 1800.- I am, etc.,

1. H. Onmsisy, F.R.C.S.I., M.D.,

Surgen to the Meath Hospital and Co. Dublin Infirmary, Memper of the Surgical Court of Fixaminers, R.C.S. 1.
Dnblinj May 2fth.

TILE TREATMENT OF AURAY EXOSTOSLS.
Sir,-Sir William Dalhy, in the Journal. of May 2Gth, is reported to have made some remarks hefore the Royal Medienl and Chirurgical Society, on "the removal of bony growths from the externnl nuditory canal," in which he claims to have operated with the dental drill since 187 t.
I have hitherto been under the impression that I had the satisfaction, on October 4th, 1877, of performing the first operation in England for douhle aural exostosis by means of drilling. This was published by me shortly alterwards. Since that time I have put on record several series of such cases, the results of which, as Roosn ${ }^{2}$ has been good enough to ohserve, "justify all that Matthewson claims for the operation." Reviewing these caser, I see no renson to doubt the correctness of ny original statement as regards the genesis of bony excrescences in the ear, that is, that they are commonly the result of melanical irritation, and that a frequent source of this irritation is senbathing. It has again lately been recommended to use the chisel in preference to the drill for the removal of nural exostoses; but, inasmueh as drilling carefully performed is pre-eminently a safe and effectual operation, it is by no menns apparent why a far rougher if rendier method of procedure should be held in fayour.
Now that, chiefly, as I am given to understand, through my persistent adroeacy and practice, operation by drilling has come to be very generally recognised as one of the legitimate and indeed most ralmahle of the resources of the nuval surgeon. it is desirable, 1 think, that 1 should draw attention to certain points in comection therewith. As, however, I have at present in preparation a series of some twelve fresh cases, to which I hope to ndd three to be treated this week, I do not purpose here to deal with this subject generally. First, I may mention that I have found it desirable to diseard the crossbar at the end of the drill-hinlier the use of which I recommended in the Jourvat for April 30th 1887, inasmuch as it hinders the access of light to the mentus. The steel gunrd which I long since recommended is, in fuct, all that one requires for the protection of the ear, and it serves also the purpose of acting as a guide for the drill.
I lave next to mention that prolonged experieuce in the trentment of denfuess due to aural exostoses has taught me that thr drilling of their npices is nll that is absolutely necessary, as gotul hearing is maintained through a very small opening. It would appear from a report in the Jounvil for May Plith of a paper read on the $2: 2$ ud before the Royal Medical and Chirurgical Society that Sir William Dally has lost sight of the fact that what thin surgeon has to aim at in dealing with aural exostoses is mot m much the removal of a tumour in bulk from the ent as ther obviation of any deafness that it may cause. "In some of these enses of exceedingly hard, bony tumours in the external auditory meatis," wes read, "it whs foum sullicient to bore a hole through their base, for that damaged their mutrition, and led to their denth and remoral by ensier menns." As, however, on the admission of Sir William, the loring of this hnle is "no ensy matter," and as, moreover, it is muquestionably both tedious and fraught with risk, If fail to perceive the adrantage of its performance. If, further, as $]$ have almudantly proved, a single operation ly drilling suffiers for all practical purposes, the death and the subsequent removal of the tumour, by means howerer ensy, even with the most long-suffering of patients, dons not apprar to he a desideratum.
Not the lenst surprising statement in the report in question is that "burrs made of the hest steel in the world were sometiuns destroyed to the number of twenty or thirty before any serinus impression wras made, when they were revolving at $\pi$ rate of $3,(0) 0$ times a minute.'
It seems impossible to avoid the conclusion herefrom, that tha instruments referred to, whantever their original quality, muat have heen improperly tempered, or were otherwise unadapted for their purposes at the high rate of velneity emploved, for in all my cases of ivory exostosis (and the first I operated ion more than ten years ngo), I have successfully used itlentienlly the sam" hurrs.-I am, ete.

Georae I'. Finlo.
34, Wimpole Street.

[^77]
## THE UNIVERSITY OF DURHAM AND THE M.D. FOR PRACTITIONERS.

 Sir,--In your report of the proceedings at the (reneral Nedical uncil on Tuesday, May zend, the following paragraph occurs: " Dr. Glorer asked for information as to the examinations of the diversity of Durham of practitioners of over fifteen years' stand. II said there were no examinations of greater interest to the ofessiou generally:"Taken as it stands, this does not explain the meaning or object the inquiry. You will perhaps allow me to say, therefore, that Glover asked the Registrar, Mr. Miller, if the statement in the ble of passes and rejections, that the University of Durham had jected the whele of the candidates for the practitioners' degree the year 1837 was correct? The Registrar replied that the stateent was incorrect, and arose from a printer's error, the correct imbers liaving been received from the University, that is, 8 rections, 8 passes.
On inquiry, the Registrar of the University of Durham College of edicine, at Newcastle, sent a note stating the same facts.-l 1, etc.,

George Y. Heati, M.B. Lond.,
Representative of the University of Durlam in the General Medical Council.
St. George's Club, IIanover Square.
THE MEDICAL COUNCIL AND TIIF COYERING CASE. Sir, - In regard to this case, one cannot help feeling that the iwers of the Medical Council are too limited. So far as the rson covering is concerned, the power they possess, namely, strike the olfender off the Register, is ample, but with regard the person covered, I cannot help thinking that the Council ght to have power to punish hoth, immediately and prospecrely. Nost certainly no person convicted of having practised cegularly, by the aid of a cover or otherwise, ought to ever be gistered, no matter what qualifieations he may eventually abin. With regard to the case lately before the ILedical Council, 1 we every reason to believe tluat the real offender will not cease practise in one way or another. I should say more, that the erlical Council should, in the case of such offender holding any fice under the Cromm, lay the facts of such offence before the wisers of the Crown, leaving it to them to take such steps as e gravity of the case may require.
Finally, 1 hope that merlical men throughout the country will $t$ as 1 have done, and so stamp out this kind of parasite.-I n, etc.
B. Lumley, M.R.C.S.

Northallerton.
HARSHALL AND SHAW DEFENCE FUND.
Sin,-Allow me further to trespass on your courtesy, and rough your columns thank those who have so kindly and perally contributed to the above fund, thereby relieving Dr. law and myself to a great extent of the heary legal expenses curred in defending the recent lunacy action brought against us. have succeeded, while clearing my character of the gross harges hrought acrainst me, in obtaining the approval of my prossional brethren in my endearours to uphold the honour and terests of the profession was of itself a sullicient reward for the any worries and anxieties entailed by this lawsuit. 1 regard is practical proof of sympatly as giveu in support of a cansu ther than personal, mit I recognise and appreciate the individual ndness thus shown by so many professional friends, and 1 desire express my warm nppreciation of this token of their approval ad good will.-I am, ate, Clilton, Bristol, May ghth.

Sir, -Will you permit me in your columns to return my thanks the many generons contritutors to the above-nentioned fund? f the amount subscribed, $x^{2}-21$ have heen handed to me by the easurer, Dr. E. Long Fox, and my legal expenses, so far as they e at present known, amount to athout £330.
lt is much to receive so substantial a contribution towards deaying the expenses of the late legal proceedings against Inr. arshall and ryself; it is infinitely more to know that uuder a arsecution for the simple discharge of a professional duty we we the sympatliy and moral support of those whose opinions we ost highly value.- f am, ete.,
J. E. SEAY, M.E., C.N.

II, Lansdown l'lace, Victoria Square, Clifton, Bristol,
May 30 th.

## THF HORSE TAX

Sin,- I think no medical man will deny that, on rare occasions, he uses his horse for pleasure, just as cloes the butcher, baker, etc. The latter, however, will have no tax to pay, and leerein is one of the hardships to medical men.

Could not the Government be petitioned to reduce the amount of the tax by, say, one-half-making a third classification-where a horse is kept partly for work and partly for pleasure?
I imagine that if some such suggestion as this is acted upon, it will remove much of the present opposition to a tax which will apply so unjustly to us.- 1 am, etc., Jonn J. Lavisston, L.S.A. Newington, Sittingbourne, Keut, Jlay 28th.

## DIPITHONGS IN MEDICAL AND SCIENTHFIC TERMS

Sm,-I wish to call attention to a circular from the editor of the Philadelphia Menlical World, which contains the following statement: "Please notice the stand we have maintained for the past year in regard to the use of diphthongs, discarding them altogether except in the formation of the genitive singular and nominative plural of Latin uouns of the first declension." Although a wish las sometimes been expressed that "diarrhcea" should gire place to "diarchea," and so forth, this innovation is hardly popnlar amongst standard English medical writers. Scholars strongly object to the reduction of " $æ$," as well as " ce" to " $e$," there being no warrant for such a change. Should the diphthong be suppressed, " rhea "would probably be correct; but judging from philological evidence too complicated for discussion, "hemorrhage" ought to be written "hamorrhage" (pronounced "haymorrhage"), rather than "hemorrhage." Again, in a leader on "Technical Terms and Medical Study" in the Journal for December ${ }^{2}+t \mathrm{th}, 1887$, p. 1393, in reference to the craze of purists for "pure Anglo-Saxon words," it was observed: "Strange to say, by the way, some of these purists often object to diphthongs, which abomded in Anglo-Saxon, and whilst historians, who have really studied that language, write about 'Elfred the Great,' medical authors think that we might as well take to spelling 'hemorrhage 'hemorrhage." British and American writers and editors onght hardly to aholish the two diphthongs without duly consulting classical scholara, who are also authorities in English com-position.-I am, etc.,

фi八ónojos.

## INTERMITTENT HAEMATURIA.

Sir,-The case of this disease related by Mr. Berkeley Hill in his clinical lecture on hematuria is of great interest. In May of last year I read before the Clinical Society an aecount of a case of hematuria due to bilharzia (which is published in vol. ax of the Transactionsh, and up to about that time no instance of the origin of the disease in this country had, l belicve, been recorded. It appeared, therefore, that the continued observation of cases in this country wonld throw some light either mpon the natural duration of life of the adult parasite, or on the possibility of the embryo reaching maturity within the human body without the intervention of an intermediate host-a very unlikely proceeding. Should the two cases originating in this country, and recorded hy Mr. Berkeley Hill and Mr. Reginald llarrison, be smported by the discovery of nthers, the results of this method of obserration will lose much, thongh not all, of their value. The case that 1 haverecorded, originating in Natal, has now been under obserration in this country more than two years and a half. Ora of the bilharzia hare been found on every occasion, when sought for, and still continne to be passed. The patient mas much depressed at lirst on learning the nature of his malady, hut has otherwise been in good health, and now is quite robust, playing foothall in the season once or twice a weck. The loss of bloon in the case related hy Mr. Berkeley 11 ill scams to have heen tery excessire.

With regard to the hatching of the ora in urine 1 am satisfied 1 have ohserved this occasionally, though usually they remnin unaltered for several days until they are killed by on adraneed state of decompsition of the urine. When placed on a slide, in urine. under a cover ghass 1 lave watched dozens of the embryos escape from the shell, which the weight of the corer glase appears to help to rupture. The cmbryos contiuue to swim about actively' in the urine for several hours.

The ora are readily preserved in elycerine diluted with about one-third water. 1 hare numerons specimens that have heen preserved in that mamer and that have remained in good condition already for two years and a half.-I am, ctc.,
Notinglam, May -2sth.
II. Handford, M.D.

## LONDON UNIVERSITY: PRELIMINARY SCIENTIFIC (M.B.)

 EXABINATION.Sir, - 1 hoyal Commission having been appointed to take evidence with regard to the development of higher education in London, one hopes that the result will be the estalishment of a tanching miversity worthy of the importance of the metropolis, with its luge population and great position in the civilised world. If a teaching unversity be established and the present University remain simply an examining body, as it is at present, could not the Senate and Conrocation be induced to do something to improve the position of the medical undergraduates?
The Medical Faculty is the most heavily weighted in the Unirersity; and the greatest impediments and difticulties appear to be thrown in the way of candidates for its degrees. No student is regarded as a student in medicine until after he has passed the preliminary scientific examination, notwithstanding that possibly he might have completed a year or two of hospital work before that date; and then a considerable period must elapse in which hospital lectures, etc., must be attended, between the intermediate and final M.B. examinations.
The preliminary scientific is an extra examination, as it were, no corresponding one being required in any of the other curricula. It is not a mere preliminary science examination to medicine, but a severe test, requiring at least twelve months' residence at some college or institution where science is well taught in the classroom and laboratory, and also considerable application on the part of the student, who should be endowed with fair brainpower. The severity of this examination has been recognised by the Senate in allowing candidates to divide the subjects into two parts, to be taken at different times, so that a student, if he be successful, may have to undergo five examinations before he can take his degree of M.B., whereas in Arts, Science, and Law he has only three.

Does this appear to be equitable or fair? It seems to me that medical students, having to undergo a special scientific training after matriculation and before they can be allowed to commence their professional studies, ought to have some particular designation given them-such as "Licentiates in Science" -instead of mprely describing themselves as having passed the preliminary scientific examination. The organic chemistry of the intermediate M.B. may be added to the subjects of the preliminary scientific, so that subsequent studies may be entirely professional, and all those who had passed the scientific examination should be termed "Licentiates in Science." The character of this and matriculation cannot be less, if it be not more, than the B.A. in same of the older universities.

If the Senate and Convocation would give some more distinctire mark to those who had passed this examination, it would be a great incentive to candidates, as well as improve their position rery considerably in the eyes of the world, The University of St. Andrews confers the designation of LL.L. on ladies who pass in certain subjects laid down by the Senatus and professors of that University ; and, as the University of London is merely an examining body, surely it may do something to sweeten the hard struggles ol many of its undergraduates. Of course all Licentiates in Science would be in in statu pupillari, as at present, and have no voice whatever in university matters.-I am, etc.,

R. Clifford.

## NAVAL AND MILITARY MEDICAL SERVICES.

## THE MEDICAL RESERVF.

A correspondevt, "Vigllant," asks the profession and all who may coatemplase jolulog the Arny Nedleal Rescrve, to ennslder, while the warrants relating to the regular medical aervice are so easily set aside or played ducks and dmkes with, what assurance would-be reservish have that they may not be irlpped up and befooled with equal disregard of turms? Thcy may think they are safe under certaln conditions, but the "exigencles of the servicc" under Mr. Stanhope's Bill for extended powers over the militia snd volunteeri will place then completely in the clintches of the War Office, and send them for genern! daty ull over the country; they will have no hold over their corpa, or thelr colpy over them. Any of them who have private practices worth: conserving will and them absorbed on thelr return home by rivals, who, not entrapped by vain milifary medical titles, have an eye to real rivals, who, not entra
ousiness in civil life.

THE OLDEST VOLUNTEER.
Ma. James Wihiame, F.K.C.S., J.P. (Mount Pleasaint, Brecon), writes: In the Journal of Msy iath. under "Volunterrs," I find: "Surgeonamilionorary Surgeon James Willams, of the 1st Volunteer Battalion South Walt: Borderers, late lat Brecknock, has alse resigned, with permission to retain hls ravk and unfiorm ; his appointment was dated April 15th, 1862."

I wish this inaccuracy corrected. My appoint ment bears date November 15 th, 1859 (enclused for your inspection). I was elirolled in Angust three mouths befere, making me presumably " the eldest volunteer in the lingdon," having scrved continuously lor twent $y$-nine years, and having accompanied my regiment twice to Aldershot, and netsbly last year, to show our beloved Quecn the luyalty and natlenality of Brecknoek Welshmen. accom. panied by the embleroatio noa? in the march past. and myeelf honoured by my townamen as the "J buflee" mayor. Taking these clains into consideration, i asked the "hig!uest military authorlties" permission to remaln with the regiment n ittle longer, as we are to be brigaded this year fin our own foon with other connty regiments. My appeal was refused in the usual stereotyped fashion. and the favour asked not granted. This kind of treatment to an old volunteer of nearly thirty years' standing requires some explatintion.

## INSPECTION OF A BATTALION OF VOLUNTEERS.

SUROFON-MAJOR wrltes: It is, I believe, becoming increasingly common for the regimental bearers to march past under command of a surgeon, taking their position in rear of the battalion. May 1 ask if there is any anthorlty for this?
Does Section 355, Part It. Manual for Medical Staff Corps, spply; and, if so, how is it that stretchers are so trequently carried, as they are strictly forbitden by the last paragraph? If it be right to march past, what is the position of the anrgeon in command; and shonld he salute as the conibatant offcers do? I shall be glad to recelve information on the above points, as although my men have repeatedly marched past, and aometimes with stretchers, I have never felt quite sure that it was right: and one likes more authority than the never felt quite sure that it was right:
commendation of the inspecting officer.
** "At annual inspections of volunteer corps, the corps streteber bearers will parade and be inspected as such nuder the medical officer" (vide Volunteer Regulations, Part I, Sec. FI, para. 5li). There is no authority (except general sanction) for the march past of regimental bearers under command of surgeon.
Sec. 355 , Part III, Manual of Medical Staff Cerps, applies as far as the dutles of regimental bearers in giving Grst aids and conveging the wounded to an ambulance waggon or the collecting station.

Stretchers are carried by bearers, as regimental waggons are rarely provided. The position of the surgeon is in rear of the centre $u f$ his bearers; he sulutea with the hand, not, as the combatant ufficers, with the sword.

## ARMY MEDICAL STAFF.

Reoimantal M. O. writea: "Verbum Sap." is not yet tired of agitation. Is he aware of the contrast that bas been wronght in the last few years between the old "regimental" officer and the present semi-clvilian rankless " ductor?" it is possible the authorities may tire of agitation, especially now as they are strenthening their hands by daily filling up the reserve lists. Ifear a doctor in the army must remain one. Il things go on as at present, civilians, pure and simple, will have medical charge of our army in the distant future, Beand simple, will have medical charge of our army in the distant future. be
fore agitation, let medical officers nuite and pull together; had they done fore agitation, let medical officers nnite and pull together; had the
this in time, they wonld not be in the condition they are in at present.

## THE NAVY.

THE following appointments have been made st the Admiralty: G. A. CampbFLl, Fleet-Surgeon, to the Impregnable; C. W. Magrane, Siaff-Surgeon, lu the Lion; J. F. Donovan, Surgeon. to the Thundeter: M. H. ATock, Surgeon, to the Orlando, additional; ANTHONy QoRHsm, Fleet-Surgeen. to the Impreg. nable: KOBERT GRANT, Fleet-Surgeen, to the Témeraire.

## THE MEDICAL STAFF.

Sumgron Q. D. Hunter has been seconded for service with the Egyplian arnis.

Surgeon F. W. C. Joses, serving in the Bombay command, having returned from Burmah, is posted in general duty in the Bombay district, Northern Division, and Aden.

Surgeon-Major C. C. Pıper died at Guildford on May 21st, at the age of 03. He entered the service as Asslatant-Surgeon September $12 t h, 1855$, and wss promoted to be Surgeen and Surgeon-Major successively, retiring on lisif pay February 7th, 1876. He had no war record.

ARMY MEDICAL RESERVE.
Surgeon and llonorary Surgeon-Ilajor Burgord Norman, of the Ist Yolutlteer Brigade, Sonthern Division, Royal Artillery (late the lst ITampshire Artillery) is appointed Surgeon-Major (ranking as Major).

## TITE INDIAN MBDICAL SERVICE.

BRIOADE-SURGEON 11. COTTER. M.D., Beqgal Eistablishment, is appointed Deputy Surgeon-General with temporary rank, vice Acting Deputy SurgeorlGeneral A. I. Mllson, M.D., appointod Officiatiag Inspector-General of Clill Hospltal, Beagal.

Surgeon-Major W. D. Stewart, Bengal Rstablishment, is granted furlougb In and out of ludis, on privafe affairs, for 1 year and 243 duys.

Surgenn A. W. ALcock. M. B., Beagal Fistablishment, is appointed to the medicil churge of the 2nd Punjah Infantry, vice Surgeon W. A. Sykes.

Surgeun- Мinjor J. M'CoNagriry, Hengal Eatablishment. Clvi) Sirgeon of Bari Bankee, is nppointed to officiate as Civil Surgeon of Fyzabad, during the absence on deputatien of Dr. O'Brien.

The services of Sirgeon C. W. Owfx, C.M.Q., O.l.E., Civil Sirgeon of Nymee Tal, are placed at the dispesal ol the Government of lndia, forcign Hepart ment.

Surgeons J. Hol.t, T. II. Griffith, J. L. T. Jonfs, bind W. F. Jexsinga, sre, brouglit on the sfrength of the Inmbay Establishment, Irom April 22nd, the dale of their arrival at Bombay.
late of their arrival al Bombay.
Singeon J. Garvif, Bengal Establishment, is mpninfed tu the oficinting Surgeon J. GaRvif, Bengal Establishment, is mponinted tu the oficinting
nedical charge of the l3th Hengal Lancers, wre Surgeon W. Cunry. M.B. nuedical charge of the lath
granted leave ont of India.
Surgeon A. CuLksax, Bengal Lstablishment, is sppolnted to the uffinting
medical charge of the IFth Rengal Lancers, vice Surgeon S. It. Itenderson, re commended for leave in India

Surgeon H. HENDIE Es, Bengal Establishment, is appoisted fo the civil medical charge of Dallonsie.

Surgeon-Minjor I3. O'BRIFx, Bengal Establishment, Civil Snrgeon of Fyzabad, is appointed to ofticiate as Civil Surgeon of Cawapore, during the absence on is applegre leave of Brigade-Surgenn J. If. Condon.
Surgeon II. P, DIMyock, Bombay Fsfablishment, is appointed Civil Surgeon of Sukknr, vice Surgeon-Major M. I.. Bartholomeusz. M. B., C.B., transferred.
Brigade-Surgeon G. Y, MUNTFR. Bombay listablishment, Presideacy Surgeon Third District, is allowed furlaugh to Europe for six months, on medical cerTinicate.

Surgeon-Gencral M. C. Firnfit, M.D. C.I.E., late of the Madras Establishmeat, died at Monte Carla on May $24 t h$, aged 58. Entering the sersice as Assistant-Surgeon, February Tili, 1850 ; he attained the rank of Surgeon-Geaeral, April Sth, I885. Ife served duriog the Iodian Iutioy in 1858-59, and was present at the battle of Dowdepore, in Oudh, and in the pursuit of Beni Madhoo and Runmust Siagh (medal). Ife was nominated Conipanion of the Order of the Indian Einpire, May gotb, 1836.

THE YOLUNTEERS
The resignation of Surgeon aad Ifonorary Surgeon-Major II. Meade, of the 2nd West Kidiog Artiller5, announced in the London Gazette of May $4 t h$, is cancelled.

Surgeon A. Hascritos, of the 2nd Volunteer Battalion of the Cheshire Begiment (late the 2nd Cheshire), is granted the hooorary rank of Surgeon- Ilajor.
The nodermentioned gentlemen are appointed Actiog-Snrgeons to the corps pecified.-R.S.Smite, M.B., Ist Volunteer Battalion Royal Higblanders (late the lst Forfar): A OnLiva, lat Volunteer Battalion Lincoln Regiment (late the Ist Lincolo) ; C. W. MacDowelL, M.D., 22ad Middlesex (Central London Rangers).

## THE PIISICAL TRAINING OF SOLDIERS.

Lord Wolseley has consented to preside at a meeting to consider the physique of soldiers and their physical training, to be held at the Royal United Service Institution, next Wednesday, when the subject will be opened by Colonel Onslow, Inspector of Gymnasia at Aldershot.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

ATTENDANCE ON THE FAMILIES OF MEDICAL MEN
B. N. asks whether it is according to professional custom for a doctor to make a charge for professional services to the child of another medical man, staying in a relative's house. The relative is charged with an account, but reiers the doctor for payment to the child's father. Should the latter pay without demir?
** A clearly defined answer to our correspondeat's question and its collateral hearinge will be found la the following rule, extracted from the Code of Medical Ethics, page 53:

All legitimate practitioners of medicine, their wires, acd chitdren, while under the paternal care, are entitled (not as a matter of right, but by professional courtesy) to the reasonable and gratuitous serrices-railway and like expenses excepted-of the facults residect in their immediate or near aeighbourhood, whose assistance may be desired. Io the case, also, of oear relatives who are more or less depeodent npon a professional brother (other than wealthy), It will lhkewise be well, at his request, to forego or to modify the namal fee. Oo the other hand, a son or daughter altogether independent of the father, or the widow and children of a practitioner Ieft in afnuent or well-to-do circumstances, should be charged as ordicary patients, unless feelinga of Iriendship, or other special reasons, reoder the attendant practitloner averse to professional remuoeration; in such case the rule need not appls. Moreover, if a wealthy member of the faculty seeks professional advice, and courteously urges the acceptance of afec, it should not be declined, for no pecunlary obligation ought to be imposed oc the debtor which the debtee himself would not wish to incur."

## SFALED TENDERS.

Trep point involved in the question submitted by our cape Town correspondent is appareotly altogether so foreign to the general usage aod custom, ancient ad inodern, of the profession, that, after careIul research, we have faited to discover any ethical rule whatever bearing on the subject, thereby cvidencing, to our mind, the belief that "tendering" for a paid medical appointment has to merto been o biog unknown to the medical prolession; otherwise a rule bitherto been a thing unknowa to the riedical protession, with a a rule in refereace thereto wonld, we thiok, have been formulated with the view of guarding, as far as may he, against any appreheoded abuse thercof. Io the absence, therelore, of such a rule, we do not hesitate to express the opinion that, for any legitimate practitioner to send in a "sealed tender" for the medical appointment advertised is the Cape Times would be regrettable.

TOD HEATLIF AND ELLIOT AND FRY F. BENHAM.
The, Secretaby of the Quees's Junhlee Ifospital writes: As an impression appears to prevail in some quarters that the "Queen's Jubilec" Fospital is to be closed in consequence of Mr. Justice Kekewich's judsment in this action (based on the decision of the late Master of the Bolls, that "some throat affections might be contagious," and so constitute a legal nuisacce), and as such an impression is calculated to damase the hospital. will you and as such an impression is caicuated to iamatre take effect forsix months krody allow me to stare from the date of the judgment, and ind and, If necessary, fo the highest tribunal. as the judgment affects all existing institutions: and, in the event of the judgment beiog upheld, the hospital will be carried on at other premlses in the immediate meighbumrhood?

## UNIVERSITY INTELLIGENCE.

TIIE ROYAL UNIVERSITY OF IRELIND.

At the close of the Spring Eraminations in the Faculty of Medicine, the Senate awarded the following honours and exhibitions. Third Examination in Medicine.
First Class Honours.- J. M. Hall, Queen's College, Belfast ; J. W. Wolfe, Qneen's College, Cork.
Second Class IIonours.-Eleonora L. Fleury, London School of Medicine for
Women; J. Jackson, Queea's College, Cork.
Fxhibitions.
First Class, £30.-J. M. Hall (disqualified by standing) ; J. W. Wolfe. Second Class, £0.-E. L. Fleury.
At a public meeting of the Unirersity held on Friday, May 18th, the following degrees were conferred by the Vice-Chancellor.

The degree of Doctor of Medicine.
J. F. St. Jobn Annesley, J. Clifford (in absentió) J. H. Corcoran, D. Crowly. J. Hunter. G. Lore, J. J. Lynch (in absentii), D. Mckee, M. Molony (ins absentiá), P. J. O'Briea, L. O'Clery, II. Semple, II. Smith (in absentiá), J. W. Wilsoo.

The degree of Bachelor of Medicine.
T. E. Dunne, W. R. Gore, J. J. Griffin, W. Kelleher, P. Mchema, A. K. Mahood.
The degree of Master of Surgery.
J. F. St. John Accesler, J. Clifford (in absentiá), J. H. Corcoran, D. Crowly: R. B. Gorsuch, M.D., J. Hunter, J. J. L.ynch (in absentig). D. McRee, P R. B. Gorsuch, M.D., J. K, C. W. Morgan. M. D. (in absentué), J. J. O'Bries. P. J. O'Brien, L. O'Clery, M. Semple, H. Smith (in absentui).

The degree of Master of Obstetrics.
J. H. Corcoran, D. Crowly, J. R. Davison, M. D., A. E. Mahood, H. Smith (in absentiá), J. Tomb, M.D. (in absentiá).
The degree of Bachelor of Surgery.
T. E. Duone, W. R. Gore, J. J. Grifin, G. Love, M. Molony (in absentian, J. W. Witson.

The degree of Bachelor of Obstetrics.
T. E. Duane, W, I. Gore, J. J. Grifig, G. Lore M. Molony (it absentios), J. W. Wilson.
The diploma in Sanitary Science.
C. F. Knight, M.D.

The degree of Master of Arts.
M. Henry

Eighti Centenary of the Lititrasity of Bologica.-The Senate has deputed Dr. Moffett, President of the Queen's College, Galway, and Dr. Dunne, one of the Secretaries, to represent the Royal Unirersity at the celebration of the eighth centenary of the Unirersity of Bologna.
Recognition of a Cork Hospital.-The Senate resolved to add to the list of recognised medical institutions the Eye and Ear Hospital, Nile Street, Cork.

Tratelling Medical Scholarships.-The Senate decided to modify the rules respecting the standing of candidates for the trarelling medical scholarship, so that in and after the year 1889, any person who may hare passed the examination for the primary medical degrees, either in the year in which the scholarship examination is lield, or in the year immediately preceding, shall be eligible to compete for it.

Regelations for B.CH and B.A.O. Dparees.-The Senate decided to admit to the degree of B.Ch. all graduates who obtained medical degrees in this Unirersity in the years 1882 to 1867, inclusive, upon payment of the fee of $£ 5$, and upon passing an examination in operatire surgery only, provided such graduates had obtained at least 50 per cent of the marks assigned tosurgery at the medical degree examination. The Senate also decided to admit to the degree of B.A.O. all such graduates as above mentioned upon payment of the fee of $£_{2}$, Without further examination, provided such graduates had obtained at least 50 per cent, of the marks assigned to midwifery at the medical degrees examination.

## CAMBRIDGE.

Assistant to the Professor of Strgeey.-Josepl Griftiths, M.B., C.M.Edin., and D.P.II.Camb., has been appointed Issistant to the I'rofessor of Surgery (Dr. Intmphry).

Exammers.-Dr. Donald Macalister, Dr. Broadbent, and Professor Julius Dreschfeld have been nominated as Fxaminers in Medicine: Dr. Galabin and Dr. Gervis, Examiners in Midwifery; Mr. Wherry, Mr. Macnamara, and Mr. Willett, Examiners in Surgery.

Eightil Centenary of the University of hologiva.-A congratulatory address has been prepared for presontation to the University of Bologna, upon the occasion of the eighth centenary of its foundation. I'rofessor Adams, Professor Xiddleton, Dr.

Jebb, and Mr. Justice Denman, have been appointed to represent the University of Cambridge at the ceremony.
practical Conise in Ilyarene.- A course of practical instruction in hygiene will be given hy Dr. Anningson and Mr. Robinsen, M.A., at Cambridge during the long racation. Short explanatory lectures will be given, but the greater part of the course will censist of practical laboratory work, including amalysis, microscopy, and the cultivation and recegnition of micro-organisms. Special attention will be giren to the examination of air, water, and foods to meet the requirements of medical ollicers of health, and the principles of drainage and ventilation will be dealt with in lectures illustrated by diagrams and models. The course is not limited to persens who are members of the University. Further particulars will be found in our advertising columns.

## VICTORIA UNIVERSITY.

In connection with the incorporation of the Yorkshire Callege with the Yictoria University, the College Council has created two new professorships in place of the former lectureships in midwifery and pathology in the medical department. Mr. C. I. Wright has been appointed Professor of Midwifery, and Dr. E. II. Jacob Professor of I'athology and Morbid IIistology. The Senate has elected Professors Eddison and Smithells its representatives in the Court of the Unirersity.

## INDIA AND THE COLONIES.

## AUSTRALASIA.

Intercolonial medical Cosgress at Melbourne.-The first Intercolonial (Australasian) Medical Congress was held in Adelaide last year; the next is to assemble at Melbourne, and it was originally intended that an interval of three years sheuld be allowed to elapse, but as the Centennial Exhibition is to open during the next Australasian summer, it has now been determined to hold the Medical Congress in Jannary, 1889, when the Exhilition will be in progress. The President is Mr. T. N.' Fitzgerald, F,R.C.S.I.

## INDLA.

Tuu Bombay European General Hospital is in a very unsatisfactory state, and the Government resolution imposing onather delay of six months in carrying the extensien scheme to completion is regarded as most disappointing. The Government years back admitted the urgent need of improved accommodation for the nurses, and the present shilly-shallying is causing great discontent.
Kashimir Medical Mission.-The report of the Kashmir Medical Mission for 1887 shews that the area of the work is increasing; the uumber of patients exceeded all previous records, and there was a propartienate increase in the number of major operations. In addition to the patients seen at the base, nearly three months wore spent in itineration, over 6,000 patieuts being treated in the parious villages. The dispensary equipment on these journeys consisted of two coolie loads of concentrated mixtures, pills, or drugs in bulk, and surgical iustruments. In one such journey of four days, 1,200 patients were seen, and 120 operations performed. A very large proportion of all the operations done were on the eye, and the majority of these for trichiasis. Mr. A. Neve and Dr. E. F. Veve, the medical missionaries, state that they now perform a modification of Stellwag's operation, the total number of ejes thus treated for trichiasis being about 900. Miss F. Butler, Ml.D., and Miss IIull, with probably other ladies, were expected to join the mission this jear. Subscriptions are asked for, and may be paid to the Rev. J. Lowe, F.R.C.S., 56, George Street, Lidinburgh,

## OBITUARY.

WILLIASH A. RICHARDS, M.D.Lond.
We deeply regret to hase to record the death of Dr. William Alscet Richards, of Winchester, which took place on Tuesday, May 8th, at 16 , V'itzroy Square, London, at the early age of 42 , from hemerrhago following an operation for fistula.

Dr. Richards, who was a mative of Cornwall, had a very brilliant college career. Ite atudied at King's College, London, where he
obtained an exhibition in Chemistry and Materia Medica, passing First M.B. in 1805, L.R.C.P.Lond., 1867, M.R.C.S.Eng., 1867, M.B. and Medallist in Medicine, 18tix, M.D.Lond., 1871. Me went to Winchester some seventeen years ago as house-surgeon to the County Hospital, and after remaining there about eighteen months went into partnership with the late Dr. Butler, with whom he remained until the death of the latter. Since then he enjoyed an extensive practice in the city and neighbourhood, being recently assisted by his brather, Mr. D. Richards, his pleasant and genial manners making a host of friends, to whom the news of his death came as a sad surprise, and by whom he is most sincerely mourned. He was one of the physicians to the County Ilospital and medical officer to Wiuchester College, Hants County Constabulary, the City Police, and H.M. Prison.

## MATTHEW BALLIF GALRDNER, M.D.EDIN.

We regret to announce the death of Dr. Matthew Bailie Gairdner, late of Crieff, which took place on May 18th. The deceased gentlemen, whose connection with the district as a medical practitioner extended over fifty years, was born in Glasgow in 1808. III family removing while he was a youth to Edinburgh, where his father held an appointment in the customs, he was brought up to the raedical profession, and, as was the custom in those days, apprenticed to one of the leading city firms, Messrs, Bell, Russell, and Co. one of the partners being Russell, the professor of clinical surgery, and another, Ross, a well-known medical practitioner of Edinburgh. Two of his co-apprentices were Dr. Ormond, of Edinburgh, and Dr. Fraser Thomson, of Perth.

Commencing his medical studies at the age of 15 , he obtained the licence of the Royal College of Surgeons at the early age of 19 , and two years later (in 1830) he graduated M.D. at the University of Edinburgh. He held the appeintment of house physician to the Fever IIospital in Edinburgh, and subsequently went to Comrië as private physician ta Sir Robert Dundas, of Dunira. IIere he soon acquired a large and lucrative practice. A few years later he removed to Crieff, and shortly after the passing of the Poor-law Act he was appointed medical officer of the Crieff Parochial Board, a past he held till three days before his death. He was also connected for some years with the local volunteer corps as assistant surgeon. Simpson, Christison, and Symes. On the discovery of the operation for strabismus he operated extensively in the district. Among the minor operations, he was fond of hare-lip and clubfoot cases. Ile was universally successful, and was able to boast that he never lost a case, even among his major operations. He was for many years a member of the British Medical Association.

SURGEON-MAJOR WILLIAM CAREY COLES, M.D.Edin. This distinguished administrative ofticer of the medical department of Bombay was the son of the Rev. Thomas Coles, of Bourton-on-the-Water, Gloncestershire, where he was born in 1817; he received his medical education at University College, the College of Surgeons, and Apothecaries' 11all, Lenden, taking the Fellawes gold medal and his diplemas 1839-10. Betweeu tho latter year and 1813 he served on board the IIonourable East India Company's troopship Mincrva in the Eastern Seas, receiving two silver medals, one for the China war and the other for the taking of Canton. On his return to England he took the degree of MI.D. at Ldinburgh, in 1814. In the following year he obtained his commissiou as an assistant-surgeon in the Bombay ariny.

For several years he was employed in various appointments on general duty, serving at different times with the 78 th IIighlanders, the outls lisombay Native liegiment, and the Madras Artillery; and as assistant civil surgeon and surgeon to the coroner and garrison surgeou at Bombay. In 1849 he was appointed I'rofessor of Midwifery and Medical Jurisprudence in the Grant Medical College, and held these appointments until 1854, acting for some time in 1852-53 as principal of the College during the absence on furlough of the late Dr. Iferbert Giraud. IIariug frequently acted from $18+8$ as secretary to the Bombay Medical lloard, he was permanently appointed to that oflice in April, 1855, and continued to hold it te his retirement from the service in 186.

It has been truly remarked that it was in this position that he made his reputation as an administrative officer of the highest eficiency and distinction. To great natural capacities for euch duties as were now required of lim lie added habits of the most
indefatigable self-denying industry and of the exactest regularity in the distribution and despatch of his work. llis benevolent character, genial and engaging manner, won for him many friends, and on his leaving India he was presented by his brother officers with a service of silver. Dr. Coles was in his 7lst year.

# PUBLIC HEALTH <br> AND 

## POOR-LAW MEDICAL SERVICES

## DIPMTIIERIA AT ENFIELD.

Diphtheria has for a long time maintained itself in Enfield, and since 1873 scarcely a year has passed without deaths from that disease being registered in one or another portion of the district, During the last three years the number of such deaths has increased, and this increase has been coincident with a general prevalence of diphtheria over a wide area of conntry north of London. During 1886, in the Enfield distriet twenty-four deaths from diphtheria and four others from "croup" were registered, and during the first three quarters of 1887 cases continued to occur in varinus parts of the district. Towards the end of September last diphtheria began to be epidemic, especially in central Enfield, and between that time and the end of Jaunary of the present year 213 cases, of which forty-eight were fatal, were reported in the district.

At this stage, in consequence partly of the local panic, an inquiry was undertaken by the Local Government Board, and was entrusted to Dr. Bruce Low. But owing to the circumstance that, antecedent to its extension last-autumn, diphtheria had persisted for several years in Enfield, and to the lapse of time since the commencement of epidemicity of the disease, Dr. Low's report, just published, does little more than reriew the chief conditions, so far as they could be learned, under which epidemic diffusion of the disease has occurred. A "sewer-gas" theory had locally most acceptance as the prohable cause of. the diffusion; but it is discarded by Dr. Low, who points out that, as a matter of fact, objectionable sewer emanations were complained of over, a rery wide area, whereas epidemic diphtheria was restricted to certain definable limits. Moreover, the first outbreak of the disease in September and October last was not in localities whence the chief complaint of foul emanations from sewers has come, but in another part of the district which has not been specially troubled in this fashion. The water-supply was also accused, but Dr. how easily shows that accusation to be unfounded.
On the other hand, the medical officer of health's suspicions as to contaminated milk were ridiculed in some qnarters; and few appear to have agreed with him in suspecting elementary sehools as having had large concern in the spread of the diphtheria. In reality school attendance was the strongest influence in the spread of the disease. In one school, having an arerage attendance of 110 scholars, 23 had diphtheria in the course of a few weeks, and 11 of these died of the disease. Another school, situated at some distance from that already referred to, and still further from the locality of chief epidemicity of diphtheria in:December last, supplied eridence of the same sort. Among several hundred houses having like conditions of population and sanitary and other circumstances, diphtheria tended to pick, out (so far as fatal diphtheria was concerned, it did so without exeeption), families which sent children to the schools in question. Thus, of 20 families in Central Enfield invaded during the first three weeks of this year, at least 14 got their diphtheria in the persons of children attenting those schools. The milk-theory of the medical offieer of bealth is also borne aut by some very convincing figures, but cannot be positively prored at this distance of time.'

Many other influences tended to foster diphtheria in Enfield: Not a few instances came to light in which paronts. accompanied often by children, had visited at houses where diphtheria existed for the purpose of condolence, of gossip, or of ille curiosity; and very commonly children, regarded by their:parents'as praotically well after diphtheria, were sent to school without trouble on the part of anyone to obtain certification as to freedom from infec'tion. So, too, as regards what appear to have been mild cases of diphtheria, people hare, been content to take advice from "chemists," Who in turn have given medicine for "colds," "teething," and the like, with the result' that, in several instances,
children having decided diphtheria have mingled freely with their fellows.

Again, there is a custom among the working class in Enfield, as, indeed, elsewhere also, of assembling children of the family in the sickroom to take their last leave of the relatice dead or dying from infectious disease, and Dr. Low gives some instances in which children have even been brought from other districts to take part in such formal leare-taking. Domestic animals have also fallen under suspicion in the Enfield epidemic, cats being observed to suffer in considerable numbers from illness. Though there were no known causes of diphtheria occurring in the practice of the veterinary surgeons of the locality, yet they saw many cases of "influenza" at this time among animals. Several curious illustrations are detailed by Dr. Low
Diphtheria is a disease around which a great deal of obscurity still hovers, and every fresh link in the chain of evidence is welcome. Much has been elucidated from time to time hy the medical staff of the Local Government Board, but it is unfortunate that stuch opportunities of studying a sustained epidemic as has recently been afforded at Enfield should so often be lost. This is mainly owing to the smallness of the staff of inspectors, but is none the less unfortunate.

## DISEASES OF THE RESPIRATORY ORGANS AT M11DDLESBROUGH.

IT has been reported that a rapidly fatal epidemic, supposed to be due to noxious fumes emanating from a factory in the neighbourhood, prevails at. Middlesbrongh-on-Tees. We have made inquiries into the matter, and are informed by Dr. Malcolmson, the medical officer of health for the district, that there is no epidemic there traceable to noxious fumes. In common with all towns on that coast, they have had a large fatality from diseases of the respiratory organs (pneumonia, bronchitis, and phthisis), during the months-of March, April, and the early part of May. Pneumonia, always very prevalent at Middlesbrongh in the spring months, has this year been exceptionally prevalent, and the people of this district have suffered greatly from the east and north winds, the atmosphere this year being for a long time charged with moisture. The population is an iron-working one, and the labour, which is hard, is carried on in a hot atmosphere, which canses free perspiration; resting on the way home the men are prone to get sudden chills, and these circumstances are, in Dr. Malcolmson's opinion, sufficient to account for the exceptional fatality experienced during this, as in prerious springs.
-Heatif or English Towns.-During the week ending Saturday, IIay $26 t h, 4,911$ births and 3,201 deaths were registered in the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons. The annual rate of mortality, which had been 17.6 and 18.9 per 1,000 in the two preceding weeks, declined again to 17.8 during the week under notice The rates in the several towns ranged from 10.9 in Birkenhead, 11.6 in Portsmouth, 13.3 in Nottingham, and 15.7 in Derby to 22.8 in Salford, 22.8 in Norwich, 24.8 in Manchestcr, and 27.5 in Preston. The mean death-rate in the twentyseven provincial towns was 18.5 per 1,000 , and was 2.2 above the rate recorded in London, which did not exceed 16.6 yer 1,000 . The 3,201 deaths registered during the week under notice in the twenty-eight towns included 285 which were raferred to the principal zymotic diseases, against 257 and 330 in the two preceding weeks; of these, 113 resulted from whooping-cough, 33 from diarrhea, 36 from scarlet fever, 36 from neasles, 29 from diphtheria, 25 from "fever" (principally enteric), and 8 from smallpox. These 285 daths were equal to an annual rate of 1.6 per 1,000 ; in London the zymotic death-rate was 1.5 ; while in the twenty-seven provincial towns it averaged 1.4 per 1,000 , and ranged from 0.0 in l'ortsmouth and 0.5 in Birkenhead to 2.3 in Salford, 2.5 in Nottingham and 2.6 in Wolverhampton. Measles caused the highest proportional fatality in Nottingham and Derby: scarlet fever in Blachburn and Halifar: whooping-cough in Leeds and Salford : and "fever" in Derby and IIull. The 29 deaths from diphtheria in the twenty-eight towns inchuded 19 in London, 2 in Liverpool, and $\stackrel{2}{2}$ in Norwich. Of the $S$ fatal cases of small-pox recorded during the wrek under notice, 3 occurred in Sheflicld, 2 in Preston, 1 in Fristol, 1 in Oldham, and 1 in lull. The Metropolitan Asylums Ilospitals contained only 4 small-pox patients on Saturday, May $\because 6 t h$, and no nem cases were admitted during the week. These hospitals also contained 891 scarlet fever patients on the same date, asainst 91 and 82
at the end of the two preceding weeks; there were 66 admissions during the wrek. The death-rate from diseases of the respiratory organs in London was equal to 2.8 per 1,000 , and was considerably below the arerage.

IIEALth of Scotch Towns.-In the eight principal Scotch towns 860 births and 529 deaths were registered during the week ending Saturday, May 26th. The annual rate of mortality in these towns, which had been 21.1 and 19.3 per 1,000 in the two preceding weeks, rose again to 20.9 luring the week under notice, and exceeded by 3.1 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch torns the lowest rates were recorded in Leith and Dundee, and the highest in Glasgow and Perth. The 529 deaths in these towns during the week under notice included 51 which were referred to the principal $z$ ymotic diseases, equal to an annual rate of 2.0 per 1,000 , which exceeded by 0.4 the mean zymotic deathrate during the same period in the large English towns. The highest zymotic death-rates rere recorded in Paisley, Greenock, and Glasgow. The 257 deaths in Glasgow included 13 from measles and 9 from scarlet fever. The mortality from diseases of the respiratory organs in these towns was equal to 4.0 per 1,000, against 2.8 in London.

Health of Irist Towns.-During the week ending Saturday, May 26th. the deaths registered in the sisteen principal towndistricts of lreland were equal to an annual rate of 23.3 per 1,000 . The lowest rates were recorded in Galway and Sligo, and the highest in Lurgan and Drogheda. The death-rate from the principal zymotic diseases in these tomns areraged 2.4 per 1.000 , and was highest in Wexford, Lisburn, and Lurgan. The 165 deaths registered in Dublin during the week under notice were equal to an annual rate of 24.4 per 1,000 , against 23.1 and 23.6 in the two preceding weeks, the rate for the same period being 16.6 in London, and 17.8 in Edinhurgh. The 165 deaths included 17 which resulted from the principal zymotic diseases (equal to an annual rate of 2.5 per 1,000 ), of which 7 resulted from whooping-cough, 5 from scarlet fever, 2 from measles, 2 from diarrhoa, and 1 from "ferer."

PENALTY FOR THE SALE OF UNSOUND MEAT. Ar Dumbarton Police Court a sausage-maker and butcher was lined $£ 10$, with an alternative of 60 days' imprisonment, for having on his premises intended for sale or the manufacture of sausages a quantity of meat which the medical officer of health declared to be in a state of decomposition and unfit for food. When the meat was scized it was about to be cut up for sausages. The full penalty allowed was imposed, and was paid.

PAYMENT FOR ATTENDANCE ON A CASE OF ABORTION. Nom. DE PLUME asks whether he is entitled to a fee under the following cir cumstances.
I atteaded a woman for ahortion by an order from the overseer, and had to continue in atteadance for ahout seven weeks, as she suffered from severe post-partum hemorrbage. I charged $£ 2$ ia my balf-yearly hill to the guardians, but they say I am not entitled to a fee, as it was an abortion, of course $I \mathrm{am}$ aware that a case of abortlon per se is not pald for, but I lmagined course I am aware that a case of abortion per se is aot pald for, but I lmagined labour.
"* "Nom de Plume" hae no legal claim upon his guardians, but boards of guardlaus frequently entertaln an application for remaneration under exceptlonal circumstances.

## MEDICAL NEWS

Rofal Collegr of Sorgeons of Enriland.-The following gentlemen passed the first professional examinations in Anatomy and Physiology for the Diploma of Fellow at meetings of the Board of Examiners on May 23rd and 24th, namely :-

Bailey. Rohert Cazens, St. Bartholomew's Iforpital.
Box, Charles flichard, St. Thomas's Hospital
Caley, Henry Alhert, St. Mary's Hospital.
Corner, Albert, St. Bartholomew's Hospital.
Fawcett, John. (Huy's Itospital.
Fox, Herbert. St. Bartholomew's Ilospital.
Moorc, Joseph, St. Bartholomew's Hospltal.
Wall, John Frederick, St. Bartholomew's ILospital.
Plagiair, Ifugh James Mnore. King's College
Ronald, Arthur Edwin. Cambridgo and St. Thomas's Hoppital.
Ross, Arthur MacLeod, Edlaburgh University.
Houllard, Laurent Antoine John, St. Thomas's IIospital.
Schorsteln, Gnstave Isidore. Oxford and London Hospital.
Stevens, Cecil Robert, St. Bartholomew's Moapital.
Waring, Ifolhurt Jacob, St. Barthelomew's Hospital.

Rofal Collegr of Surghons in Ireland.-The following gentleman has been admitted a Fellow of the College after examination.
II. M. Bralazon, M.B., B.S.Univ.Dub., L.K.Q.C.P.I., Indian Mealical Department.

Society of Apotifecaries of London.-The following gentlemen having passed the Qualifying Examination in Medicine, Snrgery, and Midwifery have received certificates entitling them to practise in the same, and hare been admitted as Licentiates of the Society.

Ashe, Felyn Oliver, of the London Ilospital.
Bour, Edouard Francuis, of University College.
Brett, William George, of Guy's IIospital.
Gunton, George Audrew, of St. George's IIospital.
Hughes, Samnel IIcnry, of St. Bartholomew's Hospital.
McOscar, John, of the Middlesex Hospital.
Part, John Shepley, of the Westminster I ospital.
WFilliams, William Wilfred, of Guy's Hospital.
The following Licentiates passed the Qualifying Examination for the present Diploma.

Bately, IRobert Godfrey, 169, Ifigh Street, Gorleston.
Collier, William Itenry, Hrook House, Carbrook, Sheffield.
Key, Augustus Cooper, 30, Wilton Place, Belgrave Square, S.W.
Laugston, Johu James, Newington, Sittingbourne
Smith, Ebenezer Thomas Aydon, 2, Alexandra Road, N.W.
Stepheos, William John, 41, Granō Parade, Brighton.
Wordley, Alfred William, 8, Great Suffolk Street, S.E.
The following gentlemen passed the Surgical portion of the examination.
P. T. B. Beale, of King's College ; W. II. Best, of the London Hospital ; C. E. Dodd, of the Liverpool School of Medicine; W. G. Gray, of Belfast; F. Hues, of Queer's College, Birmiagham; P. J. Le Riche, of University College: S. L. Melville, of the Liverpool School af Medicioe: II. E. Owen, of the London IIospital : M. Tench, of the Midalesex Hospital.
The follorring gentlemen passed the Medical portion of the examination.
E. C. Masser, of Queen's College, Birmiagham: W. G. Sargent, of the Loadon Hospital.

## MEDICAL VACANCIES.

The following Vacancies are announced:
BALTINGLASS UNION.-Medical Officer, Dunlavin Dispensary, Salary, E135 per annum, and fees. Applicatious to Captain Heighton, J.P., Houorary Secretary, Dooard IIouse. Election on Jupe 13th.
BERKS COUNTY ASYLUM, Wallingford.-Assistant Medical Officer as Locum Tenens. Two guineas per week, with board, etc. Applications to J . Harringtou, Esq., Medical Superiatendent
BOAID OF WORKS FOR THE WANDSWOIRTH DISTRICT.-Medical Of ficer for the Parish of Clapham. Salary, $\mathbf{E 7 5}$ per annum, with increase. Applications by Jure 12th to the Clerk to the Board, East Hill, Waads worth.
BRECON INFIRMARY.-Resident House-Surgeon. Salary, $£ 100$ per anaum with furnished apartments, etc. Applications by June 5th to the Secretary.
BRIGHTON, HOVE, AND PRESTON DISPENSARY.-House-Surgeon. Salary, E140, with apartments, etc. Applications by Juac 2ad to the Assist ant Secretary.
BUCKS COUNTY LUNATIC 'ASYLUM, Stone, near Ayleshury.-Asslstant Medical Officer. Salary, eloo per ammum, with board and lodgiag. Appllcatioos by Juve 8th to the Clerk to the Committee of Visitors, County Hall, Aylesbury.
CARMARTHEN UNION (Couwil Dlatrict)-Medical Officer. Salary, £60, and also Officer of Health, £l8 10 s. and vaccination fees. Applications by June 7th to R. Browne, Ksq., 5, Hali Street, Carmarthen.
CHILDREN'S HOSPITAL, Birmiagham.-Assistat Resident Medical Officer. Salary, eto, with board and lodging. Applications by Juue bili to tho Secretary.
CHILDREN'S HOSEITAL, Birmingbam.-Resident Medical Officer. Salary, £80, with board aad lodgiag. Applications by June 6th to the Secretary.
CITY OF LONDON HOSPITAL FOR DISEASES OF TIIE CHEST, Victoria Park, R.-Assistant Physician. Applleations by Juse fth to the Secretary.
DUFFUS PAROCHIAL BOARD.-Medlcal Officer. Salary, e35. Applleatlons by June 23rd to John Nicoll. Lsq., Inspector of Poor, Hopernan. N.B.
FOLKESTONE FRIENDLY SOCIETEES MEDICAY ASSOCIATION. Medical Officer. Salary, 2150 , with fecs and unfurnished apartments. Appllcations by Juae 6th to the Secretary, 47. St. Michael's Street, Folkestone.
FULHAM UNION.-Resident Medical Superintendent of Infirmary, and Medical Officer of the Union Workhouse. Salary, £350, with resldence, etc. Applicatlons by June 5th to the Cierk to the Guardians.
KING'S COLLEGE HOSPITAL.-Aesistant-Surgeon. Applleatlous to the Secretary.
LONDON TEMPERANCE HOSPITAL, Hampstead Road.-Surgeon. Appllcations by June 16 th to the Secretary.
METROPOLITAN ASYLUMS BOARD: WESTERN FEVER HOSPITAL, Fulham, S.W.-Clinical Assistant. Board and lodging. Applications to the Medical Superinterdent at the liospital.
MILLEI IIOSPITAL AND ROYAL KENT DISPENSARY, Grcenwich Road, S.E.-Junior Resident Medical Offeer. Salary, z 30 per annum, apartments, board, etc. Applications by June 9th to the Honorary Secretary.

NORTH LONDON CONSITMPTION HOSPITAJ, IIAmpstead and London. Ikeshent Medical Onticer. Sitary, \&50 per anmum, with board and lodgiog. Applications by June 2od to the Secretary.
NOTTINGHAM GENERAL HOSPITAL, - Resident Surgical Isoistant. Board and ludying. etc. Appliantions to the secretary.
OWENS COLLEGE, Manchester.-Protessor of Surgery. Applications by June 9 th to the Iicgistrar.
PARISH OF LOCHs, Stomowny, -Medical Officer. Salary, elyo, house and rates free. Applications bs. Jure Di3nd to 1I. McL. Ross, Inspector of the Poor, Lochs, Stornoway.
PARISII OF ST, MARY ISLINGTOS (MLird District, Lower Holloway).Medical Officer. Salary, etuo per amum, with fees. Applieations by June 6th to Edwin Lavcy, Esy., Clerk, Guartians' Officeq, St. John's Lioad, L'pper Holloway, N.
QUEEN'S COLLEGE, Birmingham,-Assistant Medical Tutor. Applications by Jume 20th to the Secretars.
ROYAL LONDON OPHTHALMIC IIOSPITAL, Moorfields.- Curator and Librarian. Non-resident. Salary, elvo. Applications by June ith to the Secretary.
KOYAL SOUTH HANTS INFIRMARY, Southampton. - House-Surgeon. Salary, £100, bard, lodging, etc. Applications by June 20 th to the Secretary.
SHEFFIELD GENERAL INFIRMARY.-House-Surgeon. Salary, £120, with board, lodying, etc. Applications by June 18th to the Secretary:
GHEFFIELD GENERIL INFIRMARY.-Assistant House-Surgeon. Salary, S80 per annum, with board, lodgiag, etc. Applications by Jnae Isth to the Secretary
SURREY DISPENSARY, Great Dover Street, Southwark.-llouse Surgeon. Salary, :£120, and furnished apartments. Applications by June $19 t h$ to the Subcommittee.
VICTORIA HOSPITAL FOR CHILDREN, Chelsea.-House-Physician. Honorarium of £50, with board and lodgiug. Applications by June 2nd to the Secretary.
VICTORIA HOSPITAL FOIt CHILDREN, Chelsea-Honse-Surgeon. Honorarinm of £よU, with board and lodging. Applicatioas by June 2nd to the Secretary.
WELLINGBOROLGH AND DISTRICT MEDICAL INSTITUTE,-Medical Ofticer. Salary, $£ 280$, and liees, with dwelling-house, etc. Applications to G. Bayes, Esq., Jaekson's Lane, Wellingborongh.

TVESTERN GENERAL DISPENSARY, Marylebone Road, N.W. - Junior House-Surgeon. Salary, é75, with apartments, etc. Applications by June
4th to the Secretary.
WESTPOLT UNION.-Medical Officer, West port No. 2 and Louisburgh No. 2 Districts. Salary, £3y per anum, and fees. Election on June 21th.

## MEDICAL APPOLNTMENTS

Avimrsun, Duuglas II., M.B., C.M.Edin., appointed Assistaut Medical Ofticer to the Hull Boroogln Asylum, vice W. V. M. Koch, resigned,
Barnes, W. S., M.D., appoiated Supernumerary Surgeon to the Colony of Britisb Guiana.
Blakeney, J. H., M.R.C.S., L.R.C.I'., appointed Resident Surgeon to the Bir mingham General Dispensary, vice J. H. North, M.M.C.S., L.J.C.P., re signed.
Brax, G. A.T., M.I.C.S., L.I.C.P., appointed Honse.Surgeon to King's College Hospital.
Beckanham, John, L.R.C.P., M.R.C.S., appointed Medical Officer to Her Majesty's Prison, C'ambrillre, vice T. II yde Hills, Esq., M.h.C.S., resigned
Cheatle, C. L., M.K.C.S.. L.s.A., appointed Assistant House-Physician to King's College Hospitai.
Drew, H. W., M.R.C.S., L.R.C.P., ppointed Honse-Surgeon to the Croydon General Mospital, vice A. Matthey, M.R.C.S., L.R.C.P., resigned.
Hensley, Arthur E., M.M.C.S., L.S.K., appointed House-Surgeon to King's College IUsigital.
Hill, W. J., L.lR.C.P., M.R.C.S., appointed Mouse-Mhysician to the Bristol hoyal Intinomary, vice 1'. Watson Willians, M.B., M.Li.C.S., resigned.
IRvixg, M. 1I. C., L.R.C.P. and I.R.C.S.Edin., appointed Supernumerary Surgeon to the Colony of Britibla Guiana.
Jones, G. Carleton, M.I.C.S., appointef Ilouse-Aceoucheur to King's College Hospital.
Ond, W. T., M.R.C.S.. L.R.C.I', appointed Iessideut Surgeon to the Bimming ham Gencral Dispensary, vice S. C. Lawrence, M.R.C.S., L.R.U.L'. resigned.
 King's College 1luspital.
Tugobaliss, Owen L., M.R.C.S., L.IR.C.I'., L.S.A., appointed Ifouse-Surgeon to hing's College Hospital.

 resigned.
WARD, Howarl l'. M.R.C.S., L.S..1., appointed Ilonse-Ihysician to hing's Collegr llospital.

Tus lospr 1'sLe Associatios. -The anmual generul mecting of the $l l o s p i t a l s$. $s$ suciation was held recently at the $V$ Hestminster Tawn Hall, under the presideney of Dr. Bristowe. In opening the proceedings, the chaiman referred with regret to the resignition of Sir Andrew ('lark, who wus president of the association, and proceeded to deal at lenglh with the questions of the registration of murses and the Nurses Tension Fund. In reference to the first subject, he said it had beru found that it was neitler fersible nor
acceptable to introduce that system at present. The Nurses l'ension Fund had heen subjected to very considerable criticism, with which he dealt at length, and said that the success of the fund depended upon whether nurses could afford to make present sacrifices for the prospectife benefits which it offered, and whether the friends of nurses would give adequate assistance in the matter. He based his hopes of its success upon the association of the eleemosynary element with the strictly commercial portion of the undertaking. The contributions of the public to the fund could not be regarded as charity, any more than pensions to those who bad rendered public scrvice. It mould be disastrous if the fund were to fail. Mr. Nenry Burdett, in seconding the mation for the adoption of the annual report, remarked that the question of failure had ceased to be a factor in the history of the National Pension Fund for Nurses, for arrangements had been made to issue 200 policies to nurses in this country, and many more forms of proposal were in process of preparation. One great difficulty they would have to meet in connection with the fund was, that they would have to provide for a number of people who had passed the age at which they could pay at the actuarial rate which would procure them the minimum pension they desired. That difficulty, howerer, had been met by its being decided to keep faith with the nurses who first registered themselres, and by guaranteeing to any nurse who would consent ta give one-eighth of whaterer her earnings were, that she should receive a minimum retiring allowance of 10s. a week. Mr. C. W. Sinclair Cor urged that the apathy of the public in reference to the deficiencies in hospital finances was due to the facts and figures not being freely published. Mr. Burdett denied this, and claimed that all the representative London hospitals were willing and anxious to encourage inquiry into all their affairs. The accounts were audited hy professional auditors, and as the question affected $£ 500,000$ a year, it was desirable that that fact should not be ignored. Formal business was transacted, and the proceedings closed with thanks to the president.

Worshipfll Company of Plcmbers.-At the meeting of delegates just terminated at Sheffield of the Operative Plumbers Association of Great Britain and Ireland, ninety-seren of the chief towns of the kingdom being represented, the following resolution was moved by Mr. R.J. Lyne, delegate, Kensington Lodge, London, and seconded by Mr. T. Anderton, delegate, Liverpool:-"That this delegate meeting, having fully considered the system of registration of qualified plumbers established by the Worshipful Company of Plumbers, London, deem it worthy of adoption by the Association as a measure necessary in the interests of the trade and the public; and desire that the Executire Council do take steps to promote the extension of the system throughout Great Britain and Ireland, appointing representatives of the Association to act in the matter." It was supported by delegates from England, Ireland, Scotland, and Wales, und carried. The authoritative expression of opinion in farour of registration embodied in this resolution is the more satisfactory from the fact that the Company's registration system involves the technical training and examination of members of the craft. The decision must, therefore, tend botly to the immediate extension of technical training classes for plumbers, and to that ultimate improvement of plumbers' craftsmanship for which there is obrious need in the interests of the public health.

The twelftli annual meeting of the British Medical Temperance Association was held on May 30 th at 11, Chandos Street. The anmul report showed a further increase in the number both of memhers and associates who are abstaining students, especially of the latter, who had increased 69 per cent., the total number being 387 members and 187 associates. A report of the result of the republication of the three medical declarations of 1839, 184\%, 187l, stated that the firsthad been signed by $51 \%$ practitioners, the second by 526 , the third by 537 . One had signed the first only, 5 the sccond, and 22 the third. Nanes are stild being added, and the list will be published when complete. Dr. H. WF. Hillams read a paper on "The Alcohol llabit and Medical Authority;" in which he gave extracts from the published opinions of the two Cheynes, Dr. Beddoes, Dr. Hope, Sir B. Brodie, Dr. Grindrod, Dr. W. i3. Carpenter, and Dr. l'arkes.

Hirminguas DEDICAJ, Bfinevolext society.-The report of the sixty-sixtl ammual meeting of this deserving charity shovs the amount of invested finds to be fll,047 2s. 4 d. During tlee year £. 0210 s. lad been expended in grants among seventeen annuitants, the sums ranging between $\dot{£ 10}$ and ftO . The roll ot
henefit macmbers numbered $\mathbf{N} \mathbf{4}$. The financial statement read chowed a balance at the disposal of the Society of $£ 11,02515 \mathrm{~s} .5 \mathrm{~d}$. Sir Janes Sawyer sugnested that out of the Society's income of $\mathcal{L}_{6}(0)$ a hout $£ 50$ slrould be deveted annually to the relief of distressed medical men not members of the Society. On the proposition of Mr. Lawson Tait, seconded by Mr. C. A. Newnham, it was resolved to request the directers to consider what proportion of the funds of the Society they wonld recommend as a fund for casual relief. Dr. Warden was elected president, and Dr. Marriott president-elect. Dr. Harvey and Mr. Foster (Knowle) were appointed vice-presidents, Mr. Bartleet and Sir James Sawyer being re-nominated treasurers, and Dr. Sarage honorary secretary. Mr. W. P. Whitcombe and Dr. Kennedy were appointed scrutineers, and $\mathbf{M r}$. T. H. Ranehill auditor. Three directors were balloted for, the result being that sfessrs. II. M. Morgan (Lichfield), Priestley Smith, and Lawson Tait were elected.
Societt for Relief of Widows and Orphans of Medical MEx. - The report presented to the annual general meeting of the Socicty, held on May I8th (the President, Sir James Paget, in the chair) showed 330 members; 5 had been elected during the year, 7 had had died, and 7 resigned. Sixty-five widows were receiring relief and 8 orphans; 2 Tidows were admitted in 1887, and 1 had died. The grants for the year had been $£ 口 2,774$, the expenses $^{2}$ £225: A legacy of $£ 5,000$ had been received from the executors of Sir Erasmus Wilson. The following gentlemen were elected directors in the place of the six seniors, who retired: Dr. Maurice Davis, Dr. Glover, Mr. W. Spencer Watson, Mr. W. A. Brailey, Dr. Matthews Duncan, and Dr. Buzzard. A special grant was made to a widor. A short history of the Saciety from its foundation in 1788 , drawn up by the Acting Treasurer, Mr. Fuller, was presented to the meeting. Some proposed alterations in the bylaws were considered, and a vote of thanks to the President brought the proceedings to a close.

The Ilabitual Drunkards Act (1879) Amendment Bill No. 2 passed a second réading in the Ilouse of Commons last week. It may be remembered that No. I Bill was withdrawn, owing to the development of oplosition from an unforeseen quarter. The second Bill is the practical issue of an understanding with the Home Secretary, and the prospect of its passage through Parliament during the current session is, therefore. hopeful. It provides for a. permanent instead of a temporary measure, the original Act expiring next year. Jt also legalises the appointment of a deputy to the licence of a retreat, under certain time restrictions. If carried as at present drawn the original and the amending Acts will be known by the leas objectionable title of "Inebriates Act," following the designation of the South Australian Act of 1874.

Ter: Menico-Psychological Association.-The quarterly meeting of this Association was held at Bethlem Hospital on Wednesday, May 16th, at 4 p.as. The meeting, which was numarously attended, was presided over by Dr. Needham. Dr. Mauldley communicated "Some Remarks on Crime and Criminala," which wns followed by a discussion, in which Drs. Hack Tuke, Rayner, Fletcher Beach, and Rogers, and Mr. Herbert Stephen took part. A special mecting of the association snbsequently took place, at which the subject of Pensions was discussed, the matter being ultimately referred to the l'arliamentary Committec.
Nathonat I'ension Fund for Nurses.-The attention of the Council of the National Pension Fund for Nursea having been called to the fact tlint certain misleading atatements have been reprinted frem the Lancet, and circulated amongst the baspitals throughout the country', the Comncil announce that they are prepared to supply to the managers, officers, ctc., of hospitals, copies of the renly, which las been prepared by Mr. King, the eminent actuary. Applications for copies (gratis) slonld be made to $\mathbf{K r}$ r. P. Grove, Secretary, 38, Old Jewry, London, E.C.

Timb Coderefe of Spate Mpdicine.-The following gentlemen have been elected as associates of the College: William Jenry Burke, M1.B. Qnal. Stat. Med. Dub. Surpeen Bombay Medical Department: if ugh Herbert Mason, Dip. J'ub. Health Cumb., Barking. Fasex: © Colin Willinm MeRury, M.D., Dip. Pub. Ifealth Camb., Surgeon-Mrinr lBombay Hedical Dejartment ; 1. J. Harvey Whitweil, M.B., B.Sc. Stat. Med. Lidin., liencal Merical Department: I. E. Stewart Davis, M. B., Qual. Stat. Med. Dub., Madras Medical Depirtment: Allan Maefadyea, M.D., B.Sc. Stat. Med. Edia., Pinner.

Hambion Ammeances Association.-The nunual meeting of the Ilamilton centre of the St. Andrew Ambulance Association was lield on April 19th, Dr. Loudon presiding. The report stated that, in accordance with the desire of the medical members of the executive, no new classes had heen formed in Hamilton during the past session. Classes had, however, heen formed in Larkhall, Blantyre, and at North Motherwell Colliery, and the constabulary class had been renewed under Dr. Lindsay, while last summer Dr. Deatl conducted a military class. The ambulance waggon had been called out thirty-two times during the past fourteen months
Hospital Sunday Fund.-At the last meeting of the constituents of the fund, the attention of the Council was ealled to the contrast between the receipts frum Sonth London churches and chapels and the awards to Sauth London hospitals and dispensaries, and they were invited to consider what changes, if any, were desirable in the rules for the administration of the fund. The Council had since had the matter under consideration, and had come to the conclusion that it was not desirable to make any departure from the present laws and constitution.

Vacant Cononership.-Dr. Macdonald, M. F., Dr. Henry Foster Burnes, Dalmaney House, Tufnell Park, and Mr. Eugene Yarrow, Old Street, City Road, are the candidates for the post of coroner for the newly-constituted district of North-East Middlesex.

THe Queen has been graciously pleased to accept a copy of Dr. Thorne Thorne's presidential address to the Epidemiological Society of London "On the Progress of Preventive Medicine during the Victorian Era."

The Victoria Hospital, Southend, erected as a memorial of the Queen's Julilee, was opened on Wednesday last by Mrs. Rasch, wife of Major Rasch, M.L'.

Medical Magistrate.-Dr. Whitla has been appointed to the Commission of the Peace for Co. Antrim.

## DIARY FOR NEXT WEEK.

## MONDAY.

Royal College of Surgeons of Englast, 5 p.ar.-Professor A. E. J. Barker : On the Operative Treatment of Tubercular Disease in Joints.
Onontodogical Society. 8 P.M.-Mr. F. F. Burghard: On some eases of Epulis. Mr, W. Mitcheil : On snme Observations on Metal Cap Crowns. Mr. Van Prokgh: Casual communicitions.
Coldege of State Menicine, Barlington Iouse, 4 p.m.-Prolessor Kilein. F.R.S.: On Bacteriology.

## WEIHNESDAT.

Rotal. College of Surgeons of England, 5 p.m. Professor A. F. J Barker : On the Operative Treatment of Tuhercular Disease in Joints.
Obstetrical Society of London. 8 p.m.-Specimens will be showix. Dr Stearenson: An Advocacy for the more Extensive Uso of Eler trolysis in Gynmeological Practice, with an Addendum by Dr Lovell Drave. Dr. Gibhons: Electrolysis in some Chranic Uterine Afrections, with Illustrative Cases. Dr. John Shaw The Constant Current in the Thempentics of Gsinecology

## FEIDAE.

Rotar. College of Surgeoxs of Engiant, 5 rom.-Professor A. 1. a Barker: On the Operative Treatment of Tuberenlar linease in Joints.

BIRTHS, MARRIAGES, AND DEATHS.
The charge for inserting announcements of Births, Marriages, and Deaths is $\$ \mathrm{~s} .6 \mathrm{~d} . \mathrm{H}$ which should beforwarded in stamps with the announcement.

BIRTUS.
ALIAN.-Onthe 21 hh instant, ist 1 . Dock Street, London, the wife of Francis J. Allan, M.D. of a son (stilltorm).
Mouat-Bigas, -May 2sth, at Abley Row, Nalmesbury, the wifr of C. Ji. F Monat-Bigga, M.R.C.S., L..K.C. ${ }^{\prime}$ 'L.Lond., of a danghter.
Woon-May 29th, at Sunderlantl, the wife of Jahn C. Woot. J.JR.C.s., etce, of: son.

MAIRIAGE.
Giailfy-Warn.-On the 2fthinstant, at, the I'rish Church, Leck, Iy the hev
 Rector of Ifeather, and the bev. C. B. Mande, Vear of the Jarisho Johm


DEATHS.
Fionn.-On Miv 2ith, at the restidenec of Dr. Roberts, $\Lambda$ wenae Intel. Peckhim Rye, London. Vidwart M. Ford, J.I.C.P. and L.I.C.S. lidin.. aged ST, elitest son of Mr, M. F゙ord, $N$ thtinghan, doegly regretied.
Pemperon.-May 2rth, at lidelaston I[onke, Birmingham, agel is gears Harvey, the pldeet son of OLver lemmerton, F.R.C.S.Ene.

## OPERATION DAYS AT THE LONDON HOSPITALS.

MORDAY.......... 10.30 A.M.: Royal Londen Ophthalmic.-1.30 P.M.; Guy's (Ophthalmic 1iepartment) ; and Roval Westminster Ophthal mir.-2 P.M.; Metropolitan Free; St. Mark's; Central London Ophthalmic: Royal Orthopadic: and Ilospital for Women.2.30 R.m. : Chelsen Hospital for Women.

TUESDAF........ 9 A.M.: St. Jary's (Oplathalmic Irepartment).-10.30 A.M Rogal London Uphthalmic.-1.30 P.31: Guy's: St. Barthelo mew's (Ophthalmie Department) ; St Dlarys ; Roral Westmin ster Ophthalmic.-2 P.M.: Westminster: St. Mark's ; Central London Oplathalmic. - 2.30 P .M.; West London; Cancer Hospital Brompton.-4 r.m.: St. Thomas's (Ophthalmic Department). Natonal Orkeracic.-10.30 A.s., Ropal London Ophthalmic.-1 P.M. : Midelesex.-1.30P.M.St. Bartholomew's St. Thomas's; Royal Westminster Ophthalmic.-2 p.M. London; University College; Westminster: Great Northern London: Cnirersity Con Ophthalmic--2.30 p. M.: Samaritan Central: Centra! London Ophthalmic--2.s0 P.N.: Samaritan Free Hospital for
P.M. ; King's Callege.
THURSDAX .......10.30 A.M. : Rayal London Ophthalmic.-1 p.3. : St. George's -1.30 P.N.: St. Bartholomew'a (Ophthalmic Department) Guy's (Ophthalmic Department); Royal Westminster Ophthal-mic.-2 P.M. : Charing Cross; London; Central London Ophthalmic; Ilospital for Diseases of the Throst; Hospital for Women.-2.30 p.M. : North-West London; Chelsea IIospital for Women.
FRIDAY (Ophthalmic: Department).-10.30 A.N. Royal London Ophthalnic.-1.15 P.M.: St. George's (Ophthalmic Department.) - 1.30 P.M.; Guy's ; Roval Westminster Oph-thalmic.-2 P.M.: King's College; St. Thomas's (Ophtlalmic Departinent); Central London Ophthalmic; Royal South London Ophthalmic; East London Hospital for Clildreb. 2.30 p.m. ; West London.

SATURDAF..... 9A.m.: Royal Free.- 10.30 A.m. : Royal London Ophthalmis.1 p.M.: King'a College.-1.30 P.M.: St. Barthelomew's; St. Thonas's; Royal Westminster Ophthalmic.-2 P.af.: Charing Cross; London: Middlesex ; Royal Free; Centrsi London Ophtialaric. $-2.30 \mathrm{P} . \mathrm{M} .:$ Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Chartwg Cross.-Medical and Surgical, dsily, 1; Obstetric, Tu. F., 1.30 ; Skin M. Th., 1.30 ; Dental, M. W. F.. 9

Gur's.-Medical and surgical, daily, 1.30 ; Obstetric, M. Tu. Fo. 1.20; Eye, M. Tu Th. F., 1.30 ; Ear. Tu. F., 12.30 ; Skin, Tu., 12.30 ; Dental. Tu. Th. F., 12.
King's Coltakermedical. daily, 2; Surgical, daily, I.30; Obstetric. Tu. Th. S., 2; o.p., M. W. F., 12.30 : Kye, M. Th. 1 : Ophthalnic ${ }^{\text {E }}$
Lowdon-Medical, daily, exc. S., 2; Surgical, daily. 1.30 and 2; Obstetric. M. Th. 1.30; 0.D. W. S., 1.30 ; Ere, W. S., 9 ; Far, S., 9.30 ; Skin, Th., 9 ; Dental, Tu. 9 . Minnlesex.-Medical and Surgical, daily, I; Obstetric, Tu. F., 1.30 ; o.p.,W.S., 1.30; Eye, W. S., 8.30 : E3r and Throat. Tu.. 9; Skin. Tu., 4 ; Dental, daily, 9 St. BARTLOLOMEN's. Medical and surgieal daily. 1.30: Obstetric, Tu. Th. S., 2 o.p., W.S., 9 ; Eye, Trı. Th. S., 2.30 ; Ear, Tu. F... 2 ; Skin, F., 1.30 ; Larynx, F., 2.30; Orthopedic. M., 2.30 ; Dental, Tu. F.. 9 .

St. George's. Medical and Surgical, M. T. F. S. 1: Ohstetric. Tu. S., I: op. Tu., 2; Eye, W. S.2: War, Tu., 2; skin, W.,2; Throat. Th., 2; Orthoprdic, W.
 Th., 1.30; Eye, Tu. F.S.. $;$; Sar. M. Th., 3 ; Thuat, Tu. F.. 1.30; Skin. M.Th.,
 Operations, Tu.. 1.30; Ophthalmic Operations, F.. 9.
St. Thomas's.-Medical and Surgical, daily. except Sat ., 2; Ohstetric, M. Th.. 2 : o.p. W., $1.30 ;$ Eye, 11 . Th., 2 \% o.p. diaily, except Sat.. 1.30 ; Far, M1., 12.30 ;
 Th., F., 1.30: Eye, M.Tu. Th. F., 2; Ear, S., 1.30 ; Skin, W., 1.45, S. 9.15 ; Throat, The, 2.30 ; Dental, W., 10.30 .
Westminster.-Medical and Surgical, daily, 1.30 : Obstetric. Tu. F.. 3 ; Eye M. Th., 2.30 ; Ear, M., 0 ; Skin, Th., 1 ; Dental, W, S., 9.15.

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS

Comsunications respecting editorial matters shmuld be addressed to the Editor, 423. Strund, W.C., Iandon: thesc roncerning buslices matters, non-delivery of the Jouryat, etc., should he atdressed to the Manager, at the Office, 429, Strind. W.C., London.
In onler to avoid delay, it is particularly requested that all letters on the editnrial business of the Jourvit, be addressed to the siditorat the oftice of the JoURYAL. anil not to his private bouse.
Autaons desiring reprints of their articles publishet in the Britisin Mfnicar, Jounval. are requested to communicate beforchand with the Mamager, 429. Striml, W.C.
Cormaspowneyts who wish notice to be taken of their communimations, shonld anthenticate them with their names - of course not necessarily for publication. Corresposmests not answered aro requested to look to the Notices to Correapondents of the following week.
anuscripes forwarmed to the Office of this Journal cantot vimer amy
CIRCUMCTANCTS BEE RETURNRT. We shall be much obliged to Medical Officers of Health if they will, on fortiarding their Angtial and nther Reports, faveur us with Danlicite Copies.

## QIEXIEM,

M.D. asks what has been ascertained to be the effect of cascara sagrada upon the secretion of milk, as to quantity and quality

## ANBWERS.

INQUIRRR.- it is certainly not nuprofessional.

## Invzetion in Scarleft Fever.

In answer to "Micrococeus" as to the value of inunction in scarlet fever, Mr. Frascas W. Cuark (Croydon) writes that the preparations of olise oil and carbolic acicl, known as "carbolised oll," have been proved to possess no germicidal action. Should "Micrococcus" wish to use a germicidal inuaction during the desquamative stage of the disease, he suggesta that a preparation of olive oil containing about one drachm of ol. menth. pip. to the twelve ounce bottle, would probsbly prove efficacious in destroying ans parasltic ounce bottle, would probsted in the epidermic scales.
WR. Jro. Brown (Bacup) writes: In the Jourras for August 13th, 1887, there is a short article on The Proplyslactic Advantages of the Early and Continued Inmetion of Carbolised Oil in Scarlet. Ferer. If "Micrococcus" will refer to it, he will see the rationale given for the use of carbolic acld.

The, Use of Aperients in Scanlet Fever
Mr. Jwo. Brown (Bacup) writes: In reply to Mrr. Davis's query, "Am I right or wrong?" in giving apericuts before or during the eruptive stage, I shoald say as a rule it is not safe. For years 1 have been convinced that to give aperients is, as Mr. Chavasse states in his book, " dangeroub before and during the eruptive stage." Keep the bowels confined until tbe rash is well out Cases in which diarrbees is induced by aperients often die of convulsions due to suppression of the rash. In other cases the rash comes out tardily, and the recovery is longer than insual.

## Chemical Constitution of Miseral Watera

SURGEOS asks where he can find the best information as to the chemime ram position of the mineral waters most generally in use
** The Ainera! Waters of Europe, by Tichborne and Prosser James, is probatly the handiest work, giving more detailed analyses than moregeneral works.

## Occipital He:adache

Dr. JoHn Irfing (Leytonstoue) writes: If "MI.R.C.S., L.1R.C.P." will give his patient a large dose of quinine every night at bedtime, and follow it in the morving by a saline tonic, as indicated in the subjoined prescriptions, relief may resulf in a few days.
 aquá nocte sumend. R Magnesix sulphatis Jyj; acid. sulphurici dil. $3 j$; liq. strychnin. mur. m ex. Aq. ad इvj. M. Capiat unciam ex aqua mane anto cibum.
Mr. J. Brindey James (Brindley ITouse, Jamaica Roul, S.E.) writes that iu the treatment of this form of headache he had vaitly exhausted all the habitually recommended pharmacopeial remedies, until the introinction into offieinal rules of Bishop's effervescing bydrobromate of caffeine. the use of which in such cases he speedily learned to appreciate.

## NOTES, LETTEES, ETC.

hign Altitudes in Consumption.
Dr. C. R. Drysume (late Physician to the North Loadon Consumption Hes pital, elc.) writes: The question of the best climate for patieuts suffering from consumption is so extremely interestiog, that 1 sbould feel obliged if allowed to take part in the debate upon it. After trying all sorts of climates. and being fully cognisant of the admirable resnlts obtained either at the Itiviera, at Algiers, or Egypt, or by sending patients to Australia, New Zealund, or the Cape and back, I must say that experience teaches me that the most rapid arrests of that dangerous disease have ocenrred in such persons as have been able to reside a considerable time in stations such as Daros or Colorado. It is out of the question to ask you to affird suace fur the narmave Colorado. It is ould only say that I naturally, as physician for many rears t of cases. I wonld onth Lay that Lustital tuok the ereatest interest ili followthe North London Consmmption II uspital, twok the greatest interest inf follow
ing out the careers of the poor patients that came under may mare there ing out the careers of the poor patients that came under may mare there.
Their fate was usually a sut one; and the very first case I rememier whicl was sent to Colorado made such an impression on me as to the value of residence in high altitudes. that I have never forgotten it. Subsequent experience has corroborated thit impression: and, for my part. I should, in all snitable cases, adrise matients to try high altitaces in preference to other climates. On a visit I made to Davos two years acm, I interrogated the peasants in the aljacput valley at. Langwies, and iound that consumminn wanot a cause of death among the prenple who reaile there.

A Simple Jleans of hragnosis in Chest-Diseises
Ifr. S. Binguam writes: 1 can fully eudorse the remarhs of Surgeon $\hat{H}$. $\Gamma$. Nichols relative to the value of using a syringe to determine the existence of Iluid in the ehest. Only recontly, by the atd of an ordinary hypodermic syringe, I demanstrated its presence in the pleura of a matient in whom it had been previously orerluoked. The value of this met hot was shown to ut many years agn, while assisting Dr. llobert Macuab, of Bury St. Filnunds: nd Dr. Douglas l'owell, in his wark on Diserses of the Lacogs, pinine mut its antility.

Tra Ant TEETH
D18. Jons Inving (Leytonstone) writes: A. B., whth whom the writer is intimately aequainted, subsisted, until he was $2^{2}$ vears of ace, upoll the plainest diet, and drank no beverage ot her than inilk or witer. Neither tea, coffee, cocos. uor alcohol ever tempted him ; nevertheless, from $1 i$ to 22 he was a martyr tw oothache, and during that period had no less than eight decaycd teeth extmefed Since then he has cmployed tea in monderatiun (two cups per arm) for ecial regone, and for six yeirs thomsh dental decay continnes to hem), for aceial tanthache has teen uhuch dimini-hed. Ilis mither lowt most flier teeth in early life, and slmost in the kanc oricr so the son, the upper
 molars and bienspids going lirst. The fallier, on the other hand, never koen what toothache was until he was 45 yours of arbo, but within ten yomrt nearly
all his terfli had loosened and been removed．Weredity phay a conspicuous jurt in dental carles，and，so far as my experience boes，tea has nothing what－ ever wh do with the depeneration of teeth．One gentlenian，aged 40 ，with tecth complcte hin both upper nad lower jaws，aud all sombd，attributes his exemp－ tlon from dentalgia to the continuous chewlug of tobacco frons boyhood．Ife Itrank tea freely，but rigidy abstatneel from alcoholic liquors．

## seale＇s＂Digrat．＂

G．II．1K．1）．writes：One may not possess every lmok unter the sun，but it is nevertheless uscful to possess one book that tells 5ou where to look in nny garticular book or serlos of books．If anyone expects to tiad in Neale＇s Jegest d sort of omnivorous textbook they will，of course，be disappointed；but as a textbow of medical references it is simply iuvaluable．Ithinh it is hadly manmed，lint I think it is eveu worse abused．

## Gidson and Wife v．Jeffrifa and lilleg．

First List of Subscriptions．
（To defray the expeuses of the delendants，sec Jourval，May 2bth，p．11：32）．
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Dr．C．B．Keetley
cted．
C．B．Keetley，Honorary Secretary
10．George Street，Hanover Square，W．，May 29th．

## Dr．Burke＇s gepriete．

The lieq．H．M．Kexnedr（Plumpton Vicarage，Cumberland）writes：Why was Dr．Burke reprieved？It is due both to the Hoase Secretary and the general public that the facts of the case should be accurately and more fully known．From what transpired at the Leeds Assizes，no one not otherwise in－ formed could entertain any doubt as to actual guilt or real responsibitity． But had witnesses for the defence been called，two things could have been provell at the assizes，which have since the trial been clearly stated to the Ilome secretary
1．That Dr．Burke had previons to February th attempted self－destruction， and hat to the knowledge of several people been broouinur over the insane illea of suicide for many weeks before his last and nearly tatal attempt．
2．That the only evidence as to how the shots were fired was that of a con－ stable，who，if the statemeuts made by others also on the spot be true，could not have carried the weight that his sole statement did with the judge and jury at Leeds．

It slould be known that in the report of the inquest giveu in the local paper， the Farnsley Chromele of Febmary 11th，there are thirteen distinct assertions recorded on the purt of the first witness examined，all going to show that no wne entered the rrom of leath till both shots were fired；and that twice before the constable gave evinlence the coroner is reported to have said to his jury that the constahle＇s conduct was not for then to convider，but that it should te the subject of a subsequent inguiry．
A Monest Candidate

M上w Frortwer：N゙nativaske Toms，L．K．Q．C．P．I．＂and L．R．C．S．I．（London Schuol of Molicine for Women）writes：I regret to see my name in connee－ tion with a statement，likely to lead to some misapprehension，which ap－ pared in the Joursal of May 12th，in reference to the late conjoint xambation in Dublin．The examination belng a purely pass examination there is 10 question of competition，and all the candalates who batisfy the ＂xaminers stanl on an equal footing．

Stromitanthes in Mitral Dispase，wita Enema．
3R．Johs Pownhi，（Blyton House，Weybrigge）writes：The following case of most marked odrma of the extremities and trunk，together wifls slight alhuminuria，due to mitral regurgitation following chorea，in which the former symptoms were treated by st mphanthus，may be of interest．
M．S．aged 14．having suffered from the odema and some dyspuna for three weeks，and deriving no lxompit fron tinct．digitalis． 1 ordered tinet． Firophanth（ m .5 ter die），and at the same time mate an incision of hanf an inchover each external malleohns（as recommended hy Ringer）．The result whas most gratitying：the catema totally disuppearet，there was copions dis charge from the incisions，aud marked lliuresis．The girl is now out and taking long walks，and sinme September last，when the anmeliontion twok place，has volly bual one slight attuck of cetema，which quickly yielted to the same loses．

Oitalising Lyupe witisot Pexctirise
 evilence that visuline may In used as a sumbtitute for glyenrine．

1 revacuitatial an alulf in four plames，ull of which took．（on the seventh day．the ann beroming Inthamed nul jwhinful，he was advised by ifrient to
 lisplisk a little＂riuek or arratels af the cornur of the nose，ho thoughtlessly rubluw a little of the vaseline into this，direst from the arm．©ninspertion

 develoned into a will－fursial vestele．phetly outside and partly inside the left sta，running a definite conrse，and fially，ulter much pain，discomfort，and

It wat only after much Inquiry that the above explamation was extracted

 nanmely，friction．

## COMMUNICATIONS，LETTERS，etc．，have been recelved from ：

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## BOOKS，кTC．RECEIVED．

Ilester Cameron＇s Three Offers，and Other Tales．By Fimily Foster
chester：Brook and Chrystal．London：Simkin，Marshalland Co．
The Localisation of the Lesions of Phthisis，By J．Kingston Fowler，M．A． M．D．Cantab．London：J．and A．Charchill． 1088.
The Fifetrir Illumination of the Iladider and Lrethra．By E．Llurry Fenwiek， F．f．c．s．London ：J，and A．Churel ill．

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## THE CAVENDISH LECTURE <br> or tee <br> ALTERED RELATIONS OF SURGERY TO MEDICINE.

Delivered lefore the West London Medico-Chirurgical Society, Friday, June 1st, $185 s$.
By Sir Willjan Stokes, M.D., Ch.M.Univ.Dub., F.R.C.S.I., Professor of Surgery, Royal College of Surgeons in Ireland.

No one having even a limited acquaintance with surgical history can fail to realise the great change that has recently taken place in the status of the surgical branch of our profession, as well as the remarkable alteration that has occurred in the relations it now bears to medicine.

In considering the important question as to the causes that have led to these changes, we may glance briefly at the relations that formerly existed between surgery and medicime. The two branches of our common profession became united in the first half of the fifteenth century, and a conjoint examination for admission to the fellowship of physicians and surgeons was established. ${ }^{1}$ Unhappily, however, the alliance appears to hare been a short-lived one, and the causes that led to the rupture are not rery clearly understood, but were, I beliere, probably connected with the maintenance of alleged rested rights. The breach ras still further widened by the subsequent fusion of the surgeons with the Barbers' Company. In this, however, as Sir James Paget has rightly observed, there tras not any real fusion, but rather an official junction with a view to the settlement of disputes and the fixing of limitations to the duties and functions of each company:
In the interests not only of the social but also of the scientific position of the surgical profession, the junction, such as it wha, of these two corporations was undoubtedly a calamity, and it occupicd give the physicians the rantage ground which they by an enactment made in Elizabeth's reign, prohibiting surgeons
bend from prescribing internal medicines. As a proof that turgeons position, socially and scientifically, was maintained up to a comparatively recent period, 1 may mention a fact which I learned from Mr. Colles, who informed me that his father, Abraham Colles, Dublized that at the commencement of his professional career in Dublin, when a consultation on any important case was held, the physicians held their deliberations, but, after the consultation was over, he was informed whether his services would be required or not.
The junction not only kept the professions of surgery and medicine separated, but also douhtless had much to say to the long exclusion, or, at all events, feeble recognition of surgery in the academic systems of the old unirersities. It had also another unfortunate result, which was, that when surgery emerged from the Cimmerian darkness in which it had been during the Middle Ages, and its teachers legan to recognise the fact that in order to advance something more was to be relied on than the aphorisms of shown to them. and scientific methodsof investigation were looked upon generally with suspicion, while the results of scientific research were received almost with contempt.
Although from time to time during the sixteenth and serenteenth centuries there were physicians of undoubted ability and scientific aptitude, still no serions effort apparently was made by the bulk of the profession to strike awray the feeble props of the tottering and antiquated tripod on whicli it had so long restednamely, cropiricism, dogma, and aphorism. The result of this was that as time went on, medicine as a science lost instead of gaining ground in public estimation, and often became the object of satire and ridicule. Of this ample eridence may be found in the Writings of many authors and philosophers of eminence, such as It waire, Molière, Locke, and many others in more recent times. It was doubtless from observing the faulty way in which medicine See Memorials of the Craft of
by F. South. London. 1856 .
was studied and practised that Locke was induced to make the following observation: "Were it my business to understand physic, would not the safer way be to consult Xature herself in the history of diseases and their cures than to espouse the doctrines of the dogmatists, the methodists, or the chemists?"
What was mainly relied on was clinical observation; and nothing is more remarkable in the whole history of medicine than the length of time it took before the fact dawned upon the medical mind that clinical observation, when not supplemented by other scientific methods of research, is a lamp that affords in truth but a faint and glimmering light, a shifting quicksand on which it is indeed perilous to build. They did not recognise the truth epitomised by Mill, who has well said, "Ohservation without experiment (supposing no aid from deduction) can ascertain sequences and coexistences, but cannot prore cansation." (Logic vol. i, p. 423).
The consequences of too exclusive a reliance upon methods insufficient for purposes of realadvancement have been for medicine in the past most uahappy. I allude more particularly to the foundation and adrocacy of various systems which prevailed at different eras-of, for example, the dogmatists, eclectics, methodists, pneumatists, astrologers, and alchemists, and in later times to the schools of Cullen, Brown, Broussais, and Hahnemann. All these many outcomes of various phases of opinion have caused the history of medicine to be rather "a succession of cycles, barren lypotheses, and fanciful systems," than one characterised by a slow but sure scientific progress, At rare intervals in its history brilliant meteors, no doubt, have flashed across the sky, but their light only tended to make the darkness more visible. They were too far in advance of their time to make their influence felt, and any attempt to supersede the older unreliable methods-to ring out the old and ring in the nem-only met with discouragement,
of ten with contem often with coutempt. lly father has of ten related to me how, when
he was a young mann, and when he introduced into the IJublin sctoon along with Graves, the methods of plysical diagnosis adrocated by Laennec and Louis, he was ridiculed, satirised, and even caricatured by his contemporaries. I dare say a large proportion of those present here to-day recollect, as I do, hearing rarious instruments of precision, now in the hands of erery educated
practitioner, stigmatise practitioner, stigmatised as "toys;", and I canl even call to mind
that a late medical colleague of my own, who rose to eminence in his profesion of my own, who rose to considerable a skilful histologist, thought it desirable to publish, at the commencement of his professional career, a brochure which he comAn Apology fur the Microscope. But one of the most signal proofs of the low estimate that in former times physicians had of the employment of methods of research now universally used may be obtained from the views on pathological histology of Laennec. Ile observed: "If the causes of severe disease are possible to in mere microscopical alterations of structure, it is imif erer cultirated in this spirit, pathological anatomy, as well as that of the body in a sound state, will soon fall from the rank which it holds among the physical sciences and become a mere tissue of liypotheses founded on optical illusions and fanciful speculations, without any real benefit to medicine." An unfortunate anticipation, Dr. Hudson observed, as time and progress lave proved. When men of the intellectual grasp of Laennec held such views, it is hardly to be wondered at that the rank and file among physicians continued to look unfarourably and with doumstances it is not surprising that mudic and under these cirpast, and I fear to a certain extent also in the present, has ben based too often on that flimsiest and most worthless of all foundations-fashion: a fact which doubtless suggested to the eminent French physician the sage adrice he gave to his pupils, "Employez vite ce remède pendant qu'il guérit encore ""
In making these remarks I trust it will not be considered that I wish in any way to cast discredit on the labours of past physicinns in the adrancement of medicine, knowing as I do that the rery men who were thus sceptical of new methods could always point with just pride to splendid results obtained by them from time to time.
My object is only to account for the fact that in the last century the relations betreen medicine and surgery were still dencient in cordiality. Old antagonistic traditions and feeling 3 new departure of surgery into advance, by the renunciation of the e.rclusire reliance on mere
clinical observation, and by a general widening of the area of research.
And to whom are we mainly indebted for such development? This is a question that will at onee be asked. Who placed our science on the solid foundation on which it remains and will ever rest? Who was it that tore asunder the fetters with which it was bound by a blighting empiricism, and loudly sounded those clarion notes of scientific truth which have their echo still. IIe who occupies as a biologist a position above all rivalry, and who by the magic wand of an all-powerful intellect struck the rock from which came the living water, and evoked the dormant scientific spirit of his age-that beneficent, erer-living, and neverfailing spirit which, when honestly appealed to, has ever generously responded. It has been said by Malgaigne that in the Middle Ages surgery was a mere craft, that it was made an art by A. l'aré and J. L. l'etit, but was elerated into one of the noblest of sciences by John Ilunter. Animated by no unworthy craving for worldly honour or lore of gain, he lit up the dark and rugged paths of that science he loved so well and to which he devoted his life with a lamp which shed no borrowed light-one fashioned by ceaseless toil and illuminated by untiring genius. His one aim, the goal he ever strove for, the ambition of his life, was, in the unexplored regions of physiology, surgery, pathology, and anatomy, to unfurl the banner of truth, and, by doing so, to elerate and dignify the profession of his choice, and to render it and its sister branch of medicine one and indirisible. He was in truth-

## One of the few, Nature's interpreters,

The few whom Genius gives as lights to shine.
His immediate successors, many of whom were also his pupilsnamely, Abernethy, Cooper, Cline, Dupuytren, Colles, and many lesser stars-all worked more or less on the same lines that he did, but not unnaturally with a bias rather towards the clinicsl and operative aspects of surgery and surgical pathology than in efforts to adrance it by plysiological research. But the splendid work of those great surgical leaders I have mentioned cleared and prepared the way for the more complete adoption of Ilunter's great principle in advancing surgery, which was, in Sir James Paget's words, that " he brought the scientific method into the study of the practice, and welded scientific knowledge with the lessons of experience." It is the recognition and adoption of this principle in the age in which we live and work that will ever constitute one of its greatest glories. It is one which finds its embodiment in Yon Langenbeck's watchword, "From physiology to surgery, and from the microscope to the resection knife." It bas mainly been the cause of bringing about the altered relations of surgery to medicine, and happily shattered the barriers between them which in dajs gone by were such fruitful sources of mischief, and kept our profession divided, powerlcss, and weak.

The last and most brilliant outcome of the adoption of this principle has been the establishment of histerian antisepticism, which has enabled the surgeon to bring about not only a degree of perfection and exactness in the comparatively limited field of operative surgery in which until recently he confined himself, but also to advance much further, and in abdominal and thoracic discases, and, lastly, in those of the brain and spinal cord, to achieve results that until recently never could have been seriously contemplated. This signal advance into the domain of medicine has not been made in any hostile and intrusive spirit, but solely to render aid -anaid which it must be gratefully acknowledged has happily often been reciprocated.

It has been granted to but ferr men who hare been pioncers in any of the paths of science to have during their lifetime a full recognition of their labours and discoveries, and to see the practical application to human requirements of the new knowledge they hat given to the world. Harvey's great discovery met with but a limited acceptance during his lifecime, and the same might be said of other scientists, some of whom, instead of having their views accepted, were persecuted for promulgating them; but many of those who now constitute the scientitic vanguard of our profession have been privileged to witness not alone the acceptance of their theories but also the almost universal recognition of the utility of the practice which has been based thercon; and operative procednres have been undertaken and carried to a successful issue that not very long ago could never have been seriously thought of: and, lastly, a digtinct advance has been made towards that goal desired by all-unity in the science of nedicine.

1 heve already indicated the regions in which operative surgery
has so largely supplemented medicine. Did time permit, I would gladly dwell more in detail on what it has effected in this direetion, such as the surgical treatment of pulmonary abscess, antiseptic paracentesis in pleuritic effusions, empyema, and pericardial effusion. "Also in abdominal surgery, inclading exploratory operations in and excision of the kidney, removal of renal calculi, operations on the gall-bladder, on the intestines for obstriction, excision of the pylorus and other portions of the intestiual tract for cancer, and, the many operations connected with the female organs of generation.

In connection, however, with a region that until recently has leen held to be the exclusive province of the physician, I should like to speak very briefly. I allude to certain lesions of the brain, and the means we have at our disposal for their localisation. It is a subject of absorbing interest, and exercises largely, as you all know, the professional mind at the present day. There is no wonder that it should do so, for our anticipations as to what may eventually be done in this direction are full of hope and confidence. Having regard to the results already obtained, these are not, I feel assured, misplaced; but still coses do occur, and one of them was recently in my own practice, which strikingly bring home to us the undoubted and unhappy fact that, notwithstanding the admirable work achieved by Professors Ferrier, Yeo, Schäfer, Victor Horsley, Mnnk, Goltz, and others, in reference to the localisation of brain function, we must admit that we are still only on the fringe of the inquiry, so to say, and that much. very much, has yet to be dnne before any definiteness can be said to exist in the means at our disposal for the accurate appreciation of many of these cases. This will not, 1 believe, be determined with sufficient accuracy until much more light than is at present available is thrown, not only on cranio-cerebral topography, but also on the localisation of cerebral function. We are undoubtedly much nearer finality in the former than the latter, altbough the difficulties in the path are still extreme. Tbe relations between the lobes and convolutions of the brain and the enveloping bonies vary in different periods of life, and up to a certain age the growth and development of both do not proceed pari passu. The frontal eminence, as Cunningham, Topinard, and Féré have shown, overlies a different portion of the frontal lobe of the brain in the adult and the child, and the relations between the Sylvian fissure and the squamo-parietal suture, as first noticed by Foulhouze, also vary in different periods of life. Remarkable changes in the temporo-sphenoidal lobe hare also been observed, both as regards its position and form, as age advances from childhood to adolescence. For example-as may be seen in these preparations-in the adult the frontal eminence corresponds to the first frontal fissure; in childhood the frontal eminence is found at some point upon tbe second frontal convolution, and occasionally on the third. Again, the Sylvian fissure varies in relation to the squamo-parietal suture. In the adult it may correspond tn it or be placed immediately above or slightly helow it, bit in childhood it is always found considerably above it. The ligh position of the fissure in childhood appears to be due to a twofold eause-one, to the low stature, if 1 might so express it, of the squamous portion of the temporal bone, which afterwards grows upwards towards the hissure; and secondly, that at the earlier period of life there is relatirely a much greater area of the temporo-sphenoilal lobe in relation to the vault of the eranium. This is seen wheu compared with the onter surface of the parietal lole. The method of topographical localisation when the relations are more lixiol or constant, as in adult life, suggested by Hare, gives for practical purposes undoubtedly the best and most accurate re:ults.

As regards the localisation of function, however, it is regrettable that even between very high authorities so much difference of opinion exists, and that thic whole subject is consequently in such an unsettled state. Take, for example, the tempnro-spheroidal lobe.. According to l'rofessor Ferrier we have here the situations of tactile sensibility, hearing, and taste, whereas l'rofessor Schäfer holds that none of these are so placed. Again, the centre of sight has been localised by Munk and Schuffer in the occipital lobe, but Goltz has shown that this lobe can be removed without impairing vision, and that removal of the frontal lobe ia attended with loss of aight.

Our clinical experience, too, at times adds largely to the difficulties we have to contend with in our endearours to accurately appreciate the situation of cerebral lesions. 1 alhude to cases in which we have motor disturbance without appreciable lesion, to account for it, and the reverse, cases in which morbid conditions,
markable, having regard to the apyrexial condition of the pationt throughout, and also a thickening and adhesion of the meninges over the upper portion of the right motor area, which presented no signs of recent development, and under which was a small patch of softening about the size of a large pea. A careful examination of the cerebral ressels failed to give evidence of the existence of embolism.

In this most remarkable and exceptional case, in which so many nf the symptoms of cerebral pressure superrened on the receipt of a severe injury, it was, indeed as surprising as it was disappointing to find that they depended on some condition independent of mechanical pressure, and it proves how far we are still. even when the symptoms are signal and pronounced, from being able in many instances to correctly estimate the phenomena in cases of cerebral lesion, and especially in those having apparently a traumatic origin.

Dr. Bennett has drawn attention to a remarkable case of monocrural paralysis, which was under the care of a disciple of Professor lierrier, andlthe site of the supposed central lesion was carefully indicated on the skull. Subsequently the patient was under Dr. Bennett's care for epileptic seizures, which ultimately prored fatal, and which were attributed to renal disease. Having regard to the monocrural paralysis, a carefnl post-mortem examination was made, but without discovering any evidence of a lesion either of the brain or its coverings.

We have, too, on the other hand, cases recorded in which there las been marked intracranial disease invading the motor zones, but without producing any motor disorder, as, for example, in the remarkable case of subaricbnoid cyst recorded by Professor Cunningham (Journal of Anatomy and Physiology, vol. xiii. p. 50*). In this case the cyst-one of exceptionally large dimensions -was limited in front by the Rolandic. fissure, below by the parallel fissure, above by the intra-parietal fissure, and poswas no eridence whaterer of impairmen yet in this case there power. Another case illustrative of the fact that serious sensory involving the motor area, may exist without producing paralysi, is one recorded by Dr. Byrom Bramwell. In this a large sarchsis, growing from the dura mater, "has apparently destroyed the greater part of the motor area on the right side. So far as one could judge with the naked eye, the whole of the motor centres in the face and upper extremity were destroyed, and on microscopical examination the grey matter in this region seemed to hare completely disappeared; and yet there rras absolutely no paralysis" (Jourinal, April 21st, 1888).
From these interesting but somewhat dispiriting facts-which. unhappily, remind us of the dense mist in which we are still sur-rounded-let us glance at the brighter side of the picture, and consider some of the cases'that give ns encouragement and tend to restore confidence.

The first I rould allude to are four cases of subcranial hemorrhage, which have recently occurred in Dublim, and for which the operation of trephining was performed. In all four cases the condition was correctly diagnosed, and in three of them the hemorrhagic cffision was reached and remored, and the treatment folTwo of thediate relief and ultimate recovery.
Two of these cases presented fentures of exceptional interest. In the first, which was under the care of my colleague. Mr. Thorney Stoker, the patient had sustained a fall off a cart nine formance, in a state of complete left hemiplegia, was its performance, in a state of complete left hemiplegia, was comatose,
and the respirations 12 per minute. The diagnosis which was made, and proved afterwards to be correct, was that hæmorrlage over the right motor area, due to laceration of the middle meningeal artery, and probably associated with fracture. had occurred and produced at first partial left paral ysis, and that the increased bemiplegia which suhsequently occurred was due to renewed hemorrnage. Trephining was performed over the fissure of homando, and the hemorrhagic effusion reached and successfully
removed; this was promptly followed by relief. and an uninter ruptedly good recovery was made. This case is of special inter in one particular, being signally illustrative of the doctrine of Ferrier, that the absence of anesthesia is" in such cases. indicative of the lesion being limited to the motor zone, and the brachial monoplegia also pointed to this alone being implicated.
The second case which was under Mr. Ball's care, was one of motor aphasia, which came on after the patient had received a blotr:on the bead with an open penknife ten days previous to his coming under observation. The cicatrix of the wound Fas
often, in alcoholism. The only tangible changes observed were often, in alcoholism. The only tangible changes abserved were
evidence of arachnoid inflammation, which was all the more re-
profoundly involving the motor areas, exist without causing any motor or sensory tronble whatever. In illustration of this, 1 may mention the leading particulars of a few cases, and in doing
trust it will 'rot' be supposed for a moment that I wish to depreciate or detract in the slightest degree from the great value of recent investigations in reference to the localisation of cerebral function.
lhe first of them that I would mention was one which was quite recently under my care in the Richmond Hospital, and was of exceptional perplexity. J. O'D., aged 40, a law clerk by ander wy care in the Richmond Iospital. Two days recently to his admission he had been driuking to excess in a neighbouring public-house, and, for making a disturbance on his way home, was arrested. In the encounter which ensued with the anthorities, it eye. second day after receiving the blow he suftered 'pain, which was chiefly referable to the forehead, and in the evening he became heary and drowsy. The day following he was aphasic, and he was then bronght to the hospital. On his admission, a contused tival ecchymosis. When speaking he was unable to form a complete sentence, failing generally to find the required rerb. When the word he wanted was suggested to him he at once recognised it, but was unable to repeat it. He conveyed that he could remenn
her the word he wanted easily, but could not say it. When shown a watch he mas able to tell the time accurately and witbout hesitation, but when asked to write a sentence he failed, and wrote some disjointed words, but was able to write his name. In the erening the aphasia was moore pronounced. He conld tell the
name but not the address of his employer. He said it was the same as a Clistian name. On going tbrough a list of names, he at.once recognised the one he manted when "George's Street" was mentioned. There was no paralysis at this time of the upper or lower extremities. Next day it was found that speech was completely lost. There was rigidity of the muscles of the jaw, and he was quite unable to open his mouth. The left forearm and hand were the left side were only slightly affected. He could grasples on with his right hanl. The left pupil was irregularly dilated, and did not react to light. Vision was lost in it, and there was slight ptosis. When given a pencil and paper he could write his name, but very indistinctly: latellar and plantar reflexes were well evening he had an alleged rigor, which probably was a convulsive seizure. Next day all the syinptoms were still more pronounced. The patient was now in a semi-comatose state, jaws risidly closed, his respiration blowing, accompanied by constant grinding of teeth. I'lhroughont his condition was perfectly apyrexial.

With such a history and train of symptoms, the couclnsion was Thavoidable that they were produced by mechanical pressure. disease, had received a severe blow on the letit side of the brain This was followed by progresive motor ${ }^{\text {aph asia, an irregularly }}$ dilated pupil, loss of vision, subconjunctival ecchymosis, ptosis. blowing respiration, rigidity of the muscles of the jant, paralysis of the left forearm and hand, a convulsive seizure, und, lastly, coma. These symptoms seemed to clearly point to mechanical surfacepressure over the left motor area, over or in the neighbourhood of by the implication of the third and fifth pair of nerves, producing the symptoms referable to the ere and the muscles of the javs. and lastly, there was paralysis of the forearm and hand, which latter was the great difliculty in the case. The pressure, either hemorrhagic or inflammatory, I believe primarily involved Broca's lobe, and the basic complications 1 cousidezed. Niere probably due to extension of the effusion.
Haring regard to the fact that the patient was clearly in extremis, and that treplining gave him what might be termed the khadow of a chance, I operated and remored a disc of bone over Broca's lobe, and the result being negative, I removed another a little further back. Neither operation revealed a source of pressure. The patient died the next morning, and the result of the necropsy was as negative in its results as the operation had been. There was neither hamorrhage nor abscess; the brain substance was whiter and harder than normal, the condition observed so
over the squamous portion of the temporal bone. There was an absence of any paralysis of the voluntary muscles, but the aphasia was distinct and progressive, both word-blindness and word-deafness being well marked. Trephining was performed, and the wound was found to be a penetrating one, involving both bone and dura mater, and a small subdural blood-clot was removed, which, it was belioved, was situated in the Sylvian fissure. The recorery in this case was complete. In a third case of suberanial hemorrlage, which Mr. Thomson has recorded, the operation of trephining and the removal of an epidural blood-clot was attended with an equally eatisfactory resnlt.
As a remote result of intracranial hæmorrhage another case, which was under tho care of Mr. Kendal Franks, is noteworthy. The patieut was a young man, aged 25 , who commenced to suffer from severe epileptic seizures six years after he sustained a fall on the top of his head from a height of nine feet, and was treated by bromides continued without intermission for over a year, but without influencing the attacks, except occasionally to lengthen the interval between them. Trephining was performed, and a subdural blood-cyst, pressing on the left fronti I lobe of the brain, was discovered. The cyst was then cleared out and drained. Immunity from the seizures for three montlis was the result; there was then a recurrence of them, but they were much slighter than before. A second trephining was then performed, and altheugh the result of this was negative as regards disclosing anything further to cause cerebral disturbance, the condition of the patient sinco the operation has been most satisfactory, and he is now apparently free from the attacks which formerly were of such frequent occurrence.
In two cases of traumatic cerebral abscess-one epidural and the other subdural, and both of them illustrative of the pathological fnet first noticed by Dease as to the late appearance of cerebral trouble after cranial traumatisms-I trephined, and in one of them the result was very remarkable. The operation was performed seven weeks after tbe injury, which was a blow over the left temple. At the time the operation was performed the patient was clearly in extremis-motor and sensory paralysis complete, and coma, following convulsive seizures, profound. On raising a disc of bone at the situation where the injury was receired no pus was to be seen, and on laying open the dura mater the result was equally negative. I then passed the needle of a hypodermic syringe into the brain substance as far as it would gh, and to my great satisfaction found, on drawing up the piston of the instrument, that 1 had reached the abscess. I remored an ounce and a half of pus, and then washed out the cavity with a weak carbolic solution. The relief obtained by the evacuation of the abscess was immediate, and before the patient left the operating theatre he was able to articulate distinctly. His recovery was rapid and uninterrupted, and he returned to his usual avocation, which was that of a plasterer. As regards the situation of the trephine opening, 1 may mention that it was three quarters of an inch to the left of the mesial line, and an inch in front of the coronal suture. It corresponded to \& point close to the junction of the supero- and meso-frontal convolution. After evacuating the contents of the abscess cavity, in order to ascertain the size and direction of the latter, 1 passed the little finger of my left hand cautiously into it. By doing so 1 was able to ascertain its limitation anteriorly, laterally, and inferiorly. Externally and inferiorly its limitation ranst have heen formed by Broca's lobe, but posteriorly and inferiorly, although I passed my little finger in as far as possible, the limit of the cavity was not reached, and 1 believe the abscess possibly involved the lateral rentricle.
The final ontcome of this remarkable case, if disappointing, is of much interest. loo nearly nine months after the operation the patient remained perfectly well, and quite able to follow his usual avocation. It was then stated that he got a "fit," from which he recoverell, and he returned the following day to his work. The morning after this he was found in bed in a state of complete insensibility, and he was then brought for the second time to hospital. Right hemiplegia was complete, and both whantar and patellar reflexes loat ; his face was pale, but lips deeply eyanosed. I'ulse 160 ; respirations 60 ; temperature $101.8^{\circ}$. lif had frequent convulsive seizures after he came to hospital.
Thinking it possille that these symptoms might be due to the formation of a second abscess, I reflected the flap I made originally at the trephining operation and, on opening the dura mater, through some thickened cicatricial tissue gave cxit to oome bloody serum; I then passed a blant-pointed director downwards and backwards to a dittance of 5 centimotres, but did not reach any
pus or other fluid. A director was then passed downwards and slightly forwards, when a considerable quantity of serous tluid came gushing out. From this situation 1 removed six drachms of sero-sanguineous fluid dotted with white-coloured flakes. The effect of the operation was to reduce the pulse from 150 to 100 , and the temperature from $105.1^{\circ}$ to $104.6^{\circ}$. The patient, however, never rallied, and died the day following.

I might dwell on other cases of cerebral abscess illustrative of the beneficial results obtained by trephining and drainage, more particularly that published hy Dr. Gowers and Mr. A. Barker, where the abscess occurred in the temporo-sphenoidal lobe, and depended on otitis media, and Dr. Greenfield'\&, which also depended on the same cause. Trephining and evacuation in both these cases were attended with the best results.
The operative efforts in cases of abscess, tumours, and epilepsy of Professor Victor Horsley, Mr. Alexander, Dr, Macewen, Mr. Godlee, and Dr. Roberts, of Philadelphia, are such as to give the greatest encouragement and bope that in the near future we may be able to undertake the operative treatment of such cases with a confidence we cannot yet possess.
There are many points of interest connected with these remarkable operative efforts that I have mentioned which, did time permit, I should like to dwell on. But in truth the discussion in any minute way of the technicalities of either the diagnosis or therapeusis of such cases seems, on an occasion like the present, hardly appropriate, such being more suitable for consideration at the ordinary meetings of your Society, where in the scientific crucible the golden ore of experience and research is tested, and the pure metal-that having the genuine ring of truth in it-is elicited and refined.

From what has been eaid it must be conceded that surgery can no longer hold in any sense the subordinate position to medicine which abe occupied so long. So far, at all events, as physical conditions are concerned, surgery has undoubtedly advanced medicine in no small degree, and in doing so accomplished much in the direction of dispelling the factitions and unreasonable division of the troo branches of the profession. It has also been its safeguard against irregular and unrecognised lines of practice, for no important surgical proceeding can be based upon such, at least in the public mind.

At the same time we must acknowledge that of Jate years, at ail events, surgery is indebted to medicine. From Professor Ferrier's work, for example, brain surgery has to a large extent been the outcome, although without Listerian antisepticism little of what was done could have been accomplished. One of the best instances that could be mentioned of the good results that have been obtained by the combined work of a physician and surgeon is that of Dr. C. Allbutt and Mr. Teale, of Leeds, whose researches on scrofulous cervical glands, pulmonary abscess, and other conditions existing on the boundary line-one every day increasing in breadth-between medicine and surgery, are doubtless familiar to all present. In truth the more inrestigation is pureued in this direction the more likely is it that surgical possibilities in many other medical cases than those I have mentioned will become recognised. One of the immediate and most salutary consequences of this overlapping or fusion of our work has been the gaining for the profession at large of a vast increase of influence and public confidence-more, it may be safely said, than has been gained by any of the other professions in the same time, and which has been obtained not becanse it has mastered so many of the secrets of disease or injury, but, as an eminent living statesman has observed, "Because the world was well a ware that the rery highest of human abilities were addressed in ample quantity to the business of the profession, and that their abilities were addressed to it with all the zeal and all the judgment which they could expect from human capacity and assiduity in any of the pursuits of lif ${ }^{\text {s.". }}$
Anliow, what next? Are we on the threshold of unexplored regions of researeh, or have we arrived at the hopeless deadlock of finality that some maintain we have reached? We should reject eo disheartening a suggestion, and fearlessly pursue our course, relying not alone on biological research, but also on improvement in surgical precision and of surgery, more particularly in its operative aspects.
As regards the future progress and development of medicine it has been said by an eminent scientixt, but I think unphilosophically, that present researeh forces on us the conclusion that in order to appreciate the etiology and prevention of disease we must in future rely rather on chemical than on biological inves-

In connection with the all-important question of the origin of cancer, it has often occurred to me as remarkable that the question as to what part syphilis takes in its development has not been nore frequently a aubject of consideration. I confess to a growing conriction, based on a tolerably long clinical experience, that in the early life-history of cancer it is not so much a direct etiological factor, so to say, but rather tends to promote a condition favourable to the derelopment of the entity, whatever it may eventually prove to be, which plays so important a rôle in the first act of a drama which as a rule has so tragical a termination.
Recently Professor Lang, of Vienna, has drawn attention to this subject, and has given the particnlars of a series of cases which illustrated the tendency to the development of carcinoma on a syphilitic base, and he alluded to similar cases recorded by Mr. J. Hutchinson and Professor ron Langenbeck. $3 y$ colleague, Professar Hamilton, has also detailed to me the history of two remarkable cases which were signally illustrative of the development of cancer occurring during the treatment for secondary syphilis, the disease appearing in the groin, and running a rapidly fatal course. Did time permit I could also adduce instances illustrating the close affinity between the two diseases. 1 allude more particularly to cases of ulcerated lingual gummata, which ultimately presented the characters, clinical as well as histological, of epithelioma. In reference to this subject Mr. Hutchinson observes: "The atatistics are wholly wanting as yet which would enable us to give any confident opinion as to whether the damage the tissues receive from a syphilitic infection makes them more prone than before to take on the erratic modes of growth which constitute cancer. In the case of the tongue, the association of the two is so common that it is difficult to ayoid an impression
 opinion that one of the causes of the increase of cancer of late years-a fact noted by the Registrar-General-is the greater spread of syphilis (Journal, April, 1888). If these riews be ultimately endorsed-and who in the present state of our knowledge can say they cannot?-how largely does it add to the imperative
duty that dever posal, efforts to dissipate the public prejudice that exists to bringing about a re-enactment of, I trust, the temporarily laid aside Contagious Diseases Acts, and how greatly does it intensify the grave responsibilities of all who unhappily, under the baneful influence of that mischievous sentimentalism which has done so much to sap the judgment and good sense of so many men as well as women, thwart and hinder efforts which, when made, have been proved to all unprejudiced persons to be fraught with good to mankind, not merely now, but for untold ages to come. The elimination of this dread scourge of the human race is not a national, it is a cosmopolitan question. It is one not so much for the therapeutist as for the statesman. "The time has come." said Marion Sims, " when we can no longer shut our eyes to its evil influences, and we must deal with it plainly, as we deal with other great evils that affect the general health of the people. If yellow fever threatens to invade our precincts, we take steps to arestias progress at once. If cholera sounds the alarm we immediately prepare to defend ourselres against its ravages. if
small-pox infects our borders we circumvent but a greater scourge than rellow ferer and cholera aud smish it : combined is quietly instalied in our midst, sapping the foundatious of society, poisoning the sources of life, rendering existence miserable, and deteriorating the whole human family.
I might adduce much, and, to unprejudiced minds. conclusive eridence as to the beneficial effects of the Acts in protected districts, not only as regards the diminution of the disease, but also in reference to the good moral effects of them; but on the present occasion I will, in connection with the former, content myself with mentioning one fact. It is mentioned in an able paper on this Circular, April 30 th, 18799 . In 1874 the 50th Regiment came to Dublin, an unprotected station. It was previously for seren months at Aldershot and CIChester, protected stations. The length of time was practically the same that the regiment spent arcrage strength of the regiment during the tro periods. The admissions per 1,000 men, Thile protected, for syphilis was 11.97, and while unprotected 118.81 , and it should also be stated that during the first period there was the adrerse influence of 13 pet cent. fresh recruits, while there tere nd enlistments in the second. Other facts equally striking could bo mentioned, proving how
potent for good the Acts might be made; but the one 1 have ndduced speaks, iu my, opinion, trampet-tongued in their favour.
But encouraging as the results of tho Acts. have been, it is not from such partial legislation as that contained in them that we can look for any great or permanent improvement. This need not be expected until statesmen and philanthropists of all nationalities shall combine in endeavouring to crush the enemy in our midst, that every day brings in its train disease, destitution, and death, not alone to the guilty, but also to the guiltless, and transmits a bitter inheritance of sorrow and suffering to the innocent Fet unhorn. And yet to the efforts made to mitigate or stamp ont the disease the strongest opposition is made by those "friends of humanity" whose perverted notions of right and religion make them give an insensate opposition to a movement which, if earried out effectually, would put such a check on immorality and diminish so largely diseases among all mankind. When we, consider the suffering, blighted hopes, the loss of life that the disease unchecked carries in its. wake, we cannot. but realise the fact that although sentiment is a mercy, it may be one that for a nation is the most costly-and for humanity, the most cruel.
The task of dissipating many of these prejudices and errors of persons of doubtless good intention as a rule, but of weak intelSectual fibre, and which, in more than one instance, have culminated into what has become a real calamity for mankind, is one that all can undertake, no matter what their abilities or mental powers may be. If it be not possible to have a position in the scientific vanguard of our profession, much, may be done in supplementing, the work of those whose strength and whose work have enabled them to get there. Men of much creative genius are, as they ever huve been, rare in their generation. But those without this may not the less be "true sons of their century," for it is the men of order, the men who work with method. earnestness. and truth, that ilo the great mass of the world's work. If they have not strength to carry a rotive tablet to the Temple of Truth, they can at all events assist in fixing and cementing it: and fortunate it is that such is the arrangement made by the One Perfect Workman, for it shows us the import-ance-nay, necessity-of mutual help which must exist so long as men's qualities, mental powers, and tastes are so diverse.

In future, the relations between surgery and medicine being now so happily altered, the physician and surgeon will work in unison, the labours of the one supplementing those of the other, their mutual jealousies and differences forgotten, or relegated to the hazy traditions of a past that has but little interest to anyone, save, perhaps, the historian or the antiquary. This union for the good purposes of mutual help will bring us increase of strength, of confidence, and hope, and assuredly prove that we are all, so to say, of the same guild, all animated by the same wortly ambition, by the same desire to "allow," as Lord Bacon said, "the spials and intelligencers of. Nature to hring in their bills," and. all animated by the same fair aspiration to discover, collect, and replace the scattered fragments of that precious crystal of truth, which, it has been said, foll from, and was given to us, from hearen.

## THREE LECTURES

 TUBERCULAR JOINT-DISEASE AND ITS TREATMENT BY OPERATION.Delivered at the Royal College of Surgeons of Jingland, June, 1588. Br ARTIUR E. J. BARKElR, F.R.C.S.,
Hnntarian Professor of Sorgety and Patholngy nt tha Royal Collagnon Sargeons : Sargeon to. University College Hiopital; and Teacher of Practical Surgery at Uuiversity College.

## Lecture 1.

Mr. President and Gentremen.-I shall doubtless best show my deep sense of the great honour you have done me in placing mo in the position I occupy to-day by addressing myselt at once to the task conflder to me, with no more preface than a frank admission of my consciousuess that the treatment of the subject chosen is worthy of far higher powers than I can hope to bring to bear apon it.
In aelocting for the subject of these lectures some of the
questions involved in the operative treatment of tubercular disease of joints, 1 ventured to think that the time had coma for a recousideration of our position in this field of surgery: Within the last few years two great events, have occurred, Which may be said withont exnggeration to have affected this subject to its very fonndation. I allude to the general accept.ance of the theory of antiseptic, or, as it may now be better stylod aseptic, wound treatment, and the discovery of the trus nature of what is kuown as tubercular disease. But, though the theories of asepsis and of the parasitic nature of tubercle have already taken deep root in the surgical mind, reading and observation have convinced me that as yet they hate not harl that profound effect upon the daily operative treatment of scrofthons joint a dections which they are destined to have when more thoroughly familiar to the profession at large, 1 have thought therefore, that to review this subject in the light of these two theories would not be a useless task, especially as the observations and researches beariag upou many of the questions involved are widely scattered, ani more or less inaccessible to the ordinary reader; and, although it has heen a labour of love to me to collect, study, and weigh these, and to test them in practice, I can easily belleve that to many practitioners this might le a task demanding larger privileges than 1 have been fortunate enough to enjoy.
Step by step real and solid progress has been made in the operative treatment of joint affections in past years; but to, those who look closely into the subject now in the light of these two events, it seems probable that these improvements will soon be left far in the distance by the achievements of the near future. The territory before us is large, and as yet its borders only laare been cultivated. The object of these lectures will be to inquire whether, with our improved resources, we are not now better able to meet aud overcome its hostile, forces; and whether, with the increased light thrown upon some of its darkest spots, we have not already aummented its yield of fruit, and are not justified in looking for a still more abundant harrest.
In this survey, which must of necessity, be brief, I cannot traverse all the ground already broken, but I do cherish the hope that I may be able, at all events, to make an outline sketch of our present position and of the ground before us, and thus perhaps assist in preparing the way for further steady advance.

If one were asked to furnish a good single illustration of the evelution of surgery from the condition of a mere handicraft to the dignity of a science, one could hardly do better than point to tho ehange which has lately come over the surgeon's mode. of regarding. and dealing with what has hitherto been generally spoken of as serofnlous joint-disease.
In order to give this illustration its full force, it, would be necessary, in the first place, to point out the various steps in the process of reasoning which had led to the substitution of the more exact term "tubercular" for the vague expression "scrofulous," and to trace the gradual, crystallisation of the former term into its present more precise meaniag. It, would be necessary, further, to show how this gradual growth of knowledge had infuenced not only the selection of cases, but also the actual mechanism of operation, aud converted procedures which formerly seemed to demand little more than an acquaintance witls the anatomy of a joint and the exercise of manipulative dexterity into a test of all those processes which go to make the success of a delicate experimenter in physics or chemistry. In this'inquiry it woukd soon become abundantly evideut that the old days of the showy tour de maitre, as applied to excision, had passyl away, and had given place to a better era, in which the prineiples of physiology, chemistry, physics, and biology are applied to overcome difficulties and to repul forces either quite unknown or wholly misinterpreted in former times.

This, Sir, I am aware, is but hinting in homely phrase at what you hare so eloquently and philosophically expressed on this spot in your IIunterian oration, the influence of which upon surgical tlought cannot he overrated.
Remembering your words I am emboldencl to pass on without apology to a review of the question on the lines indicated, to the consideration of those first principles which onght and actually; do guide us now in excising disensed tissue from scrofulous joints; and thougl this review can only be, hief, I, fear, nevertheless, I shall have to clam the indulgtince of many here to whom much that 1 have to say must be already familiar.

First in order among the mumerous questions bearing upon the operative treatment of tubercular mischief in joints comes the
inquiry as to the nature of the disease 80 characterised; and before all things, we have to decide whether it is not the same as that hitherto spoken of as "scrofulous" To an audience such as have the honour of addrcssing, l need hardly give all the reasons in detail for regarding them as identical; but may be permitted, perbaps, in order that my position may be defined, to recall to your minds the leading facts whiclu have been gradually accumulating in aupport of this view.

To some this may appear unnecessary, but I cannot forget that, up to a comparatively recent period, it was generally taught that scrofula and tuberculosis were two distinct diseases; also that many surgeons at home and abroad, who do not perhaps enjoy the privileges of closely following the rapid advances of pathogical iurestigation, are still under the dominion of the same view. Further, the 3 mportance of settling this question is not
amply attested by the number of earnest workers who have deroted themselves to its study, but, as I hope to show; by the bearing it has npon the treatment of joint-disease, whether by or without operation.

The first great step towards a settlement of this matter was the gradual recognition of the fact that tuberculosis, as it presented itself in internal organs, was a well defined disease, producing definite tissue changes. That the result of the latter in their earlier atages was the formation of peculiar bodies having a welldefined structure recognisable in any tissue of the body, and liable, as they grew older, to certain secondary changes of a degenerative kind. These bodies, which received the closest attention in the lungs, soon came to be recognised in many other organs, both in the miliary form as well as in larger aggregations. Differences, to be sure, were noticed among them, but these were soon seen to be due to the stage of growth in which they were examined. The small miliary tubercle differed in its outward appearance from the larger caseating nodule; but, soon, intermediate forms were found, and it was observed that the larger body sprang orginally from a focus identical with the smaller, and had only changed in so far as its more central portions had undergone fatty
or caseous degeneration. It was observed further that when such a caseous degeneration. It was observed iurther that when such liquefied, the walls of the resulting space became more or the air it mapidy inflamed, and threw off not only its own proper necrotic fatty debris, but actual living leucocytes in the form of pus. We had, then, the tubercular cavits, say in the lung, secreting pus, and throwing off caseous detritus, and in the walls of which vessels of greater or less calibre were eroded, and often bled freely. lloreover, it was noticed that patients in whom these deposits could larly, and often fatally, in other parts, such as the joints, the brain, or intestines, and that the deposits in these parts underTent identical degenerative changes in the course of time.
Then came the recognition of the fact that the offspring of such patients appeared to be peculiarly prone to chronic joint-affections, besides enlargements of the lymplatic glands.

Further, it was noted that in these chronic affections of the joints und glands, characterised from time immemorial as "scrofulous," the ultimate result of the tissue changes was the production of caseous foci identical with those known as "tubercular" in the lungs.

Again, in innumerable cases of apparently primary scrofulous joint-disease, it was observed that, sooner or later, the lungs, cular diseasc Ultimately, a careful microscopical studs of the tissues of such joints revealed the fact that the initial lesion of joint scrofula was histologically the same as that of lung tuberculosis, and that typical tubercles could be demonstraterl in them with the same ease as in the lung, and undergoing the same degenerative changes.
This would almost appear enough to establish the identity of the two diseases, but, in addition, there was a mass of clinical evidence aceumulated, which pointed in the same direction. The age of the patients most commonly affected was in both cases usually the same ; the conditions of life favourable to the development of scrofula and tubercle were shown to be closely allied. The general appearanee of the patient was as nearly as possible alike in the two conditions; the variations of disease was advancing or retrograding, were nearly parallel in the two affections.
Bint, though all these facts seemed to point very clearly $10^{\circ}$ the identity of scrofita and tuberculosis, it was mot unti] the disco-
very of the bacillus tuberculosia and its demonstration in the initial lesions of the two affections that positive proof was actually forthcoming. Almost at the same time Koch and Laumgarten pointed ont that in typical tubercular and scrofulous nodules this organism could invariably be demonstrated by different methoda of preparation, to which it is not necessary furtber to refer, Their researches were soon supported by a wbole army of bacteriologists, both abroad and at home, and among onr countrymen none has done more in this direction than Mr. Watson Cheyne. And it strength of their own observations, had stood out most firm against the theory of the specitic or parasitic nature of tubercle lave since become its most ardent supporters, and, moreover, hare given in their adhesion to the view that this bacillus is the specific organism of tuberculosis. Among these may be mentioned. CohnWilson Fow and Professor Burdon Sanderson I believe, the late Dr. But it was not alone on the constant discovery
in tubercle, be it remembered, that the theory of its causal rillus tion to tuberculosis was based. Frperimental researcl rela showed that no substance not containing these organism 800 n capable of producing in healthy animals the disease in question and, on the other hand, that substances in which they were pre sent, if inoculated with due precantions, invariably produced the disease in certain animals, not only locally, but as a rule also gene rally throughout the system. It is true that experiments at first appeared to point in the opposite direction; but a repetition of them with proper precautions against error left no doubt on the aubject. And not only was the inoculation of fresh tubercle shown to produce in all cases a definite tuberculosis, but it was also demonstrated that the organisms in question, cultirated for many generations in rarious media until all trace of contaminaof, were matters from the original living tissue had been got rid the animal body, with as creat certainty as deep sleen is produced by the hypodermic injection of morphine. Again, the bacillis could be obtained in any quantity from tubercles produced in internal organs by inoculation of these cultivations in distant parts, and could be multiplied ad infinitum by cultiration and propagated among some of the domestic animals with unerring certainty

Now, it mattered little whether the tissue from which the inoculations were made was taken from a scrofulous joint or a
typically tuberculous lung; the result was practically And here we have, 1 think, the identity of the treo divensas, tuberculosis and scrofula, proved to demonstration as clearly as anything is capable of proof by experiment.

The researches bearing upon these facts are far too numerous for detailed description. i mere enumeration of them would occupy more time than is placed at the disposal of a Hunterinu lecturer. But to any caudid mind they bear but one construction. namely, that tuberculosis and scrofula are diseases produced by the introduction into the animal body of a specific poison, and that this poison is almays associated with the presence of the bacillus in question, if it be not actually the organism itself ; and further, that without the presence of this organism typical tubercle does not exist.
But though we cannot follow here one tithe of the researches in support of this position, it will greatly promote the objects I have in vew in discussiug the nature and treatment of tubercle in experiment and its effects upon the tissues aud organs. I fake, then, for illustration a well-known one as performed by Bumgarten, who is peculiarly qualified for such work by his profound histological research in other fields as well as this, an experiment which has been repeated by many other observers witl have a close parallel in those demonstrabe seen in the rabbit's eye human organs, as is shown by Arnold's careful studies of the forination of tubereles in the lung. But as they can be followed in their various stages, and uncomplicated by ordinary inflammators processes only in experimental iuoculations on animals, the latter. are taken for illustration.
In the experiment in question, a small fragment of caseating tissme is removed from a scrofulous joint or gland, with due precautions agamst contamination from without, and is inserced into in anterior chamber of a healthy rabbits eye through an incision in the cormea (Fig. I, S.). The same operation is also performed at the same time on a large number of other rabbits' eyes. One or
more of these eyes is exeised daily and placed in preserving fluid for histological examination.

Now, what is found?
In the first few days absolutely no change is observed, except the cicatrisation of the comeal wound (Fig. I, N.) and the formation of a capsule of granulation tissue (Fig. I, Gr. K.) around the foreign body introduced. But frem the second day on, a very erident inerease of the bacilli is demonstrable within the inoculated fragment, until they are present in profusion. From this spot at which they first multiply they are now seen to spread rapidly. In the first place they permeate the granulation capsule (Fig. 1, Gr. K.) around the cascous particle in enormous numbers, to which they communicate the blue colour seen in this enlarged drawing of Baumgarten's section. Subsequently they penetrate into the adjacent parts of the iris and cornea. In the latter they spread chiefly along the fresh scar tissue (Fig. I, N.), \& fact of much significance to the operator, explaining as it does the occasional appearance of caseating foci in perfectly healed scars in the skin, perhaps weeks after an operation for deep-seated scrofulous disease.

On the fith day" scattered bacilli are seen in" those pertions of the cornea nearest to the point of inoculation, but without so far producing the slightest deriation from their normal histological texture. No traces of other speeies of organisms are to be seen with or near these immigrants, or throughout the whole iris or cornea.


FYE. I.-Sk., selcrotio: C.M., riliary musrle; I., iris; C., enrnea; T.F., tubervular forelgn horly (the black dots represent bacilli) ; Gir.K., granulaton capsule around latter packed with bacilli; N... new scar lissuc in corneal wonnd with baclllt; Beg. T., beginning of tubercular hyperplasia around bacllli
On the sixth day the bacilli are present in great numbers throughout the tissues of the cornea, which are still lowever practically unclaanged. But at certain points, especially where the bacilli lie in dense groups, cortain newly formed cells are to be seen, having the general appesrance of endothelial or epitheloid elemeots, rather than of white hlood or lymple corpuscles. Each day How adds to the hosts of invading parasites, which oceupy an ever increasing tract of the tissues of the iris. The nearer to the point of inoculation, the more closely packed are they; the further off, the more scattered. Where the organisms are rery sparse no histological changes are to be detected, but eloso to the poine of inoeulation joung tubercles in the form of aggregntiona of epitheloid cells nre now noticed, and a little later every intermediate form up to the perfect type of miliary tubercle with their lymphoid and epitheloid cells are to be seen, as in Fig. Il, L.T. and E.'T', which I linve enlarged from Baumgarten's drawing of a microscopie section. These formations are constantly found associated with foci of bacillus proliferation, no organisms of any other kind heing present. Moreover, in this experiment no tubercle, not men the smallest, is eter found at a spot free from the prescnee of bacilli, or having only a few of them. The amaunt of cell pro-
nests of parasites. Thus developing and extending, the tubercular process advances further until on about the tenth or eleventh day a visible macrescopie iritis and keratitis is produced.

In the distant internal organs of the animals inoculated as abore, an entirely analogous process of tuberculisation wns observed by Baumgarten. This was hest seen in the kidneje at about the fifth week slter inoculation. Ilere the vessels of the

Fig II.-C., the corner ; 1., the irls ; I..T.. 1 ymphoid tuberelc of iris: E.T., carlier tubercles.
glomeruli were frequently found packed with hacilli, nnd, whero the latter were sjreading into the parenchyma around, typical tubercles were produced. Large numbers of bacilli were also excreted by the kidneys. Similar experiments have been repeated by many other observers with cultivated bacilli, and with exactly
the same results. The dosage of microbes was, howerer, shown by $\operatorname{Mr} . \mathbb{W}$. Cheyne materially to influence the rapidity of the development of the disease, a point of the utmost importance as bearing upon clinical experience.

The question now arises, Can we produce any clear evidence that anything similar to this direct inoculation of tubercle on the surface of the hody ever takes place in the luman subject? This question can, I venture to say, be answered distinctly in the atfirmative, both as regards children and adults. fumerous cases have been put on record within the last few years which place the matter beyond doubt, and I cannot help thinking that other convincing cases must have come under the notice of some of those present here to-day. From the long list at our disposal allow me to select a few observations which are rery striking, and which deserve to be familiar to all.

In a Continental town containing a Jerrish community of some 9,000 souls, there were, during the months from February to Nay inclusive, nineteen children, all healthy, subjected to the rite of circumcision. Sixteen of the children were operated on by one man, the remaining three by others. In every case the bleeding was stopped, as was customary, by the application of the mouth to the prepuce and by sucking the latter. This part of the ritual is often carried out by different individuals, sometimes members of the family, sometimes by the operator. In the present instance the sucking was performed in ten cases by the functionary mentioned above as having circumcised sixteen of the children. In the remaining nine cases the application of the mouth to the prepuce was made by other members of the community. All these last nine cases recovered perfectly from the operation in the usual way; but the ten children in whom the bleeding was stopped by the application of the first operator's mouth all became affected with very serious disease between the eighth and $t$ welfth day, and in precisely the same way. The wounds or scars in the prepuce first became the seat of nodules, then of unhealthy spreading ulcers, secreting but little. In about three weeks the inguinal glands became much enlarged in spite of vigorous antisyphilitio treatment (the disease having at first been diagnosed as syphilis by Dr. Lehmanu, under whose trentment the children were placed, and who records the outbreak with great care). In three cases these glands did not suppurate, but the patients died with all the symptoms of tubercular meningitis within a few months. In the remaining seven the crands suppurated, and four of these died, one of intercurrent diphtheria, three of "marasmus." Tliree of the ten children recovered, but only after years of suppuration in the inguinal glands and burrowing of sinuses under the skin. On looking into the matter Dr. Lehmanu found that the operator on these ten children had been a patient of his own during the period of the outbreak, suffering from advanced phthisis of the lungs with cavities, characteristic sputa, night-sweating, etc., and who succumbed to this disease shortly after the last of these circumcisions in the month of May. Me found that this patient had only applied his mouth to the prepuce in these ten infected cases, though he bad circumcised sixteen, and that eversone of the ten were affected as above, While in the remaining six which he had circumcised, but in which the blood was sucked off by others, no evil result followed, nor in three other cases circumcised at the same period, though not by the same hand.

The careful way in which the details of this outbreak are giren and the tables drawn up ly Dr. Lehmann leave no room for doubt that the disease produced was local, and in several cases general, tuberculosis; and that it was inoculated into the prepuce from the mouth of the operator, who was dying of destructive tubercular lung disease at the time, and who became so weak at last that he had to be brouglat in a carriage from house to house for the performance of the rite in question.

I will not weary you by reciting all the cases of a similar kind which have recently been put on record, but will only mention that in many-notably those of Merklem, IIolst, Elsenbcrg, and Pfeiffer-not only Was the disease produced by the inoculation typically like tuberculosis, but the bacillus was fully demonstrated in the affected tissues. Pfeiffer's case, however, deserves passing notice on account of its completences.
The patient was a healthy veterinary surgeon, with a good family history, who, while aissecting a tubercular cow, punctured the joint of his left thumb. The mound soon healed, but the whole joint, which underwent the tJpical changes of a scrofulous synoritis, but withont the formation of sinuses. Some
months later the patient began to show signs of pulmonary phthisis, which rapidly increased, and he died of this disease a jear and a half after the wound of the thumb. The latter, which showed much swelling but an unbroken skin at death, was removed for special examination. The joint, on being laid open, showed all the destructive changes of scrofula both in the bones and synorial membrane; and in the latter, as well as in the brokendown material which filled the intervals between the bones, an unusually large number of bacilli tuberculosis were found. The microscopic appearance of the diseaser tisşues was also typically tubercular.
Such cases as those just described leare no room for doubt that tubercle can be inoculated in any part of the surface of the body, and may spread from the original point of entry throughout the whole system, until a fatal amount of general disease is produced.
Now, if the numerous facts of this kind already accumulatedof which those to which brief allusion has been made are only a sample-are capable of the interpretation put upon them, it is evident, in the first place, that a disease identical with human tuberculosis can be produced at mill in animals by the inoculation from man of the products of strumous degeneration, and of the organisms obtained from them by repeated cultivation; also that the disease so induced may manifest itself locally before ultimately becoming general, and may remain localised for some time. It is also clear, from many experiments, that its tendency to become a general disease raries creteris paribus directly with the number of the specific organisms present at the original point of inoculation, and that without these organisms no tuberculosis can be produced. Further, it is evident that the same disease can be produced in the human body in exactly the same may and subject to the same conditions.
But a number of other interesting and important facts have also been brought to the front in the extensive researches which hase been made in this field-facts which have loug been foreshadowed by clinical experience, and hare only a maited proof by experiment. Among these, one of the most important is the influence of the condition of the soil upon the growth of the organism.

As of the progenic microbes so also of the bacilli tuberculosis, it may be said that they hare to do battle in the animal economy with the rital forces of the tissue in which they are first deposited, and that these are in a large number of cases sufficient tor their overthrow, or at all events sumbicieut to arrest their multiplication and dispersion throughout the body. In the case of the human being it has been shown, by accidental inoculation, that though they may be introduced in a thoroughly active form they may, if the body is healthy, be arrested in their development and kept at bay until finally eliminated or destroyed; but if the ritality of the individual or part be low, that they have a great tendency to multiply and spread. Schithler's long and admirable series of experiments, which must be familiar to many here, place this beyond all doubt as regards animals, and our clinical experience of scrofulous inflammations in man confirms the rien. We know, for instance, that those who are weakly from inheritance or bad hygienic surroundings are most liable to these diseases and also tliat those tissues and organs, whose ritality has been lowered by injury or disease are specially prone to become the seat of tuberculous affiections. Children again are more frequently a prey to scrofula than adults whose tissues are in their full rigour. Again, it has also been proved beyond cavil, that tubercular disease is auto-inoculable, that the introduction of the loison at one spot does not give immunity from inoculation at another, but further than this, that it is particularly liable to be grafted from one part of the body on to auother. The importance of a full recognition of this last fact cannot be orerrated in con-
sid sidering the operative treatment of tubcrcular joint-disease, and it will be necessary to refer to it over and over again.

We must now glance briefly at the ordinary modes of introduction of the tubercular poison into the human body before considering its belariour towards the structures of the joints in particular.
Ever since the disease in question was first defined, the respiratory passages have been recagnised as the point of attack at
which the pathologica human body most frequently suffers. And clinical and mucous membranience has shown that it is from this tract of the other merrane that the infection most commonly spreads to been so often demonstrated by experimeuts on animals as to require only a passing notice bere. Not only has it been shown that the injection of phthisical sputa or crude tubercular matter, or the bacillus tuberculosis derived pure by cultiration from it
into the air passages will produce typical tuberculosis of the lunge, but it has been observed that even healthy animals of certain species simply living with others thus affeeted speedily depelop the same discase; and again, that lealthy animals placed in au atmosphere contaminated by tuherculons dust are soon similarly affected. Not only has all this been proved by many independent observers, but tho various stages of the disease from the lirst initial lesion of the eatarrhal mucous membrane to the linlly developed general tulberculosis have been traced step by step in animals thas dealt with.

Anl when we come to consider these experiments, and to compare their results with our elinical experience of phthisis in the hunan body and its minuter pathology tre cannot doubt for a moment that its etiology is the same in both cases.

Next in the order of frequeney comes the infection of the system through the alimentary tract. That disease was frequently propagated in the latter by direct inoculation due to the swallowing of phthisical sputa had long been suspected by clinical observers ; but by others the presence of tubercular ulcers in the intestinal mucous membrane of patients suffering from pulmonary phthisis was regarded simply as evidence of the general infection of the blood with this poison, and that, once introduced, it could break out secondarily in almost any organ whose vitality was lowered by local diseases. Experimental researehes have, however, proved that primary inoculation may take place in the intestimal mucous membrane without any lung disease through the medium of food contaminated with tubercular elements. Animals fed upon such food hare dereloped the disease in the intestine readily, while other animals of the same species fed upon similar articles of diet but uncontaminated have remained healthy, though placed in exactly similar surroundings.
But perhaps the most striking illustration of this mode of infection through the medium of the alimentary tract is furnished by a series of the most interesting observations made by Bang on tubercular disease of the udders of cows. After describing this disease in detail, he goes on to show that it is associated with the presence in the diseased udrlers of countless bacilli tuberculosis, and ultimately with the eharacteristics of general bovine tuberculosia. And, further, he shows that the organisms can be demonstrated in the milk of such an ulder, and that such milk will profuce typieal general thberculosis when supplied as food to suckingpigs or rahbits, or when injected into thenr peritoneal cavity.

The special linowledge of this observet, and the care with which his inrestigations were conducted, leave no room to doubt the correctness of his conclusions, which are also confirmed by Bollinger's elemonstrations of bacilli in the milk of tubereular cows anl its infective properties. That this infection also frequently takes place by means of milk in the case of children there is every reason to suppose, and, moreover, there are cases on record in which oven healthy adult individuals, living an isolated life amid the healthiest surroundings, away from other eauses of infection, have become tubercular from a diet consisting largely of the milk of perlsüchtige cows. The most convincing instance of this is to be found in the case of certainshepherds in the Swiss hills mentioned by Klobs. Amongst these hardy men, living in the purest air and apart from other unhealthy individuals, acute tuberculosis has been shown to have been produced by a diet consisting almost exclusivcly of brear and the milk of cows suffering from the same disease. Klebs has also described the case of a healthy' St. Bernard do"f fod upon bread and the milk of a perlsuichteger cow, with the result of producing general tuberculosis.

There is ono other supposed mode of introduction of the tuberele virus into the human sjistem to which I should like to direct your attention for a few noments, namely; that by inheritance. I am arrare that herc 1 an on disputed ground. But after a careful study of the evidence on this point pro and con., Ifeel bound to express the opinion left in my mind, inasmuch as this opinion will influence considerally what I have to say later on in regard to the operative treatment of tubercular discase. Now, I must confess that the theory which I was always tanght, and which lhave hitherto held, that tubercular disense is directly inherited in the parasite form in a large proportion of cases, appears to me no longrr temable. There is a vast mount of evitence no this pmint, and the liturature of the suhject one can hardly event think of without $\Omega$ shudder. That the organism of tubercle may be transmitted from n diseased mother to the fretus in utero in animals las no douht heen shown by Johne in one single cuse. But it is a significant. fact that Johne himself with his-perial lunwledge of the subject and his great oppor-
tunities amongst animals for study, and believing in the possibility of such transmission-writes in 1885. that the case he then described was the first certain one of foetal tubercle placed on record. It is also a remarkable fact that numerous other specially competent observers liave faited to find evidence of tubercle in foetuses born of tubercular animals, or found in utero after death from the disease in question; and, so far as I can discover, typieal tubercle has never been de-
monstrated beyond questiou in a human foetus at birth, or taken from the uterus after death, in spite of frequent seareh. But, even if it were occasionally found in the fotus, this wonld only show that such an infection thas possible as an exception, but it would not account for the enormous amount of tubercular disease observed among very joung children. We are, therefore, led to look for other possible methods of infection besides that from the mother in utero; and there are so many, as I have endeavoured to show above, that we are in no difficulty. Children born of parents debilitated with phthisis may inherit a low vital energy, but be withont a trace of parasitic disease at birth. But, with inherited debility, they are peeuliarly fitted to become a fruitful soil for the propagation of the tubercle bacilli if implanted on them; and in a household in which phthisical people live together there are countless ways in which an infant may acquire the disease from them. In the first place, the mother's milk may introduce the organism into the ehild; her breath may infect it; the dust of the house, contaminated by sputa, may carry the poison into its lungs or alimentary tract, or deposit it on an ahrasion of the skin. Indeed, it scems almost difficult to explain liow a child born weakly and brought up among consumptive people can escape more or less infection in one or other of these ways briefly alluded to. At all events, the prevalence of tubereulosis among the children of consumptives is easily accounted for without any resort to the theory of inlseritance.

Without going further into this very interesting question of inheritance, I will venture to say that anyone who will carefully study the eridence bearing upon it, and especially Wahl's exhaustive paper, will come to the conclusion that, although tuberculosis can certainly be inherited, such an occurrence is excessively rare, and that, in the rast majority of cases met with, the rlisease has been acquired, most probably, from the surroundings of the patients or from the food supplied to them.

It is highly probable, however, that there is such a thing as hereditary predisposition to tuhercular disease among the offspring of consumptive parents; in other words, that their tissues are a peculiarly fertile soil for the growth of the organism once introduced; but wherein this predisposition consists-whether in anatomical or physiological deviations from the normal, or simply in a general loss of that unknown quantity "vital energy"-is still a mystery.
When once engrafted upor one of the surfaces of the body, the bacillus tuberculosis is disseminated througbout the latter in a variety of ways. In the first place, though it has not been proved to possess the power of locomotion, its mode of spreading from a point of inoculation strongly suggests this. In Baumgarten's experiments on the eye mentioned above, the position of indivielual bacilli in the outskirts of the primarily infected spot can hardly be explained by their transport by any known tissue current. For instance, they spread by preference into the cornea along the fresh scar tissue of the recently healed incision (Fig. I, N.), in which, of course, there would be no ressels of any kind during the first few days; and, unless they travel by virtue of some power inherent in themselves, it is hard to account for their presence here at all. A few, of course, may be carricd in the interior of wandering leucocytes, but this does not explain the movements of the majority, many of which are found apart from the leacocytes. They have also been shown to have the power of penetrating the walls of the renules and arterioles from withont, and of so gaining access to the blood-stream.

But leaving this question as to their power of moving themselves from place to place to be settled by future ohservation, the other modes in which they are spread through the body demand brief notice. There can be little doubt that, in the rast majority of instances, they are primarily taken up by the lymphaties, and $\boldsymbol{j}^{10: s}$ from these into the blood-current, to be carried by the latter scondarily into distant parts of the body. But, as a rule, the glands nearest to the point of inoculation arrest the progress of the organism more or less completely. It must not be forgotten, however, that the malls of a large lymphatic ressel such as the thoracic ever, that the tralle of a large ymphatic ressel such as the aracic
duet may be seendarily infected from proximity to an inde-
pendent focus of caseation. From a vessel so infected an abundant supply of bacilli may be furnished direct to the circulation, no glands intervening to offer 'a barrier. Through the coats of the pulmonary vessels they have also, as already statod, been do sred to pass directly into the circulation; but they probably do so to a very small extent as long as the walls of the vessels are rein, wh by inflammation. But it is quite otherwise when ta rein, whether in the lung or elsewhere, lies in close apposition to
a caseating focus of tubercnlar diseuse. In such a case the waill of the vessel may be eroded, and the contents of the caseous abscess may be poured directly into the venons, and from this into the general circulation. This has actually been demonstrated by Weigert, in an interesting series of cases, to have taken place, and to have been followed by rapid general tuberculosis. A knowledge of this fact ought to have an important bearing on the operative treatment of tubercular caseating foci. It is rery easy to imagine how, easily surgical interference may give rise to
this mode of general infection when we remember the constant presence of dilated thin-walled yeins around the walls of caseous abseesses, and the ease with which they may be torn. Again, the rough handling of a tubercular joint, even witbont any cutting operation, may complete the rupture of a vein already partly
eroded by its proximity to a caseating process, and may regularly inundate the venous blood-stream with the products of the latter. We have all, I suppose, seen rapid general tuberculosis follow upon some disturbance of a scrofulons joint by injury or surgical interference, and such a sudden inroad of the products of the local disease into the venous circulation would best explain such an occurrence. The beneficial effect of absolute rest too in limiting tubercular processes may be no doubt explained in part by absence of this dispersion of bacilli through eroded vessels, rest giving the latter time to erect barriers against the encroachment of the organisms by means of ordinary plastic phlebitis.

Bnt it is to the lymphatics that we must look as the ordinary carriers of the microbes from their first landing-place; and it is fortunate that this is so, for in a large proportion of cases the lymphatic glands appear to have the power of arresting their further progress until they either die or in some way their dangerous powers are curtailed. There is every reason to suppose that in many cases the bacilli are arrested completely in the glands and never get any further. But it is equally probable that in a large proportion of cases they or their spores pass quickly through them in greater or less number. and gain an elltrance into the blood. It is also more than likely that they, or their spores, often pass on from the glands into the circula-
tion atter a long and comparatively quiet sojourn in the former, perhaps amounting to years, and only become dangerous on being disturbed and widely distributed throngh the circulation. The importance of this power of the lymph glands to arrest the organisms and prevent their for, once they have entered the blood, they find a most fruitful soil for their propagation, and not only this, but they are carried to every part of the system, and can select among the organs and tissues one or more spots specially suited, either physiologically or pathologically, for their propagation. That certain organs and tissues are peculiarly liable to be attacked by this disease has been well known for a long time past: but the conditious determining the point of attack have not been so well understood.
Undoubtedly tho view that injury to Undoubtedly the riew that injury to a part predisposed it to integration of tissue, with extravasation of blood, or disturbance of its functions, or ouly amount to impairment of those forces which ge to make up what is brielly termed its "vitality:"
But besides the influence of external agencies in predisposing to tubercular growth, there appears to be in certain spots in the body some inherent suitability of soil for the cultivation of the bacillus tuberculosis depending upon their physiological conditions. In other words, with the aryanism in the blood of an indiridual not unfavourably intinenced as regards one part or another hy external agencies, the bacillus appeara to prefer to make its home, as a rule, in cortain tissues, and to leare others unaffected.
The pia mater of the child furnishes, perhaps. the best example of what 1 mean, the melulla of the bodies of the vertebre the next best. Both of these tissues in the ehild are as far removed from the action iof injury, or, indeed, of any external inlluence, as possible, and yet the frequericy with which they become the seat of tnbercular disease is proverbial.
du It would be interesting to examine the parious aspects of this
particnlar question at greater length, but 1 am obliged to content myself to-day with this very brief allusion to it. Ennugh has heen said, I hope, to indicate the line of reasoning I bave been led to adopt as regards the nature of tubercular or scrofu ous disease, and which II shall renture to pursue in its direct application to joint-disease in my next lecture.

## ON HYDROPITOBIA AND IT'S "TREATMENT:"

 esfechaly by the hot-atr bath, commonlit termed the botisson remedyBy VICTOR HORSLEY, F.R.S., ETC.,
Surgeon to the National Houpital for the Paralysed and Epileptic, Professor Superintendent of the Brown instltution, Professor of Pathology in

University College, and Asistant-
Unfersity College Hopltal.
Hydrophobia being a disease of which the true pathology was scarcely known nntil a few years ago, indeed almost until M, Pasteur began his remarkable investigations, has always been regarded by the quack and the impostor as a fair field of enterprise. The authoritative statements employed by suoh therapeutical pirates to foist their methods and nostrums upon tbe much befriled public commonly include the prominent expression of some popular belief. Amongst such beliefs mnst be placed the ubiquitous confidence reposed by the laity in the active secretion of sweat as an efficient means in getting rid of the materios that if there is such a poison in the body, it can be "sweated out," just as it used to be generally believed (though now only by a particular sect) that the exercise of religions faith would, if energetically resorted to, get rid of a malady. The application of this sweating treatancient origin : and, under the belief referred to, it bas beenlargely employed and advocated by irresponsible persons of every dargely The practice of subjecting hydrophobic patients to hot air baths, however, received support from a French physician of prosuffered from symptoms, most of whi hi resembled those of hydrophobia: but, from the account he gives of his trouble, his diagnosis that he was really suffering from that disease may well be called in question. Acting on the belief that he was so
stricken, be entered a hot-air his existence, but he gradually became calner, and of terminating ptoms totally disappeared. Struck by these circumstances, he strenuonsly adrocated the use of the hot-air bath in hydrophobia. and published cases in which he thonght he had success-
fully combated the disease. IIe stated that if the patient were placed in the bath on the first day that the symptoms manifested themselves, a cure would be infalibly obtained. If only on the second day, that the cure was possibly uncertain, and that the Dreatment was hopeless if begun as late as the third day. Since
Dr. Bousson's papers were published, many patients, actually Dupposititionsly suffering from hydrophobia, or in whom the or currence of the disease seemed possible, have been treated on this plan. All those patients who have been reported by respectable practitioners to hare been suffering from genuine hydrophobia have died in spite of the Bouisson treatment.
Instances of its employment by
ferred to presently. In spite of the failure of entioners will be reattempt was made in the recent epidemic of 18ss, and sulise quently, to secure its trial by the profession. As might be supposed, its adoption is principally urged by those who are, for
obvious reasons, opposed to the progress of medical science the paid antivivisectionst agitators. These persons spread broadcast glowing misrepresentations of the system, and raise, as 1 have myself seen, many false libpes, and so canse much pain in the muds of the patient and his friends. For instance, one of their
agents, $\_$Rev. J. P. Wright, made the assertion that " Figlty agents, $\{$ Rev. J. P. Wright, made the hod, and ouly one Eighty ful case was chronicled." (The Zoophilist, January, 1858, p. 152.) It is deeply to he remetted that eertain medical practitionersto wit, Dr. Bell Taylor, of Nottinghan, and Dr: Clarke. of Clapham, have conntemanced the statements of these people. and adsvocated lhe trial of such treatment on man. What the "antivivisectionists "clearly desire is that the profession at larce should make a series of experiments on man to see whether this Bonisocni treatment is worth ening hn with or not. Mnst of us,

Lowever, believe that we can more fitly fulfil our duty towards our neighbour by testing new remedies, not upon his body, but upou that of one the lower animals, and it was with the object of averting such wholesale human "vivisection" that I institnted a series of experiments (that is, carried out the Bouisson treatment) upon lower animals (rabbits) suffering from rabies or hydrophobia. I was enreful to carry out this treatment, not only therapeutically, but also prophylactically, but I regret to aay that it fayoured rather than bindered the course of the disease, death being invariably the result in each case.

The experimental method adopted was as follows. I inoculated by the usual subdural method eleven animals with what M. Pasteur calls the virus fure-that is to say, the pure virus of the
tion commenced prophylactic treatment with the hot-air bath, as will be seen in Table III. This treatment antedated by two days the onset of the symptoms, and so expedited the fatal result. There is, therefore, no question in my mind but that this measure exerta a very unfavourable therapeutical influence upon patients suffering from hydrophobia by diminishing their resistance to the diaease.

I will now proceed to describe in detail the method of experimentation, and afterwards will discuss the effect which it appears to have had upon the human patient in those cases where it bas been tried in indubitable cases of hydrophobia.
A. Bouisson Treatment of Rabbits.- The rabbit is an animal which is sensitive to the artion of hent, and in which, conse-

disease, which, in the geries that 1 possessed, produced its first symptom almost invariably upon the eighth day after inoculation, sometimes, but more rarely, as will be seen by Table 1, on the ninth day. I alao inoculated three rabbits with virna taken from the medulla of rabid dogs of the atreet, anch virus usually producing, as is well known, its first aymptom about the airteenth dsy, but in certain rarer instances in the manner of the virus fixe namely, from about the seventh to the ninth day. (See Table II.) Theae fourteen animals I placed in a hot-air bath, according to Dr. Bonisson's suggestion, directly they showed the first distinct symptoms of the diseage. Finally, I inoculated two other animala with the virus fire, and on the third day after inocula-
quently, the effects of the hot air can not only be readily observed but also aeen to continue long after the animal has been removed from the bath. Bearing in mind the statements made by the advocatea of the system as to the therapeutic advantage to be gained hy employing a high temperature in a more or less continuous manner, the rabhit appeared to be an animal which specially lent itself to such a mode of treatment, for by keeping it at a high temperature for some hours and then removing it one waa able as a rule to prevent the onset of heat paralysis, and at the same time to ohtain the continuance of the effect of the bath, for example, in the elevated body-temperature, etc. The bath eonsisted of a roomy wooden chamber with glass front and window at the back,
there being at both ends a suitable aperture fitted outside with a ledge for the resting of the head of the animal in the fresh air surrounding the box. As the aperture was, of course, considerably larger than the neck of the rahbit, the intergpace was blocked by soft cotton wool. My ohject in keeping the animal's head in the outer air while the body and limbs swere subjected to the hot air was to provide against the possibility of its general vitality being depressed by the carbonic acid, etc., which ras doubtless present in the heated air of the chamber, the said air being obtained from an iron funnel and pipe (this opening into the bottom of the chamber), heated by a large Bunsen burner. A thermometer passing through the roof of the chamber recorded the temperature.
conscious and dies comatose, usually in from three to four days after the appearance of the first symptom. In Table I it will be seen with what remarkable, indeed mathematical, regularity the symptoms ran their course, with a rapidity slightly (as in Table 1) or markedly (as in Table III) accelerated hy the treatment.
2. The effect of the bath. (a) On the normal animal. When a healthy rabbit is placed in a hot-air bath which is, to begin with, at the temperature of the room, and rapidly, that is within thirty minutes, raised to $75^{\circ} \mathbf{C}=147^{\circ} \mathrm{F}$., the respirationa of the animal steadily but quickly increase in number, the rate of the heart alao being accelerated, and the temperature of the body
rising rising to a rariable height, usually one-half or more degrees


The animal's condition could thus be easily inspected during the treatment, and the exposure of so small a portion of the body surface as the head to the cooler air doubtless exerted none but a beneficial effect. In two instances, Experiments 6 and 8, Tables I and II, it will be seen that the animals succumbed to beat paralysis. These were cases in which the disease was extremely marked, Experiment 6 being one of those remarkable instances in which the rirus from the rabid dog of the streets occasionally evokes the first symptom and causes death within the minimal period, namely, that of the virus fire. In these cases I was endearouring to counteract the obviously more intense action of the malady by more prolonged bathing, but of course the injurioua effect of the bath found little resistance in the central nervons system already overwlelmed by the disease, and so produced the fatal result.
This leads me now to speak first of the appenrance of the symptoms calling for the treatment by the bath, secondly, of the action of the bath upon the normal and upon the rabid animal.

Centigrade. Occasionally, however, the rise in the number of respirations is preceded by a slight fall. The elevation of the temperature and acceleration of the heart and respiratory rivthm
are maintained for some hours after the animal is removed from the bath, and gradually return to norm $b$. On the rabided from The diseased rabbit when placed in the hot chamber exliibit the sanne series of phenomena, but, as might be expected in a more tiolent, that is exaggerated, rannel, and this in proportion as the disease has exerted its destructive infuence upon the nerve centres. Thus, in Experiment. 2 (see Tabla IV), on the third
das of treatment the rise of temperature of the bods (rectal) was most remarkable. The temperature of the animal at the mome of its being placed in the bath was axcessively low, it beinent the end of the disease, namely, $24.5^{\circ} \mathrm{C}$. In two hours and a it had shot up to $39^{\circ} \mathrm{C}$. that is a gigantic rise of no less than $14.5^{\circ} \mathrm{C}$. $=26^{\circ} \mathrm{F}$.

I have 69 charts of the curres, indicating the temperature of the chamber, the rise of the temperature of the body from the be-


1. The initial symptoms. rabies is rarely (sce Table 1, Experiment 15) accompanied by the excitement so usually seen in other animals. Consequently the first symptoms observed in this animal is the paresis of the hind limbs, this occurring in all cases of rabies, furious or not. When this was distinctly present in the running or jumping morement of the animal it is expressed in Table 1, under the term "marked paresis." It constituted an admirable meana of detecting with certainty the onset of the characteristic symptoms of the malady. It will not be out of place to add that in the further progress of the disease the animal becomes more and more paralysed, and that from being apathetic at the commencement, it'rapidly becomes un-
ginning to the end of the experiment ord the variation in the respiratory rhythm. Analysis, however, of these numerons ohserrations would take me beyond the scope of the present paper. and therefore I will content myself with simply exbibiting the chart. showing these phenomena in the instance just referred to (see Table IV).

I will now mention the general effect upon the rabic symptoms. These may almost be entirely summed up as being exacerbated. If the animal was taken out before the respiratory acceleration became excessive. it was occasionally noticed that, when previously apathetic, it might be more excitable, but, as a rule, that ifithe apathy rere well marked to start with, the rabbit
was rendered more unconscious. In all cases it, was much weakened by the heat, and this, exhaustion and diminution in the vigour of the animal explains, I believe, the effect of the treatment in man in those cases where it reduced spasm.

The unsteady, shaky gait of tho animal was always exaggerated, as also the paralysis.

Apart from the effects descrihed, the usual influence of leat upon secretion was made obrious. Ordinarily there was a free flow of saliva and urine, and the intestinal peristalsis was notably increased. The, hypothetical excretion of the poison might thus be supposed to have been in full activity, but the only effect upon the animal was sedative-that is, that of further exloaustion.
B. Prophylactic 'Treatment by the Hot-air Bath.-With a view of giving the treatame t a trial before the discase had slown itself, I employed it p:opl:ylactically in two cases, as shown in Table III, In each instan se thie bath was employed as already described, but
patient was much comforted, became drowsy, and ultimately slept for half an hour. 'This result can hut be considered as a very gratifying one, if regarded in its true light, namely, as a palliative not curative effect. As Mr. Southam states it did not "prevent a fatal issue."

On the other hand, instances are recorded in which the hot-air bath caused distress. Thus in a case published by Dr. Southey (Medical Preas and. Circular, 1887, p. 72) the bath was administered on the ercaing of the first day of the spasm; "he now had a vapour bath, during which he complained greatly of the heat, and he perspired ireely". The next day "he absolutely refused the vapour bath." This patient, being a genuine case, of course died.

If an uflicient palliative, the lot-air bath would be an adjunct to a sedative course of treatment; for in Mr. Southam's case it clearly exhausted the nerve ceutres, so that they no longer painfully reacted to rellex stimulation. The exact counterpart of this crbausting effect we have seen in the rabbit similarly treated

in each case, alao, as shown in tho table, the symptous commenced on the sixth day, that is, two days premnturely, and one animal actually dicel at the end of the eighth day, instearl of as usual at the end of the eleventh. The athers dint at the end of the nintls day. This indicated so, unmistakably the geworal injurions cffect of the treatment, that it was unnecessary to pursue the investigation.

1 will now give two instances in which the bath hus bren described to have produced an effect upon the hy"lyopholic hüama palient. The only gemuine case lun aware of in which distinct "benefit" can bo attributed to the bath uload is thit reported by Mr. Southam, of Manclester. In Case r (? Cufa, Vi) Bnitisn Jedical Jotrival, 18sl, $\mu .81$, it is expresply stated that after exposure to the hot air the spasms became mum? less marked, the

The consideration of thas point surgests that this is the time to ask ourselves upon what definite plan we ought lo treat this disease. Are we to go on attempting to cure it ly experimenting upon luman beings with suhstances like curare, or, as suggested by the antivivisectionists, with the bot-air lath; or shall we adopt; what soems to me to be the only justifiable course, mimely, assuage with all the narcotics at our disposal the sufferings of the matient, until we shall have fount out the real antidote by exproriiusnt upon the lower animals, especially upon that une (the rabbit) in which the disease takes its painless form, paralysis, a form of which thut remarkable veterinarian, Mr, Ionatt, said with prophetic force thirty-seven years ago:"I very much regret that 1 never instituter it course of experiments on the production and treatment of rabies in this animal. It would have been attended,
with little expense or dancer, and some important discoveries might have been made" (The Dog, by William Youatt, 1851). Surely the public, at any rate, who place themselves in our hands, under these the worst of circumstances, would unhesitatingly choose to be helped to die painlessly. And in following such a course no practitioner would be violating, by neglect, the great ethical principle of his profession, that he should endearour as far as lies in his power to preserve life as well ae alleviate pain. For there ia no single case of reputed cure of developed hydrophobia by drugs or other means that will bear close investigation.
 nimal although an enormous series of drugs have been tried notably by Mr. Dowdearmell (Proceedings of the Royal Society). Nor have workers in this direction been able, by the use of drugs, to imitate in the alightest the protection afforded by M . Pasteur's aystem of inoculation. Of the ability of that system to overtake and check the derelopment of disease, if applied within a reasonsble time after inoculation, and under the ordinary circumstances, there is no longer any doubt, but it is powerless against the dereloped symptoms. There remains for us, therefore, the determination of our action in those cases where M. Pasteur's system has failed, or where it has not been applied. hope I have shown sufficient reason that that action should, in the present state of knowledge, be simply palliative (by the employtreat of the most powerful narcotic drugs), and that all tentatire treatment by drugs or the hot-air bath, being quite
cure, and, consequently, cruel, should be abandoned.

## A NOTE ON NAETHYLENE AND OTHER AN ESTHETICS.

## By Sir spencer wells, Bart., F.R.C.S. Surgeon to the Queen's Household.

Early in May I received from Berlin a sample of "methylenchloride," manufactured by Riedel, of that city, with a paper on some of the different specimens of that anæstletic by five other chemists, from a recent number of the Pharnaceutische Zeitung. I was informed that l'rofessor Bardeleben had tried, and had been quite satisfied with, Riedel's methylene. Inhaling a little myself, it appeared to me rery much like the methylene most used here, but rather atronger; so I asked Dr. Day to make some comparisons of it with that'to which we have been accustomed for many years past. And having to operate at Manchester ou May 13 th and at Liverpool on the 1 thlh, I took some with me. At Mantereder I had to do sylenectomy ; and Dr. Scott, who had administered ether in Edinburgh for Dr. Keith for two years, preferred most to anything he had not used before. So he gave ether, with most satisfactory result. I never saw more quiet or complete
anxsthesia, and $\mathbf{I}$ am glad to say that the patient has done well but for two or three hours after the operation she had a flushed face, hot forehend, and cxcessively rapid pulse. I could scarcely count it, but it was certainly over 150 . 1 supposed that this might be due to the altered circulation following removal of the large spleen; but Dr. Scott said that Dr. Keith had remarked to him upon the occasional occurrence of very rapid pulse after his operations. As I could not remember such rapidity after methylene, I was somerriat confirmed in my dislike to ether. I lave seen it used alone, or after nitrous oxide, and I have never been quite pleased with the effects. Once Dr. Matthers Duncan and I simply examined a lady after the use of gas and ether, and for twenty-four hours afterwards sho was in a state of hysterical, almost maniacal, excitement, which would hare been alarming after any severe surgical operation; and more than once I have had to deal with troublesome bronchial irritation after the uso of ether. At Liverpool, on May 14th, I performed ovariotomy assisted ly Dr. Grimsdale and liis son, and Dr. Rawdon (who had been accustomed to the use of methylene) used the sample of Riedel's preparation which 1 had with me. At first the uction scemed rather quicker than usual, but towards the end of the operation, although it was unusually short, it was difficule to send the vapour through the tube of Junker's apparatus, and Dr. Rawdon noticed that the rapid evaporation had, led to the partial
closing of the tube by a sort of snow, or frozen vapour. This I closing of the tube by a tort ondow, or frozen rapour . The patient terit
on remarkably well after the operation, so on May 16th Dr. Day used the new methylene for a lady in London for whom-1 performed ovariotomy. This was also a very short operation, but the patient's face was flushed and her head hot for several hours afterwards, though neither pulse nor temperature was much raiscd. Oa the 22 nd I did a laparotomy at Gloncester with Mr. Edis, and Mr. Cuthbert preferred to administer chloroform, as being more accustomed to it. It answered admirably, and the patient, like the others, went on quite well. This 1 have often observed when chloroform has been given for me. The reasons igave up the use of chloroform as a rule were not only the reports of the deaths to which it had led, but my own obserra-
tion. I have only once seen a death from chloroform: that was in Paris, when Dr. Waters of Chester and I stood heside Malgaigne while he amputated at the shoulder-joint. But 1 nearly lost a patient in the Samaritan Hospital while I was removing a breast, Dr. Snow Beck giving chloroform; and twice in private practice, while Mr. Clover was giving chloroform rapour resort to bag, I have had to suspend the operation for a time, and It was these cases which led me, at first with the help of Dr. Richardson, and afterwards of Dr. Junker (who derised the admirably simple inbaler which is called after him) to use methylene as a rule, and other anesthetics only exceptionally. Ouce in Pomeramia, when about to remore an enormous oyarian tumour, none of my German colleagues would give anything but chloro-
form, to which they were accustomed. The patient was weak, and I very they were accustomed. The patient was very telligent nurse how to administer it, and she did it quite effectually and safely: I mention, this to show that any supposed difficulty in the administration of methylene by Junker's apparatus is a mistake. Since, 1872 I. hare preferred methylere .to uny other anesthetic.
In the Address on Surgery at Manchester in 1877, 1 said: "Giren properly diluted with air, the rapour of chloromethyl has, in my experience of more than ten years with more than thetic, proved without a single exception applicable to every patient, perfectly certain to produce complete anxsthesia, relieving the surgeon from all alarm or even anxiety; and its use has nerer been followed by any dangerous symptom which could be fairly attriluted to it." And I went on to say: "I wish I could speak as confidently of the chemical composition of the fluid sold as bichloride of methylene as I can of its anæsthetic properties; but whatever may be its chemical composition, whether it is or is not chloroform mised with some spirit or ether, or whether it really is bichloride of methylenc, 1 am still content with the effects of the liquid sold under that name, when properly administered. me in the opinions so expressed. Professor Tyndall told me that no chemist could make pure bichloride of methylene under ten shillings an ounce, apd that mhen made, it would not keep a week. Others said a mixture of chlornform and methylic alcohel wronld act as well, but on trial it did not; neither did the A.C.E. mixture of the Committee of the Royal Medical and Chirurgical so-
ciety; neither doas Day, gave it for me in a nace preparation of Riedel's. Last week Dr. came so cholecd with acace of amputation of a breast. Yhe tube bepantent chould noth snow, before I began, the operation that the
maconscious, and we had to chloroform, neither of uis tery willingly, as we had just heard of a patient having become so near death under chlondorm that the surgeon had to do $\begin{gathered}\text { racheotomy with a pochet-kuife before ani- }\end{gathered}$ mation could bo restored.
Surprised at the obstruction of the tube by the new preparation, I wrote to Professor Cardelchen, and he replied ou May wh as follows: "We" hare made the same observation on artiticial snon, and the obstruction of the tubes in using Riedc's thethylen-
clloride with Junker's appration the cold produced ly the ranid evaporation. ile hendent on ohjection to make to this new amesthetic substance. The thesia is effected iery slowly, and is not of long duration; and
the tbe nausea and romiting begin often before comilete anmesthesia has beem attained."
Accordingly, until some better anwasthetic is brought forward, d shall remain content rith the bichloride of methylene, made as first pronosed by Dr. Richardson. I have nerer known it to fail. andects in any one been alarmed, or even made uneasy, by its of unusual severity or duration.

## ON RARE DISEASES AND EXCEPTIONAL SYMPTOMS. <br> BY JONATHAN HUTCIIINSON, F.R.C.S., F.R.S., LL.D., Emeritus Professor of Surgery at the London Hospital. <br> (Cont :mued from page 1150, 1rol. L, 1587.) <br> NXX.-Fracture of the Temporal Bone caubed by a Blow on the Chin.

A Fooman looking on at a cricket mateh received the ball as he says "deliberately" on the tip of his chin. He was almost knocked down by the blow, but did not actually fall. He felt somewhat stunned, and immerliately afterwards recognised that he was deaf in the left ear. When he got home his fellow-servants "laughed at him becanse his face was all on one side." After this he had complete facial paralysis and almost complete deafness, but both gradually improved. When I saw him four mouths later the facial paralysis was not perceptible unless his muscles were thrown into action. He could use most of them fairly well, but could not frown on the left side of his forehead at all (occipito-frontalis), nor could he whistle, as the left half of his mouth remained flabby. IIe could close the left eye well; he could hear a watch two inches from the ear. There was nothing amiss with the membrana tympeni, and he had never had bleeding either from nose or ear.

It seemed certain that in this case there must have been a fracture of the petrous bone caused by the condyle being violently driven against it. In no other way could the simultaneous paralysis of the auditory and facial nerves be accounted for.

## XXXI.-Case of Pseudo-hypertrophy of the Muscleg of One Lower Extremity following Cedema from Venous Obstruction.

The case which follows seems worthy of record as an example of overgrowth of muscles as the result simply of retarded bloodcurrent.

A gentleman who consulted me about a skin-disease of no great moment told me that he had one weak leg, and that it was larger then the other. In this I was much interested, and at once got him to let me examine the limb. Ile had, as he lad said, on the left side a splendid calf, whilst that on the right was decidedly poor. The contrast to the eye was very marked, and it was confirmed by measurement, for the girth of the left calf was nearly $14 \frac{1}{2}$ inches, whilst the right measured less than 13 inches. There Was a difference also in the thighs, but it was not so conspicuous; There was no odema of the limb excepting a very little just where the edge of the boot touched. Over the whole calf the contour of the muscle was well marked, and I could not detect the slightest evidence of thickening of the skin or of effusion into the cellular tissue. A curious point was that the patient said that although the muscies of his left limblooked in such excellent condition, yet they were more easily tired than those of the right. If he walked far he always found his left leg tire first. There were no varicose veins in the limb until the ham was reached, where a few were present, but of no great size.

The history of the case pointed to venous obstruction by pressure, with possibly implication of the lymphatics. Mr. M. had lived in India, and whilst there, twelve monthe before I 6aw him, he went through an attack of typhoid fever. He brought to me his medical report, which described a severe illness with profuse hamorrhage from the bowels and a painful swelling in the left iliac fossa, which caused venous obstruction. The obstruction lasted some monthe, and was attended by considerable general swelling of the limb. It was when at length this swelling cleared away, that the muscles were found to be hypertrophied. In reference to the possible suggestion that it may have been that the muscles of the other limb had wasted, and thus caused a relative dieproportion, I may say that although Mr. M. was thin and out of health, he was not 80 in any extreme degree, and that the size of the larger calf was obviously out of proportion to his general build. Even if it were preferred to say that the venous obstruction aimply prevented waste rather than caused overgrowth, we should still hare an illustration of the same law.

I am well aware that instances of overgrowth from retarded blood-supply are well known, 88 , for example, in cases of elephantiasis and its ally, "one leg cedema." In all those, howerer, that I have seen, something of the nature of permanent odema was present, and the overgrowth was rather of cellular tiesue
and skin than of muscles, or, at any rate, the muscles were concealed in the general thickening. In this instance there was no thickening whatever of skin, but the muscles resembled those of pseudo-hypertrophy.
XXXII.-Tunours of the Neck, Illestrating the Law of Increasting Ratio of Growth in Proportion to Size Attained (Population increase).
1 adduce the two woodcuts here given in order to illustrate

several points in reference to the pathology of tumours. One is from a photograph given me by the late Sir W. Fergusson, and the other from a patient under the care of Mr. Edwards, of Keston. In each instance,the tumour hed been growing for upwards of a quarter of a century before it attained the encumbering dimen-

sions exhibited. In neither case had it caused any pain or other inconvenience to the patient excepting from its bulk, but in both it was at last the cause of death. Jn Sir W. Fergueson's case the patient, wearied by the distress caused by the increasing mass, at length took courage to have it removed, and came home from India for that purpose. He sank after the operation. In the
other case the tumour eventually inflamed and sloughed in parts, and caused death by exhaustion.
The cases are of interest as showing to what enormous size tumours developed in connection with the side of the face or neck may eventually attain. Presumably they were oricrinally formed orer the parotid (or, perhaps, the submaxillary), and were in part cartilaginous and in part fibo-cellular. I cannot in either give any details as to their nature or precise relations to the glands.
Some years ago, in a communication to this Jourival, 1 drew attention to the important clinical fact that the growth of tumours, innocent as well as malignant, often illustrates the law of increase of population. It is rapid in ratio with size attained, or, in other words, in ratio with the number of the cell elements. Thus a tumour whieh for many years may have grown so slowly that the patient was led to hope that it might never much incommode him, increases its rate of growth every year, and finally derelops with dangerous rapidity. This had been remarkably the fact in these two patients. The knowledge of this law may often induce us to urge the timely remoral of innoeent tumours which as yet cause no ineonrenience.

ON THE USE OF CODEINE TO RELIEVE PAIN IN ABDOMINAL DISEASE.
BE T. LAUDER BRUNTON, M.D., F.R.S.
Lecturer on Materia Medica and Therapeutics, and Assistant Physician, St. Bartholomew's Hospital.

1 HAD intended to bring the subject of this paper before the British Medical Association at its last meeting, but I was unfortunately prevented from attending, and delayed publieation of
this paper for several reasons, one of which was the desire to obtain a larger experience of the utility of the drug. The relief of pain may be classed next to the saving of life, and must perhaps sometimes be even put before it as the ehief duty of the physianalgesic, though no drug has takenthe place of opium as a general placed by the subcutaneous injeetion of morphine, the most active of the alkaloids it contains. In abdominal pain many praetitioners still have a preference for the use of opium, as compared witli that of morphine, and this rery preference is sufficient to sence of other active prineiples along with morphine inopium, and if so, to inquire which active principle it is that helps to allay pain.
Thanks to its recommendation by Dr. Pary, codeine is largely used in the treatment of cases of diabetes, but at present its use is almost confined to this disease, and it is rarely employed for other purposes, excepting perhaps that of soothing eough or irritation in the throat.
Corleine was discovered by Robiquet in 1832 , and two years afterwards its action was tested upon himself hy Gregory, ${ }^{2}$ who found that instead of eausing sleep, it rather eaused excitement, and had also a slight laxative tendency. It was applied
therapeutically hy Barbier ${ }^{3}$ in I 834 , who noticed that it seemed to have a special action upon the sympathetie system, and found that it wras of great use in lessening pain in persons presenting symptoms of irritation in the solar plexus. Sueh symptoms are pain in the epigastrium, spreading to the sides and back, and associated with a feeling of burning, anxiety, depression, more or less tenderness of the epigastrium, with sighing, lack of energy and tendency to faint. Oceasionally the pain may eause symptoms of collapse, palpitation, and romiting. In such eases Barbier gare a grain of eodeine in a tablespoontul of syrup, and repeated it if necessary in one or two hours with the best resulis. From his observations he came to the conclusion that eodelne upon that part of it whieh is in the region of the stomaeh: that it is a most nseful remedy in abdominal neuroses depending upon disordered condition of the nervous plexms in the abdomen, and

[^78]espeeially those in the gastrie region; that it does not disorder the digestion, and rather aids than interferes with the aetion of the bowels. He found also that it produced sleep with tolerable certainty, and that this sleep was never follored by heaviness in the head or stupidity, but, on the contrary, persons who had taken it felt happy, and were disposed to be cheerful on awaking. About twenty years later, in 1856. Robiquet's son undertook some observations on the aetion of the drug which his father had discovered. The results he obtained, however, did not quite aecord With those of Gregory or of Barbier, and it is possibue that the diserepancies may have been due to more or less impurity in the
drug employed. In large doses he found that it eansed an unrefreshing sleep, followed by a period of eonfusion of thoureoccasionally nausea and romiting were produced. In small doses he found it of great service in hypochondriasis, relieving nervousness, irritability, and all the diseomforts from which patients affected with this disorder are apt to suffer.

Shortly afterwards Berthe $e^{5}$ made a much more full and complete investigation of the physiologieal action of the alkaloid. Amongst other things he confimed Barbier's observation that it had a speeifie aetion upon the sympatlietic, and found that it lessened the irritability of the intestine to such anextent that a dog which had received 15 grains of arsenic along with $\frac{1}{2}$ grains of codeine exhibited neither romiting nor purging, nor any other symptom excepting drowsiness, while another dog which had receired a course of an of arsenic without the codene began to suffer in the course of an hour from serere pain, vomiting, and bloody diarrhcea,
and indeed presented well-marked symptoms of arsenical poisoning, althongh it ultimately recovered. These experiments suogested the idea to me that eodeine was likely to be of service in abdominal pain, and I proceeded to try it, with rery satisfactory results. The class of eases in which I hare used it is, I think, somewhat different from those in whieh it has previously heen reeommended, because while Barbier, Aran and others hare ehiefly employed it in gastralgia and painful disorders of the stomach, I hare used it ehiefly in pain affecting the intestine and lower part of the abdomen. The kinds of easesin whieh ] hare used it have In one case which Is examples 1 may shortly describe one ortwo. ture, intense pain in the right iliac fossa, ling, so that there could be little doubt that there was inflammation around the cecum, although examination after the acute symptoms had subsided showed that there was also pelvie cellulitis. In this case one grain of codeine, given in the form of a pill, reliesed the pain at onee, and repetition of the dose whenever the pain began to return presented its becoming at all severe.

In another case, seen with Dr. Philpot, of Crovidon, a lndy, aged 50 , had pneumonia of the right base, a grently dilated heart with rery irregular aetion pulse so rapid and weak that it could lardly be counted. and pain orer the eplgastrium and spreading out from right lateral abdominal region, which descended with felt in the hut was partly corered by intestine, and could be moved from side to side, so.that it seemed to be renal rather than hepatic. As no post-mortem examination was obtained the exact diagnosis could not be established, but the administration of codeine in half-grain doses relieved the pain, as Dr. Philpot said, "as if by magic.

In another case, seen with Dr. Pardington at Tunbridge Wells. there was pain in the abdomen depending upon a mass of impacted faces in the transverse colon. In this case codeme seemed to be interfering with the action of the bow tls. In grain doses codeine
esped relieved the pain, and the use of copious enemata, aided by washing out the stomach, cleared awar the impacted mass which had given rise to the disturbance. I have tried codeine in cases of long-continued abdominal pain for which no definite cause could be assigned, as no tumour eonld be felt, and the funetional dis-
turbance did not seem sufficient to warrant a diagnosis of malionant lisease. I hare tried it in eameer of the liver and pancres with success in relieving pain, and also in numerous eases where the age of the patient, the presence of diarrhea, tenderness on pressure, and visible peristaltic movements, and thiekening of the bant disease in the ple on palpation, led to the diagnosis of maligmortem examination prevented the confirmation of the diagnosis. In suell cases I generally begin with half a grain, in the form of a pill made up with extract of gentian, three times a dar; and if this

+ Redquet, Gaz des Uöpo, $1200,3 x i x, 517$.
Berthè, Honiteur des Höp., 1 156 , iv, 593, en1, 502, 1052.
is insufficient to control the pain I increase the dose to a grain, and give it as frequently as seems necessary. As a rule, $I$ find that it does not produce drowsiness, nor has it interfered with the digestive functions.
To sum up, the results I hare obtained from the administration of codeine have satisfied me that it has $\Omega$ powerful action in allaying abdominal pain, and it can be pushed to a much greater extent than morphine without causing drowsiness or interfering with the respiration or with the action of the bowels. It is, therefore, specially indieated in such a case as Dr. Philpot's, which 1 have already mentioned, where the dilated beart and consolidated lung tended to make one afraid of morphine. Codeine is also specially indicated in a case like Dr. Pardington's. where one wished to relieve the pain without interfering with the action of the bowels. Un the other hand, in cases where there has been much diarrheea, as in some cases of malignant disease of the colon or rectum, the absence of any tendency to lessen peristaltic movement is rather a disadrantage to codeine as compared with morphine or opium.
1 have found that in cases of long-continued enteralgia without organic disease, it has continued to relieve pain for months together, without the dose being increased beyond one grain three times a day, and I found the same to be the case where the presence of a tumour, in addition to other symptoms, had led to the diagnoses of malignant disease.
It is interesting to follow the vicissitudes of a drug, and to notice how its use extends or diminishes until at last it finds its right place and maintains it. Thus digitalis, while mentioned in the London Pharmacopcia of 1721, was excluded from that of 1746. It again appeared in 1788, and since then it has held its place.
Possibly codeine, after falling into almost complete disuse as an analgesic for many years may again regain a more or less important place amongst the remedies which enable us to relieve pain.


## ON THE TREATMENT OF TUBERCULAR LEPROSY BY EXCISION.

## By beaven Rake, M.d.Lond.,

Medical Superintendent of the Leper Asylum, Trinidad.
Moders pathology tends to show that leprosy is a parasitic disease. However that may be, 1 have for some time been of opinion that a good deal may be done in the way of local palliative treatment by excision of tubercles. IIaving lately bad an opportunity of testing the truth of my conviction, 1 will first Lriefly descrive two cases, and afterwards make a few remarks.
Cask I.-J. J., aged 14, a negress born in Trinidad, was admitted to the Leper Asylum on November 5th, 1884, with one year's listory. She was a well-developed, healthy-looking girl. The forearms, hands, and fingers were covered with large tuberculated masses, and there were similar isolated masses on the forehead, cheeks, nose, and chin. As she wished to have something done to imprave her appearance, 1 determined to try the effect of free excision.
On January 1st, 188.5 , she was put under chloroform, and tubercles were ligatured and excised from the alre nasi and above the eyebrows.
On January 2ind more tubercles were removed from the end and side of the nosc.
On January 29th a large mass of tubercles albut two inches long was removed from the chin without chloroform, as she took the anæsthotic yery badly:
On February This she was given clloroform, and a flat mass of tubercle nbout an iuch and a half square and half an inch in height was remored from the right clitek; the cdges of the wound were rubbed over with strong nitric acid.
On March th about two square inches were removed from the left cheek without chloroform. The edges of the wound were trimmed with scissors so as to bring them level with the surrounding skin. She made but little complaint of pain.
On March 31 st some small tubercles, which had sprouted from the alm nasi since the operation of January 1st, were removed. A slight recurrence at the upper margin of the cicatrix on the right cheek was also removed with scissors, also a tubercle about threecighths of an inch in diameter from the bridge of the nose.
On April 14th the following was the condition of the cicatrices: Right cheek: cicatrix $2 \times 1 \frac{1}{2}$ in.; small scab in centre; amall
patches of tubercle at lower and iuner margin. Left cheek: cicatrix $2 \frac{1}{1} \times 2$ in. ; small scab remaining; a few small islands of tubercular tissue scattered about in cicatrix. Over right eyebrow: cicatrix $1 \frac{1}{3} \times 1$ in.; small growth of tubercles at upper and inner margins. Over left eyelirew: cicatrix $\frac{4}{4}$ in. diameter; growth at edges. Chin: crescentic patch $2 \times 1 \frac{1}{4}$ in.; lower part occupied by cicatrix, upper part by rather exuberant tubercles encroaching on the lip. Right side of nose : cicatrix $1 \times \frac{1}{2}$ in, ; growth of small tubercles all down outer side. Left side of nose: triangular patch; cicatrix in centre; tubercles at edges. There was a recurrence of small tubercles round the nostrils and tip of the nose, at the edges of the cicatrices. There were a ferv untouched tubercles on the forehead and over the glabella.
On April 23 ril a small tubercle was removed from the lower lip.

On September 29th the tubercles over the eyebrows and nose were found to be sprouting more, and at her own request the tubeccle over the right eyebrow was further removed on October


6th. A superficial incision was made all reund at the junction of healthy with infiltrated skin. The tubercle was then lifted up and snipped off with scissors. Strong glacial carbolic acid was rubbed over, and then tannin powder sprinkled over so as to form a crust. No cliloroform was given, and she made no complaint of pain.


The more thorough canterisation on this occasion was suggested by the recurrence of small tubercles on the margins of the old cicatrices. This recurrence appeared to be due to escape of some of the tuberculons tissuc, and it was hoped, by freer excision, and cauterisation with such a powerful' bactericide as glacial carbolic acid, to prevent lateral extension. It will be seen that this method was more fully carried out in the next case.
Magenta showed swarms of the bacillus leprex in the excised tuberclea. She was put on four minims of liquor arsenicalis three
times a day on January 26th, and this was increased to six minims on March 31st.

The accompanying woodcuts are from photographs taken before and after operation. It must be noted that some tubercles had been already removed from ahove the eyebrows, and from the ${ }_{2}$ lie nasi before the first photograph was taken, but this does not materially affect the comparison.

Case Ir.- R . G., aged 12, negro, born in Venezuela, was admitted to the Leper Asylum on September I6th, 1881, with a three

years' history. Large tuberculated masses involved the trunk and extremities, but these were especially exuberant on the face and ears, producing a degree of disfigurement which 1 hare never yet seen equalled in tubercular leprosy. On April 11 th, 1885 , he was given chloroform, which be took remarkably well. A large mass of tubercles, about 3 by 2 inches, was excised from the forehead. There was a good deal of hemorrhage. The raw surface was treated as above described, with carbolic acid and tannin. This method was adopted in all subsequent operations. The cicatrix was complete by April 25 th.


On April 18th numerous tuhercles were excised from the left cheek, over an area of about four square inches.

On April 25 th more tubercles were removed from the left cheek, over an area of about two square inches, also from the left side of the chin.
On May 5th, about one onnce of tubercles was removed from the right ear and ale nasi.
On May 12 th tubercles were remored with scissors from the left ear, also from the right side of the chin and lips, also a few from the bridge of the nose.

On May 28th nearly all the scabs had fallen, and his appearance was so much ehanged that he was not recognisable.
The areas of cicatricial tissue were roughly calculated as follows: Forehead: $3 \times 1 \frac{1}{2}$ in. Each cheek: $4 \times 3 \frac{1}{3} \mathrm{in}$. Chin: $2 \frac{2}{2} \times 2 \frac{1}{2} \mathrm{in}$. Each ear: $2 \times \frac{1}{2} \mathrm{in}$. Total area about 27 square inches.
Most of the tubercles were preserred in spirit and weighed, and their total weight was calculated at about four onnces.

On June 20th be was found to hare an attack of yaws, which, bowever, har passed by September 2ond.

On December 4th it was noted that there was practically no return of tubercles in the ears. There were firm, smooth cicatrices on the face. Thase pieces of tubercle which had escaped remoral by knife or scissors had grown a little, but not more than ${ }^{2}=$ to $\frac{d}{4}$ inch; where the knife or scissors bad gone more deeply there was no return. On the alre of the nose the tubercles had grown rather more-abont $\frac{1}{2}$ inch-but here it was not practicable to remove them without more or less destroying the nose. Over the forehead and eyebrows the tubercles were stationary.

In this case, also, magenta showed swarms of bacilli in the excised tubercles. On April 21 st he was ordered four minims of liquor arsenicalis three times a day, but there was some difficulty in getting him to take the medicine regularly.

The accompanying illustrations, showing the face before and after operation, will serve to give some idea of the relief afforded.

1 bare at present in the asylum two milder cases which are undergoing similar treatment. Though the result can be at th. best but palliative, it seems wortlyy of consideration in such it disfiguring disease as tubercular leprosy. It may be objected that this treatment is practically the same as that pursued by the late Dr. Beauperthay. An all-important distinction lies in the use of the knife or scissors-a detail which I beliere was not adopted by him. Free excision combined with caustics gives a more rapid. clean, and effectual cicatrix than the use of caustics alone. Assuming, as a working hypothesis, that leprosy is a parasitic disease, it is hoped that the use of two powerful germicides-one, arsenic, internally; the other, strong carbolic acid, externallymay kill, at any rate, some of the bacilh, and thus hinder if not prevent recurrence. In point of fact, on examining tubercles after the use of arsenic, 1 found in some cases ferwer bacilli, but this may have been a mere error of experiment, and of course a large number of comparative observations will be necessary. The tannin powder is used with the idea of forming crusts to protect the granulating surfaces and so prolonging the local action of the carbolic acid.

Another important effect of this treatment is to lessen the amount of ulceration. Tuberculated tissue ulcerates much more readily than sound skin, and thus often works its own cure to a certain extent. This was very marked in the second case. Defore operation the large masses on the ears were constantly raw and ulcerated. After operation a small firm cicatrix formed, and one could scarcely recognise the site of the former tubercles.

## A SECOND SUCCESSFUL CASE OF EXTRACTION OF GLASS FROM AN EYE,

after a lodgment of seven tears and a day<br>By T. II. BICKERTON, M.R.C.S., Oculist, Liverpool Royal Infirmary.

In the Jouranal for April 28 th 1 recorded the case of a gentleman, from whose left eye a piece of glass, which had lodged there for a little more than ten years, was successfully extracted, and it is curious that, within a few weeks, another similar case should have come under my care. The history given to me by the patient is as follows.
W. C., aged 33, received at midnight on January 12th, 1881, a severe wound of the right eye, owing to the bursting of the glass water gauge of a boiler, and was, in consequence, admitted into hospital. About three months later the eye was "needled." and the patient eventually returned bome, with fair vision ( $\mathrm{C}+3^{\prime}$ ${ }_{38} 8, \mathrm{C}+2 \frac{1}{5} 8$ ), and with all inflammation gone. In 1883 the eye was hit with a piece of rope; it inflamed, was very irritable, and watered much, and opinions were divided as to the necessity of its remoral. Eventually sedative treatment was selected, and after some months the eye again settled down. In Jay, 1885 . inflammation recurred, this time without apparent cause, and it disappeared in about a fortnight. In the autum of 1885 the eye again received a trifling knock, the inflammation being again allayed by hospital treatment, and after a short time he was able to return to work. In the beginning of Jnly, 1887, the ey: was slightly flicked with a piece of bagging. A fortnight later, the irritation not subsiding, an adhesion between the iris and the cornea Tas successfully divided (September 17th, I887), and after
nine days he left hospital. On October 3rd, 1887, he started work, and whilst bending down to lift a sack, he was struck by a lightning shock of pain, which, starting at the supra-orbital notch, passed along the right side of the head as far as the occiput, and this acute pain occurred almost every time he bent his head down, and often on ruoving it from side to side. He theretore did his work holding the head in the erect posture, but in spite of this the pain now and again attacked him, and the eye becoming greatly irritable, he was again compelled to seek hospital treatment. This time a large iridectomy was performed upwards (October 15th, 1887), but the redness and irritability not subsiding, and the pain continuing, the removal of the eye was determined on. In this decision the patient acquiesced, but his employer objecting, he now came under my notice, November 8 th, $188 \mathbf{7}^{\circ}$. The right eye was very red, irritable, and watering much on exposure to light; $V \mathrm{C}+12 \mathrm{D}_{205}^{20^{2}}: \mathrm{C}+14 \mathrm{D}$ a few words of Jat. Just helow the centre of the corner there was a small cicatrix, and it was easy to see that an adhesion to the iris had existed here. A large upward iridectomy pupilhary space was occupied by capsular remains. The iris was attached tirmly to these remains below and on the outer side, but it was free on the inner side. By means of careful oblique


## Line of Incisiou | Glass, actual Size. I Glass in Situ.

illuminacion, and when the eyo was turned in certain directions, there could be seen lying in the anterior chamber, in the sinus between the cornea and iris, and not imbedded in the latter, a piece of glass, which appeared to be quite a quarter of an inch long, and was of considerable breadth. The position of the glass was not quite horizontal, its inner end being slightly tilted upwards. The treatment adopted was rest, in the hope that the eye might again settle down, and ullow the extraction to be performed under the best possible conditions.

The redness and irritability did slowly subside until Janmary 11th, 1808, but on that morning the patient awoke with much pain in the eye, and, as an examination of it showed that the glass liacl moved, its inner end being still more tilted up, and that the rascularity of the eye had greatly increased, further delay was considered inadvisable. Therefore, on January 13th, 1888, the eye laving been put thoroughly under the influence of cocaine, the methorl of operation which had been practised in the former case was again resorted to. An oblique corneal incision was made by puncture and counter-puncture with a Graefe's knife across the front of the cornea, at the junction of the lower third with the upper two thirds. A curette was introduced between the lips of the wound, and passed on in front of the iris, to a position behind the glass, in order to fix it, and a fine pair of forceps being now put in, the glass was seized at the fourth attempt, and removed entire.
By the next day the anterior chamber had re-formed, there was no iritic adhesion, and the eye was absolutely free from pain. Recovery was uninterrupted, and on February 10th the patient was able to return to his work with the eye in a perfectly quiet condition, and up to the present day (May 18th) the eye has remained absolutely free from all pain and irritation. The weight of the glass, kindly taken by Mr. Rawson, l'rofessor Campbell Brown's assistant, was . 01331 grammes; its dimensions, taken by Mlr. Chattuck, l'rofessor Oliver Loulge's assistant, were, greatest length 6.4 millimètres; groatest breadth, 2.7 millimètres, and it may be mentioned that the actual breadth was much greater than had been expected from the appearance which the glass presented when in the eye.

## THOMAS'S OPERATION FOR REMOVAL OF BENIGN TUMOUR OF THE FEMALE BREAST.

By ALEXANDER JAMIESON, M.A., M.D., M.R.C.l', Consulting surgeon to the Imperial Maritime Customs in China, Stanghal.

THE recognised risk of adenomata of the female breast developing into recurrent fibro-cystomata has always prompted me to urge early extirpation of these tumours, and most surgeons follow, I imagine, the same practice. A seriously deformed breast is, how-
erer, in the estimation of the majority of young women, a disproportionate price to pay for the avoidance of a danger which at worst is ouly probable. Therefore when in $1882^{\circ}$ Dr. Gaillard Thomas, of New York, brought forward an operation for the removal of benign mammary tumours without visible mutilation, 1 felt confident that the new method would be extensively tried. Whether this has been the case or not I cannot say. It is at least certain that ferr cases, if any, hare been reported in European journals. The ratio of benign tumours of the breast to malignant is everywhere small; and in semi-civilised countries it is smaller than in Europe and America, for the simple reason that in such countries a tumour in any locality and in either sex is invariably disregarded until by its size, by the pain it excites, or by its fotor, it renders life intolerable to the patient or his neighbours. Accordingly, putting together four cases operated on by me since the publication of Dr. Thomas's paper, and one by Dr. Boone, my colleague at St. Luke's Hospital for Chinese, out of the five two were Luropean women, one an American, one a half-caste living under foreign conditions, and only one was pure Chinese.


The operation is begun loy an incision oxactly following the fold between the skin of the thorax and that covering the breast in its lower semi-circumference. The length and precise positiou of the incision depend on the size and situation of the growth, but at all events when the breast is allowed to fall, the line followed by the knife must be invisible, except perhaps at one or other extremity. On reaching the muscles the gland is lissected from the chest sufficiently to enable it to be turned upwards, exposing its posterior surface. This is incised along a radidl line over the tumour, and the latter removed. The gland is then replaced, its cutaneous surface remaining completely uninjured. In all the five cases to which 1 have referred, healing was immediate under antiseptic dressing.

The accompanying woodcut from a photograph taken two months after operation well represents what, so far, has been the invariable result. In this instance the patient was an American,
aged 26, who had received a blow on the left breast five years before. A tumour the size of a small orange had formed in the substance of the gland midway between the nipple and the axillary periphery, taking about six months for its development. It varied in size under excitement and menstruation, but was never smaller than as described above. It gave rise to serere spontaneous pain and was extremely sensitive to pressure. With its removal all these symptoms disappeared. Histologically it was a tubular adenoma with no cyst formation.

## ON CATGUT SUTURES IN THE OPERATION FOR RUPTURED PERINEUM.

By G. ERNFST HERMAY, M.B.LoND., F.R.C.P., Obstetric Physician to the London Hospital, etc.
Durivg the last few years I have done the operation for ruptured perineum in a manner somewhat different from that usually described. The method I now follow depends essentially upon the use of fine catgut for the sutures. I describe the operation as in a case of complete rupture through the rectal sphincter. 1 make the raw, surface by splitting the recto-raginal septum. ${ }^{1}$ The raw'surface so produced may be described as forming two triangles, a right and a left (CD E and GHE), the base of each (CD and $G$ II) being the skin of the perineum, the sides being formed by the mucous membrane of the rectum and that of the vagina, the apices being truncated and meeting in the middle line. A line


Drawn by Dr. W, Ambibbè Kibbiler (diagrammatic).
(A B) may be imagined drawn throngh the middle of each triangle, so as to bisect its base : this line I shall mean when I speak of the middle of the raw surface. The first suture is entered at the junction of rectal mucous membrane and raw surface, close to the apex of the triangle, and brought out in the middle of the raw surface; enteren again at the middle of the raw surface on the opposite side, and brought out as close as possible to the fors ano, from my colleague, Mr. W sren Tsy.
of raw surface and rectal mucous membrane. This suture is then tied, and the ends held out of the way with forceps. (The diagram shows the first suture passed, but not tied, and the second suture being put in. This is for the sake of pictorial clearness, hut it is better to tio each suture before putting in the next. and it is convenient at this stage not to cut off the ends, because by them the parts can be pulled upon if it be wished.) The second suture is put in at the junction of vacinal mucous mombrane and raw surface, brought out at the middle of the raw surface, a little nearer the base of the triangle than the first suture. entered at a corresponding point in the middle of the rawr surface on the opposite side, and brought out as close as possible to the junction of Theinal mucous membrane and raw surface; this is then tied. The third suture is entered at the junction of rectal mucous membrane and raw surface, still nearer the base of the triangle, and 80 on, sutnres heing entered alternately from the rectal and razinal aspect until the two triangles of ratr surface have been com-
pletely brow petely brought into apposition. When all except a strip of raw
surface parallel with the surface parallel with the base of each triangle (CD, G H) has been
brought together, the apposition of brought together, the apposition of the bases is completed by
transverse sutures, through the skin of the perineum. It is well not to tie the last pair of sutures (vaginal and rectal) until these transverse stitches have been put in. When the stitching is complete, the ends of all the sutures are cut short. The rectum is washed out twice a day for the next fortnight. The stitches are not removed. At the end of a fortnight usually all trace of them has disappeared.
For the majority of cases of complete perineal rupture, this mode of stitching, with fine catgnt alone, is quite enough. But in some cases the laceration has been in the beginning attended with sloughing, and then there may be much cicatricial tissue cannot be approximated without much strain on the stitches. In
che that case it is well, before sewing up with catgut, to pass a single deep stitch of silkwormigut through the recto-vaginal septum in the usual way, so that this may relieve the strain on the fine catgut.
The chief adrantage of this method of operating is that no sutures have to be removed; and in the bad cases last described. only one suture. The removal of wire sutures, and even of silkworm gut, causes a good deal of pain to the patient. By the use of a large number of stitches there is a larger surface brought into contact, there is less strain on each stitch, and little, if any, suppuration in the suture traeks. The perineum produced is thicker and larger than that which results from the puckering effect of
the ordinary method of suture The onlv dis the ordnary method of suture. The only disadrantage of this A continuous catgut suture has been recommender formance. rupture of the perineum: and it might also be used for the secondary operation. But it has this disadvantage, that if the catgut breaks, then the whole suturing has to be done orer again; or if the knot slip, then the whole gets loose. With an interrupted suture as here described, if one stitch break, it is only that stitch which ueeds replacement; and if one or two knots should slip, the others hold the parts together, and it makes little difference.
For a rupture which does not go through the sphincter, only one set of stitches is required. Here the advantage of catgut is decided, for, the operation once done, all the after-treatment wanted is to keep the parts clean: no sutures have to be removed.

## OBSTETRIC NEMORANDA.

## ABORTION IN DOUBLE LTERU'S.

Cases of double uteras are comparatively rare, but it is very prokable that many of them are overlooked. The following is a brief record of a case which came under my observation lately, and which presents several points of interest.
Mrs. E., aged 28, consulted me on February 27th last, on account of severe metrorrhagia and pain in the lower part of the abdomen. Menstruation, which commenced at 14, was regul r and painless until Christmas, 1887. At that time she had been married for four monthe and, although there had been no cessation of menstruation, she fancied. from a feeling of weight in the pelris and a slight increase in size, that she was pregnant. On December 26 th she was attacked with severe pelvic pain and
flooding. She atates that amongst the clots expelled there was a large firmer body, and that soon after this came away the flooding censed. Six weeks later menorrhagia and pain returned, and continued until the day before I saw her.
Dr. Cullingworth very kindly examined the patient with ma, and together we made out the following points. Ostium vagines wide, admitting two fingers. Vagina normal in lower part; at upper third a loose fleshy septum Was found, dividing the upper part of the ragiua into two equal lateral portions. Each compartment contained a cervix, resembling the normal nulliparous cervix, each os exterumm being closed. The bimanual examination was unsatisfactory on account of the tension of the abdominal muscles. Two uterine sounds wete introduced, one into each ccrrix. In the first part of their course they ran parallcl, but were separated by a aeptum; higher up they diverged, each tip running outwards from the middle line. No enlargement of either uterine cavity was made out. With the sounds still in position the abdomen was now examined, and two distinct uterine fundi were felt, separated bs an interval of about two inches, the tip of each sound being plainly felt through the abdominal wall. Per rectum, the lower part of the uterus could be felt, but the point of divergence could not be made out.

It was thought advisable, before proceeding to more active treatment, to try the effect of rest for a few days, and accordingly the patient was ordered to remain in bed, and the pain was relieved by opiates. On March ind the hæmorrhage returned, and she expelled a solid substance about two inches long and one inch broad, which, on examination, proved to be a piece of placenta. After this her recovery was rapid; the discharge ceased, all pain disappeared, and a fortnight later ahe was going ahout as
usual.
REMARKS.-The malformation in this case was that known as uterus duplex bicornis. An important point is the fact that the vagina was double at its upper part but single below. In the majority of cases of uterus duplex bicornis the septum extends the whole length of the vagina, so that there are two external orifices. ${ }^{1}$ It is not difficult to understand how the abnormality ahould have been unsuspected both by the patient and by her husband: even on vaginal examination the case was one which might have passed as normal, for the septum was so lax that it was easily flattened against either side of the ragina, and in this way one cervir was covered up and concealed. A very similar case is described by Lumpe, ${ }^{2}$ who helieved that the lorer similar the septum had been detached by coitus. The cause of the hamorrhage was not quite clear at first, but, from the histary, it seemed probable that it was due to oome retained products of conception, and this view was confirmed later when the portion of placenta came away. At the time of examination, however, there was no hæmorrhage, both uterine orifices were closed, and there was no appreciable difference in the size of the two uterine carities. The continuance of menstruation during pregnancy in a double or partially double uterus is uncommon; it is noted only in two out of serenty cases collected by Kussmaul. From the patient's description of the expelled ovum I believe the abortion occurred at the third month. Statistics tend to show that abortion is not more likely to occur in a donble uterus that in a normal one, but I am inclined to think that the abnormality in this case was alone the cause of the abortion, as I was unabie to assign any other reason why it should hare occurred. Possibly thr continuance of menstruation may have had something to do with it.

Archibald Donaid, M.A., M.D.,
Surgean to St. Mary's Ifospital, Manchester.

## OBSTRECTION DURLNG LABOUR FROM MALFORMATION

 OF VAGINA.Os. February 9th J was called to attend a primipara, aged 24. She liad been ten hours in labour. The os was fully dilated; the head bresenting, and found to be prevented from descending ly a broad With of tissue stretching antero-posteriorly across the ragima. With each pain this band became taut, and cneircled the head, arresting its progress. Its exact relations could not now le ascertained. After waiting some hours delivery was effected with difficulty hy forceps, without any tearing of the tiasues.
On careful examination of the parts ten daysafter delivery, I found that the vagina was louble. being divided into two compartments by a septum, attached in the middle line along the

[^79]anterior and posterior walls of the vagina, and extending from the cervix uteri to about an incli from the vaginal orifice. At ita cervical end the septum was attached in front of and behind the cervix, hut was free opposite the os, forming a crescent in which the cervix lodged. It was possible to pass the finger from one side of the vagina to the other through this opening. This septum ras ao stretched and displaced during lahour as to appear as the fleshy band above described. The child was small, otherwise division of the septum would probably hare been necessary. The uterus was apparently normal. The patient was not aware that ahe was in any way malformed.
This case may with advantage be compared with that deacribed by Dr. Fleischmann, in the Prager Medicinische Wochenschrift, and quoted in the Journal of March loth.

Grays, Essex. Merbert C. Male, M.D., M.R.C.S.

## THERAPEUTIC MEMORANDA.

## TREATMENT OF ECZEMA.

During the last two years I hare been treating all cases of eczema Which have come under my care, whether acute or chronic, in the following way:
The part or parts affected with eczema are first bathed with warm water, so as to clear the surface. A soft cloth is then lightly placed over the aurface thus bathed, in order to dry it, and then the following ointment is smeared over the part thus prepared : IV Zinci oxidi, $\overline{3} j$; bismuthi subnitratis, $\bar{z} j$; vaseline, q.s.
This method of treatment has been especially useful in cases of eczema of the head and behind the ears, which is so often met with in children.
While other cases of eczema have been observed which have been treated by other means, I have in no instance seen resulta better than those obtained by the abore-mentioned method of treatment: while, on the other hand, I have seen casea which have resisted other methods of treatment yield to this.

$$
\begin{aligned}
& \text { Francis Hawkins, M.B., C. } 1 .
\end{aligned}
$$

Henrietta Street, Cavendish Square, W.
ANTIPIRIN IN CEREBRO-SPINAL MENINGITIS.
THE list of maladies for which antipyrin has been recommended is already long, but I have one to add to it. It is of the greatest possible value in epidemic cerebro-spinal meningitis. Its auccess in this disease depends less on its property of reducing temperature than on its power of quelling those "nerve atorms" which are one of the princim? causes of death in this disease.
Its value is all the greater in that it is not, as in the case of other diseases, naly a mere nddition to the armament of the physician, but that it is practically the only medicine which is a real "remedy" against the disease.

Opium, ergot and belladonna, bromides, and aconite all do good service in allaying the terrible pains, and perhaps in favourably influencing the course of the disease, but they have no power of warding off impending death, while antipyrin 1 hare found to fulfil all three indications. The necessary doses rary aomewhat, but forty-fire grains in three doses distributed over the evening and night is the roost usually successful quantity. I have not yet had an opportunity of trying it in idiopathic, traumatic, or tubercular inflammations of the meninges, but the pathological conditions, apart from the causation and the symptoms, are so allied in character with those of cerebro-spinal fever that I would suggest a trial and expect it to yield reaults at leaat as favourable as those of the remedies already in rogue.

Guy N. Stepiten; M.R.C.s.,
Nicosia.
Cyprus Medical Serrice.

## SURGICAL MEMORANDA.

## NATURE'S SURGERY.

Surgenn-Major Mark Rominson, I.M.S., has forwarded to us the account of a curious deformity observed in a prisoner at the gaol, Thyetmyo, Burmah.
The man is 65 years of age, named Nape; he was lately admitted into grol for dacoity. He is a leader of dacoits, and has been concerned in a hundred dacoities or more, the distortion of his left arm giving him great valuc in the eyes of these men. They be-
ieve that such things render a man bullet-proof, and therefore a esirable leader.


The man states that up to fifteen years ago the left arm was as good as his right; that then an abscess formed at his elbow from, he says, no particular cause ; the abscess hurst, and a large wound was formed. Through this wound all the bones of the arm came

awry, one whole, but he was not clear which. At the present time there is not a vestige of the humerus, ulas, or radius to be felt in the arm. The liand is quite useless; the anly movement that he can give the liml is by the motion of the scapula, which mores freely.

## TUMOUR OF THE BLADDER RECURRING AFTER REMOYAL BY SUPRAIUBIC CYSTOTOMY. <br> In the Journal. (October 16th, 1886) I published an account of a

 case of multiple papillomata of the bladder, remored the previous May by suprapubic cystotomy ; in the last note, four months after operation, the patient's condition was deseribed as very favourable, as he was then free from bladder symptoms, with the exception that slight traces of blood occasionally appeared in the urine, especially affer any active exercise.The subsequent history of the case is morthy of,record. The following December blood was from time to time present in the urine in considerable quantity. In January, 188 , mifficulty; the began to be painful, and attended by considerare marked, until at symptoms of obstruction gratention of urine was produced. On length almost complete retention of February 5th, after straic cicatrix, which hitherto had been firmly water, the suprapubic cicark, fistulous opening formed, through closed, suddeny gave way an exit. Four days later he was readwhich the urine found an an extremely exhausted state, all the mitted into the hospital urine escaping by a supraptruded. Death took place on the fourth masses of growission from suppression of urine and anrmia.
At the necropss the bladder was found full of soft villous
growth, of considerable size, springing from the hase, lower part of the anterior and posterior, and both lateral walls. The summit was free, except that here and there several small tufts the size of peas were scattered over it. Both kidneys were in a condition of hydronephrosis, and the ureters were dilated. The lower portion of the sacrum was infiltrated whe, but sufficiently soft to be greyish-red colour, of firm cone was no connection between it and readily cut with a knife; there was no connecte free from any dethe bladder, the intervening body were healthy.
posit. The other parts of the body were the recurrent tumours (sections
f which have been kindly made for me by my friend, Dr. Railton)
showed them to be papillomata apparently taking on sarcomatous action, for the fibrous stroma of their deeper parts was extensively
infiltrated with groups of small round cells; the deposit in the
sacrum consisted of a similar small, round-celled growth infiltra-
ting and causing destruction of the osseous tissue.
The case is interesting for several reasons.

1. It shows that papillomata, when sessile and multiple, as the primary growths were, are apt to rapidly recur.
2. It illustrates the fact that the recurrent tumours, under these circumstances, may take on malignant (sarcomatous) action, and be accompanied by secondary deposits in other parts.
3. The reopening of the suprapubic round, after it had been firmly healed for a period of eight months, in consequence of the recurrent tumours blocking the resical orifice of the urethra, and nterfering with the escape of the urine, is, I beliere, unique.

## Manchester.

F. A. Southan, M.B.Oxon., F.R.C.S.

## CASE OF PUNCTURED TOUND OF THE PERITONEUM,' WITH

PROTRUSION OF THE INTESTINE: RECOVERT AFTER OPERATION.
AETER OPERAT 3Ist, 1886, A. M., aged 3
Shorthy after midne drawing-room window at a dancing party years, fell through iron railing, eausing a piece of small intestine. on the spike of a clenched fist, to protrude. The spike entered about two inches abore the middle of Poupart's ligament on the right side.

Whilst the boy was being chloraformed I cavered the intestine with a large piece of lint, squeezed out of hot water, to protect it from dust and retain natural warmth. Reductieu by gentle taxis being impossible, I enlarged the opening about haly an inch, and then cautiously returned the wowe inserted through within the abdominal cavity. One suture was, and four superthe deep structures, including clear fluid escaped from the ahficial ones then applied. some little hremorrhage occurred. The dominal cavity, The boy was then carricd to bed, and a pillow placed under his knees to keep the thighs flexed on the abdomen. Nothing but Water and small doses of liq. opi allowed during the ensuing after which liquid food only was accident the wound had almost
week. On the third day after the accion week. On the third day attery union, so that I removed the superficial sutures and dressed the round with strips of strong rubber plaster to prevent risk of the edges gaping. The deep suture did not come amay until the tenth day. The intestine was exposed and constricted for nearly two hours.
The boy made a complete recovery, his temperature at no time rising higher than $100.4^{\circ} \mathrm{F}$., so that on the seventeenth day after
the accident he was able to morc about with a pad orer the seat
of injury, and without the slightest teadency to hernia.
f injury, and rithout the slightest tendency to hernia.
No antiseptic preçutions other than cxtreme care and clean
ness were possible, as 1 was obliged to operate in the drawingroom ahont 2 A.m. He is now, more than a yoar and a half after the accident, strong and healthy, without any tendency to ventral hernia. Thomas Donnelly, M.D., F.R.C.S.I.,
Assistant Physician to the Whitworth and Hardwicke Hospital, Medical Officer to N゙o. 1 East Dispensary District.
Dublin.
REPORTS
or

## HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

ST. MARY'S HOSDJTAL.<br>cases of ear disease.

(Under the care of Mr. Field.)
Case i.-Suppurative Meningitis Caused by a Bead in the Ear. - Mary C., aged 3 years, came under Mr. Field's care on February 0 th, 1888 , for purulent discharge from the right ear, into the middle meatus of which, owing to attempts at removal from the external meatus, a round blite bead had been thrust some five weeks previously. The patient had already for some time been in a highly feverish condition.

Mr. Field passed a fine hook into the hole of the bead, and so was able, though with difficulty, to extract it. The otorrhoea, which by the time of the operation had become slight, on the following day ceased. There was then some tenderness, but no redness or cedema, over the mastoid process; the temperature ranged from $98.5^{\circ}$ to $101^{\circ} \mathrm{F}$., and the pulse from 140 to 160 . Great restlessnesz, intractable romiting, and constant screaming superrened on the evening of the 10 th, and persisted till the 14 th.

On the 11th the bowels were opened by castor-oil. The morning temperature was $103.8^{\circ}$, the evening $98^{\circ}$. Slight retraction of the head was now observable. With increase of this last symptom there was next day distinct tache cérebrale; rétraction of the abdominal wall was, however, absent. By Politzerisation air, but not, pus, could be forced through the rent membrana. The supra-mastoid region was still somewhat tender, though normal in appearance. Three leeches were applied behind the ear, and a grain of calomel was giren.

On the lith coma set in, the pupils beginning to dilate and hecoming insensible to light, but there was no optic neuritis. The temperature, $101^{\circ}$ in the morning, rose to $103^{\circ}$ at night. Another leech was applied. During the two following days the coma grew profounder, but the retraction of the head and the tache cérebrale were less distinct.

On the 16 th, ns the existence of a localised collection of pus in or about the cerebellum appeared probable, a small aperture was trephined, after consultation with Mr. Page, Mr. Pepper, and Dr. 1 lhillips, who were in hospital, in the syuamous portion of the temporal bone, three-quarters of an inch above and behind the right mastoid foramen.' The dura mater, which bugged considerably into the aperture, was punctured, and a directorinserted into the brain substance. with the effect of setting free, not pus, but i large quantity of cerebro-spinal fluid, presimably from the lateral zentricle. The temperature and pulse now improved for a time. The occipital bone was next trephined below the level of the right lateral sinus, and two inches behind the external auditory meatus. No pus, however, was obtained by the use of a director. The patient survived the operation only about six hours, dying comatose.
Pust-mortem examination of the brain and membranes revealed fittening of the convolutions and partial abliteration of the sulci of the convexity. There was much greenish puro-lymph in the utwhes of the pia mater, in largest amount over the right tem-iom-sphenoidal lobe, and the convolutions bounding the posterior 1 mb of the fissure of Sylvins, and at the base, chiefly about the anterior extremity of the fissure. It was in considerable quantity over the parts corresponding to the floor of the third ventricle, and over the pons, and the under surface of the cerebellum, and to a ss extent. over the medulla. The hrain substance in general was sticky, and its ressels were engorged. The ventricles were dilated with turbld cerebro-spinal fluid. No focus of suppuration could bo found in the brain, nor was there any discoloration or per-
ceptible "abuormality of the dura mater covering the roof of the tympanum. The right seventh nerve was, however, soft and pulpy where it emerged from the internal auditory meatus, also the right tympanic membrane had disappeared, and themiddlo ear was full of pus.

The moral of such histories as the above cannot be too often enforced. Instead of conveying the child at once to a hospital for treatment by one accustomed to deal with aural affections, the mother, first with a lairpin, and four doctors subsequently with all sorts and conditions of forceps, made frantic and ineffectual efforts to remove the errant bead, and succeeded only in pushing it through the tympanic membrane, and fatal meningitis was set up. Nearly all the deaths that have been occasioned by foreign bodies in the ear might have been avoided by the adoption of proper modes of treatment. In the particular case just related, the use of a syringe and warm water would probably have sufficed in the first instance. Had there been swelling in the meatus, this could have been relieved by applying a leech behind the ear, after which the extraction might have been easily accomplished. Furthermore, when the bead was actually in the middle ear, its timely removal might have been effected by the use of a suitable instrument.

CASE II.-This case affords a striking example of the extensive ravages that may be wrought by neglected ear disease. A. P., an anæmic-looking girl, aged 14, サith a family history of phthisis, was admitted November 24th, 1887. When quite young she had suffered from scarlet fever, which had left her with a large perforation in the left membrana tympani. She had three years before been under the care of Mr. Field for mastoid abscess, and this had been successfully treated by an incision down to the bone to release pus. Now, on her readmission to hospital, pus was flowing from the ear, and over the left mastoid there was again a large swelling, which, it transpired, had for weeks been poulticed at home. Much pus was evacuated by a free opening reaching through the periosteum, but some was found to have burrowed a passage alongside the sheath of the sterno-mastoid.
The patient was subsequently placed under chloroform and ether, and Mr. Page, at Mr. Field's request, explored the sinus in the neck, discovering that it communicated with the anterior mediastinlim, and pus followed when an incision was made one inch and a half above the clavicle at the inner edge of the left sterno-mastoid. The patient took the anæsthetics very badly, and it was abundantly manifest that nothing could be done for her. She died December 15th, 1887. The necropsy proved her to have been the subject at once of empyema, pyamia, pericarditis, pleurisy, and suppuration in the left lateral sinus. She had, in fact, come under treatment too late for any chance of recovery.
The salient post-mortem features may be briefly stated as follows: Rigor mortis marked; dorsal hypostasis. Excess of subarachnoid fluid, chiefly in the cerebellar fossa. Pus and brokendown blood-clot in the left lateral sinus, the pus proceeding from a carious and discoloured portion of its bony wall over the mastaid cells. Suppuration through the mastoid foramen to the tissues beneath the insertion of the left sterno-mastoid. No trace of sunpuration immediately outside the skull, but a probe passed throngh the incision in the neck reached to within an inch of the mastoid process. Brain substance wet; active congestion of the vessels of the pia mater; and excess of ventricular fluid. A large quantity of puro-lymph in the right, and of serum in the left pleural carity; Right lung collapsed and slate-coloured, but mottled; the pleural surfaces covered with lymph; scattered abscesses in the parenchyma seen on section. Left lung partly collapsed, with substance throughout congested; buttery lymph over part of diaphragmatic surface and lower edges; an abscess pointing beneath the pleural surface of the outer part of upper lobe, and other abscesses liere and there. Excess of serous fluid in the pericardium. Subpericardial and sub-endocardial petechia both absent. The kidueys both congested, and exhibiting cloudy swelling.
Case ili.-S. P., omnibus conductor, aged 31, came to the hospital as out-patient January 2nd, 1888. Six weeks previously he had suffered pain in the left ear, which grew worse until, after a fortnight, it was relieved by offensive otorrhoea. This ceased two weeks later: the earache then increased, and the tissues over the mastoid swelled, causing the helix to stand out prominently from the head. First three, and two days later five, leeches were applied orer the mastoid. On the 9th Mr. Field incised the swelling deeply, letting out a considerable quantity of pus. By the 16 th the patient, having passed a week in hospital, was completely restored to health.

CASE 1V.-MI. J., a nurse, aged 28 , admitted January 2 nd, 1888 , had lost both parente by consumption, and one of her two sisters had abscesses in the neck. Five years hefore coming to hospital the patient had a discharge from the right ear, an abscesa having burst inta $i$. Since then there had been a little otorrhoea at intervals of about a month. Near the middle of November, 1887, she experienced much gencral headache, which after a fortuight became localised in the right ear. This discharged freely, and was poulticed. The patient was recommended hy her medical man to use hot chamomile flowers aud to drop a mixture of oil audlaudanum into the ear. Otorrhea, however, persisted, and after a week a swelling formed over the mastoid, which gradually implicated the face. The patient was then sent to Mr. Field, in the out-patient department, who, on December 31st, extracted a polypus and ordered the application of eight leeches to the swelling. This he incised two days later precisely as in the last-mentioned case, setting free a large accumulation of pus. It was found that water syringed into the abscess escaped through the external meatus. 'On January 9 th the first incision had closed up, and a small abscess lower down was opened by the house-surgeon, Mr. Norton. On the 22 nd both, the swelling and the discharge had disappeared, and the patient left the hospital in all respects well except for a large perforation in the membrana tympani.

Both the last two cases of mastoid abscess are of the type most commonly met with, dangerous in the extreme if neglected, but in almost every instance yielding readily to treatment, the important factor in which is an early, and deep, and long incision over the mastoid down to and through the periosteum, so as to afford the freest possible exit for pus.

## general infirmary at leeds.

case of optic neurttis associated with chlorosis.
(Under the care of Dr. Endison and Mr. Teale.)
[Reported, with remarks, by T. Wardrof Qriffith, M.B., Professor of Anatomy, Yorkshire College; late Resident

Medical Officer to the Infirmary.]
Tyis patient, a kitchenmaid, aged 26 , was admitted on June 3 rd, 1887, complaining of dimness of vision. She stated she had had but poor health for aome time, but that the failure of sight dated back only three weeks. It commenced with pain and lachrymation in the right eye, and in two days she was almost totally blind in that eye. The left eye was not affected, she said.

On admission the patient, who was rather a delicate-looking young woman, with bad teeth and slight enlargement of one gland at the angle of the jaw, was seen to be markedly anæmic. Menstruation was said to be normal in point of frequency, but the flow was scanty. There ras a loud venous hum at the root of the neck, and a systolic bruit in the pulmonary area. The rision wae R. $=$ shadows L. $={ }_{2}{ }^{6}$, and Jäger 1 at 8 inches. Pupilsright, active ; left, rather sluggish. There was very well marked optic neuritis in the right eye, with much swelling of the papilla, extending into the surrounding retina a short distance, slight obacuring of the vessels, and a few emall hemorrhages. No glistening spots of exudation were seen. The left eye presented similar appearances, but they were much less marked.
A full examination of the patient failed to elicit evidence of disease of any of the organs of the body. Repeated examination of the urine failed to detect albumen. No history of injury could be made out, nor any history or eridence of syphilis.
On June 6th, the patient was put on a mixture containing in each dose liq. arsenici hydrochl. mu, and tinct. ferri perchl, mxv, and on a pill containing ferri sulph. grs. ji, ext. aloës soc. gr. j, and ext. nucis vom. grain $\frac{1}{4}$, each to be taken three times daily. The pills were increased to two, three times daily, on June 19th.

About June 10th it was noted that her sight had begun to improve. On the 23rd the neuritis was unquestionably less than on admission, and on July 9th the vision was Jäger 20 with the right cye.
On examination now, the edge of the disc was much more distinct. She was then sent to the seaside, and coutinued the medicine and pills without interruption.
On Norember 16th, 1887, she sent me a specimen of writing corresponding to Jäger 3, which she could easily read with her right eye.
Remaris by Dr. t. Wardrof Griffith.-In the Journal of May, 1881, Dr. Gowers has a valuable paper, giving full cetails of three cases in which optic neuritis, associated with chlorosis,
cleared up under treatment with iron. In one of the casees stellate epots were observed round the macula, but in none does the vision seem to hare been so profoundly affected as in the care now recorded.
Dr. Gowers comments on the resemblance of the optic neuritis in those cases to that found in cerebral tumour, and, as bearing ou this point, 1 append brief notes of two cases that 1 bad the opportunity of observing in the cliniques of Drs. Churton and Barrs, to whom I am indebted for permission to refer to them.

1. A girl, aged 19, attended the out-patient department for many months with the usual symptoms of chlorosis. She had Brights marked neuro-retinitis, strongly resembling that found in Bright's disease, but beyond this no evidence was made out of head. Three waks lesion. One day she rell on the ice, striking her ary, having been wildly delirious for two days. Her pupils wermdilated; her temperature raried from $99^{\circ}$ to $10^{\circ} \circ$ and she were the third day after admission, apparently from syncope. On postmortem examination we found a tumour, with the naked-eye appearances of a tubercular mass, occupying the inner aspect of the right occipital lobe. The membranes at the base of the brain were thickened and opaque. There was some effusion, but no grey granulations could be made out.
2. A serrant girl, aged 22, fairly healthy-looking, but rather anrmic, was admitted complaining of general weakness and pain in fronead of two years' duration. The pain, which was sometimes in front and sometimes behind, varied in severity, but was always on the right side. There was occasional vomiting, but always after food. There was no aural discharge. Menstruation was was slight aedema of the feet towards night.

On examination, the scalp was found tender on the right side, the hair markedly grey behind, this being of recent date Lung8 normal ; faint systolic bruit all over cardiac area; urine varied in amount from 76 to 86 ounces; no albumen; specific grarity, low; sight slightly impaired; $\Pi m=1 \mathrm{D}$. Distinct swelling of optic discs, with blurring of margins and very distinct curving of vessels. She was put on sulphate of iron pills, which she continued pretty regularly. The neuritis steadily diminished, and, when I saw her a year subsequently, the discs were absolutely clear, and. the sight normal.

## CIVIL HOSPITAL, CALICUT, MADRAS PRESIDENCY.

 punctured wound of chest inflicted by an elephant.(Under the care of Surgeon-Major H. D. Cook, M.B., Civil Surgeon, Calicut.) ${ }^{1}$
R. N., aged 55, was admitted on January 15th, 1888 . On admission his condition was as follows. He was unable to sit up; decubitus on left side, with body inclined well over to the right, head resting on left hand, right arm approximated to side, with hand close to face. There was a penetrating wound (fleshy) of the right side of irre chest. The wound of entrance was four by three inches, site the fourth dorsal situated six inches from the spine, oppomiddle third of the spine of scapula. The wound of exit wew four and a half inches long, clean cut, and extended downwards and outwards, from a point three inches above and to the inner side of the right nipple, but was in no part of its course lower than two inches above the horizontal nipple line. The wound of entrance was offensive and sloughy with sero-purulent discharge. Two lacerated bits of muscles were exposed, evidently portions of the deltoid and infra-spinatus muscles. The whole of the integument over the shoulder was swollen and cedematous, and had an erysipelatous blush. The parts were too swollen and painful to be thoroughly examined.
He stated that on the day previons to his admission, while be was employed with bis elephant (he is a mahout) drawing timber, a Mopilla crossed in front of the aninial, who suddenly became excited, and chased the man about a hundred jards; that he then struck the animal by way of punishment with a small stick he had, who promptly resented his punishment by throwing him to the ground, and striking him with one of his tusks over the right shoulder, penetrating the muscles of the chest, and ernerging in front below his armpit. After inflicting this iujury the man states that he turned over on his back, when the elephant placed one foot on his chest with the intention of crushing him; but
${ }^{1}$ Communicated to the South Indian Braceh of the Britisb Medical Association.
this he prevented by audelenly drawing his knife and stabhing the elephant in the trunk, when the animal turned and fled. The accident occurred at Cuttyady, a small place on the backwater some twenty miles from Calicut. The wound was syringed and dressed with perehloride of mercury lotion 1 in 2,000. Charcoal poultices were also applied to the wound of entrance.
The case is still under treatment. At first there was a great deal of conatitutional disturbance and abundant discharge from the anterior wound. The parts are now, however, looking healthy, and there is every prospect of a speedy recovery.

## ROYAL I'RINCE ALFRED IOSPITAL, SYDNEY.

aneurysm of axillary artery: blectrolysis: ligature of subclayian: cure.
(Under the care of Mr. G. T. Mankins.)
[Reported by J. Mcalister, M.B., B.S., and E. G. Blaxland, M.R.C.S.E., L.R.C.I'.]
J. C., aged 64, widower, no history of alcoholism or syphilis, had met with frequent severe aceidents during a long life in the busb, but was not aware that the left shoulder or arm had ever anffered any special injury; he was'quite well up to some months ago, when he first felt aching in the left arm and numbness of the fingers.

Admitted September 23rd. Five weeks ago he first detected a lump in front of the shoulder, from which time the pains in the arm became worse; there was no pain over the awelling itself, which, when first detected, seemed about the size of a goose's egg, and had not increased much since.
The tumour was situated below the onter third of the clavicle, which was slightly displaced upwards; it filled up the hollow in front of the shoulder, and could be felt from the axilla; it was distinctly pulsating, and over it a loud systolic murmur was audible. l'ulse at left wrist more feeble than at right; heart's action intermittent ; urine normal. The patient was first admitted into the medical ward under Dr. Shewen, and placed under appropriate medical treatment for a week-rest, low diet, and iodide of potassium in full doses; but as the pain in the arm increased, and the tumour appeared to be getting larger, surgical treatment was decided on. It was very difficult to compress the subclavian artery sufficiently to atop pulsation, and Esmarch's bandage could not be borne on account of severe pain. Before resorting to ligature, it was determined to try the effect of electrolyais.

On September 30th four insulated steel needles were passed into the tumour and connected with the positive pole, the negative pole of the battery being connected with a large wet clay electrode on the chest after the manner of Apostoli. A current of 140 milliampères, produced by a battery of 47 bichromate cells arranged in series, was passed through the aneurysm. At the commencement of the operation an elastic bandage was placed on the arm, and attempt was made at the same time to compress the subclavian, but both had to be given up on account of the pain produced. Chloroform was then administered, but the patient became so unmanageable that it was discontinued.

On withdrawing the needles after the current had been pasaing for thirty minutes, the uninsulated portions, about one-third of an inch, were found to be nearly eaten away. The aneurysm then appeared to be more solid and the expansion less marked, although still very perceptible.

On the following day some further improrement was noticed; but on the third day from the operation the pulsations became stronger, and the tumour began to increase in size, though still more aolid than before treatment. Ligature of the subclavian was then decided on, and performed by JIr. Ilankins on October 4th.

The operation was in this case very easy, the artery being found rather bigh in the neck, and apparently quite healthy, the terise cord of tho brachial plexus proving the hest guide to it, as the scalene tubercle could not be easily reached. The cxternal jugular rein was divided between two ligatures, also a smaller vein just over the artery; no other vessels were seen, and no blood to apeak of was lost. The artery was tied with carbolised catgut, when all pulation in the tumour immediately ceased. The wound was closed with horsehair sutures, a small drainagetube inserted at the outer angle, and dressal with dry sublimate gauze. The arm was then wrapped in cotton-wool and a flannel bindage. Feeble pulsation in the radial was firat noticed twentysix hours after the operation, but the pulse could not be counted until thiriy-two hours had elapsed, when it was very soft and faint. There wes no paia and no pulsatioa in the tumour.

The wound haaled by firat intention, and the patient had no bad symptom. Thirty-one days after the operation the tumour, compared with a cast taken by Mr. McAlister, the house-physician, before treatment, showed a considerable diminution in aize, but it did not feel very hard, although quite free from tenderness or pulsation.

The patient was now anxious to leave the hospital, but was cautioned against using his arm until the swelling had become absorbed.

## REPORTS OF SOCIETIES,

## ROYAL ACADEMY OF MEDICINE IN IRELAND.

Section of Medicine.
Friday, April 20th, 1888.
James Little, ML.D., President, in the Chair.
Migrainozs Headache. - The President read a paper on the value of a combination of salicylate of sodium and effervescing citrate of caffein in migrainous headache. IIo said he was in the habit of directing the patient, when he awoke with any feeling of headache, to take twenty grains of the aalicylate in a wineglassful of water, made efferveacent by the addition of a dessertspoonful of the granular citrate of caffein, and, if necessary, to take a second or even a third dose at intervala' of two hours. The effervescing cafiein made the dose a very palatable one, whicll the salicylate alone was not, and probably rendered it more useful; but that the good effect was not due to the caffein was proved by the fact that the anthor had seen it relieve persons who had previously used the caffein alone without bonefit. It did not appear to lose its effect, as a patient, to whom Dr. Little gave it more than two years ago, said she found it as valuable as when she first began ita nse.-Dr. Wallace Beatty , testifled to the value of the treatment suggested by Dr. Little. - Mr. Cox had himself fonnd that the active principle of tea and coffee had a powerful beneficial effect.-Dr. Atruicl, speaking from a large practice, exclnsively among females, said Dr. Little had auggested the combination to him two years ago, and, haring prescriked it ainee in twenty or thirty cases, he had always found some benefit, and, in the majority of cases, the benefit was considerable. This form of headache, especially near the menstrual period, whe accompanied by ovarian pain, and in such cases he administered twenty-grain doses of bromide of sodium.-Mr.'JoHi J. Burgess, in the case of a lady, aged 44 , found that the moat efficacious remedy was a full lyypodermic injection of morphine." He also found fifteen-grain doses of antipyrin useful in relieving the headache. -Dr. J. W. Moore felt justified in mentioning other remedies, having regard to the probable state of tension of the arteries about the head, as indicated by the rigid appearance of the temporal artery, and also the weak pulse. These remedies were nitroglycerine, the tabloids of the Pharmacopoia, and nitrate of amyl. He also gave one to two grains of butyl chloral every half hour until relief was obtained. As regards Dr. Little's combination, the good effect of the effervescent draught of salicylate of sodium and caffein was probably due to the action of the aalicylate of sodium on the liver. Once the bowels were freed, and the tendeacy to nausea was relieved, the headache disappeared almost like magic. -Mr. R. Montaomery aaid he found that a combination of sulphate of magnesium, bicarbonate of potasaium, and bromide of potassium, a wineglassful in the morming with a wineglassful of hot water, gave great relief.-Mr. W;' F. West obaerved that he found thirty-grain doses of guarana every four hours gave marked relief.-Dr. Finny said he liad never used the President's combination, but felt satisfied that the profession would have reason to feel indebted for it. He had tried to anticipate the attack or nerve storm by a course of arsenic. Hence caffein, as supporting the nerrous system, was one of the best drugs, and would be most efficacious when the treatment was carried out by araenic or some nerve tonic. The bromides were also most useful; and if the attacks were preceded by nerve symptoms, as deranged vision or perversion of the senses, auch aa hallucinationa, he considered a full dose of bromide of potassium would be of great usc:-The President, in reply, said the attacks were quite as common in men as in women-certainly among neurotic peraons. He did not know that the combination would prove efficacious if the bowels were entirely neglected; but, on the other hand, no emount of purgation would keep off the attack. . Those nerve storms were
as to results," or scek the overpowering control of a masterful mind, which would not discuss the evidence of those things, but dogmatically assert them.-11r. CoNOLLY Nonman replied.

## NEW SOUTH] WALES BRANUH: ADJOURN゙ED ANNUAL MEETING.

## Fridat, April. 6th, 1888.

The IIon. Dr. J. Mildred Creed, President, in the Chair. PRESIDFAN'S ADDREss.
Progress of Medicine in Australia.-After some preliminary remarks on the business of the Branch the President said that the year in the life of the Association which had just terminated had been an eventful one in the history of medicine in Anstralia. The graduating as M.B.Sydney of the first students, six in number, who had obtained their medical education in the local medical school, was a memorable event. The first intercolonial medical congress had been held, and had been attended hy medical men from all the Australasian colonies.

Regulation of the Practice of Medicine.-The Select Committee appointed by the Legislative Council to inquire into the state and operation of the laws for the regulation of the practice of medi-
cine and surgery in New South Wales had led to some stather cine and surgery in New South Wales had led to some startling revelations (already mention been unanimously adopted by the Legislative Council. Action had heen pressed upon the by, the by a letfer gigned by Lieutenant-Governor Sir Alfred Stephens, the Chief Justice, Cardinal Moran, the Primate (Dr. Barry), the heads of all other religious denominations, the Mayor of Sydney, and the President of the Chamber of Commerce.

Registration of Births, Deaths, and Marriages.-The report of another Select Committee, pointing out the defective state of the deaths, had also been unanimously adopted by the liages, and Council. Dr Creed, as chairman of that Committee, had intro--duced a Bill into the House providing for the better registration of births, and enacting that, before disposal of a dead body by andal or cremation, the distre permit, he must be satisfied either by the certificate as to the canse of death from a legally-qualified medical practitioner, if one had been in attendance, or, if noty' by police inquiry, that the death had occurred from natural causes. tant peril in which the colony stood, next. referred to the conlect of vaccination, which was optional, the result being that a very small proportion of children were vaccinated. The present rapidity of transit had immeasurably increased the risk of the introduction of the disease. It was true that the admirable bealth authorities had so far been able to completely isolate all cases: but this good fortune it would be absurd to expect almays to continue; already the quarantine station was seldom free, and it sometimes happened that a fresh ship arrived with the disease on board before the crew and passengers of previous ones had been released. Sooner or later the type of the disease introduced would be of sn mended the establishment of a commission to westigat He recomin which evil effects were alleged to have followed vaccination Federal Quarantine.-The question of federal quarantine. ill in abeyance, though the scheme formulated by the Hon. Dr. Mackellar had been adopted by the Australasian Sanitary Conference, which met in Sydney in 1884 . The varying action of the colonies hampered commerce and increased the risk of the introduction of disease. There could be no douht that infected persons should be removed, and the ship disinfected at the first port of call, instead of these messures being delayed until the ship reachor its destination.

Cremation.-Cremation was legal in the Colony, and the recently formed Cremation Society, mould shortly be able to undertake cremations. The proposal to cremate the bodies of persons dying in quarantine from infectious diseases, which was first made by the principal medical officer, Dr. MacLaurin, when an outbreak of cholera occurred on board the mailship Dorunda, in Queonsland waters, had as jet no practical result.

Rabbit. Past.m.Dr. Greed detailed the various proposals made for dealing with the rapid increase of rabbits (see Joursat of June people of Australia would have any choice as to whether diseas should be used for their extermination; pastoraliats, threatened by ruin, would take the matter into their own hands. The only
cheice the fovernment had was whether the usc of disease should be supervised and the results recorded, or whet her it should be left io rath anil ignorant hands.

Concluding Remarks.-Dr. Creed referred to 1tr. W. 11. Paling's generous gilt of an estate coutaining tivo acres, and an enlowment of $£ 10,000$ for the establishment of $n$ envulesecnt station. lle uttered a word of warning as to the dispropertionate number of medical practitioners who were coming from all parts of the world to practise in Austratia. In conclusion, Dr. Crued referred to the success of the Australasian Medical Gazette, of which he is the editor, and thanked the liranch for the unvarying kindness displayed towards him during his term of office as President.

## ABERDEEN, BANFF, AND KINCARDINE BRANCH. Wednesdax, May $16 \mathrm{ti}, 1888$. <br> Jolin Urquiart, M.D., I'resident, in the Chair.

Intubation of the Larymx.- l'rofessor Oaston gave an accomnt of the method of intubation of the larynx, showed O'Dwyer's instrumeats for that purpose, and gave details of a case in which he had successlully employed intubation for the relief of croupous laryngitis.
Left Ophthalmoplegia Interna.-Dr. Mclienzie Davidson showed a fernole patient suffering from paralysis of the ciliary muscle and iris of the left eye. Otherwise the eye was normal, and the cause of the palsy exceedingly obseure.

Myperamia after Trauma.-Dr. Machenzie Booth read notes of a case of this nature where marked hyperæmia came on after a rupture of the drumliead from blowing the nose, and lasted nearly three weeks.
Fecovery from Catarrh of Tyinpanum.-Dr. Mackenzie Booth ralso detailed the case of an elderly gentlemen who had suffered from advancing tympanic catarrh and its attendant deafness for many mooths, and who was relieved after the removal of a nasal polypua which had existed for many years.
Composite Photograph.-Professor Ogston showed a composite photograph of the medical atudents forming the class of 18871888, taken by Messra. G. W. Wilson and Co., Aberdeen.
Abscess of Liver.-Dr. Gordon showed specimen of abscess of liver, with glycero-gelatine cast of the same. The case was that of a lad in whom the appearance was of doubtful import, and rendered the diagnoris exceediugly difficult.
Refraction Ophthalmoscope.-Dr.McKenzie Davidson exhibited and explained the mode of use of Jessop's Refraction Ophthalmoscope

## SOUTH INDIAN BRANCIT. <br> Annual Meeting.

## Fidday, March 2nd, 1888.

Surgeon-General G. Bidie, M.B., C.I.E., President, in the Chair. President's Address.
Position of the Branch.-The President, in beginning his address, ahowed that the Branch was in a flourishing condition: it now numbered 71 members, and bad held eleven meetings during the year 1887. IVe referred to the bond of union which membership of the Association afforded, and dwelt on the great educational work which, directly and indirectly, the members of the medical services in India were doing.

The Educational Work of the Medical Services.-In thirty-two years, the period of the President's service, the number of civil hospitals in the Madras Preaidency had increased from 38 to 319 , and these institutions, small as some of them were, were yet the advanced posts of the movement to put skilled medical aid within reach of the entire population. Many lives were yearly sacrificed to the ignorance of native quacks, who still largely relied on incantations and charms. Even the better class of them clung to a ayatem which was a feeble echo of the doctrines of Galen, while their anatomical knowledge was comprised in the doctrine that the navel is the principal seat of life, and the origin of all the ressela. The native population would not consent, even if it could afford, to pay fecs which would remunerate educated men and women, and the only course which could be recommended was to render the native practitioners less dangerous to their patients; more could not be hoped. This might be done perhaps by diseminoting cheap and simple litcrature, auited to the comprehension of th native practitioners, and by encouraging them to visl' the hospitils.
Vacciation.-Though vaccination lad been introduced into Madras i 1802 it", was atill in a backwardstate: not more than 17 fer cent. of the childreo born were protected, and during the
twenty years ending 1885 the arerage annual mortality from small-pox in Southern India was 33,000 . Faccination from the call had now been introduced, and the most bigoted and superstitious were thus left without the least excuse for continued opposition.

Sanitation in Southern India.- The annual average mortality from cholera, small-pox, fevers, and howel complaints in the Madras Presidency was 339,000 , and the task of stirring the natives to remedy evils traceable to the neglect of centuries was almost, but not quite, hopeless. The natives required to be taught to help themselves; lndia absorbed one-fourth of the gold and one-tbird of the silter produced throughout the world, and the country container an enormous amount of dormant capital secreted in the bowels of the earth or locked up in useless jewelry: the people ought to be encouraged to invest their savings in lonus for municipal and local improvements. Already town and village communities werc beginning to recognise the extreme importance of pure water and removal of sewage as preventives of sickness. Future progress would largely depend on the energy, knowledge, tact, and sagacity of the officers of the medical service. The efforts made in India to exterminate cholera would be critically watched by the whole civilised world, which had grown to resent the devastating epidemica which moved westward from India, to devastate the cities, to restrict the intercourse, and to interrupt the trade and commerce of Europe. lle did not shrink from the ordeal, feeling confident that his medical brethren of all grades would in this contest, as on the battlefields of former days, show that they could and would do all that men could do.

Surgical Cases.-A series of surgical cases were communicated by Surgeon-Major Coor, M.B., Civil Surgeon, Calicut. (1.) A case of severe compound and comminuted fracture of the thigh, inrolving the knee, in a native, aged 25. Amputation was refused, but the patient eventually did welt, and left the hospital in ten week 3 , though with a ahort leg and stiff knee. (2.) A case of comminuted fracture of the femur complicated by an extensive lacerated wound, in a native, aged 40. The patient did well, and recovered in two months, with little shortening. (3.) A case of gangrene of the left forearm due to improper treatment of a fracture of the bones by a native practitioner; the radius had entirely disappeared, and the upper half of the ulna, which was exposed and banging down, was removed. Symptoms of tetanus set in, but passed a way under treatment by bromide of potassium and chloral bydrate. (4.) Another case of gangrene of the arm after native treatment of a fracture. The arm was amputated, but tetanus set in on the fifth day, and the patient died on the tenth day. (5.) A case of obliterative arteritis leading to spontaneous gangrene of the foot, in a woman, aged 39. Amputation was performed in the lower third of the leg. The patient recovered, and was discharged on the twenty-fourth day. (6.) A case of penetrating wound of the right lung in a natire, aged 25 . Air paased in and nut of the wound, from which bright frothy blood also escaped. The sputum was blood-atained. The wound measured 4 inchea by 2 incbes, and extended through both pectoral muscles and the third rib. The patient bad an attack of pneumonia, but was discharged well on the twenty-seventh day. (7.) A second case of penetrating wound of the lung, in a native woman, aged 25 . The wound, an inch long, was situated just below the inferior angle of the right scapula; air passed in and out, and the immediate neighbourhood was emphysematous: there was also a wound of the mamma, from which milk flowed (the woman was suckling). Sha was discharged well ón the thirty-fourth day. (8.) A case of wound of the abdomen with protrusion of omentum, in a native, aged 30 . The omentum was washed and returned; the patient recovered without fever, and was discharged in a fortnight. (9.) Abdominal wound in a boy, aged 9, dividing the ensiform cartilage and exposing the anterior surface and horder of the left lobe of the liver, which protruded from the wound, but was uninjured. The liver was pushed back, and the wound closed by sutures and strapping. ( 10. ) Anotber case of penetrating wound of abdomen, in a boy, aged 12. The transrerse colon could be seen through an aperture which admitted the forefinger. The boy recovered, And other cases, some of which will be published in full.
Specimens.-Brigade-Surgeon SibTHorPe: Comminuted Extracapsular. Fracture of Left Femur.-Surgeon J. Smyth, M.D.: (1) Thrombosis of Veins ; (2) Rheumatic Endocarditis affecting Mitral Vnlve: (3) Cyst Worm from Subperitoneal Tissue of Sheep; (4) Dislocated Testicle ; (5) Glioma of Cerebellum and Medulla Oblongata, and Cyst of Cerebellum.

## REVIEWS AND NOTICES.

Nouvelle Iconograpitie dpe la Salpetriere: Clinique drs Maladies du Systeme Nerveux. Publiée sous la direction du Professeur Charcot, par Paul Richer, Ghlles de la Tourfettr, Albert loondf. Janvier et Février. No. 1. I'aris: A. Delahaye and E. Lecrosnier. 1888.

Some ycars have elapsed since the publication of I'I Conographie Photoyraplique de la Salpatriere, an album of photographs and text, treating ehiefly on the phenomena of hysteria in women, and published, under the direction of l'rofessor Charcot, by Bourneville and Regnard. Since then, l'rofessor Chareot's clinique has undergone many and important changes, both as regards materials, appliances, and the personnel of the department. To the original lufirmerie, containing only femaje patients suffering from chronic diseases, there have been added new wards for the treatment of male patients and acute eases, and a policliniqueie corresponding to our out-patient department. The organisation and subdivision of the work was as complete as possible, and in the hands of assistants who have already become distinguished workers themselves. M1. Richer still figures as the chef de laboratoire; the clinical and pathological work is done by the ehef de clinique, assisted by a number of internes; and, amongst former chefs, we have a whole series of distinguished names, such as Cornil, Bouchard, l'ierret, Pitres, Erissaud, l'érs, Marie, and others. An excellent museum and a elinical laboratory supplement this branch of the clinique; the electrieal appuratus, of the most elaborate deseription, both for physiologieal investigation and therapeutic application, is entrusted to NI. Vigoureux; the ophthalmic department is under the direction of \$1. Parinaud; whilst M. Londe acts as photographer, and, presiding over the whole, like the chicf of a military "gencral staff," we have Professor Chareot himself. Whilst every facility is given for the study of nervous diseases, in their physiologieal and pathological relations, therapeuties is not forgoten; and amongst the latest additions, we noticea complete system of baths, which will stand comparison with any of the best hydropathic establishments.

With such material and appliances, and so perfect an organisation, we can well imagine that each case is worked out in its fullest details; and the Nourelle Iconographie will be welcomed by many besides those more especially interested in nervons diseases.

The work is edited by Messrs. Richer, Gilles de la Tourette, and Londe, under the direction of Professor Charcot, and published in two-monthly fasciculi, the first of which has just appeared. Though the anthors modestly state, in the preface, that their intention is to make acecssible to "others the numerous figured documents which accumulate day by day in the albums of the Salpetrière," a glance at the first number shows that the seope of the work covers a much larger ground; and that, in the Iconographie, we have not simply a photographic representation of interesting eases, but rather a series of able articles, on new or little recognised points in aid of diagnosis and treatment of nervous diseases. Thus, in the first article, M. Gilles de la Touret te gives an exact deseription of the attitudo and walk in hysterical hemiplegia, studied with the help of the graphiemethod, andillustrated by two excellent photographs. The second article is by Paul Richer, on the Morphological Anatomy of the Lumbar Region. The relation of the external configuration of the buman body to disease has oceupied the attention of several observers, and has lately been taken up again by Charcot and his pupils. In a recent number of the Arehives de Neurologie, Babinski draws nttention to the deformity of the hip produced by a hystcrieal affection; in the article before us, Richer speaks of the median prominence in the lumbar region of the epine which occurs normally, but which may be 80 exnggerated as to simulate a spinal deformity. That this is not generally known is shown by the history of a patient, who suffered from syphilis and hysteria, but in whon the spinal projec-- tionand the obscure nerrous symptoms were held to be due to some organie spinal disease. On this hypothesis the actual cautery was applied, the indelible marks of which, together with the spinal lumbar protubernnee, are well depicted in the photographaccompanying the artiele. The third article (the first part of which only appears in this number), by Paul Block, treats of Fibro-tendinous littractions. This peculiar affection, the true nature of which has been recognised by Charcot, occurs in the course of spasmodic contrac-
tures, especially hysterical contractures, and is characterised by the persistence of the deformity during the chloroform narcosis. It is amenable to treatment by surgicalinterference-that is, cutting through the contracted and altered tendons-a treatment which, in the cases figured in this article, has given most satisfactory results.

The part concludes with a phototype of a picture lyy Albert Dürcr, illustrating the passage in the Acts of the Apostles (chapter iii, I to 9) where St. Peter says to the crippled beggar, "Rise up and walk." This photograph is taken from n work, shortly to be published by 3. Chareot, on the artistie representation of deformities, and of diseases in general. Chnreot ingeniously shows that, in the picture before us, Albert Direr had for his subject a person affeeted with leprosy, the characteristic features being given with such exactness that we can recognise that the leprosy, at the beginning of the sixteenth century, was of the same type and nature as the affection seen at the present day; the face, and espeeially the lips, show the nodular variety, the forearm and and hands the atrophic form, with the characteristic atroply of the interossei, and the flexed position of the forearm depicted with wonderfully correct anatomical details.

The foregoing brief account of the eontents of the first part of the new Ieonngraphie abundantly shows that, besides the collected Lecms sur le systime nerveux, besides the numerous publications in the varinus journals, and the many important theses written by his inspiration, the indefatigable founder of the "Salpêtriòre School" has enough material left for the publication of a great work, full of important and original matter, which is destined materially to adrance our knowledge of those obscure and complex diseases, in the study and recognition of which 31. Charcot has for a long time taken and kept the lead.

The work is got up in an excellent way. The style is easy, clear, aecurate, and concise, and the illustrations numerous and of truly artist ic merit.

A Students Mantual of Psychology. Adapted from the Kateehismus of F. Kerehner by Drocait. 'London: Swan Sonnensehein and Co.
The publishers deserve credit for the series of educational books whieh they are translating and publishing. This manual is neatly got up, well printed, and handy. The medical student who is aiming at the higher degrees is expeeted to have some knowledge of mental pathology, and it is better for him if he have been trained to elassify and define nervous processes. Psychology, though one of the most venerable and interesting of studies, has till recently been founded solely on introspection, and not on any really seientifie basis.

Workers nowadays are eagerly rushing in to till the neglected fields of study, and already' there are many followers of llerbert Spencer. The future of psyehology will rest with careful observation of the development of the various mental faculties, and later the recording the variations in health and disease of the various sensory and other nerrous reactions, and then studying the aberrant types and the effeets of dissolution. This prospect is yet a distant one, and the workers must not suppose that they can diseard all past knowledge which was gained by suljective study, and they must be as carefnl of the use of terms as their predecessors. The mamual under notice is eminently well suited for the student who is preparing for the study of mental functions in health and disease. It is brightly and clearly written, and has nothing repellant to the "intelligent student." The author not only gives clearly the opinions of others, but quotes authorities freely. His point of riew is neither one-sided, empirical, nor purely spiritualistic; and he derotes particular attention to consciousness, imagination, the feelings, emotions, and passions.
The look consists of an introduction and two parts. In the introduction a very useful and complete history of psychology is given. Naturally it is only an epitome, but it is a satisfaetory and trustworthy one. In summing this up he says: "It is evident that no dualistic view. in accordnnce with whieh man consista of two contrasterl substanees, can solve the psychulogical problem." Strict idenlism is just as untenable; and, when speaking adrainst inaterialism, he says: " Facts permit u* to conelude that there is reeiprocity between these factors (soul and body). but not that they are identical. but experience teaches that body and soul rather lead a comunon life. with inseparahle common developments." As to the method followed by our author, he says
that both the analytic and the syntlietic hare proved one-sided, and he prefers what be calls the "genetic." This method collects observalions, but from established metaphysical standpoints. It proceeds, in the first place, like the investigation of Nature. It seeks to establish facts to find out a claim for them to mount to the universal cause of phenomena. But this genetic methed then joina to this the speculative element, the inqniry into the nature of the soul, in order theace to comprehend phenomena. The obserrations include (1) the observation of one's own self, (2) one's own observation of others, (3) the self-observation of others, (4) the observation of others by others. On starting each fresh subject, an interrogatory is made, and the answer is clearly supplied, aud any specially important words, or phrases are printed in italics, so that the salient points are readily recalled by the student.
In Part 1 the nature of the soul is considered, and conscieusness is taken as the fundamental fact which is allowed by both idealist and materialist. The nature of consciousness is first studied, then the results of psychological researeh, and, finally, the metaplyysical conception of the soul is developed. The questions are plainly stated, and the answers givenare clear and concise; throughout the book there runs a pleasant humour, unusual for snch a subject fart 11 discusses the mental faculties, for though the anthor considers the soul to be substance which, as personality, animates the body and is a unity, yet it is not a mere homogeneity. In answer to the question, "What course will our discussion follow ?" our author says: "Our Ego first becomes conscious of itself in ideation: we will, therefore, in the first place, treat of this. But since ideation is brought about by some perception, we have first to examine scusation; to this succeeds the discussion of feelings and of the phenomena of desire."

To discuss all this would be beyond the scope of a medical review, but we would recommend our readers to eompare this work with that of Dr. Nereier on the Nervous System and Mind, recently published; for though the methods and the objects differ, yet both point to the more practical study of mental functions, which is the boast of the present time.

Essiys in Preventive Mrdiche: Infection and Disinfection, the Health of Children, and the Period of Infection in Epidemic Diseases. By William Squire, M.D., F.R.C.P. London: J. and A. Chnrehill. 1887.

Trie course of conduct to be pnrsued when an infections disorder breaks out in a family ought to be determined from an intimate acquaintance with the natural history of the disease. There are few circumstances under which the opinion of the physician is more cagerly sought, and few under which the young practitioner appears to less advantare; the decision must be made on the moment and must be grounded mainly on the period during which infectivity is active. Measles, for instance, is infective before the rash appears, and is very frequently propagated at this carly stame, so that it is hopeless to attempt to prevent its spread aroong those who have been in clese contact with the patient up to the time of ernption; whereas scarlet fever is mnch less infective during the first day or two of sore throat than it afterwards becomes, so that an early separation gives good hopes of immunity. No man has contributed more to our knowledge of questions of this class than Dr. Wifliam Squire, and his essaya liere brought together contain much valnable information not only on average but also on exceptional periods.

The arrangement of the volume, which consists of detached essays written at various times, is somewhat defective, and the information on each disease is scattered, s? that the labour of reading is needlessly increased, but no fault can be found with the matter of the book. The two essays "On Infection and Disinfection" and on "The leriod of Infection in Fpidemic Disease," read together, give a fairly complete account of the subject. Dr. Squire gives not only the results of his inquiries but also the cases upon which they are based, so that all the clements for forming an independent judgment are provided. He has some very judicious observations upen the nature of the procosses which are going on during the period of incubation, and establishes that the variations in this period are to be traced to variations in the duration of the carlier of the two stages, of latency and of invasion, into which this period may be divided.

Dr. Squire makes one generalisation which will undoubtedly be found of considerable value, if only as affording a convenient help to remembering the facts; it has, however, a deeper significance,
being based on the natural characters of the diseases. IIc points out that the zymotic diseases, with regard to their behaviour in this respect, may be divided into two elasses: (1) Diseases having a long incubation period, namely, variola, vaccinia, measles, "rubella" (rötheln), mumps, varicella, typhoid, and typhus; (2) diseases having a short incubation period, namely, scarlet fever, diphtheria, plague, cholera, yellow fever, diarrhoea, influenza, dengue, and erysipelas. Relapsing fever oceupies an intermediate position; and whooping-cough, which would generally be reckoned in Class 1, in reality belongs to Class 2. The generalisation to which we refer is that infection is generally spread during the early or invasion stage of Class 1 and during the later stages of Class 2; the long period of invasion increases the chances of infection during that stage, while, as a rule, diseases of the class terminate suddenly, infection ceasing at a comparatively early period of convalescence; in the case of measles, for instance, the duration of personal infection probably never exceeds three weeks. The diseases in Class 2 present a marked contrast, for the short period of incubation minimises the dangers of infection during the onset of the disease, while the liability to relapses and to prolonged definite sequele extends the period during which infection is possible far into convalescence: in consequeace, these diseases are most commenly spread at the end, during the period of convalescence, so-called. The use of the one term "conralescence" to express the stages which follow the subsidence of the pyrexial period of zymotic diseases is a little unfortunate; for, as Dr. Squire has well brought out by his classification, the virus of the disease may continue to be present during this time in an active state: thongh the patient has conquered the disease, it must not be forgotten that virus is still being eliminated.
A large number of problems which are constantly arising in practice are ably discussed by Dr. Squire; for instance, if children have visited at a house where scarlet fever subsequently breaks out, haw long they must be kept from school, the proper time to send children who have had scarlet fever for change of air, and the infectivity of catarrh and of tonsillitis, to mention only a few. These anil many cognate questions are dealt with in a second essay "On the Period of Infection in Epidemic Disease." The volume coutains also a valmable practical essay on Infection and Disinfection, especially in its relation to domestic hygiene.

## NOTES ON BOOKS.

Studies in Pathological Anatony (especially in Relation to Laryngeal Neoplasms): (1) Papilloma. By R. Norris WolffnDEN, II.D.Cantab., Senior Physician to the Throat Hospital, Golden Square, and Stover Mantix, M.D.Lond., Pathologist to the City of London IIospital for Diseases of the Chest, Victoria Park. (London: J. and A. Churchill. 1888.)-This pamphlet, which we understand is the first fasciculus of a projected systematic work, affords evidence of the great strides by which laryngology is advancing, and is, at the same time, an excellent example of the way in which a speciality ought to be studied. The conflicting opinions which liave been expressed as to the prognosis in the case of the Emperor Frederick of Germany have shown the need for a thorough overhauling of the pathological facts with regard to laryngeal neoplasms. To this task Drs. Welfenden and Sidney Martin have set themselres, calling in the aid of the most recent histologieal processes and the best art of the lithographer. Next to an examination of the specimens themselves, nothing can bemore instructive than a study of the excellent coloured plates executed by Messrs. Danielsen. Eacir plate has a key plan, which is a useful guide to its comprehension. The authors detail the process used in preparing the microscopic specimens, and leave nothing to the imagination except the naked-eye appearances of the growth, an omission which they may be recommended to repair in future fasciculi. They express in very decided terms the opinion that the nature of a growth can be determined only by microscopical examination of a portion removed, but reserve for future discussion the diagnosis betreen papilloma and epithelioma, and the all important question whether papilloma degenerates into epithelioma. We understand that the Pasciculus has already been translated into German, and will shortly be published in that langluage.
Rexurns juat issuad show that the death-rate in St. Petersburg has been unusually high this spring, namely, 40.9.

# REPORTS AND ANALYSES 

DESCRIPTIONS OF NEW INVENTIONS,
in medicine, surgert, dietetics, $A$ ND tHe ALLitRD SCIENCES.

SCAFE'S WATERPROOF BOOTS.
A воот with a sole of a novel and ingenious construction, in whicl leather and india-rubber are combined, has been submitted to us.
 india-rubber sose (B) is inserted between the inside sole (C) and outside sole (A). The outside sole of leather is pierced by holes through which studs attached to the india-rubber sole are passed, and form slightly raised projections or cushions of india-rubber, which are said to wear equally with the sole. The boot as completed is represented at D. The boots are considered specially adapted to the use of the medical profession, as they are waterproof at the sole without being unduly heavy; they are noiseless in walking, and the india-rubber studis prevent slipping and render them more durable. The boots it is thought would also be well adapted for Alpine work. They are the invention of Mr. Scafe, of the Leather and Rubber Boot Company, 20, Albion Street, Leeds.

## SCOTCH OATEN.

(Carr and Co., Carlisle.)
THIs preparation consists of the finest Scotch oats, carefully deprived of all husk, and so crushed that the form of the grain is still distinctly discernible. The cellulose amounts to only 1.2 per cent. Scotch oaten makes excellent porridge.
"MEMBRANE" ASPIRATOR FOR CASES OF DIPIJTHERIA AFTER TRACHEOTOMY.
THis instrument is intended to obviate the necessity of applying the mouth in order to suck out an obstruction from a tracheotomy tube in cases of diphtheria. It consists of a bottle in which moro or less of a racuum is produced by an exhausting syringe, and to which is appended a tube having a tapering nozzle of rubber or vulcanite which will fit into any tracheotomy tube. A pint bottle is of sufficient size, and the tapering rubber cork will adapt itsclf to many different bottles. The instrument has been so well.made that a sufficient vacuum can be maintained for at least twenty-four hours. The bottle being kept exliausted (or it

can be rapidly exhausted), the nozzle only requires to be placed in the tracheotomy tube, the tap turned, and any fluid or $m \in m-$ branous olstruction will be sucked up through the rubber tube into the vacuum bottle. In practice it will be found advisable to
exhaust the bottle night and morning, and to keep it by the bedside. It will then be ready for use at a moment's notice
Although it may not be possible to have the above for every private case, its use in hospitals after tracheotomy for diphtheria will, it is hoped, be the means of saving raluable lives. At any rate, there should be no neccssity for any surgeon to risk his own life by sucking at a tracheotomy tube to remore obstructions. The instrument has been made for me by Jlessrs. Arnold and Sons, of West Smithfield.

T. Frederick Pearse, M.D., F.R.C.S,

THE SWISS MJLK COMPANYS PREPARATIONS.
The Swiss Alilk Company have added to their Pure Compressed Milk Extract (previously noticed in our columns), consisting of skim milk completely deprived of water, three very good and useful milk preparations; the most important is Pure Compressed Cream Milk, which represents the solid matter of whole milk, including all the fat of the original milk. The preparation is distinguisbed by being perfectly free from all rancidity; it is quite sweet. mixes readily with warm water, and thus yields good, palatable milk. The preparation represents the highest possible degree of eoncentration which can be attained, and is sure to be appreciated.
The same company manufacture a Sireetened Compressed Milk Extract, consisting of milk solids, with a moderate amount of cane-sugar, and Chocolate and Milk in Fowder. Both are well made, sound, and of good quality.

## PERFECT FOOD BISCUITS: WHEATENA BISCUITS. <br> (Messrs. S. Hexderison and Sons, Edinburgh.)

The use of whole-meal flour as such, and in the manifold applicatiou in food preparations, is evidently becoming very general, judging by the numerous articles containing whole meal which are brought under our notice. The above biscuits are excellent whole-meal preparations. The "perfect food biscuits" are particularly rich in albuminoids, while the lighter wheatena are most palatable and nutritions. They form creditable additions to the list of high class biscuits made by Messrs. Henderson and Sons.

## RIZINE.

Rizine consists of whole rice grains completely deprived of husk and indigestible cellulose, cooked and crushed into very thin lamine, which readily swell up in warm water, and with very fittle further preparation form a food ready for the table. Rizinc makes very gool milk puddings, and is particularly well adapted, in conjunction with milk, for nursery use.

SALT'S " RUBY-BACKED" CLINICAL THERMOMETER. Mr. Salt (69, Corporation Street, Birmingham) bas designed (in eo-operation with Mr. Ilicks) and patented what he describes as a "new ruby-backed clinical thermometer." This is au elcgant little instrument in a metal case, the norelty of which consists in the background of the index being of a ruby tint. Whereby the mercury is rendered much more casily visible. It appears to be clearly and carefully scaled, and to be very accurate.

## THE PNECMATIKON.

 escribes, mider the name of the" Dnenmatikon, 2 th Mr. J. Brind Jath of whel he gives a drawing.
respirator, which he has registered, andirator similar in principle and conI think it right to mention that amart, of Edinburgh, lias been in use here struction. devis
or Smart in a lecture deliverem to the Ibionburgh Ifealth Society, on the 1r. Smart. in a and Disence in of ses showed and descriked this instrument as a " respirator aesiened to warm, filter, und merticate the air in its passage to the pumouary orgathe."
Tho abore facts are well known to me, as I resisted Dr. Smart in the outTio atore fing the matter under yonr nofice.
Jonoform Encprions. - In the Annales de Derm. 'et de Syph. 1858 ( $\mathrm{p}, 190$ ) two cases are related in which an eruption was produced by the application of indoform. In one case the face was the seat of violent erythema, with the formation of sinall bullse: and in the other the lesions were not unlike those produced by a burn in the second degree. In each casc, by the substitution of boracic dressings for lodoform dressings, the symptoms rapidly subsiderl.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Subscriptions to the Association for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429 , Strand, London. Postoffice orders should be made payable at the West Central District Office, High IIolborn.

## Tly Gritisi) Etcoital Jommat.

## SATURDAY, JUNE 9TH, 1888.

THE FORTHCOMING GLASGOW MEETING OF THE BRITISII MEDICAL ASSOCLATION.
We publish in another column the programme of the forthcoming meeting of the British Medical Association in Clasgow, boing its fifty-sixth annual meeting. These preliminary particulars will make it sufficiently evident that the arrangements, scientific and social, are on a scale adequate to fill the frame of what will undoubtedly be one of the largest gatherings which this great Association has ever yet held in its long, prosperous, and brilliant course. Glasgow could not fail to be a great centre of attraction on many grounds. Its rank among the first cities of the Empire, and among the greatest seats of academic learning, scientific research, and practical medical teaching ; its situation at the gate of the most picturesque scenery within the limits of the three kingdoms; the public spirit and hospitality of its municipality and its citizens ; the numbers, energy, ability, and spirit of the medical profession of Clasgow and throughout Scotland, are all earnests of the brilliant reception which awaits the Association on this great occasion, and of the wide range, completeness, and attractiveness of the arrangements for ensuring success in all the departments of the work of such a meeting. The Association will meet in the newly completed and magnificent buildings of the University. The anthorities have generously placed all the resourcos of this monumental building at the disposal of the Association, and have thus secured for its meetings halls and chambers fully adequate to the requirements of even so great a gathering as this, with all its numerous sections and committees.

To add to the attractiveness of the meeting and the admirable qualifications of the site, it is only necessary to mention that the University buildings looks down on the picturesque grounds on which is placed the great Exhibition which is now being carried on at Glasgow with such signal success. It is only to be feared that the immediate proximity of this unrivalled industrial and art show, which is now attracting humdreds of thonsands of visitors weekly, may prove somewhat distracting to the members of the Association. As agminst such attractions, however, it will bo noted that there will be provided scientific and practicsal material of extreme value.

A Committeo has been appointed to compile a Handlook of the Medical Institutions of Clasgow, a copy of which will he prosonterl to owery momber attending the neeting. The articles are written ly gentlemen connected with the various
institutions described. The editorship of the volume has been entrusted to Dr. James Christie. Among the entertainments it may be mentioned that a conversazione will bo given ly the Professors of the University, at the University, on the Wednesday evening of the meeting, and a further conversazione by the Corporation of Glasgow, on Friday ovening.

The meeting will be presided over by Profossor Gairdner, and the addresses will be delivered by Dr. Clifford Allbutt, Sir George Macleod, Dr. Macewen, and Professor McKendrick. In all the Sections the practice is inaintained of arranging for discussions on the leading clinical topics of the day, with the aid of those eminent physicians and surgeons who are known to be especial authorities on the subjects to be treated, and it is only necessary to inspect the preliminary programme (see page 1241 et seq.) to be assured that the scientific and clinical proceedings of the meating will be of very marked interest.

The general affairs of the Association have singularly prospered throughout the year: its material progress continues to be most satisfactory, and its work is progressing in every direction. Of the number of new Branches which are seeking to affiliate themselves with the Association, or which are already in uscful activity throughout the world, we speak elsewhere. It is impossible to regard this continued extension of the British Medical Association throughout the great dominions, colonies, and dependencies of the cmpire without feeling that such extension is full of promise for the social and scientific future of the profession. Throngh the medium of the Journal the members of our common profession throughout Greater Britain are thus enabled individually and collectively to keop touch and to grasp hands. We on our side are strengthened and enriched by the new experiences of our brethren in the distant regions and various climates of this great empire. The great social problems as well as the scientific researches which occnpy us become simultaneously the common possession of all our colonial and distant colleagues, and on our side we learn what are the new questions, the new goals, and the new solutions on which they are intent.

In other respects, also, the progress of the Association and its continually extending usefulness are plainly ovident. The work of the Scientific Grants Committee and of its Research Scholars, and the work of the Collective Investigation Committee, afford solid evidence of the success with which scientific interests are being promoted. Progress will also be announced in a new direction in the draft report of the Therapentic Committoe, of which the foundations were laid at the recent meeting at Dublin. This Committee will probably arrange to secure the assistance of fifty or more leading men in different parts of the British Islands, who will undertake to investigate therapoutic questions suggested by the Committee, and record their results. The records of cases of busy practitioners will be obtained through the medium of the Branches, who will, in the first instance, discuss local results. Eepecial attention will be paid to the opinions of members who diffor from the majority, and efforts will be made to distinguish the special causes or conditions of experionce which may lead to such difference. This inquiry is in the hands of a most competent and highly skilled committee, and after examining the proposals now in hand for carrying out this scheme, we entertain no doubt that the future work of
the Therapeutic Committec is likely to be among the most valuable results of the associated action of the memoers of our society. The formation of the library, which is now being commenced under favourable auspices, will be an additional topic of congratulation, and gencrally it may, we believe, be said that rarely, if ever, has any meeting of the Association come into view under more agreeable, prosperous, and promising conditions than the groat meeting which is to be held at Glasgow in August.

The Association has met only twice before on Scottish ground, and each time in Edinburgh. Its first meeting in Edinburgh was under the presidency of the philosophic Alison, and its second meeting under the distinguished chairmanship of Sir Robert Christison.

The first meeting was coincident with the great political success of the Association in obtaining from Parliament the Medical Reform Act, which was the Magna Charta of registered practitioners, which swept away territorial limitations to corporate influence, which enabled for the first time Scottish practitioners to practise freely in England as well as on their own soil, while it established an equal supervision over medical education. The announcement of the passing of the Act arrived in Edinburgh at the moment of the meeting, and was welcomed throughout the country with great enthusiasm. The influence of the Association has but yesterday been exercised with equal adrantage in obtaining for the medical profession and for practitioners throughout the three divisions of the kingdom direct tepresentatives on the Council ; and the political influence of the Association, which has alrays been exercised for the benefit of the profession at large, apart from any indiridual corporate interests, grows day by day, under conditions which ensure that it will always hare equally popular aims and equitable uses.

We publish elsewhere an account of what will undorbtedly prove very attractive to the great mass of our members attending the meeting, and that is the excursions already planned to the unrivalled scenery of the Highlands, and the innumerable attractions of the meeting in the land of Burns and Scott. Few members, probably, will leave Scotland without becoming more intimately acquainted with the rare beauties of its mountains, glens, and lochs, and without visiting some, at least, of the historic spots glorified by the genius of Scott and consecrated by association with Burns. It is but reasonable to anticipate that such a meeting will not only serve the purpose of scientific progress and intellectual recreation, but that it will also tend to widen the basis of fraternal umion, and strengthen the bond of friendly intercommunication.

## OUR DISTANT BRANCHES.

"Ofiferque per orbem iicor" might be a very appropriato motto for the British Medical Association, as it is indeed a suitable badge for the whole of our profession. The distant Branches of the Eritish Medical Association in the Empire of India, and in the great Australian Continent, take to their worls in a rigorous and able manner, which plainly testifies to their vital energy, and to the wide sphere of usefulness which they successfully occupy. Inspiring themselres with the traditions of professional unity and public effort which are the
watchwords of our work in Great Britain, and arailing themselves of the free autonomous constitution which all our Branches enjor, the most distant Branches of the Association, whether in Jamaica, Britisl2 Guiana, or in the great dependencies, are addressing themselves rigorously not only to the cultivation of medical science and good fellorship, but also to the solution of the larger questions of social and sanitary administration, in which medical men when united-but only when organised and acting in concord-are able to exercise so powerful and valuable an influence.

Branches of the Association are now flourishing in Adelaide and South Australia, Melbourne and Victoria, Sydney and New South Wales; in the North-West Prorinces of India, and in South India and Madras (to which will shortly be added a Branch in the Punjab) ; in Canada (Halifax) ; Bermuda, British Guiana, Jamaica, and Ceylon. Bramehes are in course of self-formation in the Mauritius, Tasmania, Kimberly (South Africa), and Malta. The circumstances of snch Branches, the particular needs 'of the members for their mutual professional and social adrantage and for the public good, necessarily vary very widely in countries so differently placed as to the surrounding population, administration, climate, and social organisation. We publish in another column abstracts of two addresses by the Presidents of distant Branches of our Association, which will be read with great interest. Our pages frequently bear eridence of the valuable clinical and scientific work which is being done in these Branches.

The address of the Hon. Dr. J. M. Creed to the Sydney and New South Wales Branch (formed in IS80) was chiefly concerned with administrative matters, which he discussed in a spirit at once practical and scientific. A scanty population engaged in pastoral pursuits does not miss laws providing for the registration of births and deaths, or restricting the practice of medicine by imperfectly trained persons, and finds in quarantine the readiest defence against the importation of infectious diseases, which at othe worst can spread but slowly among a scattered people.

But in Australia these days are orer, and nowhere, evidently, is this more keenly felt than in Sydney, which," according to the most recent information at our disposal, contains, with its suburbs, a population of 300,000 . Dr. Creed, who, as a member of the Legislative Council, is intimately acquainted with the temper of the politicians of New South Wales, afforded in his address several illustrations of the difficulties which a young and growing community has to face when its urban population begins to assume large proportions.

One of the first and most pressing demands of sanitary reformers is an efficient system of registration of birtbs and deaths, for upon a knowledge of the prevailing forms of fatal disease sanitary enactments must, so far as they are not drawn from the codes of other countries, be based, and by it the success of sanitary administration must be tested. The registration at present in force in Now South Wales is rery imperfect, but there seems to be some prospect that the Legislature may sanction the establishment of a more efficient system. The whole of Australia appears to stand at the present moment in a peculiarly dangerous condition as regards small-pox; raccination is much neglected, chiefly it would seem owing to the absurd prejudices aroused by the clamour of the people called
"antivaccinationists." Theco seems to be no prospeet that a law naking vaccination compulsory could be passed in the presont stato of knowledge and political development in the colony, and the only remedy which can be suggested is the appointment of a special standing Commission to investigate every case of alleged injury following vaccination in the colony, and to report for the information of the public; in this way it is hoped that a healthier public opinion might grow up, and that in time it might become the rule rather than the exception for parents to have their children raccinated. At present the whole country lives in a state of constant dread of the importation of the disease ; the expenditure in quarantine stations, isolation, and inspection-the latter sometimes, it would seem, involving the use of a special train-must be considerable, but would of course be hardly worthy of consideration were there any good hope that such measures would be permanently effectual. People, however, who entertain such hopes deliberately take risks which they rould not dream of ineurring in ordinary matters of business; sooner or later the disease, as Dr. Creed said, will reach the country in a virulent type, will override the barriers raised by quarantine and isolation, and then it is to be feared that we shall witness" such an epidemic as that which devastated Montreal.

One other point of great local, and of some general, interest was touched upon by Dr. Creed, who sketehed the progress of the movement on foot to place the practice of medicine under proper regulations. At present the Australasian colonies appear to be overrun by untrained and incompetent practitioners who constitute a real danger to the general public, who are not able always to distinguish between knowledge and self-assuranco. We published last antumn some excerpts from the evidence given before a Select Committee appointed to inquire in New South Wales into the matter, but the tithe was not told, and the first offect of the publication of this 'evidence in the colony has been to convince leading men of all professions that some restrictions must be imposed which shall enable the public to draw accurate inferences. An important letter, signed lyy Sir Alfred Stophen,(Lieutenant Govornor), the Chief Justice, the Bishop of Sydney, Cardinal Moran, the heads of the other religious denominations, the Mayor of Sydney, and the President of the Chamber of Commorce, has been addressed to the Government, urging the necessity for immediate legislative action.

The topics which oceupied Surgeon-General Bidie, C.I.E., in "his presidential address to the South Indian Branch meet-' ing in Madras, were also questions of sanitary legislation and administration, but the problems to be solved in India are, if possible, of greater complexity. 'The Indian Medical Service, which supplies the sanitary advisers of the Government of India, has to deal with a teeming population, steeped, in ignorance and superstition, and ready to attribute the terrible devastation wrought by cholera, fever, and other zymotic plagues to the inscrutable decrees of fate. Dr. Bidie chose, a striking comparison to bring home to us the enormous mortality caused every year in the Madras Presidency by cholera, small-pox, fever, and bowel complaints. Ho showed that the actual deaths produced by that pastime of princes, called war, wore but a trifle numeically when compared with the mortality cansed in Southern India by these four classes of dis-
ease. He stated that, in the fifty years onding 1886, tho total losses to England, France, Germany, and Austria on battle-fields amounted to 368,000 , whereas the annual mortality from the above mentioned preventable diseases in the Madras Presidency alone was 339,000 . Dr. Bidie gives a deplorable account of the sanitary condition of the tuwns and villages studded through the country; by the filth and neglect of centuries they have been rendered terribly foul, and the people are only slowly being aroused to a consciousness of the consequences of their sanitary surroundings.

The statesmanlike character of Dr. Bidie's main proposal for remedying these defects will be generally appreciated. The first step must be to make the people themselves realise that the improvements must be carried out speedily, and that they must find the money; so far they have been treated too much as though they were paupers, and the habit of self-help has not been formed. India, it is said, absorbs about one-fourth of the gold and one-third of the silver produced throughout the world, and there is reason to believe that there is an enormous amount of dormant capital throughout the country buried in secret hiding-places, or locked up in useless jewellery. Dr. Bidie believes that if the people could be made to see the advantages of municipal and local improvements, this dormant capital might be utilised. He thinks that the capital necessary for carrying out such improvements might bo borrowed at 3 or 4 per cent. if the loan were issued in small bonds (Rs. 10). It is certain that such a scheme would have to be worked by very judicious officials if it is ever to be suecessful ; but there can be little doubt that if it could be floated, it would confer great benefits on the people, not only by the good effects produced by the public works undertaken, but also by facilitating loans to individuals and other financial and commercial transactions.

Dr. Bidie truly said that the efforts of the sanitary advisers of the Indian Government to exterminate cholera will be critically watched by the whole civilised world. How difficult the task is perhaps few of the critics understand, but Dr. Bidie is confident that his comrades will not shrink from the ordeal, and will do all that men can do. Still, men cannot work miracles, and the evils which exist can only be remedied by a judicious expenditure of capital, and by a plentiful stock of patience; the accumulated sanitary evils of centuries and the habits of scores of gencrations cannot be set right by legislative enactments. Unless the people can be won over to the side of the cnactments, but little amelioration can be hoped for.

Tur annual conversazione at the Royal College of Physicians of London will be held on Wednesday evening, June 27 th.

- Thrs second conversazione at the Royal Society, held on Weduesday evening last, was largely attended, and the ladies, for whose benefit it is mainly intended, were delighted by the exhibition of numerous scientific curiosities.

Tue discussion on the papers on "Electrolysis in the Treatment of Diseases of Women," which were read at the Obstetrical 'Society of London on Wednesday nigbt, June 6th, was adjourned t'o' a special meeting of the Society to be held at 8 F.M. on Thursdas, June 2lst.

We.regret to annoance the death of Mr. De Berdt Ilovell, ca June 5th. Mr. Hovell had left his home near Elstree to walk a short distance to the station, when be felt indisposed, returned home, and in a few minutes expired. In consequence of this sad ,event Mr.. Mark Hovell, who bas been in attendance upon the Emperor Frederick continuously since August last, has left Potsdam. .His place will be supplied by Dr. Krause.

THE QUEEN'S BIRTHDAY.
Tur medical officers to the Queen and her Household were well represented last Saturday at the ministerial and official banquets, Sir William Gull, Sir Prescott Ilewett, and Dr. Laking dined with the Lord Chamberlain'; Sir Edward Sieveking with the Lord Steward; Sir William Jenner with the Master of the Horse; and Sir Spencer Wells with the Duke and Duchess of Buccleuch (Mistress of the Robes). The Marchioness of Salishury's reception at the Foreign Office was attended by Sir James Paget, Dr. Laking, Sir Edward Sieveking, and Sir Spencer Wells.

THE COUNCIL OF THE ROYAL COLLEGE OF Tue election of three Fellows to fill the vacancy caused by the retirement, in due course of time, of Sir Joseph Lister, Mr. Cadge, and Mr. Bryant, will be held at the College on Thursday, July Shi, the ballot'to commence at 2 o'clock. Sir Joseph Lister bas positively decided not to offer himself for re-election; Mr. Bryant and Mr. Cadge will, we understand, appear in the field. It is probable that Mr. Pick (date of Fellowship 1866), Surgeon and Leeturer or Surgery, St. George's Hospital,will contest the vacancy. No provincial Fellow has as yet offered himself as a candidate. We may observe that all applications must be sent in to the Secretary of the College not later than Monday next.'

## MR. BRYANT.

On Thursday, May 31st, in the Anatomical Theatre of Guy's Hospital, a testimonial from the past and present students was presented to Mr. Bryant. The testimonial took the form of a handsome silver punch-bowl, with an illuminated book containing photographs of rarious.parts of the hospital, and the names of the subscribers. Mr. Drew, the senior house-8urgeon, in a few wellchosen words, presented these to Mr. Bryant, in the presence of the sisters and a large number of the-students. Mr. Bryant then returned thanks for the handsome gift, and for the kind manner in which it had been given; , he remarked that he hid not severed his connection with Guy's; that he had been a student there for forty years, and hoped to remain a student still. One of his chief $f^{\prime}$ causes of regret at leaving was that he would no longer mix with young men. Hé then gave $\mathbf{a}$ few words of advice to those present; telling thom not to rely too much upon their teachers, but to work for themselves. He concluded by expressing the hope that all would become successful members of the profession.

## A SOURCE OF INFECTION.

To obstetricians, who need to be constuntly on the look out for possible sources of puerperal septicromic infection, the following ease, revealing a' somewhat unusual, or at least uncxpected, source of danger, sent us by a correspondent, will have sone interest :-"A few moinths ago," he states, "1 confined a woman of her seventh child. Immediately after birth ahe developed unmistakable signs of so-called puerperal ferer, which rapidly terminated in death. During and after.the confinement I carried out the strictest antiseptic treatment.. Part of the post-partum treatment consisted in washing out the uterus with au antiseptic twice daily; for this purpose I used an ordinary II igginson's syringe, with large catheter attached. The catheter I provided myself, taking care to use one which had never been used for any purpose before. The syringe
my patient provided me with was a new one. At the termination of the case 1 advised my patient's friends to burn the syringe and the catheter, this being, 1 thought, the surest way to prevent the possibility of subsequent infection from their being given out on loan. Quite recently I learned upon inquiry that the catheter had been burned, but the eyringe had been "returned to the chemist" from whom it had been borrowed at a moderate charge per diem. The poorer classes are, it appears, in the habit of borrowing syringes in this way, and one at least of my professional neighbours sends his patients to the chemist to bire one vrhen be finds they cannot afford to purchase. It is not difficult to see how, under these circumstances, puerperal septicæmia may be spread. I bought from the chemist one of the two syringes he keeps on hire : the other he told me had not been returned. $\lceil$ ' Indeed,' he added, 'I lose on an average one in tlie month.' Although 1 put the one I secured beyond the possibility of future harm, unfortunately it is impossible to identify it as the one I used some months ago, which means that the stolen one is at large, possibly carrying with it puerperal septicæmic influences."

## EXPERIMENTAL RESEARCH.

A parifamentary paper just issued by the Home Office contains a report showing the number of experiments performed on living animals during the year 1857 under licence, distinguishing painless from painful experiments. The total number of persons licensed to perform such operations in England and Scotland was' 82 , all (sare one foreign graduate) graduates of a British university, or Fellows or Members of royal colleges. Of these, $6 t$ exercised their right. The buildings where such experiments are allowed to be made are 26 in number- 9 in London, 9 ;in the prorinces, 8 in Scotland. The number of experiments was 1,200, of which 582 were performed without anæsthetics. These were, with very few exceptions, simple inoculation experiments, and were consequently painless. Thel experiments were-physiological 237, pathological ${ }^{5} 03,3$ and therapeutical 280 . The number of cascs in which paind has been unavoidably inflicted during experiments conducted under certificates dispensing with anæsthetics, or with the killing of the"animal on recovery, was $71-2$ being physiological, 21 pathological," and 48 therapeutical. Comparatively few vivisections properly so called-that is, involving a distinct surgical operation on a living animal-were practised during the year. In all cases iu which such experiments have been performed under the certificate dispensing with the slaughter of the animal before recorering consciousness, it has been màde a condition that the wound should be renidered painless by antiseptic treatment, and, that failing, the animal should be destroyed. This condition has, the inspector believes, been faitbfully fulfilled. The animals on whom pain was inflicted were 2 corrs, 12 calres, 1 cat, 32 rabbits, and $2 t$ frogs. In Ireland there are only four persons licensed, and the experiments, Il in number, were all painless.

A REMARKABLE CASE OF NARCOLEPSY.
Dr. Caton has recently had a remarkable case of narcolepsy in the Liverpool Royal Intirmary. The patient was a man, aged 3\%. He would fall asleep while standing, when solling articles in his shop, or even when walking in the streets. If be attempted to read or to sit in a chair he, invariably fell asleep in a moment. During sleep a spasmodic closure of the glottis always took place, lasting nearly a minute. Yiolent contraction of the diaphragm and other respiratory muscles would come on, increasing in force, and the patient would ?get more and more cyanosed, until at length the riolence of the inspiratory efforts partially roused him, and the spasm of the glottis yielded. Loud noisy respirations would now come on, and the cyanosis would disappear, to be fol$1^{0 w e d}$ by deep sleep and the same round of symptoms. This con-
dition lias existed for six years, and constantly occurs by day and by night. When awake the patient is perfectly intelligent, and there is no evidence of organic disease. The kidnoys are healthy, and secrete sbundance of urea. Dr. Caton supposed that the symptoms were due to the formation of some narcotic alkaloid in the alimentary canal or the blood, and this view was strikingly confirmed by the results of treatment, most benefit being derived from a limitation of diet and the administration of charcoal and uaphthalin three or four times daily., Under this treatment the drowsiness diminished considerably, and the spasm of the glottis disappeared altogether, but when the treatment was suspended for some time the symptoms returned.

## MR. CHAMBERLAIN ON EDUCATION.

In his recent speech at Birminghata, on the occasion of the opening of a new board school, Mr. Chamberlain made some remarks worthy of attention. As is well known, Mr: Chamberlain has long advocated free compulary education under school boards, and in the speech to which we refer he dealt largely with this question, as well as with the present position of national and denominational schools. As a result of the analysis of statistics, arcumalated since the passing of the great Education Act, some very unexpected results appear. In 1871 the accommodation in denominational schools was a little over $2,000,000$; it is now $3,45=, 600$, an increase of about 70 per cent. The average attendance was then $1,231,000$; it is now $2,187,000$, an increase of about 75 per ceat. The grant in ail on the average attendance was then 10 a. ; it is now 17 s s, an increase of 70 per cent. It is thus seen that the national and denominational schools have not only continued to exist, but have grown enormously. This grewth of the sehools not under school boards is doubtless largely due to compulsory school attendance, and also in part to the existence of board schools, whose duty it is to receire all applicants, thas freeing the voluntary schools of many poor and troublesome children, who previously encambered the educational work of the teachers and lowered the standard of results. In many cases the creation of a board school in a parish, by receiving the poorer children of the neighbourhood, has enabled the managers of the voluntary schools to raise their fees, and give better educational advantages. This competition may lave its advantages, but it has certainly tended to crowd into many board seliools a high percentage of poor, neglected, and ill-developed ehildren. This is one of the reasons why we have often taken occasion to urge the public duty of inspection of board selwols by some authority capable of examining the children as to their physical condition, reporting to the Loard as to the nuraber of defective and feeble children who exist in every large school, and who are unfit to work in the ordinary curriculum under the Educational Code. As Mr. Chamberlain asys, there is no worse economy than atunting the education of the children. It is ignorant eliildren that grow into criminals and paupers; nn I wisely, therefore, he would rather spend $£ 10$ on the sehools than $£ 1$ on the gaols and workhouses. 'The argment might be extended to the policy of sorting out the children of feeble and defective brain power, and making due provision for their education in auxiliary elasses or schools, that they may not hecome paupers or criminals.

## the electric lighting of the parks.

In connection with the public feeling which has been arousell by the recent outrage in Regrent's Park, it may be hoped that official attention will be effectually direct d to the cuestion of rescuing the public parls from their $1^{r}$ sent onomulous condition as anlighted and unguarded sprices, which at night are keenes of nhstruction, dangur, aud demornulisation, instend of being areas of light and mueh-neeied recreation. To aid this result it may not be inopportune to republish the following extract from the address
delivered in 1884 by Mr. Ernest llart before the Society of Arts on the International Health Exhibition, its Influence and Possible Sequels:-"The practical demonstration which this exhibition, afforded of the eagerness of the English1 pecple to resort to healtbful means of ontdoor amusement was in itself a valuable result, and an important experience. The gardens, illuminated by the electric light and enlivened by music, were undoubtedly a great attraction......... 1 look upon this not merely as a means, but itself an end. It is no small thing to liare aequired the conviction that our open spaces may be, and should be, much more largely devoted to the open-air recreation of the people than they are at the present moment. I say this now, withoth any intention of entering upon that large question, but with the speeific desire to repeat (for it is only by repeating often that one can gain access to the minds of the majority whe are all porrerful in such queations) that it appears to me to be no small disgrace to this great metropolis that, in the very ceutre of its crowded districts, within an arrow's flight of the houses probably of most of us who are here, there lie great open spaces, such as Hyde Park (but what I say refers also to Victoria Park) which ar night are dreary desolate areas of darkness, which are unlighted, which are dangerous to cross, which are unused in the evenings for any wholesome or morsl purpose, which are often scenes for the display of some of the worst vices incidental to the lowest dregs of the population of the great City. Why should we not learn from the success of the music and the lighting of the gardens of the Health Exhibition, that our great parks should all be lighted by the electric light at night, and that throughout the spring and summer months the military bands should play there, and should make those places, which are now not only useless but scandals to the metropolis, the sites of healthful and innocent recreation? I have inquired from a good source what would be the cost of lighting Hyde Park by the electric light; and I am not speaking without data when I say that I believe that. Hyde Park could be adequately lighted with the electric light; ao that it might add to the resources of health and enjoyment for the teeming population surrounding it, at an amnual expenditure of about $£ 5,000$. Nor is it likely that the example once set, it would end here. Our Enstern population havea right to the enjoyment of their parks in the evenings that could be conceded to the West.".

## THE CAVENDISH LECTURE.

THE earlier part of Sir William Stokes's Cavendish Lecture, which we publish this week, deals with a point in the history of medicine which has already attracted the attention of more than one writer both in this country and abroad, but there was still plenty of room for the view which Sir William Stokes, ns a aurgeon who has observed adrances of his department during the present generation, has taken. Surgery has always been the handmaid of medicine, and however much individual practitioners may find it necessary to combine in practice the two departments of the one art, medicine may still, in one sense that is, in order of timeclaim procedence of surgery. The invasion by the surgeon of organs long beliered to be beyond his reach is largely due to increased precision in diagnosis. Without the work of Ferrier and of llughlings Jackson the surgeon would not know where and when to apply his trejphime, and until the physician's powera of diagnosis have been still more incrassed and refined, obscare cases हnch as those so well described by Sir William Stokes must occur to disappoint the surgeon. It hardly seems necessary for surgery at this time of day to be sensitive about old social alights, for not even the greatest stieklers for an antiquated etiquett: e a'd claim more for medicine than that it is primus inter pares. The real phenomenon of the present age is the elevation of the npothecary, and his evolution into the general practitioner; the whole complexion of the profession has, indced,
changed since a Court physician used to meet apothecaries at a cètain hour' at his coffee-house, and, after having symptoms described, advise as to the treatment of patients he had never seen, charging half a ghinea for his opinion. It is only by extreme subdivision of the field of practice, and minute study of some chosen subject, that the so-called pure physician can now maintain his position.

## OLYMPIAN WRATH.

The customary placid calm of the Athenrum Club has been rudely disturbed by cvents arising out of a proposal made at the annual meeting to put an extra storey on the building at a cost of $£ 20,000$. The proposal was almost unanimously rejected, though it was urged that this was the only means of checking the annual deficiency in the income of the club. Had it been carried it was proposed to elect 250 new members, but being lost a committee was appointed to investigate the canses which led to au excess of expenditure over income, and pat the snggestion of several members who thought that an able and business-like medical man would strengthen the Committee, the name of Surgeou-General Balfour,F.R.S., was substituted in the balloting list for that of an eminent Queen's Counsel. This selection has been cancelled by the Committee, on the ground that no notice of the nomination had been given; but as no such notice was required, and the election took place in strict accordance with the by-laws, we hear the case will be brought before the law courts.

## lectures at the royal college of SURGEONS.

We may remind our readers that 3 Mr . Bryant's two lectures at the Royal College of Surgeons on the causes, effects, and treatment of tension as met with in surgical practice, will be given on Monday and Wednesday next at 5 p.s., and the third lecture, on surgical interference in cranial injuries, on Friday at the same hour. Mr. Marcus Gunn's Arris and Gale lectures on light percipient organs will be given on corresponding days in the week following (June $18 \mathrm{th}, 20 \mathrm{th}$, and 2 nd ), at the same hour. The customary syllabuses have been issued.

## ENGLISH PRACTITIONERS PERMITTED TO PRACTISE IN SWITZERLAND.

As eminent london physician forwards us the following telegram, received to-day from Switzerlind (St. Moritz):-"AA law permitting a limited number of English 'doctors to practise has been carried by an enormous majority." Our correspondent adds: " 1 forward this telegram to show you the successful resuit of the efforts of the Brutish Medical Journal and its articles in favour of the English physicians. The law was carried in the Grosserrath of the. Grisons, the Sanitatsrath having recon1mended that a commission should be appointed to consider the conditious and the proposals for practice. So the English doctors are much iudebted to the British Medical Journal."

## THE ROYAL COMMISSION ON UNIVERSITY education.

The various bodies concerned in University education in London appear to be all husily engaged in giving or preparing evidence for the Royal Commission on the lligher Education in London. On Saturday last, Sir George Young and Mr. Erichsen attended on behalf of University College, and it is understood that representatives of King's College will attend the next meeting on this day (Saturday). A committee appointed by the Senate of the University of London has met, und has selected witnesses to give evidence before a future meeting of the Royal Commission. The Committee of Conrocation has also named representatives. The two Royal Colleges'jare'not idle, for'a meeting of the delegates was sum-
moned, at thirty-six hours' notice, to meet at the somershat unusual hour of 9 p.ss. on Friday evening, to consider a communication from the Royal Comimission."

THE CASE OF SEXTUPLE PREGNANCY.
It may be remembered that our Swiss correspondent last week mentioned an extraordinary case of multiple pregnancy which recently occurred at Castagnola, near Lugano, in Switzerland. A woman, aged 36 , wife of the local sindaco, was delivered on May 4th of six children-four boys and two girls-at a birth. They were born alive, though prematurely, but they all died in a few seconds. Their united weight was only three pounds thirteen ounees, and the length of their bodies, which were perfectly wellformed, varied from $8 \frac{3}{4}$ to $10 \frac{1}{4}$ inches. The case, which is said to beat all prerious authentic records of human fecundity, is vouched for by Dr. Francesco Vassalli, of Lugano, who attended professionally on the accasion, assisted by Drs. Bianchi, Reali and Solari, of the same place. Dr. Vassalli has reported the case in detail in the Gazeetta Medica Italiana-Lombardia of June Ind, and an abstract of his account may be interesting. It has been stated that the woman had previously borne seven children in two batches of four and three respectively, but this is inaccurate She was married only two years ago to a widower, aged 41 , who had ten children by his first wife. There were no twins among these, but it appears that he has five cousins-brothers-each of whom is the father of twins. A sister of the patient has also borne trins on one occasion. The patient herself in the first year of her marriage liad a boy who is now fifteen months old and in perfect health; she suckled him for eleven months, when she became a ware that she was again pregnant. The catamenia had reappeared in the seventh month of her nursing, and the last period began on December 4th, and lasted six or seven days ; conception must therefore have taken place in the early part of January. The patient suffered severely almost from the first from weakness of the legs and vomiting. and in the fourth month the abdomen was as large as it usually is at full term. On the morning of May th (being about the 115th day of pregnancy) whist doing some light outdoor work, she felt a sudden desire to empty her bowels, and, on squatting down for the purpose, there was a gush of hot liquid from the vagine, which she recognised as amniotic fluid. She immediately went home, walking with much difticulty, on account of something which she felt protruding from the vulva. I neighbour was called in, who found a tiny fotus hanging by the foot, which was speedily delivered. All this occurred within a few minutes. Dr. Vassalli was then summoned, and found the os only partially dilated, whilst an unruptured sac could be felt through it. There being no urgent symptoms, the patient was kept quiet, and, after passing a fairls good night, she got up the next morning to attend to her household duties, feeling quite well. Towards mid-day, pains came on with increasing violence, and she lost a good deal of blood. Seeing that abortion was inevitable, Dr. Vassalli thought it advisable to hasten delivery. He therefore punctured the membranes, and extracted a small foetus by the foot. After tying the cord, he followed up the placental end with his right land, till he came to another sac of fluid; this he also punctured, and delivered a third foetus. Two more were extracted in the same way, the whole proeedurc occupying two 'lours. Fresh hemorrhage now' occurred. and the uterus did not contract. Dr. Vassalli therefore tied all the cords tagether, and made gentle traction, at the same time applying pressure to the womb. This failing, he introduced his hand into the uterus, and tried to bring away the placenta, which, however, he only succeeded in tearing, with the result of making the bleeding more alarming. Having no hæmostatics at hand, he sent for assistance, keeping his hand in the uterus meanwhile as a plug. It was four hours before help arrived; the
after-lirth was then got away with some difficulty, a sixth fretus euveloped in its own membranes being found attached to it. The patient bore the trying ordeal very well, and made a good recovery. The heads of the feetuses were rather large relatively to the bodies, and the eyes were covered with the pupillary membrane. The genital organs were completely differentiated. There was only one placenta. The specimen has been placed in the musenm of the R. Scuoln Ostetrica, at Milen. Dr. Vassalli calls attention to the curious fact that Castagnola is rather remarkable for multiple births. From the official registers it appears that in a population of 585 , from January 1st, 1876 , to May 10th, 1888 that is, 13 years and 4 months-there was a total of 247 births. Of these 228 were single, and 19 multiple, the latter consisting of $\overline{3}$ eases of twins, 1 of triplets, and the present one of sextuplets. The proportion of $t$ win births, therefore, was 1 in 45, instead of Schröder's estimate of 1 in 89 ; and of triplets 1 in 298 , instead of 1 in $7,910$.

ANTHRAROBIN, A SUBSTITUTE FOR CHRYSAROBIN. Dr. Behrend (Tiertl. f. Derm. u. Syph., 1888, 2 IIeft, p. 261) has made experiments with a substance discorered by Irofessor Lieberraann, of Berlin, named anthrarobin, which has an analogous action te that of chrysarobin and pyrogallic acid, being less active than the former and more active than the latter. It produces less inflammatory irritation than chrysarobin, and does not present the dangers of absorption which attach to pyrogallic acid. In dispensing it requires to be rubbed up with olive oil before being mixed up with the ointment basis. Ten and 20 per cent. ointments are used. Although it is insoluble in water, it becomes soluble by the addition of horax, and is also very soluble in alcohol and glycerine. Anthrarobin 10 , borax 8 , distilled water 80 , is one formula; anthrarohin 20 , borax 35 , alcohol and glycerine each $m$, is another formula. Anthrarobin stains the skin and linen, although not so intensely as chrysarobin, and so little irritation does it produce that it may be applied to the head and face, and eveu to the eyelids. The alcoholic tincture is preferred to ointment, and the action of this substance is much increased if the part is washed with soap, particularly potash soap, before it is nsed. It acted successfully in cases of psoriasis and erythrasma. it cures psoriasis less quickly than chrysarobin, but more quickly than pyrogallic acid.

## SCOTLAND.

EDINBURGH PATHOLOGICAL CLUB.
Tue Edinburgh P'athological Club, one of the most recent developments of scientific activity in Edinburgh, has increased its membership from twenty-five to thirty. The increase was made in consideration of the long list of applications for admission. Nembers are selected by ballot.

## FAITH-HEALING AT DUNOON.

The committee of the Dunoon Parochial Board, appointed to investigate this case, has presented its report, and fully corroborates the statements formerly made. The patient was prayed over and anointed with oil to cure her of paralysis, but became mad through religious excitement, and had to be remored to the asylum at Lochgilphead, where she still remains.

## GLASGOW SOUTHERN MEDICAL SOCIETY.

THe last meeting of the session took place on May 31st. The l'resident (Dr. MeMillan) described a case of elronic cystitis in a young man, caused by the introduction of parafin wax into the hlalder. Lithotamy was performed, and parafin and phosphatic culculi removed. Assisted by Dr. McIntyre he had illuminated
and examined the interior of the bladder with Leiter's cystoscope. This instrument was then shown to the Society by Dr. Mcintyre. Dr. McIntyre also showed a ruptured popliteal aneurysm, for which amputation of the thigh had been performed by Dr., W. J. Neming. The limb was much swollen by effused blood. The popliteal vein was completely occluded, and was adherent to the wall of the aneurysm. The patient had valvular heart disease, and a large aneurysm of the abdominal aorta. Dr. Erskine showed a sequestrum from the ear, consisting of the complete cochlea and some small fragments of the adjacent bone.

SANITATION OF THE MILK SUPPLY.
The Glasgow Dairy Company, Limited, appears to be carrying on a well-organised effort to open throughout the city of Glasgow branches for the supply of milk and its products of guarantced purity and excellence. The arrangements are under strict medical and sanitary supervision. A few years ago the milkshops in populons districts were in keeping with the insanitary surroundings of the farmyards and byres whence the supply came. These, it is said, are now giving place to shops where the trade is carried on not only with the requisite degree of cleanliness, but with surroundings which are pleasnnt to the eye and of primary necessity when dealing with dairy products. The arrangements for safeguarding the supply adopted by the Glasgow Dairy Company provide for the collecting of the milk in pitchers, which are then strained and subjected to a course of refrigeration before delivery. All vessels are washed and cleansed by hot water and steam. The medical officer is Ur. Robert Bell.

## WORKMEN AND THE VICTORIA INFIRMARY, GLASGOW.

At a meeting of workmen employed in the ironworks on the south side of Glasgow, a movement was set on foot for obtaining for working men some voice in the management of the lnfirmary. Dr. Wallace, of Cardross, who addressed the men, explained the arrangement prevailing in Sunderland, where a penny per week or fortnight is given up out of their wages by the men. A fund is thus formed, under the control of a committee of the men, and payments are made out of the fund to the various charities, the inen haring also the privilege of electing representatives to the Infirmary Board of Management. The meeting approved of the proposal. Similar meetings are about to be held in connection with other works, and the scheme will shortly be put into operation.

## GLASGOW SICK CHILDREN'S HOSPITAL.

THE dispensary in connection with this hospital is now rapidly approaching completion, and will soon be ready for the admission of patients. It is a handsome stone building, and will be admirably adapted for its purpose. In planning the internal arrangement, the architect has been very successful in his endeavours to simplify the work of the attendants and prevent confusion of patients. The central part of the building is a large octagonal hall or waiting room, and around this hall the various other departments are arranged. Patients will be admitted at one end of the building and pass out at the other. In a small entrance hall the cases will he registered and classified as medical or surgical, and will then be admitted to the waiting room, the medical on one side, the surgical on the other. The physicians' and surgeons' rooms are at opposite sides of the hall, and patients after having been attended to will not return to the hall, but will pass on to the apothecary's department. There the two streams of patienta will again meet, and having received their medicine, pass out of the building. All the rooms are large and well lighted, and will be fitted up regardless of expense. The angles of the rooms, at ceilings and floors, are rounded off to prevent the lodgment of
dust, and facilitate cleaning. As little wood-work is used as possible, free use bcing made of glazed cnamelled bricks. The front part of the building consists of two storeys, and on the upper floor there is a committee room, sewing room, and other
apartments. Outside of the main building there is a caretaker's housc. In riew of the early opening of the dispensary the directors of the hospital are now adrertising for three physicians and three surgeons for this department, and numerous candidates are already in the field.

THE CHURCH OF SCOTLAND AND THE CONDITION OF THE POOR.
Dr. J. B. Ressell's lecture on The City in which we Live, published under the title of Life in One Room, some of the etriking facts of which we queted in our issue of March 10th, last, has attracted marked attention in high ecclesirstical circles. The General Assembly of the Church of Scotland, which has been holding ite usual convocation in Edinburgh, has been invited by the Presbytery of Clasgow to give more attention to the condition of the people. The Glasgow Presbytery asked the Assembly to consider the misery and degradation in which a large percentage of the population of large cities lived, and declared that it was specially the duty of the Church of Scotland to care for the whole population, and to labour for their physical as well as their moral and spiritual well-being. They went on to urge the duty of the Church to derise new methods to aid in obtaining, for the poor, improved sanitary conditions and better dwellings, and in providing reading-rooms and other counter-attractions to intemperance. Dr. Donald Macleod, brother of the eminent Glasgow surgeon, referred directly to Dr. Russell's lecture, and noted that the number of people living in one-roomed houses, 126,000 , was very close to the estimated numbers of non-churchgoers, 120,000 . He considered it the duty of the Church to take up the question of the dwellings of the poor, and to create a public opinion on the subject which might issue in action of some kind. The Assembly enjoined Presbyteries to take what practical steps seemed to them possible and desirable, and resolved to issue a pastoral letter to the people, setting forth the duty incumbent upon all classes of society of co-operating in a united effort to amend a condition of
thing thinga most injurious to the interests of morality and religion. If this be not a mere spasm of emotion which has passed over the Assembly, it may be the begiuning of a movement destined to operate most beneficially in the interests of the physical well-being of the poor classes of the community, especially in large cities.

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THE RECENT EPIDEMIC OF SORE THROAT IN
    EDINBURGH AND ITS RELATION TO THE
                        MILK-SUPPLY.
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Ar the mecting of the Edinburgh Medico-Chirurgical Society on Wednesday last (June Gith), Dr. G. Sima Woodhead and Mr. J. M. Cotterill read a paper of much interest on a curiously limited epidomic of sore thront, and suggested a relationship with the milksupply. Mr. Cotterill was called to attend successively a large number of cases of sore-throat, occurring in an educational institution in the city. The grouping of the cases raised the suspicion of infection from a common source, and, after careful exclusion, Mr. Cotterill came to the conclusion that the mischievons factor was to be found in the milk-supply. This was accordingly suspended, when the sore-thraat epidemic quickly disappeared. When the milk was recommenced sore-throats of a sinuilar use, when the epidemic similarly yielded. Dr. Woodhead's attention was accordingly called, and he instituted a careful examination into the condition of the cows from which the milk-supply in question was obtained. Most of the animals showed unmistakea ble signs of cow-por in the scab stage. One cow, which had been

8cparated from the rest as specially healthy, and whose milk was devoted to the use of a hand-fed child, showed similar appearances. On inquiry it was discovered that the child, too, as well as other persons who had partaken of the special milk, suffered likewise from sore-throat of similar character. The elinical evidence thus appeared atrongly to support the view that the milk was the medium of infection from the discased animals. Dr. Woodhead then undertook a series of cultivations and inoculation experiments. He examined the matter from the teats of three of the diseased cows, and found streptococcus pyogenes in all ; further, a very small bacillus in the discharge from two, and several other organisms in that from one. In the matter from the tonsils he discorered the streptococcus pyogenes, the slender bacillas, and a very small micrococcus. In two instances there was found, in addition, the short thick bacillus. By cultiration from these, and from the milk, no less than fourteen distinct organisma were separated. Of these, four were common to the milk, to the discharge from the sores, and to the tonsils, while seren were found common to the milk and the sores. It is possible that some of the others may be found common to the three sources, but so far they hare not yet been obtained pure. Inoculation experiments were conducted on rabbits with the several pure cultivations whose deriration has been detailed. The results so far obtained hare been entirely negative, the staphylococcus pyogenes amongst athers not producing any effect, except a rery slight amount of swelling and transient redness at the seat of inoculation. 1 noculation ras made by means of subcutaneous injection into the rabbit's ear.

## IRELAND.

DEATH FROM HYDROPHOBIA.
A man named Ifarman died last Saturday, June 2nd, in Barrington's Hospital, Limerich, from hydrophobia. About threo months ago, deceased was bitten in the hand by a stray cat, but no symptams of the dread malady superrened until the evening of May 30th.

BELFAST ROYAL HOSPITAL: QUARTERLY MEETING. Tine usual quarterly mecting was held at the hospital upon Jay -3th, Mr. T. McClelland, J.F., presiding. The staff reported that luring the quarter 532 interu patients had been treated, 88 operations had been performed, and the extern patients numbered 3,124. The financial report showed that the balance against the hospital, which was $£ 823$ at the end of the last quarter, was now £ 869 . Two bequests, amounting to $£ 1,000$, had beell received and invested on behalf of the hospital. Dr. Mackisack had during the quarter succeedcd Dr. Dunlop as house-physician.

## CORK DISTRICT LUNATIC ASYLUM.

A special meeting of the governors was held recently for the purpose of taking into consideration the inadequate accommodasident the asylum at present. From the report of Dr. Drser, Reinmates in the asymerintendent, it appears that they had 108 included the hospitals. Shour certificated accommodation which tains 100 patients, there would be close on 200 patients over the certiticated accommodation. Dr. Dwyer suggests that, when the additional building is constructed, it might be rorth trying. in a small זay, to copy the admirable institutions, the Royal Scotch Asylums, by converting a portion of it into accommadation for a better class of patients, whose friends would be prepared to pay according to the comforts bestowed on them. This would be a hoon to prople who object to private asylums, and the rates would not suffer, as they would more than defray their annual expenses.

After diseussing the matter, and inspecting the sites proposed, the governors direeted plans to be prepared for tho erection of the huilding, to contain 300 persons, with one side for males and one for females.

## THE GALWAY INFIRMARY.

We are informed that the legal position with regard to the Surgeoncy to the Galway lufirmary was misrepresented in a paragraph published in the Journal of June 2nd, page 1179, in so far as it was stated that the decision of the Court of Queen's Bench had rendered a new election necessary. Dr. Kinkead contends that the effect of the order is to validate his election, and has instituted proceedings to obtain a mandamus to place him de facto as well as de jure in passession of the appointment.

## outbreak of rabies.

Prompt and vigorous action is now being taken by the palice to check the spread of rabies which broke out some time ago in Tuam, and has lately spread with alarming rapidity. Many persons are said to have been bitten. On May 21st, a man who was fearfully lacerated by a rabid dog, which was ultimately destroyed, was with commendable activity on the part of the guardians despatehed to M. Pasteur for treatment. The magistrates, on being made acquainted with the serious nature of the outbreak, issued special instructions to the police at the Belelare Barracks, who forthwith proceeded to every farm in the division, and shot all the dogs they could find. Anather outbreak of rabies is reparted from co. Armagh.
ROYAL MEDICAL BENEVOLENT FUND OF IRELAND.
The forty-sixth annual meeting of the Royal Medical Benevolent Fund Society of Ireland was held on Monday, June 4th, in the King and Queen's College of Physicians, Dublin; Dr. Little, President of the College, in the chair. From the report it appeared that the fund had suffered from the general depression, while the claims for relief had risen from 91 to 97 . The grants amounted to $£ 1,284$, making a sum of $£ 34,715$ which had been distributed by the Society. A special "Jubilee" fund of $£ 129$ 2s. had also been distributed. Mr. Thomson, Honorary Treasurer, submitted the statement of accounts, from which it appeared that the income was $£ 1,6085 \mathrm{~s}$. 11d., and the amount in bank stoek $£ 6,2350$ s. 6 d ., which at present rates represents $£ 18, i 86$. The usual resolutions were passed, and the officers were elected for the ensuing year.
royal college of surgeons, ireland.
The annual plection took place on Monday, when the following were chosen for the ensuing year:-President: Tlenry Fitzgibbon. Vice-President: Austin Meldon. Sccretary: William Colles. Council: William Colles, Sir George Porter, George II. Kidd, Rawdon Machanara, Edward IIamilton, Robert M'Donnell, J. Kellock Barton, Philip Crampton Snyly, Edward II. Bennett, Anthony IIagarty Corley, Sir William Stokes, William Stoker, William I. Wheeler, J. Bellew Kelly, William Carte, Sir Charles A. Cameron, R. Theodore Stack, Kendal Franks, John lienjamin Story, Richard Francis Tobin. There were two candidates for the Vice-Presidency, Dr. Neldon and Dr. Frazer, the former being successful. Mr. Stack, Mr. Story, Mr. Kelly, and Mr. Tobin are new men. Mr. Corley, the outgoing President, headed the list for the Council, and it was felt that the vote of thanks to him for his conduct during his year of offico was very well merited.
Treatment of Eczema br Cold Powders.-Dr. Velel, in a paper on the trentment of eczema (Monat.f. Prakt. Derm., I888, p. 181), speaks highly of the sonthing effects to be obtained in acute cases without exudation by the application of cold dry starch powder. Gauze bags filled with the powder are applied to the part, and kept cold hy being covered with indiarnhter bottles filled with ice and salt, which were frequently refilled.

ROYAL COLLEGE OF SURGEONS, IRELAND.
THe annual meeting of the Royal College of Surgeons, Ireland, was held on Saturday, June 2nd. Dr. A. H. Corley, President, occupied the chair.

The report from the Council, an abstract of which has already been publishod (No. 1431, p. 117 ) was read.

Dr. Carte bore testimony to the laborious duties of the Council during the past year.
Mr. Thosson hoped that the Council would again try to divert the Carmichael prize fund into some more useful channel. The essays on Medical Education, which were periodically printed at great expense, were never read by anyone.
The President explained that at least one of the trustees of fered strong opposition to the diversim of the fund to any other purpose. When the prizes were not awarded, and there was any balance on hand as a result, a sum had been handed to the Medical Benevolent F'und.
The report then passed.
Mr. Wr. Thosson then brought farward the mation of which he had given notice, namely:-
"That the Council of the Callege having failed to carry into effect the recommendation of the Fellows adopted at the annual meeting in June, 1887, namely: 'That it he recommended to the ineoming Council to take the opinion of the Fellaws by letter on the question of biennial presidency, as suggested in the resolutions of Council of March 17th, 1887, and of June, 1893, and that a meeting of the Colkege be then called to consider the matter;' it is herely resolved that the declaration of the Fellows, that a President of the College may hold office for two successive yenrs be re-affirmed; that this rule shall take effect from June, 1890 ; that the Fellow who may be selected as President at the annual election in that year may so hald his office for two years; and that it be a recommendation to the Council to take such steps as may be necessary to give effeet to this resolution."
IIe said the Council had failed in its duty to the College in not obeying its recommendation. Everyane admitted that chang was neeessary, but from the inaction of the Council a further period must elapse, during which the present bad nrrangement must continue. Hle was prepared to aceept any plan which would mable them to get the best men for the dignified position of the chair. That honour ought to be the reward of a life of professianal activity and eminence; but there seemed to be a desire with some to reverse the natural order of events; sometimes the chair was taken by men who wete not out of their profescionnal teens, who had made no name by their works, and who rather sought success throngh the presidency. In saying this he only repeated what the Fellows said individually, and it was due to themselves to put an end to the system. In London, where there were plenty of men fitted to till the office of President, the chair was occupied by the same person for more than one year, and it was absurd that in a city like Dublin they should have a change every year. An Ex-l'resident should be raised above the rank and file ; but at present he really went hack to the ranks as soon as he left his office. He urged upon the Fellows to pass a resolution which would be effective in diminishing in some degre the evil of which they all complained.
Dr. Martin (Portlaw) seconded the motion. He said he had on a former oceasion strongly opposed it, but he had since been converted to the necessity of such a change.
Dr. Thornley Stoker supported the motion.
Dr. Carte and Dr. Kidd suggested that a mation should be passed referring the subject to the Council, asking them to submit a sclieme to the College at an early date.
Mr. Thomson aceepted this suggestion, and a mation to this effect was unanimously prassed.
The Presment expressed his cordial approval of the principl set out in the resolution. He had brought it before the College himself in 187 t, when he was in a uninority of tliree. He was glad to see that the l'ellows were now in farour of a principle which he had then unsuccessfully hrought forward.
Dr. F. Hasmltox suhmitted a motion rescinding the resolution of the special meeting of the Fellows in favour of the amalgamation of medical schools.
Mr. Thosmon rose to order. He suhmitted that no notice had heen given of an intention to propose this motion, which was now spring upon them.
The Presinest pointed out that if a precedent were established now by allowing the motion to be discussed, it would be
a most inconvenient one, and he hoped Dr. Hamilton would withdraw it.
Dr. Kidd protested against a motion of this sort being sprung upon the meeting.
Dr. Hanultor said the special meeting was not, a legal one. The Fellows had not been sulticiently informed of it.
The Presioent said he would not have summoned an illegal meeting.
Dr. Himilots said he had achiered his purpose in the discussion, and he would withdraw the motion.
The proceedings then terminated.

## IRISH MEDICAL ASSOCIATION.

TuF 49th annual meeting of the Hrish Medical Association was held in the Royal College of Surgeons, Dublin, on Monday, June 4th, Mr. H. G. Croly in the chair.
Dr. Chapman, Honorary Secretary, read the report, which stated that the Council were full of hope that the Government would next session introduce a Bill proriding retiring allowances as a matter of right to worn out and disabled union officers. On the subject of medical witnesses at inquests the report states:-
"Dr. Whyte, Coroner for Dublin City, kindly attended a meeting of the Committee of Council, when the subject was discussed at much length, when the following suggestions were agreed to. Some one or more medical gentlemen specially skilled as pathologists, and accustomed to make post-mortem examinations, who are good witnesses and thoroughly enjoy the professional as well as the public contidence, should be appointed by the State in cities and larget towns, to be called on by the coroner when required. A medical gentleman who sew the deceased person at or shortly before death, or who was in attendance on deceased, ought to be called upon by the coroner, provided he can gire eridence of any value or in any way material to the case: but in order that the ends of justice should be met. an expert should be always a vailable to make a post-mortem examination in the event of the other medical witnesses not being such. Your Council consider that the State should be memorialised to empower a joint committee, . equally represented by the Irish medical authorities, to appoint for Dublin city and the other cities and large towns of Ireland a medical gentleman in each, qualified to act as expert medical witness at coroners' inquests; and that the coroner or the rjury should have power to require his services when deemed necessary or desirable."
"In the annual report, adopted on June 7 th, 1888 , is to be found (at p. 159 et seq.). a copy of a. letter addressed by the Council of this Association to the Local Government Boaril, remonstrating at the restrictions with regard to revaccination which a short time preriously had heen imposed by that Board in their new issue of regulations, trich, notwithstanding, remain unaltered. The dificulties forecasted in that remonstrance have occurred in those neighbourhoods since visited by small-pox, and several dispensary medical officers, unaware of those restrictions, but actuated by a commendable desire to check the syread of that loathsome diseaso, at some inconvenience and expenditure of time revaccinated all persons who applied to them for that purpose, irrespective of their ages. Amongst the persons revaccinated were a small proportion of children under 12 years of age who did not bear eridence of sufficient protection against susceptibility to small-pox, judging by the cicatrices which resulted from primary vaccination. Yoir Coincil consider it advisable that the limit of age, or rather of youtbfulness, for revaccination under ordinary circumstances, slould be tixed at ten years, and at seven years when there is immediate danger of small-pox. With reterence to che
recent appointments of meedical gentlemen to high official positions in public departments, yonr Council have received many letters from members of the Association protesting against the selection ty Government of gentlemen not actually holding office in those departmeuts. They trust that in future a preference may and fitness still in the service, who are applicents for the office, instead of to others who, no matter how fit or able they may be, either have never held office in the department, or have, on promation to some other more incrative positions, ceased to belong to the purticular branch of the public service in which an important office becomes vacant."

The report was adopted.
On the motion of Dr. Thornlegy Stokre, seconded hy Dr. PolLock, a motion was carried condemning the present system, of
supplying dispensaries with drugs by contract, and suggesting that there should be a central depot for supply.
The result of the ballot ras then declared as follows :-
President: Andrew K. Young, Esq., Monaghan. Vice-Presidents : Leinster, Dr. Z. Johnson, Kilkenny; Cister, Dr. F. Carte, Letterkenny ; Junster, Dr. F. G. Mayberry, Kenmare ; Connaught, Dr. J. O'Kelly, Ballinasloe; Drs. St. George Ashe, J. W. Boyce, R. Browne, William Carte, J.P.: A. II. Corley, H. G. Croly, Albert Croly, F. J. Darys, Edward Hamilton, W. J. Hepburn, A. H. Jacob, Darid Jacob, J. B. Kelly, J. Dillon Kelly, G. H. Kidd, R. J. Kinkead, G. J. Mackesy, James Martin, A. Ok . Iolan, T. Purceli, J. Ridley, W. Thornler Stoker, Tagert, William Thompson, Csher, William Wheeler. Fonorary Secretary: Dr. Chapman. Honorary Treasurer: Dr. Minchin. Auditors: Dr. Henry W. Dulton and Dr. Arthur H. Benson.
The new President then took the chair, and expressed his sense of the honour conferred on him.
Dr. Delahoyd moved:
"That the restriction imposed by the Local Government Board with regard to age for reraccination is unsatisfactory, from a public health point of viers, and is opposed to the requirements of some Government departments, factories, and schools. That in the opinion of the Irish Medical Association the age for revaccination under ordinary circumstances ought to be ten years, whilst in the presence of an epidemic of small-pox the age ought to be be fixed at seven years.
Dr. Green seconded the resolution, which was agreed to.
In the erening the annual banquet was held.

## PROVISION FOR MEDICAL MEN, AGALNST SICKNESS, ACCIDENT,-ETC.

Ar the monthly meeting of the Executire Committee of the Medical Sickness, Annuity, and Life Assurance Society, held on Tednesday June 6th-present, Mr. Erxiest Hart, in the Chair, Dr. de Havilland Hall, Mr. S. W. Sibley (Treasurer), Mr. F. Wallace, Dr. M. Greenwood. jun.-after the transaction of the usual business and the passing of payments to sick members of $£ 170$ for the past month and an insurance claim of $£ 200$, the Chairman made a short statement as to the affairs of the Society. Although the financial year of the Society would not close until the end of the current month, sufficient was already known to prove it had been one of a rery prosperous nature, whether tested by the numerical increase of members, the accumulation and investment of funds, or the important work of payment of sums during the iliness of the members. It would be found that about 130 new members had joined during the year-a number abore recent averages. This indicated the continuous and steady growth of confidence in the work of the Society. Though, of course, there had been some lapses, anü, nnfortnuately, sereral deaths among the members, they could already look forward to a time in the near future when they might confidently count on having an effective membership of over 1,000 . With reference to the reserves, ther might anticipate an addition to the investment of at least $£ 7,000$ on the year, and might count on a total by the end of the current month and close of the financial year of $£ 25,000$, which had been and was being invested in the most remunerative manner consistent with principles of the highest financial security. The importance und great professional value of the distribution of sickness pay suade by the Society would be at once apparent from the fact that the year's work would probably show disbursements under this heal of about $£ 1,800$, paid to considerably more than 100 claimants, while the claims still remain below the ratio of sickness provided for in the tables. They were of a character which abundantly proved the urgent need for the Society; and were very interesting from their diversitied character and the proof they afforded of the liability of medical men to certain risks impossible to foreseo or to avert. Thus, payments to members had been made during the year in fifteen cases of accident, totally disabling from practice, sone of them of a very severe nature. One was a particularly striking case, the accident having happened to a member during the first six months of bis membership, and forming the foundation of a claim under which he had receivel over 100 guineas, having sustained a compound fracture which disabled him for sereral months. Then there had been payments made in respect to nine cases of fever, some of them of a severe character. There had also been a number of cases of affections arising from. chill and exposure to which, particularly in the
winter, the practitioner was necessarily peculiarly liable. While the great majority of cases were, happily, of temporary disablement the Society lad already experience of that severe class of illness which developed into practically incurable maladies, and in those cases had been able to do good and useful work by the payment of what was really a permanent allowance during the remainder of the life of thic afticted members. It was an essential and useful part of the work to be able to deal effectirely with sueh cases. Several insurance claims had been met by immediate payment in full and without any deductions such as insurance societies sometimes made in such cases. Thus it would be seen that the work of the Society on behalf of the profession was progressing most successfully and benefieently, and that the good sense and self-respect of the members of the profession were leading them, in increasing numbers, to provide against the calamities of illness, aceident, or permanent disablement, against which, till now, they had no means of effectually providing, and which had reduced so many to great straits, and had caused others so much severe anxiety during periods of illness, when above all times their minds should be free from such pain and pre-oceupation,

Prospectuses of this Society, proposal forms, and all particulars may be obtained, free of cost, from the Secretary, Mr. C. J. Radley, 26 , Wynne Road, Brixton, London, S.W.

## the volunteer medical service.

O.x Tuesday last an influential deputation of medical men conneeted with the Volunteer Service had an interview with Mr. Stanhope at the War Office, in order to draw his attention to the insuffieiency of the medical organisation of the force, and to the anomalous position in which the medical officers at present stood. Mr. Stanhope was accompanied by Surgeon-General Sir Thomas Crawford, Director-General of the Army Medieal Department. Colonel Howard Vineent, C.B., M.P., introduced the deputation.

Surgeon-Commandant Norton, of the London Volunteer Medical Staff Corps, stated that the Folunteer Medical Service was really without any organisation, thougli several attempts had been made to bring the medical officers together. It was to be hoped the Volunteers might never be called upon to go into action, but, if there was any just reason for organising the force, there must be equal reason for organising its medical staff. He would not suggest any scheme to the right hon. gentleman, but would ask him to allow the appointment of a committee, with some rolunteer medical officers, who should formulate a system of organisation.

Dr. W. R. Smirti, 3rd Volunfeer Battalion West Kent Regiment, pointed out many defects in the present arrangements.
Mr. Staniope, in reply, said he recognised the extreme importance of the matter which lad been brought before him. The deputation had pointed out various anomalies and deficiencies which existed, and he would say at once that he had been discussing the matter with his adviser, Sir Thomas Crawford, and thought it would be best to appoint a committee to consider all the points connected with the olunteer medical organisation.

Mr. Norton and his colleagues will, no douht, take care that their good-will is not used to force the hands of their colleagues in the Regular Army Medical Department-a rather serious congideration, seeing the way in which the War Office is now dealing with that Department.

## DR. MEADOWS MEMORIAL FUND.

A meting of subseribers of this fund was held at 38 , Portman Square on Saturday afternoon, May 26th, when the following were present:-Mr. Josepls Anderson, Mr. George Baird, Rev. F. l'arry presnett, Rev. R. C. F. Grifith, Rev. J. M. Mindson, Mrs. Leith. Mr. J. M. Macdonald, Misa Palmer, Sir Edward Sieveking, and Mr. W. J. Spratling; Mr. James Watson was in the chair. It was announced that the amount of subseriptions was $£ 219$ ifs. Gd., which, after derlucting £3 16 s . 8d. for printing and incidental expenses, left £215 19s. 10d. nt their disposal. Mr. Watson referred to the objects which had been put forward in the circular as being suitable as a memorial, and for which subscriptions had been invited, namely, a carved wooden lectern, a carved wooden pulpit, or (if funds sufficed) a peal of bells. These, it was observed, were all objeets which Dr. Meadows (who had done mueh for Colnbrook and the Pariah Chureh during his residenee at Porle) had greatly at heart, and wished to see introduced had his life been spared, and therefore oblects very agreeable to his family. A reaolution, proposed by Sir Edwarti Sietering to the effect that a carved
wooden pulpit be presented to the Parish Church at Colnbrook, was carried unanimously, and a committee was appointed to carry out the work at a cost not exceeding £120. It was proposed ly Sir Edward Sievehing, and seconded by the Rev. F. Parry, that the residue of the money subscribed for a memorial to Dr. Meadows be invested in the names of three trustees, namely, the Dean of St. Mary's Hospital School for the time being, Mr. J. Macdonald, and Mr. Spratling, with a view of founding biennial or triennial prizes in midwifery, bearing the name of the "Dr. Alfred Meadows Prize," to be awarded after competition to past or present students of St. Mary's Hospital under such conditions as the School Committee of that hospital may lay down with the sanction of the trustees. Sir E. Sieveking remarked that suelh a prize would promote the interests of the schools with which Dr. Meadows had been so intimately connected, and would serve to keep his name in remembrance through succeeding generations.- The proposal on being put to the vote was unanimously carried. The liope was expressed that whilst the pulpit was in course of erection other contributions would come in to augment the ralue of the "Dr. Alfred Meadows Prize" to students at St Mary's Hospital, and subscriptions will continue to be received for this object by Mr. James Watson, 38, Portman Square.

## THE UNIVERSITIES (SCOTLAND) BILL.

The widespread interest taken in the most recent measure for the reform of the Seoteh Universities was further evidenced last week by the appearance at the Lord Advocate's Chambers of a deputation, representative of atudents of the four Universities. In the memorial which the atudents submitted, the chief contention was that more direet representation in the University Court should be granted to the undergraduate element. The claim was based on the ground that only thus would it be possible for the students ${ }^{\circ}$ wishes to obtain effective recognition. More especially, representation was asked on the Standing Committees on museuma and libraries, because information on matters of detail comnected with them could be furnished only by those who used them. Their claim was no innovation, as the atudents already had direct representation through their Lord Rector and his assessor. They merely asked for a proportional increase, in view of the increased number of the court. The Lord Advocate, after complimenting the members of the several representative councils on the very extraordinary strides which had been made by the students themselves within the last few yeara, assured them that the interests of the councils would be carefully guarded by the Commission, by whom. doubtless, a proper constitution would be given. But he reminded them that no sharp line could be drawn between the graduate student and the undergraduate student; and that through the assessors appointed by the Unirersity Council itself they would have a large and powerful representation. He further counselled them to select as Lord Rector a man who was conversant with the affairs of the University, and who would give them attention. If their Rector was to be a dummy, then he ahould not be in the Court at nll.
The General Assemblies of the Presbyterian Churches in Scotland have had this Bill before them, and have most heartily and unauimously accepted ita main prorisions as modified by the amendmenta of the Secretary for Scotland. Professor Miligan, of Aberdeen, introduced the subject at the Established Assembly, and in the course of his remarks said the teaching porer of the unirersities at present was totally inadequate to the multitude of young men seeking instruction. Moreover, in this country, as compared with Germany, we went upon the altogether false impression that the only business of the professor was to teach, and forgot that even a greater part of his duty was the charge of a particular department of work, and that it was his business to the utmost of his power to advance that department. In these and other points the present aystem required complete revision ; and it seemed to him that, taking the bill as a whole, it would open up a new field and era of progress for our Scottish Universities. The Fret Church Assembly held it to be unjust, as well as unfavourable to the best interests of the universities, that the oecupaney of any chair should be limited to a particular religious denommation, and deelared their opinion that provision ahould be made in the Bill for terminating the existing connection between the theological chairs and one of the Scottish Churches. Both Assemblies agreed to petition l'arliament in favour of the Dill.
The Bill passed through the Committee stage pro form on $J$ une 5 th.

## ASSOCIATION INTELLIGENCE.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

ANY qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will be held on July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27th, September 26th, and December 28th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowke, General Secretary.

## COLLECTIVE INVESTIGATION OF DISEASE.

The Report upon the Connection of Disease with Habits of Intemperance, which was presented to the Section of Medicine in the Annual Meeting of 1887, will shortly be published in the Journal.
Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribution of CERTAIN DISEASES, are in preparation, and will be published as soon as resdy.
The following inquiry only of the first series remains open, namely, that on the Etrology of Phthisis.
A fresh inquiry into the Origrn and Mode of Propagation of Epidemics of DIPHTHERIA has been issued.
Memoranda upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collectve Investigation Committee, 499, Strand, W.C.

## branch meetings to be held.

Aberdeen, Banff, and Klncardine Branch.-The next meeting of this Branch will be held at the Braes of Gight on Wednesday, Juae 20th, at 1.45 P.M., the President, Dr. Smith, of Kinnairdy, in the chair. Business: 1. Minutes, nomloation of new members. 2. Ballot for the admission of Dr. Jeakyus, Belize, British Honduras : Dr. W. L. Mackenzie, Royal Infirmary ; Dr. W. R. C. Mid dleton, Roral Infirmary; Dr. Ramie. Petereulter; Dr. J. Scott Riddell, Ferryhill Place; Dr. A. M. Wili, Royal Infirmary. 3. Notes on Gight and it Castle, hy Dr. Alexander Cruikshank, Aberdeen. An omnibus excursion to the Braes of Gight, through the gronnda of Haddon House, has been arraaged for those who can meet at Old Meldrum at 11.30 A.M. A train leaves Aherdeen at $10.20 \mathrm{~A} . \mathrm{M}$. and arrives at Old Meldrum at $11.30 \mathrm{~A} . \mathrm{M}$., Fhere carriages will be in waiting. Dinaer (inclusive of attendance but exclusive of wiae) in a marquee at the Braes of Gight at 5s. per head. Arrangements have been made for mernbers from Buchau to drive from Maud Jucction ( 11.15 A.M.), and for these from Banff from Fywie ( 1.15 p.a.) to the Braes of Gight, in time for the meetiag and dinoer, and returnigg to catch later down traias. Members from the north will meet the party at Inverurie at 10.50 , those from the south and Deeside at Aberdeen at 10.20 . A train leaves Old Meldrum at 5.25 P.M.. arriving in Aberdeen at 6.40 P.M. Members are invited to bring medical friends.- LTOBERT JOHS GARDEN and J. MACKENzIE Boote, Ifonorary Secretaries.

Birmingram and Midland Counties Branch.-The annusl general mecting of the Branch will be held in the Hirmlogham Medical Institute, Edmuad Street, on Thursday, June 14th. The chair will be taken by the ex-President, Mr. Lawson Tait, at 3 P.M., who will latroduce his successor, Dr. T. W. Thurstield. Busiaess :-The following members of the Association will he proposed as members of the Branch: James A. B. Thempson, M.D.Glasg., Bralles, Warwickshire; Frank J. Allen, M.A., M.B.Cantab., Mason College; Jobepli Heary Witrick, M.R.C.S., 2t2, Halsall Meath Road; John Angell James, M.R.C.S.,
 that Rule 9 be amended so as to read as fellewa: "That io the case of a vacancy occurring in any office other than that of Presideat or President-elect, sneh vacancy shall be filled up by the Conacil. In the case of a vacancy in the oftiee of President or President-elcct, the vacancy shall be filled up at a general meeting, due notice having been given by the Secretary in eush case." I'resenta* tion of the reports of the Council, the Treasurer, Iathological and Clinical Section, and Local Collective Investigation Committee. Filection of officebearers, and other formal business. An address will be delivered by the President, Dr. T. W. Thurstield. The annual dimer will take place at the Grand Ifotel. Colmere Jfow, at bs p.M. Tickets, 5s. each, exclusive of wine. Each member has the privilege of introducing a friead to the dinner on giving notice of his intention to do go.-IOORERT SAUNDRE, M.D., 83A, Edmuna Street, and of his intention to do bo--lionert Savindry, M.D., Secretaries.

Cambridgeshire and Huntingonshire Branch.-The annual meeting f this Branch is appoiated to be held at. Ely on Friday. July oth. Members wlshing to make communicaliens, to exhibit specimens, or to prepese new
members are requested to signify their inteation to Dr. Anniogson, Cambridge. for iasertien in the order of proceedings.-Bushell Arsisgsos, Honorary Secretary

Lancashire ain Cheshire Bravch. - The fifty-secood annual meetiog of this Branch will be held at the Medical Institution, Hope Street, Lirerpoof, en Wednesday. June 13th, 1888, at 2.30 P.as. Order of Business:-Introduction of the new President. The new Presideat's Address. The Report of Council. Election of Office-bearcrs: President-Elect, Vice-Presideats, Ifonorary SecreElary. Election of Representatire Members on the Council of the Association. tary. Election Cof Conacil. Choice of place for holdiag mext anaual meetlag. Election of two memhers to serve on the Parliamentary Bills Committee. Election of two memhers to serve on the Parliamentary Broposed tomakea Grant to Epsom College: Notice of Motion: It Will be proposed tomake a donation of tweoty-five guineas to the Epsom Medical Bedevoleat College ont of the funds of the Branch. Miscellaneous Business. Medical and Surgical Communications.-Dr. Walter: Notes of a case of Total Extirpstion of the Uterus per Vaginam. Dr. Glyna: A note on a New Method of Treating Chlorosis. Dr. Johoson Martia : How to prevent Small-pox, and how to spread it. Mr. R. Harrison will show the Electric Eadoscope. Dr. Alexaader: Hysterectomy for Uterine Cancer (patient). Mr. Shears: Xerosis of the Conjunctiva with Night Bliodness. Dr. Imlach: The Use of Stimulants and Narcoties by Women. A small museum of drawings, photographs, and selected pathological specimens. Dioner. The members will dine together at the Adelphi Hotel, Liverpor Hotef, Liverpool, at ${ }^{\text {E. Gusscott, M.D. General Secretary, 23, Saint Joha Street, Mauchester. }}$

Metropolitas Couxties Braxch. - Preliminary Notice. -The annualmeeting of this Branch will be held at the Holborn Restaurant on Wedaesday, June 27th, at 5.30 p.M. Presideat, Arthur E. Durham, Esq., P.R.C.S. ; Presidentelect, C. Brodie Sewell, M.D. Dinner at 7 P.M. ; tickets, 7s. 6 d . each, exclusive of wige.-George Eastes, M.B., E. Noble SMith, F.R.C.S., Honorary Secretaries.

Metropolitan Counties Brance: North London District.-The annual meeting will be beid at the Zoological Gardens, Regeat's Park, on Thursday, Juae 14th, 1838. A. E. Durham, Esq., F.R.C.S., Presideat of the Branch, will preside. Mr. Frank E. Beddard, Prosector to the Zoological Society and Davis Lecturer, will lecture at 5 P.M. on "Deinosauria," at which members are io vited to atteod. Election of Vice-President, Representative Member of Council, and Secretary for the ensuiog year. All the preseat ofticers are eligible for re election. Dinger at the Restanrant in the Gardens at 6.30 ; morniog dress Tickets, 6s. each, exclusire of wiae. Memhers desirous of beiag present are ised to signify their intention before June 12th, to the Honorary Secretary. Georee Henty, M.D., 302, Camdea Road, N.

Midland Branch.-The annual meeting will be heid at the Masoaic Hall Nottiogbam, on Thursday. Juae 14th, at 2 P.M. After the transaction of the usual business a proposition to amend Rule 6 will be laid before the meeting. Papers, etc.: Mr. Edgar M. Orookshank: On the Alleged Origin of Certain Diseases from the Lower Animals. Mr. Frank Pope: A Case of Disbetes, probably of Traumatic Origia. Mr. R. C. Chicken: New Form of Bone Fonceps for Sequestrotomy. Dr. George Eider: Remarks on Cases of Peritoaitis treated by Abdomioal Section. Dr. H. Handford: The intlueace of Position ou Car diac Murmurs, and on the Treatment of Heart Disesse. Mr. Frank Hodges will exhihit a patient on whom he has operated for Cataract of Each Eye by different Methods. Luncheou will be provided by the Presidentelect, at the different methods. 1 o'clock. The dioner will also take place at the Masoaic plath of mine -W, A. Carlise, M.D. Honorary Secretary aad Treasurer.

North of Ireland Branch. -The annual meetiog of this Branch will be held in the Belfast Ropal Hospital, on Wednesday, July 11th, at 4 P.M. Gentlemeo who desire to read papers or to bring any other busicess before the meeting will kindly commnuicate as early as possible with the Secretary, Joms W. ByERS, M.D., Lower Crescent, Belfast.

Reaning and Upper Thanes Braveh.-The anaual meeting of thls Bradech will be held in the Library of the Royal Berkshire Hospital, Readiag, on Wed nesday, July 11th, at 4.15 P.M. The chair will be taken by the President (Dr. C. H. Teach), who will iatroduce the Presideat for the coming year (W. B. Holderncss, Esq., of Windsor), who will then take the chair. Members wiling te read short papers or bring forward cases of cliaical interest are requested to communicate with the Honorary Secretary withoule delay. Theanaual dianer will take pluce on the same eveniag at 6.15 P.M., at the Queen's Motel, Ileading Dinner tickets ( 5 s , without wine, or 10 s . including wine) should be obtsioed from the Hooorary Secretary on or before Saturday, July ith.-H. Hergate 1'Hiletips, 43a, London lioad, Reading, ifonorary Secretary.

South Midiand Branca. - The aonual meeting of the above Branch will be held at the Bletchley Park Hotel, Bletchler, on Thursday, June 14tb, at 2.45 P.s. The new President, II. Veasey, Ksq., invites the members to luncheon at. the same place previously to the meeting, from 1.30 to 2.30 P.N., at which meeting and luacheon every qualifed medical man will be a welcome visitor. Geatlemen acceptiny the iavitation are requested to intimate the same to the Hucorary Secretary not later than Juoe 11th. The arrangements for a comHucorary Secretary not later ham meting this year of Cambs and Hunts and South Midlaad Branches bined meeting this year of fallenthrough, the fuformal reciprocal rlsits of members, to whom it having falleu ihrough, the informal reciprocal risits of members, to whom may be conventent, at the respective meetings, would be most agreable, adion are bereby Invited. Agenda:-Usaal business of annual meeting. kesolntion on subject of "Fees to Medical Witnesses," etc. Communication from Chairman of Parliamentary 1311 s Committee on Subject of "Lunacy Acts Amendment Bill" (see Jourval, May 12th, p. 1026). The following gentlemen will be proposed as new members of the Association and Branch: John 1feary Lloyde, Fisq., Bedferi; J. Xeil Whitfeld, Esq.. Northampton: A. B. Godirey., Esq., and - Weatherley, Esq., Northampton Iobrmary. Gentlemen wishing to read papers for discussion, eases, etc., are requested to send the titles of the to read papers Mr. Milliman : Case of Straogulated Unabilical Heraia: Operation for Radical Mr. Millpan : Case of Straogiliated Lnabilical Heraia: peratioa por Radica Cure: Recorery Dr. Jones: Physical Indications in Heart Affections. Dr.
Geldsmith: A Qnestion as to the Etlology of some Nerrons Diseases of Chif-
dren. Mr. Bull: Obscure Abdominal Tumour: Abdominal Section: Recovery. Mr. Buns: The Royal Colleges and the Society of Apothecaries.-C. J. Erans, Honorary Secretary, Northanpton.

SOUTK-WF FSTERA BRANCH, - Tho annmal meeting of this Branch will be held at the Devon and Exeter Hospital, Excter, on Tuesdan, June 26th. whler the presidency of Dr. John Woolman, F.R.C.S. Notices of motion or comnunications to be intimated to the Honorary Secretary without or comann and will facilitate arrangenents if members willinform the Honorary Secretary as soon as possible it they hope to be present at the neeting. The followiag motion was gassed at the Council Mecting on May 2ud:- "That inasmuch as the annual meeting assumes more or less the character of a day of recreation, and with a view of encouraging the district meetings, the business of the aunual mecting shall be confined la the Preshlent's address, the business of the Branch, the exlibition of cases or of specimena with notes, and the annual dinner."-P. Maury DFas, Wonford House, Kxeter. Honorary Secretary:

South-Easters Brance: East Sussex Distriot. -The next meeting will be held in the boand-room of the iospital, at Hastiags, on Tuesduy. June 12th, at 3.30 P.M. Dr. Ragshawe will preside. The following papers are promised The Chairman: A Case of Chrluria. Mr. Ticehurst: A Case of Addison's Disease, with a Rare Form of Skin Eruption (Drawing to be shown). Dr. Penhall: A Oase of Nephrotomy. Dr. Talfourd Jones : Mercury as a Dinretic. The dinuer will take place at the Palace ILotel at 5,30 Pome ; charge, tis., exclusive The dinuer will take place at the Palace lotel at 5,30 pom. ; , harge, es., exchnive
of wine.-T. Jfaner Verrali, Honorary Secretary, 97 , Montpellier Road, Brighton.

Souti Whafes avd Monmouth Bravor.-The eighteenth annual meeting of this Branch will be held at the Infirmary, Cardiff, on Wednesday. June 27th. Further particulars in eirculars. Members wishing to read papers, etc., are Further particulars in eirculars, Aembers wishing to read papers, etc., are requested to send titles to Mr. Sheen betore June Mores, Swansea. Honorary Secretaries.

Sottherr Braxcte. - The fifteenth anuual meeting will take place at the Grosvenor Hotel, Queensgate, Southsea, on Thursday,June 14th. The general meeting will be held at 1 P.M. The President-Elect, H:'B. Norman, Esq.. has kindly undertaken to provide refreshments at the hotel. In'accordance with the by-larrs, two gentlemien wili be elected at this meeting as Representatires of the Braucli on the Council of the Association for the ensuing year: The address will be delivered by the President-lect at 2 P:M. During the afternoon the members are incited to visit the Dockyand, the old Victory, H.M.S. Jernon. and other places of interest. Dinner at 6 P.M. ; charge, 5 s, exclusive of wine. etc. The Committee request that those gentlemen who intend to be present at the dimuer will sead in their names on or before Wednesday. June 13th.-J. Ward Cuusins, IInorary Secretary and Treasurer.

YORESHTRE BRAXOH.-The annual meeting of the Yorkshire Branch will he held in the Musetun of the Forkhlie Philosophical Society at York on Wednesdas. June 2ith, when the representatives of the Branch on the General Council and the oflcers for the ensuing year will be elected. Members intending to real papers and'show speclmens, are requested to communicate at once with Arthor Jackson, Secretary, Sheffield.

## aberdeen, banff, and kincardine branch.

A stretisg of this Branch was held at 198, Union Street, Aberdeen, on TVednesday, May 1Gth, at 8 o'clock p.a.. Dr. Urquhart in the chair.
Nominations and Ballot.-Six new nembers were nominated for election at next meeting, and Dr. Ligertwood Methlick was ballotted for 'and admitted an ordinary member.
Summer Meeting.-After some discussion, it was decided that the summer meeting should be held at Gight, on Wednesday, June 20th, and it was remitted to Professor Ogston and Dr. Mackenzie Booth to make the necessary arrangements.
Representative to Council.- Dr. Wight was proposed as the representative of the Board on the Council of the Association for the ensuing year, and was elected nnanimonsly.

## CEMLON ERANCH.

A.s ordinary meeting of this Brancl1 was held at the Colonial Medical Library, on March 3rd, Dr. Vas Dort, Vice-President, in the chair. The following gentlemen were present: Drs, Asserappa, Attygalle, Loos, Rockwood, Messrs. Van Geyzel, Fleyatambi, Nell, Brito, Schokman, Fernando, and Keegel (Honorary Secretary).
The minutes of the previous meeting were read and confrmed
Proposed Amendment of By-lau.-Dr. Rockwood, on buhalf of Mr. Thorshile, moved in pursuance of notice that the following alteration or amendment of By-law 4 be made: After the words "Colombo" to iusert "Kandy, Galle, Jaffina, and Badulla." To omit the words "and the following," and also the whole of the third, fourth, and fifth lines, and the word "Colombo" in the sixth line, and insert "these towns."-Mr. Nell seconded.

Dr. Attyalle moved as an amendment: "That the consideration of Mr. Thoruhill's resolntion be postponed till the next annual meeting of the, Branch in December next."-Mr. Eleystambr seconded.
Dr. Loas moved as another amendment: "That Messers. Thornhill, Craib, and Criflin be still considered, members of the Council,
although the three superintending medical officers cease to hold their ottice from the circumstances of those offices being abolished." -Dr. Asserappa seconded.

Dr. Attygalle's amendment being put to the rote, was negatived by 6 against 4.

Dr. Loos having withdrawn his amendment, in view of the necessity of previous notice, as the amendment amounted to a substautive motion necessitating a material change in the constitution of the Council.
ylr. Thoruhill's motion was put to the vote and lost, the proposer and seconder alone voting for it.

Paper.- A paper on Anchylostomiasis was read by Mr. Fernando, on belalf of Mr. Gratiafn.
DORSET AND WEST HANTS BRANCH: SPRING MEETING The spring meeting of this Branch was held at the Yeatman Ilospital, Sherborne, on Wednesday, May 30th, Johy Comyns Leach, M.D., President, in the chair. There were also present thirty members and visitors.

Branch Council.-Mr. G. IF. Daniell, of Blandford; Dr. W. E. IIumble, of Corfe Castle; Dr. J. C. Leach, of Sturminster Newton; Dr. P. W. Macdonald, of the Dorset County Asylum; Dr. R. P. Simpson, of Weymouth; Dr. W. V. Snow, of Bournemonth; and Dr. TF. H. Williams, of Sherborne, were elected as members for the ensuing year.
Representative of the Branch on the Council of the Association. -Dr. W. G. Vawdrey Lush, of Weymouth, was re-elected as representative of this Branch on the Council of the Association for the ensuing year.

Representative on the Parliamentary Bills Committee.-Mr. C. H. Watts Parkinson, of Wimborme, was elected for the ensuing year.
New Members.-The following gentlemen were elected:-Mr. James Charles Clark, of Wimborne; and Dr. John Lyon, of the Roval Naval Sick Quarters, Portland.

Jert Meeting.-1t was resolred' that the summer meeting be held at Swanage.

Vote of Sympathy.-Itwas resolved unanimously that the members of the Dorset and West Hants Branch of the British Medical Association express their hearty sympathy with Dr. Lush and Mr. Good in the anviety caused them by the controversy with the majority of the committee of the Dorset County Hospital.
C'ommunications.-Mr. Marsir : Short Totes of a Case of Lawson Tait's Operation for Extension of Perineum', with an Uncommon and Unfortunate Termination. Dr. Geeves: Case of Cerebral Tumours (specimen), with Remarks on the Diagnosis of Intracranial Tumours Implicating the Cortex of the Brain. Dr. Darison: A Case of Infantile Scurry. Dr. MacDonald: On Epilepsy, with notes of a case and pathological specimens.

Dimner:-The members and friends dined together at the Dighy Hotel.

HALIFAX, NOYA SCOTIA BRANCH.
The fourth ordinary meeting of this branch was held at Halifax on March 20th. Deputy Surgeon-General McDowell in the chair. The following gentlemen were present:-1lon. Dr. Parker, Dra. Slayter, Morrow, Milsom, Goodrin, Black, De Witt, Cowie, Farrell, Trenaman, and Curry; Surgeons Weston hnd Fowler, A.II.S.

Amendment of the Health Act.-The President and Dr. Parker explained the steps that had been taken by the Conmittee of the Branch and the Local Government to amend the present ITealth Act.

Cozes, Etc.-The Mon. Dr. Parker showed a new stomach pump for washing out the stomach, and explained its use and the cases for which he considered it appropriate. He also gave the history of a fatal case of leucocrthemia with abnormally enlarged spleen.-Dr. Slatter brought forward an interesting case of excessive lactation, giving the treatment pursued and inviting sug-gestions.-Drs. Cowne and Parker related similar cases.

THE fifth ordinary mecting was held at Lalifax on March Sth, the Hon. Dr. Pariker in the chair. The following gentlemen were present:-Drs, Black, Chisholm, Milsom, Wickwire, Farrell, Morrow;'Goodwin and Tobin: Surgeon-Major Dolster, A.1..S.; Surgeons Grier, Weston, Fowler, and Deeble, A.M.S.
Communications.-Surgeon Fowler, A.M.S., described a case simulating locomotor ataxy now under his care in hospital.Dr, Biack exbibited, a, specinen showing a' fistulous opening be-
tween the vermiform appendix, bladder, and rectum. The patient had suffered from perityphilitis, and had passed fæcal matter and flatus by the urethra for some months before death.-Dr. CampBELL showed two specimens remored from the body of a man who had died of Bright's diaease; one was a contraction, without thickening or signs of previous ulceration of the pylorus; the second consisted of the apex of the right lung which had undergone "grey induration."-Remarka were made by Drs. Black, Fowler, Chibhotar and others.

NEW SOUTH WALES BRANCH.
Tre annual meeting of this Branch was held at Sydney on March 2nd, Dr. Knaggs in the chair.
Report of Council.-Mr. G.T. Hankins, the Honorary Treasurer, read the Council's report and balance-sheet, showing a balance to the credit of the Branch of £I43 2 s .
Officers of Council.-The following gentlemen were elected Councillors for the ensuing year: Drs. Creed, Knaggs, Hankins, Chambers, Fiaschi, O'Reilly, Quaife, McCormick, MacLaurin, and Scot Skirving. President: Dr. Chambers. Vice-President: Dr. Fiaschi. Honorary Treasurer: G. T. ITankins, M.R.C.S.; Honorary Secretary: Dr. Scot Skirving. Auditors: Dre. Crago and Ellis.

Medical Defence Association.-Dr. Ellis's letter relating to the Medical Defence Association was read and received.

Vote of Thanks.-Dr. Eluis proposed, and Dr. Ross seconded, that a hearty vote of thanka be accorded to the retiring office-bearers.-Carried.

The adjourned annual meeting was held at the Royal Society's Room, Sydney, on Friday, April 6th, 1888. Present: the Hon. Dr. Creed, M.L.C., in the chair: Drs. Knaggs, O'Reilly, Chambers, Roth, Garrett, Twynam West, Kendall, Wm. Chisbolm, Crago, Hankins, Worrall, Fiaschi, Faithful, Martin, Foreman, Clubbe, aud Scot Skirving.

President's Address.-The Hon. Dr. J. Mildred Creed, the retiring President, delivered an address. The very satisfactory monetary position of the Branch was, he said, the result in a great measure of the time and care devoted by the Honorary Treasurer, Mr. Hankins, to the duties of his office; and gratitude was also due to the Honorary Secretary, Dr. Scot Skirving, and to the Assistant Secretary, Mr. Green, for the derotion and exactitude which they had shown in the conduct of husiness. He mentioned the papers which had beeu read during the year, and said that the Branch had to deplore the deaths of five members-namely, Drs. Hoff, Halket, Lentaigne, Markey, and Leacock. The sympathy of the Aasociation had been conreyed to their representatives. He then passed in review a variety of topics of special interest to the profession in New South Wiales. An abstract of his remarks will be found at page 1213. He said they were entering upon a year of new work; and, besides. it was the centenary year of the colony, an occasion wlich the Branch should do something to mark.
Leacock Fund.-The Hon. Secretary (Dr. Skirving) stated that he had received $£ 102$ 8s. towards the fund in aid of the family of the late Dr. Leacock, the Newcastle Committee wished to send in their contrihution at the same time as this Branch.
An Amateur Surgical Instrument Maker.-Dr. Scot Skinving exhibited a curions specimen of surgical instrument made and used by an amateur.
-New Members.-The President announced the election of the following gentlemen:-Dr. Lloyd, Ifunter's Hill ; Dr. Robertson, Auckland. Dr. Creed then gave up the chair to the President-elect, Dr. Chambers.
Vote of Thanks to President.-Dr. Kraggs aaid he had much plensure in proposing a vote of thanks to Dr. Creed for his able address, and for the general interest displayed by him in the work of the Branch. He (Dr. Knaggs) felt sure that as mover for the committee which reported on the registration of births and deaths. Dr. Creed deserved the thanks of the whole community, for if the Eill was properly administered, many existing evils would be remedied. With regard to the report of the committee on the law and practice of medicine, Dr. Creed's action was to be commended by every right thinking person.-Dr. Clubbe seconded the resolution. - The Hon. Dr. Creed returned thanks.

The Tew President. - Dr. Chambers then thanked the members for the honour they had done him by electing him to the position of president, and would ask menhers to lend a helping hand.

## BRITISH MEDICAL ASSOCIATION.

FIFTY-SIXTH ANNUAL MEETING.
The fifty-sixth Annual Meeting of the British Medical Association will be held at Glasgow, on Tuesday, Wednesday; Thursday, and Friday, August 7th, 8th, 9 th, and $10 \mathrm{th}, 1888$.

President: John T. Banks, M.D., D.Sc.(Hon.), F.K.Q.C.P.I., Regius Professor of Physic in the Unireraity of Dublin.
President-Elect: Professor W. T. Gairdner, M.D., LL.D., Professor of Medicine in the University of Glasgow.
President of the Council: Thomas Bridgwater, M.B., J.P., Har-row-on-the-Hill.

Treasurer: Constantine IIolman, M.D., J.P., Reigate.
An Address in Medicine will be delivered by Thomas Clifford Allbutt, M.D., Consulting Physician, Leeds General Infirmary.
An Address in Surgery will be delivered by Sir George H. B. Macleod, M.D., Surgeon in Ordinary to Her Majesty in Scotland.
An Address on his "Recent Investigations in Surgery" will he given by William Macewen, M.D., Lecturer on Clinical Surgery, Glasgow Royal Infirmary.

An Address in Physiology will be delivered by John Gray McKendrick, M.D., LL.D., F.R.S., Professor of Institutes of Medicine, University of Glasgow.

All the rooms required for the purposes of the meeting will, by the kindness, of the authorities, be prorided in the Unirersity of Glasgow.

Programme of Proceedings.
TUESDAY, AUGUST TTH, 1855.
9.30 A.m. Meeting of 1887-1888 Council. Randolph Hall.
11.30 A.3s.-First General Meeting. Report of Council. Reports of Committees. Bute Hall.
4 P.M.-Serrice in the Cathedral. Sermon by the Fery Rev. John Caird, D.D., LL.D.. Principal and Vice-Chancellor of the Unicersity of Glasgow.
8.30 P.3.-Adjourned General Meeting from 11.30 A.M. President's Address. Bute Hall.
Wednesnay. August 8 Th, 1888
9.30 A.M.-Meeting of $1888-89$ Council. Randolph Hall.
0.30 A.3H. to 2 F.3r.-Sectional Meetings.

3 P.M.-Second General Meeting. Address in Medicine by Thomas Clifford Allbutt, M.D. F.R.S. Bute Hall.
9 P.M.-Conversarione given by the Professors of the University"
Thursdat, Avgust 9th, 1888.
9.30 A.M.-Address on his Recent Surgical Investigafions by William Macewen, M.D. Bute Hall.
11 A.M.-Meeting of Council. Randolph Hall.
10.30 A.M. to 2 P.M. Sectional Meetings.
P.M.-Third General Meeting. Address in Surgery by Sir George H. B. Macleod, M.D. Bute Hall.
i P.M.-Public Dinner. St. Andrew's Hall. FRIDAT, AUGUST $10 \mathrm{TH}, 1888$.
10.30 4.BI. to 1.30 P.M.-Sectional Meetings.

3 P.M.-Concluding General Meeting. Address in Physiology by John G. McKendrick. M.D., F.R.S. Philosophy Class-room.
9 p.3f.-Conversazione given by the Corporation of Glasgow at St. Andrews Hall.
Garden Party given by the Faculty of Physiciana and Surgeons at the Botanic Gardene.
SatURDAF, ACGEST $11 \mathrm{TH}, 1828$.
Excursions.
The following discussions and papers are promised up to the present time.

> Section A.-Medicine.

## Humanity Class Room.

A. Medicine.-President, Professor T. McCall Anderson, M.D. İce-Presidents, R. L. Bowles, M.D.; George F. Duffey, M1.D. Honorary Secretaries, J. McGregor Robertson, II.A., M.B., 400, Great Western Road, Glasgow: Robert M. Simon, 11.D., 27, Newhall Street, Birmingham.
The President will open the proceedings by introducing a discussion on the Diagnosis and Treatment of Syphilitic Disease of the Nervous System. Dr. Thomas Buzzard, Dr. T. S. Clouston, Dr. William Moore, Dr. Ross, Professor Grainger Stewart, and Dr. C. W. Suckling will take part in the discussiou.

On the third day of the sectional proceedings, the Value of Inhalations in the Treatment of Lung Disease is set down for discussion, to be opened by Dr. C. Theodore Williams. The following gentlemen hare already indicated their intention to engage in this discussion: Dr. Burney Yeo. Dr. W. W. Ireland, Dr. C. F. Knight, Dr. 1. A. Lindsay, and Dr. E. Markham Skerritt.
Drs. Byrom Bramwell and Milne Murray will give a demonstration of their Method of Graphically Recording the Exact Time Relstions of Cardiac Sounds and Murmurs.

The following papers hare been promised.

Finlay, Dayld W, B.A., N.D. Bromehlectasis] treated byaincision and Dralnagod ${ }^{\prime}$,

 Bianagement.
Towory. J. K., M. B. East: African Fever, with speclal reference to Climatic Conditlons.
WanNer, Francls, M.D. Mathods of Studying and Examining the Nerve system.
Sir W. Roberts, Dr. Lauder Brunton, Dr. Russell Reynolds, Dr. F.W. Pary hare also intimated their intention to take part in the proceedings of the Section.

## SECTION B.-SURGERT. <br> Chemistry Class Foom.

B. Surgery.-President, George Buchanan, M.D. Vice-Presidents, James Dunlop, M.D.: Charles Robert Bell Keetley, F.R.C.S. Honorary Secretaries, David Neilson Knox, M.B., 8, India Street, Glasgow; Walter Pye, F.R.C.S., 4, Sackville Street, Piccadilly, London, W.

As already announced, in this Section discussions have been arranged for on the following subjects:

1. The Surgical Treatment of Abscess of the Lung and of Empyemr. To be introduced and supported by Mr, T. Pridgin :Teale (Leeds), Sir Spencer Wells (London), Mr. A. Pearce Gould (London), Mr. R. J. Godlee (Loadon), and Mr. W. Thomas (Birmingham),
2. The Operative Treatment of Club-Foot. To be introduced and supported by Sir William Stokes (Dublin), Mr. E. Lund (Manchester), Dr. Alexander Ogston (Aberdeen), Mr. R. W. Parker (London), Mr. E. M. Little (London), Mr. John Chiene (Edinburgh), Mr. W. J. Walsham (London), and others.

The following papers have alsa been promised.
Bertos, Eamuel, Esq., London. On the Treatment of Stricture of, the Rectum
Cy Electrolysis.
Clarike, W. Bruce, Esq., London. On the Vesical Lidoscope.
Fevwick, E. Hurrs, Kisq., London. Notes from the Experience of 450 Cases of
Organic Stricture of the Lirethra.
Flemagg, W. J. M.D., Glasgow. 1. On Continuens Extension in Spinal Currature. 2. On the Treatment of Perineal Fistula.
Itarrisor, Reginald, Esq, Lirerpool. On an Improvement in the Construction of Ships Berths, relative to the Treatment of some Surgical Injuries and Diseases at Sea (with models).
Kefteey. C B., Esq., Londion. Plastic Amputations of the Foot.
Mefricre, John, Esq., Glasgow. Tho Electric Illuminatiou of the Cavities of the Body.
Owen, Edmund, Esq., London. A Case of Trephining for Intracranial Hamerrhage (Subrtural); Localisation; Mecovery.
RAKF, Beaven, M.D., Trinidad. The Value of Nervo Stretching in Teprosy, based on Ono Hundred Cases.
Roth, Bernard, Esq. Lendon. On Scollometry, or an Accurate Method of Recording Cases of Lateral Curvature of the Spine.
Sipcock, A. Quarry, Esq., London. On Kxeision of Eularged Bursie in the Popliteal Space.
Stokes, SIr William, Dublin. Modification of Gritti's Amputation : and will show Casts of Stumps.

## Section C.-Obstetric Memtine. <br> Medical Turisprudence Class Room.

C. Obstetric Menicine.-President, Thomas More Madden, M.D. Jice-Preaidents, William Leishman, M.D.; J. IIalliday Croom, M.D. IIonơary Secretaries, William Walter, M.D., 20, St. John Street, Mancliester; W. L. Reid, M.D., 7, Royal Creseent, Glasgow.

Professor Stephenson (Aberdeen) will take part in the diseussion on Obstructive Dysmenorrhcea.
Dr. Samuel Sloan (Glasgow) will show his Antero-posterior Compression Forceps, and will explain their use in Flat Pelves.
The following papers are promisen.
Campron, Murdoch. M.D., Glasgow. I. On Carsarean Section, with Notes of a Surcerseful Case. 2. On the Thermostatic Nurse, with Cases.
Hast. D. Berrs. M.D., Edluburgh. Suecessful Case !of Cxsarean Scetion
(Porro's moditication.,
ImLace, Franels, M.D.. Liverpool. The Function'of Anæmia in Gynaccology. STEPMEYSOx, Willam, M.D., Aberdeen. On the Influcnce of Permanganate of rotass on Menstruation.

## Section D.-Punlic Menacine. <br> Greek Class Room.

D. Public Medicine.- President, ILenry Duncan Littleiohn, M.D. Fice-Presidents, James Christie, M.D.; D. Page, M.D. IIonorary Spretaries, Ebenezer Duncan, M.D., 4, Noyal Crescent, Crosshill, Glasmow; John C. McVail, M.D., IIolmhead, Kilmarnock.

1. Sanitary Legislation. This discussion will be introduced by the Opening Address of the President of the Section.
2. The Communicable Diseases Common to Man and Animals, and their Relationships. Discussion to be opened on the second
day of the sectional meetinge by George Fleming, LL.D., K.R.C.V.S., Chief of the Veterinary Department of the Army.
3. The Dieposal of Sewage (a) in Large Towns: $(b)$ in Small Towns and Country Districts. Discussion will bo opened on the third day by Dr. James B. Rassell, Medical Officer of Health, Glasgow.
The following papera are promised.
Drysdale, Oharles R., M.D. 1. On Indigence as a Main Cause of High Deathrates, 2. The Berlin and Parislan Sewage Farms.
Hime, T. W., M.B. Mijk Scarlet. Fever.
Kerr, Norman. M.D. Some Risks of Sanitation.
Simpsos, -, M.D., Medical Oficer of Mealth, Calcutta. - On Chelera and its Festering Conditions in the Endemic Area.
Suthbrland, J. Francis, M.D. Natlomal Sanatoria.

## Section E.-l'sycuology.

Hebrew Class, Room.
E. Psychology.-President, James C. Howden, M.D. Tice-Presidents, James Rutherford, M.D.: Julius Mickle, M.D. Honorary Secretaries, A. R. Urquhart, M.D., Murray IIouse, Perth; Alex. Newington, M.D., Ticehurst, Sussex.
Dr. J. C. Howden, the President of the Section, will deliver an Address.

Dr. C. M. Campbell will introduce a diacussion on the Uniform Recording of Post-Mortem Examinations in Asylum Reports.

Drs. A. Yellowlees and A. Campbell Clark will introduce the following subject: The Sexual and Reproductive Functions-Normal and Perverted-in Relation to Insanity. I. Menstruation: its Commencement, Irregularities, and Ceasation: 2. The Sexual Inatinct and its Abuse; 3. Pregnancy, l'arturition, the Puerperal Period, and Lactation.

Dr. Clouston will initiate a discussion on the Principle of Construction and Arrangement of an Asylum for Prirate Patients of the Richer Classes.
The following have promised papers: Drs. Savage, Hack Tuke, Fletcher Beach, Charles Mercier, W. J. Mickle, and Turnbull:

## Section F.-Anatomy and Physiolocy. Anatomy Class Room.

F. Anatony and Physiolony.-President, John Cleland, M.D.. LL.D., F.R.S. Vice-Presidents, R. J. Anderson, M.D.; Henry Enward Clark, F.F.P.S.G. Honorary Secretaries, John Iarlow, M.D., 27 . Elmbank Crescent, Glasgow; Charles Barrett Loekwood, F.R.C.S., 19, Upper Berkeley Street, Portman Square, W.
C. B. Lockwood, F.R.C.S., will introduce a disenssion on the Teaching of Anatomy; and will show eections illustrating the Development of the Organs of Circulation and Respiration.
The following papers are promised.
Buиoks, Henry St. John, M.D. Di the Morphology of the Lipitrochleo-anconeus or Aisconeus Sextus (Gruber).
or Anconeus Sextus (Gruber). Brow. J. Jiacdonald. M.B., F.R.C.S. Tha Coustruetion of the Cardiac Ven tricles in the Mammalia
Clmeles in Professor, M.D., F.R.S. On the Nature of Certain Forms of Double Monstrosity.
Colneh, Mark P. Mayn, M.B., F.H.C.S. On tho Mechanism of the Ifeart and
Pulse, W. Arbuthnot, M.B., F.1R.C.S. The influence Prodnced by Excessire Strain upon Musoles and Ligaments (to be illustrated by specimens).
I'Aterson. A. M., M.D. On tha Posilion of the Vericbrato Limb, considered in the Lisht of its Innervation and Duvelopment.

## Section fi--Patuolony: <br> Lave Class Room.

f. Patmoloay.-Presilent, Sir William Aitken, M.D., LL.D., F.I.S. Fice-Presidents, Alexander Davidson, M.D.: Joseph Coats, M.D.; Charles Roy, M.D., F.R.S. Ilonorary Secretaries, G. Sins Woodhead, M.D., 6, Marehhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34, Berkeley Terrace, Glasgow.
Arrangements are being made to hold a discnssion on Cancer originating apart from Epitnelial Structures, in which Mr. Lawson Tait (Birmingham), Dr. Joseph Coats, Dr. Jolın Carlyle (Greenock), and others are expected to take part.
The following japers have been promised.
Bruce, Alex.. M B.: F.li.C.I'Minin. On Ilssemanated Sclerosis.
Costs, Joseph, M.J. On al Casc, of Lipsemich in Diabctes, with Suggestions as to the Sourco of the Fat.
Kenveds: -. On Case of Cystic Iidneys and Liver.
MAPOTHER, E. D.. M.D., Dubln, An Anomalous Form of Eczema.
Marlard, A. E. M.B.B.B.Lnnd. The Iiesults of some Bacterlological Cuitiva. tion Experiments with Iodoform.
RAKE, Bevan, M.D.Lond., Medical Superintendent of the Trinldan Leper Aby Rake, Bevan, M.D.Lond., Medical Superintendent of th
lum. The Percentage of Fibrin in the Blood of Lepers.
RUssell. William, M.D. The Pathology of Pernicious Ansemia.
The following gentlemen have also intimated their intention of
contributing to the business of the Section by reading papers or
contributing to the business of the section by reading papers or
otherwibe: Professor Greenfield, Professor Roy, Professor D. J.

Hamilton, Dr. William Hunter, Dr. Barrett (Edinburgh), Dr. IfcFadyean (Edinburgh), Alex. Edington, M.B. (Edinburgh), etc.
Demonstrations.-Dr. Alexander Druce (Edinburgh) will give a Magic Lantern Demonstration on Diseases of the Spinal Cord; and Alexander Edington, M.B. (Edinburgh), a Bacteriological"Demonstration. Arrangements are also being made for a eeries of Microscopical Demonstrations illustrative of Tumours, Tuberculosis, etc.
Pathological Section of the Anmial Museum.-Intimation has been received of the following exhibits for this section of the Annual Museum: 1. Calculi remored by Lithotomy, by ProfesBor George Buchanan. 2. Calculi removed by Lithotrity or by Scoop; by Professor George Buchanen. 3. Miscellaneouis Objecte removed from the Bödy, by Profeesor George Buchanan, namely: Bulleta; Needles, Cases of Teeth, Impacted Pessaries, etc.,', also 'Isolated Bones of the Tarsus Excised. 4. Rhinoplasty; Wax Cast, by Professor George Buchanan. 5. Bladder and Urethra showing False Passages. 6. Selected Specimens from the Private Collection of Professor W. T. Gairdner. 7. A Series of Specimens of Tumours of the Brain, hy Dr. Joseph Coats. 8. A Series of Specimens illustrative of Diseases of the Kidneys, by Dr: David Newman. -9. A Series of Specimens illustrative of Leprosy, by Dr. Beaven Rake (Trinidad). 10. A Series of Largé Sectiona illtistrating Malignant Tumours of the Lnag : and a Series of Specimens illustrating Deformities of the Liver, by Drs. Woodhead and Bruce.' 11. Drawings and Sections to illustrate Diseases of Bone and Joints, by Mr. F. M. Caird (Edinburgh). 12. A Series of Specimens illustrative of Diseases of the Heart, by Dr. John Lindsay Steven.
As space for the Museum is somewhat limited, gentlemen intending to send specimens ahould intimate their intention without delay to John Lindsay Steren, M.D., 34, Berkeley ,Terrace, Glasgow, Honorary Secretary of the Section of Pathology of the Annual Nuseum.

## Section H.-Ophtialmology <br> Midwifery Class Room:

1f. Ophthalmology. - Preerdent, Thomas Reid, M.D. Vice-Piesudents, J: R. Wolfe, M.D. C. E. Glascott. M1.D. Homorary Secretaries, llenry Bendelack Hewetson, M.R.C.S., Il, Hanover Square', Leeds; A. Freeland Fergus, M.B., 41, Elmbank Street, Glasgow.

Mr. Bradenell Carter will open a discussion on the Treatnient of Senile Cataract. Drs. Prichard, Meighan, Mason, Teale, and others have promised to take part in the discussion.
The President of the Section intends to give' a Demonstration of several Instruments of Use in Ophthalmic Diagnosis.
The following papers are promised.
Burwerrox, T. H... M.D., Liverpool." Sailors and their Eyestght.
Mackar. George, M.D., Edinburgh. A Cqutribution to the Study of Hemianopsla of Central Origin, with special reference to Acquired Colour Bindness.
 plantation of Mueous Membrane from the Lip.
Mentos, J. C. M.D. Glasgow. The Value of the Canteryin the Treatment of Ulecration of the Cornes.
Wolfe, J. R., M.D., Glasgow. Detachment, of the Retina.

## Section I.--Otolagy

Biblical Criticism Class Room.
I. OtoLogy.-President, Thomas Barr, M.D. Fice-Presidente, Johin Astley Bloxam, F.R.C.S. J. J. K. Duncanson, M.D. Honorary Sceretaries, Johustone Maclie, M.D., 23, Ashton Terrace, Glasgow: James Black, E.R.C.S., 16, Wimpole Street, London.
The following special subjects lave been proposed for formal discussion:

1. The Conditions calling for Perforation of the Mastoid lortion of the Temporal Bone, and the Best Methods of Operating. Mr. Peter McBride has promised a paper on this subject.
2. The True Value of those Aids to Hearing usually termed "Artificial Tympanic Memliranes."' Dr. W. L. Purves has promised a paper on this subject.
3. Adenoid Growths in the Naso-Pharynx ; their Influence on the Middle Ear, and their Treatment.
The following have promised papers.
Browne, Lennox. Esq. (Title not received)
Torravce, Ir., Esq. On Syphilitic Cochleitls.
WARDEN, Charles, M.D. (Title rot roceived.)

## Section J.-Dibeases of Childrén. <br> English Literature Class Room.

J. Diseases of Children:-President; Walter Butler Cheadle,
M.D. Vǐce-Presidents. James Finlayson, M.D.: Henry Ashby,
M.D. Honorary Secretaries, George S. Middeton; M:D., 23, Sandy-
ford Place, Glasgow; W. Arbuthnot Lane, M.S., F.R.C.S., It, St. Thomas's Street, S.E.

The following two discussions will take place:
$\therefore$ 1.-Diphtheria: (a) Etiology. (b) Relationship to other lnfectious Diseasea, and to other Forms of Sore Throat; Occurrence on Open Wounds and on Mucous Membranes other than those of the Throat, (c) Diagnosis. What are the Diatinctive Features, especially those Distinguishing the Lebion in the Throat from-other Forms of Sore Thront? Doee Membranous Croup occur apart from Diphtheria? (d) Pathology and Sequelæ. (e) Medical Treatment. (f) Surgical Treatment; Tracheotomy; Tubage. This will be opened by Dr. A. Jacobi (New York). Drs. E. Owen, H. R. Hutton, W. T. Gairdner, James Finlayson, D. Newman, George Buchanan,'H. C. Cameron, and John Macintyre will take part in the discusaion.
2. Rickets: (a) Etiology and Prevention. (b) Its Connection with Syphilis and Scurry. Is Enlargement of the Liver and the Spleen always present, more or less, in Ricketa; or only in Cases of Syphilitic Origin? ( (c) Medical Treatment. (d) Surgical Treatment: at what Stage, and in 'what Way? Drs. Macewen, R.' W. Parker, II. R. Hutton, R. Hsgyard, L. W. Marshall, E. L. Freer, and John Gordon will take part in the discussion. -
Drs. Jacobi (New York), Keating (Philadelphia), Ranke (Munich), and Samné (Paris), and other members of the profession on the Continent have been invited.

## GSection K.-Pharmacologx ani Therapeutios. Conveyancing Class Room.

K. Pharmacology and Therapeutics.-President. Jamea Morton, M.D.. Vice-Presidents, John Dougall, M.D_; Thendore Cash, M.D., F.R.S. Honorary Secretaries, Alezander Napier, M.D., 3. Royal Terrace, Crosshill, Glasgow; Sidney: Harris Cox Martin, II. D., 60, Gower Street, London, W.C.

A special discussion will be opened by Professor Theodore Cash, M.D., F.R.S., on Carbolic Acid, Antipyrin, Antifebrin, and their Allies, especially as regards their Antipyretic, Analgesic, and Antiseptic Actions. T Dr. Walter G. Smith (Dublin) will take part in the discussion
Dr. W. Allan Jamieson (Edinburgh) will show two cases of Feroderma Pigmentosum.

The following hare promised papers
DovigalliJ. M.D. Glasgor. (Title not received.)
DEYSDALE, C. .h., M.D. 2. On the Therapeutic Yalue of Alcohol 2. The zocalled Abortive Treatment of Syphilis.

Section L.-Laryngology and Rhinology.
Divinity Class Room.
L. Laringologt and Rhinology.-President, Felix Semon, M.D. Tice-Presidents, George Ilunter Mackenzie, M1.D.; Peter McBride, M.D. Honorary Secretaries, D. Newmen, M.D., 18, Woodside Place, Glasgow; A. E. Garrod, M.D., 9, Chandos Street, Carendish Square.
The following subjects are proposed for special discussion:

1. The Use and. Abuse of Local Treatment in Diseases of the Upper Air Passages, To be opened by Dr. de Havilland Hall (London) and Mr. Stoker (London).
2. The Cauaes, Effects, and Treatment of Nasal Stenosis. To be opened by Dr. Macintyre (GIasgow) and Mr. Creswell Baber (Brighton).
3. Hemorrhages from the Pharynx and Larynx, and other Hæmorrhages which simulate these. To be opened by Dr. Percy Kidd (London) and Dr. Hodgkinson (Manchester) (probably).

The following gentlemen hope to take part in the discussious: Fr. I'rosser James (London), Dr. McBride (Edinburgh), Dr. Charles Warden (Birningham), Dr. Cartaz (Faris), and Mr. Richard Ellis (Newcastle-on-Tyne).

The following papers have been promised.
Johsstone, R. Mackenzie, M.D. Account of a Case of Tumour of the Jiso Pharyn.
McBride, P., M.D., Edinburgh. On Hay-Fever and Allied Conditlons.
Maccitire, J.. M.D. Anatomical Demonstration of the Laryns.
N:wmax D., it. D . Two Cases of Complete Laryngeal Stenosis" proituced by Wounds of the Laryny in Attempted Suicides.
WARDEX. C., M.D. (Title of paper not yet received.)
Members desirous of reading papers, or joining in the discussions, are earnestly requested to communicate without delay with the Secretaries of the respective Sections.

## Anveat MCsELM.

Tue Annual Museum will be held on August 7 th, Sth, 9 th, and 10 th. in/the Examination Hall of the University of Glasgow, and will be arranged in the following six Sections:

Section A.-Food and Druge, including Antizeptic Dressings, and other Chemical and Pharmaceutical Preparations. (Honorary Secretary, R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Street.)
Section B.-Pathology, comprising Caata, Models, Diagrams, Microscopical Preparations, and Micro-organisms. (Honorary Secretary, J. Lindsay Steven, M.D., 34, Berkeley Terrace.)
Sectron C.-Anatomy, comprising Special Dissections, Methods of Mounting, Abnormalities, Drawings, Medals, atc. (Honorary Secretary, J. Tule Mackay, M.D., 34, Elmbank Crescent.)
Section D.-Physiology, consisting of Apparatus, Microscopès; Microtomes, and Nicroscopical Preparations of Normal Hiatology. (Honorary Secretary, J. McGregor Robertson, M.A., M.B., C.M., 400, Great Western Road.)

Section E.-Instruments and Books, including AppliancesMedical, Surgical, and Electrical. (Honorary Secretary, J. MacintyTe, M.B., C.M., 173, Bath Street.
Section F.-Sanitation (1) Domestic Sanitary Appliancea, embracing all Improvements applicable to the Treatment of the Sick in Private Dwellings. (2) Personal Hygiene, including Dress and Gymnastic Appliances. (3) Ambulances, Carriages, and all other Appliances used for the Conreyance and Treatment of the Sick and Wounded, either in Civil, Naral, or Military Practice. (4) Drawings, Models, and Apparatus illustrative of the Ventilation, Lighting, and Draining of Hospitals. (5) Hospital Furniture. (6) Sanitary Appliances in connection with Educational Institutions and Public Buildinga. (Honorary Secretary, 1, 2, 3, Robert Pollok, M.B., C.M., Pollokshields; Honorary Secretary, 4,5 , and 6, A. W, Russell, M.A., M.B., C.M., Western Infirmary.)

Intending exhibitors ahould communicate as early as possible with the Secretary of the Section in which they propose to exhibit, as the Iuseum Catalogue must be complete one month before the date of meeting. Inquiries as to advertisements in the Catalogue should be sent without delay to Dr. Thomson, 3, Melrose Street, Glasgow.

Honorary General Secretaries of Museum Committee, A. Ernest Maylard, B.S., M.B., 4, Berkeley Terrace: R. S. Thomson, B.Sc., M.B., C.31., 3, Melrose Terrace.

Honorary Local Treasurers, Joseph Coats, M.D.; Jas. B. Russell, 3.D.

Honorary Local Secretaries, John G. McKendrick, M.D., F.R.S., 45, Westbourne Gardens, Glasgow ; James Christie, M.D., Hillhead, Glasgow : John Glaister, M.D., 4, Grafton Place, Glasgow.

## EXCURSIONS.

The following eight excursions will take place on Saturday, August 11th.

1. Lanark and Falls of Clyde.-The party, limited to 100 , will leare the Central Station by special train about 10 A.M., for Tillietudlem, where, by the kind permission of the Earl of Home, an opportunity will be given to visit the ruins of Craignethan Castle, the scene of Sir Walter Scott's Old Mortality : proceeding on foot to the picturesque ravine of the River Nethan for about a mile: the party will then be conreyed by coach through some of the most charming Clydesdale scenery to the Falls, visiting Stonebyres, and then, by the kindness of the proprietor, will enter the Corehouse estate, to see Cora and Bonnington Linns. Returning by coach to Lanark, dianer will be served about 2.30 P.M., in the Clydesdale Hotel. After dinner the party will be shown the library of Dr. William Smellie, the famous obstetrician, which was bequeathed by him to the Grammar School of that town. It is a very interesting collection of books, containing two or three black letter volumes. It is also expected that the Lpe talisman, or "Lee Penny," will be shown to the visitors. This charm was taken from the Saracens by Sir Simon Lockhart, of Lee, after a battle, as part ransom of a captive. It was deemed a charm of great medicinal virtue in the end of the last century. It gives the title to The Talisman, another of the novels of Sir Walter Scott. Afterwards short excursions may be made on fout to Cartland Crags, Roman Bridge, Old Abbey, and Smellie's grave. The party will return from Lanark by special train to Glasgow, arriving not later than 8 P.M.
2. Ayr and the Land of Burns.-The party, fixed at 100 , will leave Glasgow about 9.30 A.M., by special train to Ayr. Thence hy conveyances it will proceed, via Maybole, to Crossraguet Abbey (one of the finest Gothic remains in Great Britain), thence to Cutzean Castle, where it is expected the party will be receired by his Grace the Marquis of Ailsa, and returning to Ayr by the sea-shore to Burna's Monument, Alloway Kirk, Burns's

Cottage, and "Twa Brigs." Dinner will be served at the Station Hotel,' after which, by apecial train, the party will return to town.
3. The Perthshere Highiands, Lochearnhead and Crieff-The party, numbering 100, will leave Buchanan Streat Station about 9.15 A.M., in special saloon carriages, for Lochearnhead, and during the journey will ace come of the finest Highland acenery, thence by coaches viä Loch Earn, to St. Tillans, where a halt will be made for refreahments, at the Drummond Arms Hotel ; then to Cannie, where a second halt will take place to visit the Deril's Cauldron, and thence to Crieff, where the party will be entertained to dinner by Dr. Meikle, at his Hydropathic Establishment. After dinner, ahort walks to places of interest in the neighbourhood may be made, and the party will leave Crieff in the same saloon carriages for Glasgow, where it will arrive about 8 P.N.
4. Callander and the Trossachs (Loch Katrine).-The party, 100 in number, will leare the same station as last at the same hour, in special saloon carriages, for Callander, where coaches will be in readiness to convey them to Loch Katrine. Dinner will be served about 2 p.M., in the Trossachs Hotel, after which risitors may'enjoy a sail on the loch to the Silver Strand, mentioned by Sir Walter Scott in the Lady of the Lake. The party will return by the same route to Glasgow, where it will arrive about the same time as the former excursion.
5. Arran.-The party, numbering 100, will leave Bridge Street Station in saloon carriages about 9 A.M., for Wemyss Bay, where, it will join the famous Clyde steamer Ivanhoe, which en route to Arran calls at Rothesay, and passes through the Kyles of Bute. Dinner will be served on board during the passage. On landing on the island the party will be enabled to risit Broderick Castle, by the kind permission of his Grace the Duke of Hamilton. The party will return to Glasgow by the same route, arriving there about 7.30 P.M.
6. Stirling, Bridge of Allan, and Dunblane Cathedral.-The party, limited to 100 , will leave Buchanan Street Station about 9.15 A.m. by special train for Stirling. On arrival visita will be paid to the Castle of historic renown, the Royal Infirmary, High Church, etc., under the conduct of Provost Yellowlees of that town, and Dr. Haldane, of Bridge of Allan, returning to the Smith Institute, where cake and wine will be served. Thence the party will proceed by conreyances to the Wallace Monument, via the King's Park, where an unriralled view is to be obtained, then through the demesne of Airthrey, the seat of the Right Honourable Lord Abercromby, to Bridge of Allan, where dinner will be served in the new Museum Halls. After dinner seats in the conveyances will again be taken, and the party will then drive through the grounds of Keir, the seat of the late Sir W. Stirling Maxwell of bibliophilic fame, and Kippenross, to Dunblane, where the Cathedral and Library of Archbishop Leighton will be risited. The party will then return by the famous Wharry Glen to the Spa at Bridge of Allan, where tea will be prorided for the visitors at the Hydropathic Establishment. The party will leave Bridgo of Allan for town, arriving there about 8 P.N.
7. Rothesay and the Kyles of Bute.-The party, fixed at 250, will leave Central Station about 9 A.M., by special train from Greenock. where it will join the new ateamer Victoria, specially chartered for the trip. The steamer will then sail down the Firth of Clyde to Rothesay, and thence will proceed through the Kyles of Bute, up Loch Ridden, and then round the Island of Bute to Kilchaltan Bay pier, where those of the party who choose may land to walk to Mount Stuart, the seat of his Grace the Marquis of Bute, visiting on the way the beaver colony, now ar almost unique sight. The remainder of the party will return to Rothesay by the steamer, where conreyances will be in readiness to convey them to Monnt Stuart; on returning, the party will alight at the Glenburn Hydropathic Establishment, where, by the kindness of Dr. Philp, the proprietor, tea will be served to the party at 5 p.M. Dinner will be served on board the Victoria en route. After tea a visit may he paid to Rothesay Castle. The return journey to Glasgow will be made by the same steamer, either to Greenock on Wemyss Bay (not yet decided), and thence by special train, arriving in town about 8 P.M.
8. Loch Lomond.-The party, numbering 150, will leare the North Britigh Railmay Station, Dundas Street, at 10 A.M., by special train for Balloch Pier, where it will be waited for by a special steamer; during its passage to the head of the loch all the places of historic intereat will be pointed out. Facilities will be glaven, by arrangement made before or in the early part of the
meeting, for an ascent of Ben Lomond by a small party. On arriving at the head of the loch fifty of the party (to be fixed by ballot or choice) will land, the remainder returning by the same steamer to Tarhet, where dinner will be served about 2.30 P.m. in the hotel. From here parties may visit Loch Long by a rery picturesque road. For the party of fifty left at the head of the loch a special dimer will be provided on board the steamer, arriving there about 2 p.M. The return journey will be made by steamer to Balloch, and by special train to town, arriving about 7 p.m. As this is the busiest time of the tourist season, intending visitors to this place should apply early, in order that completely comfortable arrangements mar be made.

Short descriptive sketches of the different excursions will be given in the Journal from week to week, in order to enable visitors to determine their choice, and also that early applications may be made during the meeting for tickets.

Francis Fowiee, General Secretary.

## SPECIAL CORRESPONDENCE.

## VIENNA.

[FROM OUR OWN CORRESPONDENT.]
The Question of Trephining in Cerebral Lesions.-Resection of Vermiform Appendix in Perityphlitis.
Professor Nothiagel recently showed the following case to the lmperial Royal Society of Physicians of Vienna. The patient, a girl, aged I8, had been struck on the head with a sabre. She instantly fell down, lost consciousness, and came to herself aftè half an hour with paralysis of the right arm and the right leg. The paralysis disappeared after some days, but some impairment of sensibility remained behind. Since then she constantly suffered from headache. About fourteen days after the healing of the wound, convulsions, lasting from one to two minutes, supervened in the right leg. At present the patient did not suffer from convulsions, and both upper extremities showed a fairly equal degree of power. The right lower extremity was somerrhat paretic, and was still subject to convulsire attacks, consisting in frequent and rapid contractions: consciousness and sensibility were unimpaired. The scar on the rertex of the skull exactly corresponded to the spot in the brain which must hare been injured. The central convolutions, and especially the centre governing the lower extremity, had their seat there. The only doubt was as to whether the neighbouring convolutions were not equally affected. There must be a lesion in the brain causing two conditions, namely: (I) debility and inhibition of function; and (2) irritation, as spasms used to occur occasionally. Both these conditions conld be explained by the supposition of a regetation of bone, having the periosteum as its point of departure. The important question now arises as to what should he done in a case like this. There was scarcely any doubt that the treatment with bromide of potassium and galvanisation, etc., wonld be quite useless. We had to ask the surgeons whether trephining was indicated in such a case. If no changes were to be found in the bone, the dura mater would have to be opened. The lecturer had a patient of his trephined last year, but without success, probably becanse the dura mater had not been opened. It was, moreover, a question whether the inconveniences from which the patient now suffered would justify such an operation, or whether the complete development of Jacksonian epilepsy should be waited for before any surgical interrention. The lecturer holds that this will probably not be the case. Docens Dr. Maydl remarked that about ten cases of this kind had been reported in the Journal of 1887 ; in two of these cases tuberculosis and sarcoma were present. In all these cases except that of sarcoma, the operation was attended with good results; in the case of sarcoma, recurrence took place, and the patient died. There was no doubt about the success of the operation, though there was an eleventh case on record (that of Bergmann) in which the operation ended fatally. As to the therapeutic effect, the results were not in all cases the same. In the majority of cases the attacks disappeared aftor operation, returned after a certain time, and completely disappeared after an interval of some weeks. Professor ron Dittel also spoke in favour of the operation.

Dr. Brenner, Assistant to Professor von Dittel, showed a patient, aged 19, who had been admitted into Professor ron Dittel's clinic in March last, with symptoms of severe intestinal obstruction. The history of the case and the intense pain in the cæcal region
led them to conclude, with a certain degree of probability, that they had to deal with perityphlitis and consecutive suppurating peritonitis. Laparotomy was performed on the day of admission. After opening the abdomen, u great quantity of pus escaped; the intestines were washed with a solution of salicylic acid; and on close examination it was found that there was an abscess in the region of the cæcum around the vermiform appendix, which was perforated. The vermiform appendix was ligatured and removed. The part of the crecum which had become affected by the suppurating process was drawn forwards and fixed to the abdominal wound by means of sutures, as resection of the intestine could not be done, owing to the collapsed state of the patient during the operation. The abdominal wound was closed, and healing took place by first intention. Three other cases of suppurating peritonitis following perityphlitis were treated in the wards of Professor von Dittel by laparotomy, but all ended fatally. Dr. Brenner remarked that the recent adrance in the surgical treatment of these cases consisted in the fact that operation was resorted to at an early date, and that the affected part of the intestine was remored from the abdominal carity. This was the first case of healing after resection of the vermiform appendix when general peritonitis was already present.

## BERLIN.

[FROM OUR OWN CORRESPONDENT.] Health of the Emperor.
The improrement in the health of the Emperor, which I mentioned in my last letter, still continues. The journals every day report increase of strength and appetite on the part of the illustrious patient. This agrees with what I am now able to state on the hest authority; namely, that the physicians in attendance on II M Majesty are no longer certain about the diagnosis. The pathological character of the swelling and the clinical course of the affection are so entirely different from all that is known generally to occur in laryngeal cancer, that to state the fact bluntly, the physicians do not know the nature of the disease witl which they have to deal. This uncertainty of course is in itself an irmmense improvement on the terrible diagnosis which was arrived at in November. This change of opinion has not yet been officially made known to the public, for fear of exciting hopes which might afterwards be disappointed.

It seems to me that a more hopeful opinion has prevailed since Professor Rudolf Virchow, who returned from Egypt not long ago, hat the opportunity of examining the affected parts. You are aequainted with Virchow's opinion that alveolar structure is to be considered as cancer only if the nested cells are found in the mucous tissue itself, and that alreolar structure in the epithehum -that is, above the mucosa-has no malignant character. This. however, is not the opinion of our greatest anatomist, Professor Waldeyer, whose researches on carcinoma, as rou know, are classicul. Waldeyer believes that nests of epithelial cells arranged like an onion constitute cancer wherever they are found. Therefore where Virchow finds only "pachydermia laryngis." Waldeyer sees cancer. The future will show which of these eminent pathogists is right. The fact, howerer, remains that the Emperor himself must be more hopeful as to his prospects of life than he was some time ago. This is proved by certain acts of political importance. When His Majesty returned from San Remo after the death of his illustrions father, the continuity of the Government was not interrupted in any manner. The ministers remained in their places, and no liberal measures were brought forward, though it Was well known to the Whole German people that the new
Emperor was far more liberally inclined than his predecessor. The conviction, therefore, was universal, that the sick monarch did not mean to begin what he was sure not to finish. Since about a fortnight a change is to be observed. Eminent deputies of the Liberal party, like Firchow and Forckenbeck, hare been honoured with high decorations, and the position of the Minister of the Interior, Herr ron Puttkamer, an extremé Conservative, seems to be considerably weakened.

All this proves that the Emperor has taken the reins of Goverument into his own hands, and that his physicians must have giren him hopes of a longer life. Eren Professor Senator, who was absolutely convinced of the malignant nature of the disease, is now, as I hare just heard, not without hope that the Emperor's life may be prolonged for several years.

## PARIS.

[FROM OUR OWN CORHESPONDENT.]
Sulilen Deathe from Hound of Larynx.- Uterino Tetanus. It it meveting of the Société de Chirurgie, April oth, 1888, 11. Chanvel read notes of a case which had come minder the notice of 31. du Cazal of sudden death from a wound in the larynx. A quartermaster swallowed a bit of glass, which wounded the larynx. After violent attacks of pain the patient suddenly died. The necropsy revealed ulceration of the lower part of the left rocal cord. The patient might have been saved by tracheotomy, but neither suffocation nor any other symptom indicated the operation. According to N. du Cazal's opinion, the patient died of rellex syneope. 31. Chauvel was surprised that the subglottic surface of the rocal cord should be wounded withont hemorrhage ensuing. Ife believed that death was caused not, by the wound, but by subglotic oedema. It is to be regretted that a laryugoscopic examination was not made. In such cases it is fatal to temporise. To support this assertion, M. Chauvel related the case of an Arab suffering from laryngeal syphilis, who olstinately refused to allow him to perform traclieotomy. The latter remained near the patient with the intention of operating on the first signs of urgency, but the Arab died suddenly in one of the attacks.

Dr. Duriez has lately published an interesting paper on a very rare aceident of confinement-namely, uterine tetanus. The womb may be affected during labour in various pathological ways bearing some analogy to uterine tetanus. These are (1) uterine rheumatism, the symptoms of which are fever, with sudden pains, possibly extending beyond the womb, increased by pressure and morement; (2) puerperal tetanus, the result of infection: this resembles surgical tetanus, and is consequently accompanied by trismus, opisthotonos, ete. It is followed, after the delivery of the child, by spasms of the inner orifice of the womb, which closes, preventing the issue of the after-hirth, or affecting the womb itself, produces complete or partial hardening of the placents. Spasm of the womb may occur in connection with conlinement, and is characterised by its sudden contraction, or of its neck, when the latter beeomes rigid. If the spasm be continuous, then it is caused by uterine tetanus, which is simply a permanent contraction of the womb lasting from eighteen to thirty-six lours. It may be caused by the carly rupture of the membranes, loy any obstacle to delivery, and by a wrong presentation of the ehild, eapecially when the shoulders present. The prognosis is absolutely fatal to the elind, and is dountful for the mother, whose safety is endangered by the long labour, and the measures necessary to assist delivery. Preventive treatment consists chiefly in rectifying a faulty presentation. In a case of tetanus, the means of allaying the spasm being uncertain and at times dangerous, if, after several attempts at rersion, attempted under chloroform, the delivery is not effected, it is better to have recourse at once to embryotomy. The arerage of deaths from this operation. is about 8 in 53 .

## SWITZERLAND.

[FROM OUR OWN CORRESPONDENT.]

## Bacteriological Test for Surgical Tuberculosss.

AT a recent mecting of the Medicinisch-Pharmaceutischer Bezirksverein ron Bern, Dr. Tavel read an important paper on a novel method of differentia] diaguosis betwren tuberculosis and other affections, by inoculation experiments on guinea-pigs. The method is at present systematically practised by Dr. Tavel, in I'rofessor Kocher's surgical clinic, in all eases where it is necessary to differentiate a tuberculous affection from syphilis, traumatic granuloma, non-tuberculous ulcers, polyarthritis deformans, lymphoma malignum, gonorrhou, acute abscesses, malignant tumours, glanders, and actinomycosis. Guinea-pigs are seleeted for the purpose, because these animals are peculiarly susceptible both with regard to scrofnla and true tuberculosis, which is not the case with rabbits. Moreover, the course of the disease in the former is by far more rapid than in tho latter. In guinea-pigs, a positive diagnosis becomes possible from tivo to four weeks after inoculation. From the results obtained in 120 cases where thils diagnostic inoculation was practised, from one toltre animals being ued in cach case, Dr. Tavel lays down the following propositions: I. If the case is of tuberculous nature, inoeulation invariably gires rise to the development of tuberculosis in the animal experimented upon. 2. The method requires far less time and
trouble, and gives more trustworthy results, then microscopic examination. 3. The method is certain, even where anatomical examination is practically impossible. The single inconvenience attending it is that the diagnosis cannot be made till after the lapse of a couple of weeks. In the discussion which followerl Dr. Tavel's communication, Professor Kacher said that the bacteriological differential diagnosis in eases of surgical tubereulosis wis an important advance, because, to use his own words, "the clinician who seeks support from the anatomist is always forsaken by the latter just at the eritical moment when he more than ever stands in need of learning something sure and certain. Now at last we have at our disposal a method which can be relied upon."

## EGYPT.

[FROM OUR OWN COTRESPONDENT.] Annual Exodus.-Recurrent Sarcoma of Nech.
Every year there is an exodus from Egypt of people who try to make out that they eannot support the terrible summer heats. The necessity for this is entirely fictitious, for, compared with India and other Oriental plsces, there is absolutely no reason why Europeans should not remain and thrive in this wonderful country for years together without a break. When 1 say no reason, 1 pass over the fact that they mist, of course, take some slight trouble to saerifice to sanitation; must bear some expense to have their homes put into a moderately hygienic condition. If they choose to live over a festering cesapool, they must, of course, expect to suffer; but, in common fairness, our admirable climate should not be blamed for the results of their own crass carelessness. I repeat, with every contidence, that there is nothing in the climate of Egypt to injure Europeans. If they take the trouble to make their houses wholesome, they should enjoy better beslth in this mueh maligned, country than in their own foggy and damp native land.

Notwithstanding the exodus, the siek still keep coming in to Kasr-el-Aini Hospital. The following notes of a recent ease may prove interesting. Neborns, aged 6, daughter of Egyptisn parents, was first admitted in $188 t$ with a small tumour below the right ramus of tine jaw. She was operated on by the native professor of surgery, lut in 1886 had to be readmitted. She had then an enormous tumour, extending from the left angle of the jaw to within half an inch of the symphysis menti. It was adberent to the skin and deep parts, and had a thickness of about three inches and a half. As the tumour involved the common carotid artery and the internal jugular vein, it was removed with great difficulty; about threequarters of an ineh of the artery being included with the ablated part, as well as a portion of the psrotid gland, and about half a square inch of the periosteum of the lower jaw with the subjacent bone. The facial nerve was also at the same time divided. On the fourth day the dressing was renewed, but, during the process, s sudden burst of homorrhage took place from the common carotid artery, which was with difficulty controlled with the finger till the necessary instruments could be brought to ligature the vessel. The wound healed in thirty-hive days by granulation, and the child was soon afterwards discharged. In April this year, however, sle was readmitted with a tumour in the old position, extending from the parotid gland to the symphysis, and consisting of two distinct masses; the larger and superior being the size of a small cocoannt, and the smaller, lying below the inner third of the maxilla, being about as big as a chestnut, and separated from the larger mass by a deep groove. This smaller mass was diagnosel by Professor Virchow, who was passing through Cairo, as all elllarged gland. The tumour was removed on this occasion more easily than at first; the blood-supply being found to come from the facial and inferior thyroid arteries ; there being no trace whatever of any carotid artery or internal jugular rein. In the groove between the two portions of the sarcoma there was found a small exostosis, about one inch long, half an inch broad, and one line in thickness, arising from the lower jaw at the place where it had been scraped during the previous operation. The tnmour had evidently, in its growth from the deeper parts, come across this exostosis, and, being unable to displace it, a portion hard passed behind, and, bulging out on the other side, had simulated the appearance of a swollen gland to such an extent, that the great pro-fessor-wbo is called by the Egyptians Aboo Awram, the Father of Tumours-whe deceived. The wound is now all but healed. and the little patient relieved temporarity of her disease.

## LIVERPOOL.

[FROM OUR OWN CORRESPONDENT.]
New Royal Infirmary.-The Teaching of Anatomy.-Modgkin's Disease.-Low 1)eath-rate.
The new Royal linfirmary, the foundation stone of which was laid last October, is making rapirl progress, and already a fair iden may be obtained of the appearance and arrangement which it will present when "finished. It is being erected of local grey brick, with dressings of red terra-cotta, and glazed bricks will be largely used in the interior. The wards will be arranged in six bloeks, and will contain altogether 280 beds. There is a special set of rooms for the out-patients, and a separate block is to be deroted to the administrative department. The contract price for the building is $£ 105,000$, but at the time of commencing the operations the amount subscribed fell short of that sum by $£ 15,000$, and accordingly the Committee decided to defer the erection of one of the wings until the necessary funds were provided. Since then, however, additional subseriptions have nearly made up the deficiency, and the entire building will be proceeded with aecording to the original designs. The architect is Mr. A. Waterhouse, R.A., of London. During the construction of the new building the work of the Infirmary is earried on in commodious temporary premises which have been erected at considerable outlay, supplemented by the building that was formerly the Lock llospital, and has now been converted into two medieal wards.
In the School of Medicine some improvements have recently been introduced in the arrangements of the anatomical department. The dissecting room has been surrounded by a dado of glazed tiles, and the so-called "boneroom" has been enriched by numerous preparations of great utility and beauty. No device has been spared to make the intricacies of anatomy plain to the student, and Mr. W. Mitchell Banks, the Professor of Anatomy, is to be congratulated on the completeness of his arrangements.
Two cases of Ilodgkin's disease here lately been in the Royal Southern Ilospital under the care of Dr. Carter. The first was a man, aged 50 , in whom the disease had existed five years, and when treatment was commenced abont five months ago there was extreme glandular enlargement all over the body, the inguinal clands on one side forming a lump as large as an infant's head. The blood corpuseles were in normal amonnt, and anemia was not marked. The medicinal treatment adopted was arsenie, continued for three months, and supplemented during the greater part of the time by iron and quinine. At the present time the glands can scareely be felt, and the patient is practically well. The second case is still under treatment. It is rerarkable that in both putients effusion took place into the left pleura, apparently from the pressure of the enlarged glands. The first case was tapped three times.
The number of deaths registered in this city during the week ending Slay $26 t h$ was 191 , being at the rate of 16.6 per 1,000 in the ycar. This is the lowest death-rate ever recorded in Liserpool. The temperature during the week was unusually high for the time of year, reaching a maximum of $71^{\circ}$.

## SHEFFIELD.

[from our own correspondent.]
Cessation of Sinall-po.x Epidemic.-Cost of Taccination.-Physiology and Elucation.-Heavy Damages ayainst a Railuray Company.
Tue small-pox outbreak has now so much subsided that it ean hardly be regarded as epidemic. Scattered cases still oeeur, but the last weekly return showed only three deaths attributable to that cause. The Manchester and Shefficld lailway Company commenced to run their excursions for Whitsun week, and it is expected now the Midland will follow with their cheap seaside and other trips. The cloud which has so long hung over the town, and so seriously interfered with its trade, has now it is hoped disappeared. Lyery well-wisher to "Steelopolis" will fervently pray that it may be very long before the health of its inlabitants and its commeree are again uffected by sueh a scourge.
At a meeting of the Ecelesall Boarll of Guardians recently, it was annonnced that the eost of public raccimation for the year ending Lady day last was $£ 9214 \mathrm{~s} .2 \mathrm{~d}$., as compared with 18. 100d. for the previous year. No doubt the increns d expenditure would be found to apply particularly to the montlis of December, January, and February, when revaccination was so muel encouraged.

Dr. Dyson recently read before the Literary and Philosophical Society a valuable paper entitled "Some Physiological Aspects of a Modern Education." By request ${ }^{\text { }}$ it was repeated before the Sheffield Teachers' Ginild. From the standpoint of a physician and physiologist he pointed out the errors in the systems of the slay and the dangers accruing therefrom. The audience consisterl of teachers of all grades, and their willingness to learn and the spirit in which the lecturer's remarks were received were very gratifying:
Two elaims for damages in consequence of injuries received at the Hexthorpe (Doncaster) railway disuster were decided before the Under-Sheriff on June Ist. In one case, that of a solicitor, aged 28, who had undergone amputation of one leg and sustained severe injuries to the other, $£ 4,000$ was awarded; whilst in the other, a clerk obtained $£ 950$, having had fracture of a leg.

Dr. W. R. Thomas has resigned his office as Physician to the Public Hospital and Dispensary, intending to practise in Bouraemouth.
The folloming institutions have received legacies from the executors of the late Mr. Joseph Nicholson: General Infirmary, $£ 525$; Jessop Hospital for Women, £105.

## MANCHESTER.

## [FROM OUR OWN CORRESPONDENT.]

Whitsun Week.-Conversazione in Owens College.-Chair of Surgery. -Proposed Gift by Whitworth Trustees.
It is the enstom in the Medical School of Owens College that no lectures are delivered during Whitsun Week, when all Manchester holds ligh holiday. The lectures were resumed on llonday, May 2sth.
The Council of the Owens College has issued a large numberseveral thousands-of invitations for a grand conversazione, which is to be held on June 8th, on the oecasion of the opening of the magnificent Biological and Geological Laboratories and Museum. These buildings were used by the members of the British Association at its Manehester meeting; but on the day mentioned they will be formally opened, though they have been in use for some time.
Very little has so far been heard as to the racancy in the Chair of Surgery, but so much is certain that sereral loeal gentlemen are likely to be candidates, and it is said that perhaps others may apply; bat as the time for receiving applications does not expire until June ath, the names of the actual eandidates are not likely to be known until that date. The Council, in its statement of the duties of the new professor, intimate that the duties of the chair may be rearranged.
Some time ago, the Whitworth Trustees intimated that they were willing to present a large piece of land for use as a publie park and as a site for a museum and other buildings. The trustees now propose to increase their gifts; and it is probable that, within a short time, Manchester-through the generosity of the Whitworth Trustees, combined with the Exhibition surplus-will be possessed of teehnical schools and an enlarged art-school.

## CORRESPONDENCE.

## DR. N゙ITZE AND ELECTRIC ILLUMINATION OE THE

 BLADDER.Sir,-Dr. Nitze writes me, stating that the original idea of introducing a light into the carity of the bladder belongs solely to him, and suggests that I have not made this appear distinetlj in my late lectures on the subject.
When I showed the instrument in London, in the year 1880 , soon after its invention, I said: "The idea of earrying an electric light into the bladder and other cavities appears to have originated with Dr. Nitze, now of Yienna; but its realisation is due to the patience and perseverance of Leiter, the surgical instrument maker, of that city." 1 quote from a lecture given at that date. and since widely circulated in my "Clinieal Lectures." I had just come from Vienna; that was the impression 1 received there, and the statement has not been called in question hitherto. I am quite unable to enter into any discussion as to the relative shares of merit due respectively to the originator of the idea, which I fully helieve Dr. Nitze to be, and the clever mechanician sho rendered it practicable, and who lias subsequently improved it, as, with teehnical knowledge, he might naturally be expected to do. In
general terms, the chief merit is unquestionably due to "the thinker," and I regret that I did not give more prominence to that fact in my recent lecture, Had I but repeated the words quoted above, I should only have done simple justice to Dr. Nitze, whose name the instrument ought certainly always to bear. But I regarded the matter as already known, and merely mentioned incidentally Dr. Nitze's association with Leiter, without, on that occasion insisting on the Doctor's claim as the original inventor. Itrust this statement will be satisfactory to Dr. Nitze, as I unfeignedly desire it should be.-1 am, tetc,

Wimpole Street.
II. Thompson.

## TllE TREATDENT OF AURAL EXOSTOSES.

Sir,-1f Mr. Field had heard at the Royal Medical and Chirurgical Society the paper which he criticises in the Journal of June and, he would liave observed that references were made to the account (published in 1876) of my operation in 1874; also to his first operation in I877, and his further published cases.

I am sure that (had he heard or seen the paper) his comments would have been valued and received with attention. I am equally sure that tle impressions he now has of the contents of the paper would have been in muny respects quite different, in others the exact opposite of what he appears to have at present.

If Mr. Field will bring the cases he proposes tu publish before one of the Societies in London, l shall be happy to discuss all the points to which he refers in his letter. - I am, etc.,

London, June 3rd.
IV. B. Dalby.

## URTICIRIA DIFFUSA OCCURRING AFTER OVARIOTOMS.

Sir,-Mr. Butler-Smythe's communication is interesting, and conhirms an experience which bas been to me quite a common one. dfter almost all kinds of abdominal section, acute attacks of urticaria occur in at least six or seven per cent. of the cases. It seems sometimes to come in outhreaks, for I have quite lately liad the appearance he describes come over eight or nine cases, one after the other, within two or three weeks; and this is by no means the only incident of the kind which I liave witnessed. The symptoms art occasionally someshat severe, but they never give any reason for anxiety, aud the administration of a saline purgative generally eauses them to disappear. - 1 an, etc.,

Birmingham, June End.
Lawson Tatt.

## ГTHETHSATON゙: AS INRECOGVISED DAN゙FER.

Sirn,-llaving noticed more than once the collapse subsequent on prolonged ether-anasthesia, 1 have often thonght how simple it would be to lave an operating table made of zine or tin, hollow, which could be filled with hot water hefore operation, and whicl!, when covered with blanket, would contribute immensely to the patient's comfort, as well as tend to prerent the chance of collapise.

A table like those seen in restanrants for keeping roast joints bot all day will explain what I suggest. The interesting paraErnph in the Joursas of Jume Bul on Etherisation, etc., has prompted me to publish this suggestion; and I fancy, if carried into effect, it would be uspfil at lenst in hospitals, where prolonged operations are the male.-l am, etc.

Dublin, June 3rd. 'IuFxANDER DUKE, F.K.Q.C.P.I.
MEDICAI OFFICFRS OF HEALTII AND COUNTY BOARDS.
san, - lane received a coly of a circular signed by some medical officers of hoalth chicfly in the south-west of England, in which they refer to the question of compensation which they propose to claim in case the forernment decide to attach medieal officers of health to County Councils, and to discontinue the services of some medical nllicers of health holding annual nppointments of minor districts. The ery for compensation is a very natural cry, and one which will always find very numerons adlerents among the persons interested. In the first place, how'ver, I wonld remind those who may be addresaed on this subject, or who may frel interpated in it, that the proposal to create adequate districts for sanitary purposes, and to officer them by medical officers of lealth of full qualification with adequate salaries, and not in private practice, is one which has been uniformly aimed at by the best professional authorities and endorsed by the British Medical Association for a long series of jears. It was the plan which the Association expressly adopted after the most elaborate consideration of the whole sub-
ject at the instance of Rumsey, Stokes, A. P. Stewart, W. H. Michael, Farr, Sibson, and of all the recognised leaders of the Association. This plan they, at the request and with the concurrence of the Association, urged upon the Government year by year, and their evidence before the Royal Sanitary Commission, earnestly pressed it upon that Commission. Further, in the very able and detailed report presented to the annual meeting of the British Medical Association at Plymouth in August, 1871 , and unanimously adopted without one dissentient voice, the joint Committees of the British Dedical and Social Science Associations severely criticised the report of the Royal Sanitary Commission on the ground that it did not adequately provide for the extension of administrative areas as health districts.

It is well known," says this report, which was unanimously adopted by the Association, "that petty elective authorities in small separate districts are apt to obstruct rather than forward sanitary improvement, and that for the most part they render any uniform and efficient system of administration almost impossible."

Again they say, referring to the proposed creation of about a thousand limited and isolated areas for sanitary purposes, against such a project of Local Government, "we strongly and earnestly protest," and they especially complain that "While the Committee propose to facilitate the combination of districts for limited purposes, its adoption is to be merely permissire," and they protest against the distinction between urban and rural authorities.

Further on in the report they urge, as an important reason for wider administrative areas, that they would supply a superior machinery for the appointment of scientific medical iofficers of health.

And again they say that it is almost impossible to orerrate the importance, or to question the practical wisdom, of the recommendations for, as far as possible, providing such areas and making such appointments as will ensure the employment of a medical officer of health who, not being in practice, will not be the riral of bis brethren, so that he may secure their goodwill and co-operation, and that opportunities of admonitory intercourse with sick families should not eren be liable to abuse for the purpose of professional competition.

This memorandum, which is the locus classzeus of sanitary principles of administration, laid down after the most earnest and continuous study of the subject by the very ablest sanitary uthorities in the profession, who were also the leaders of the medical profession, establishes indisputably the principles of sound administration in respect to medical officers of health, their ureas and their qualifications, whether in the interest of the public or of the profession.

The main difficulty of the Government was then, and is up to this moment, that the boundaries had not jet been fixed, county hoards had not yet been established, and the requisite authority for the larger area had not yet been hrought into existence. It is, therefore, a matter of course that either now, or at a very early date after the creation of the county boards, the sanitary administration should be constituted under suitable medical oflicers of health over a suitable area thus arranged; and the Govermment have recognised the necessity for this by providing that the County Councils slould have cognisance of public health questions.

The Bill as drafted falls short of providing suitable medical officers to advise the Councils, and to enable them to carry out the functions so imposed upon them. Without such ofbeers it is obvious that the Act must in this respect be a read letter, and the canse of public health retarded and obstructed. In calling the attention of the Government to this defect in providing adequate machinery, the Society of Medical Ofticers of Jealth is true to the best and noblest traditions of the profession; while the I'arliamentary Bills Committee of the British Medical Association las only followed in the comrse absolutely laid down for it, and defined hy the Association in past years when dealing with this smbject.

I have read, therefore, with some surprise the very narrowininded doctrine of the circular letter referred to, which appears to be based upon purely selfish and personal considerations. There is reason, however, to suppose that the probable fear which some of its signatories entertained, that their own individual functions in respect to public lealth mas be determined, and that their own appointments may come to an end, is exaggerated and without foundation. It is obvious that a considerable proportion of the appointments, and all those which are most valuable, whether in reapect to the services performed or the salaries earned, are far
more likely to be continued, strengthened, and extended, than to bo in any way diminished. It is notorious that a considerable number of medical officers of health of small districts only hold those appointments reluctantly, and to keep out intruders in practice, and would very willingly reaign them if a county officer not in practice were appointed over a large district, to which he ahould give his whole time and care. But, however this may be, it would be an evil day for the profession if it was supposed that at a given moment, and in order to obtain the continuance of annual salaries on a small scale for a given number of its members, it should sacrifice the principles for which it has contended, and turn its back upon its deliherate and declared conclusions of what it best for the profession and the public as a whole, in order to satisfy $s$ mall
and purely selfish objects. On the question of compensation which the circular raises, it is clear that these gentlemen are not willing to face the position. They refer to the compensation claimed by publicans as a precedent for compensation to be a warded to themselves in case their functions should cease.
Now there is a great division of public opinion on the question of compensation to publicans, but the two cases stand on a wholly different footing. The publican claims to be recouped for the large sums which he has expended on the purchasing of a goodwill of a business for which he has given many thousands of pounds, precedent for the public Acts of Parliament which hare created a he bought on the faith of Acts of Parliament; that, at least, is his contention, and on the justice or injustice of it will depend his claim. The medical officer of health stands, and always has atood, upon an absolutely different footing. He is a salaried annual officer, who receires an annual salary for work done, and is constantly subject either to the suppression of his office altogether, under the existing law, if at any time the local authorities choose to combine and form a larger district, or to dismissal at any time without compensation. Any medical oflicer belonging to a conjoint district, and who is paid by contributions from separate districts, is liable at any moment to the cessation of that portion of his salary paid by any authority within the combined district. Whenever any one of these authorities chooses to withdraw, his salary ceases, and no question of compensation ever has or can be raised. As well might the qualified assistant of the general practitioner claim compensation if his employer ceases to practise, or enters into a new partnership, or chooses to alter his arrangements for any other purpose. Thus to attempt to create a demand on the ground of vested interest, with a view to opposing a salutary reform which the whole profession long since endorsed, and which every sanitary authority without exception has approved for a long course of years, is, in the name of professional interest and duty, to prostitute every other consideration to that of imaginary personal profit. Such a course of action is more damaging than anything else could be to the reputation of the profession and to the advancement of tho cause of public health. -I am, etc.,
11. O. H.

Srn,-Like many other medical officers of health, the other morning I received a circular from a committee of gentlemen who hare issued it, presumnhly in the interests of those who hold puhlic health appointments under "small" authorities, and who worls their appointments in conjunction with their private practices. This circular I enclose you.
In this circular, if I may le allowed to criticise it, I think there is much that is unreasonable and much that is reasonable in the principles it circulates. In the first place, it is notorious how many appointments are made and held in which there is no pretence to sanitary work. These sinecure appointments may well be disestablished. Then there are a goodly number of able, active, and conscientious officers who are much hampered in the good they might do ly local interests, which might reflect upon their good results to sliow for their work, and suct andionately got appointment, as by combination under the County Board, might bring with it some hardship such as the circular indicates. But in puhlic health administration the welfare of the community is the first consideration; and, as it appears to me, there is no renson why these interests and those of the cited conscientious medical officers of health should be conflicting. The prospect is that, by, the division of the country into "combined sanitary districts," there will be appointments in sufficient numbers, and open to these officers, or, at any rate, for such as are sufficiently enthul-
siastic, or who might find it worth their while to accept auch appointments.
In the second place, the qualification test, if applied, as the circular says, "to the exclusion of the older medical officers at present in office, in favour of younger men fresh from echool and armed with a hran new diplowa in sanitary science." might, and probably would act-and very unnecessarily so-to the prejudice of the existing race of health officers, who have made sanitation what it is. Fully recognising the advantages and the desirability of some standard of qualification such as a diploma would testify to, I would suggest that the licensing bodies granting such diplomas might with very good reason so modify their public health examinations to practitioners of some years' standing (for, say a year or two) that the grounds of complaint above quoted, and the unequal facillties for preparation for examination enjojed by men established in practice (without very considerable sacrifice), might be removed. The credit of the public health service would in no way suffer by such a proceeding.-I am, etc.,
a Rural 3. O. II.

## NAVAL AND MILITARY MEDICAL SERVICES.

## ARMY MEDICAL DEFENCE FUND.

Nenical Stafr writes: The Government and its medical advisers having群 chear of the medical staff. it only remains for action to be taken on the lines laid down by Surgeon-General Irving in the Journal of May 5 th.
laid Staff Defence Fund, and the proposers will find that subscriptions will at. Staff Derence Foming. An annual subseription of f1 per annum will probably once be fortheom. An ancent income, and with such a sum much can he produce 21,00 a done. It is obriously impossible
movement, but it is equally certain that they will warmly support it. It only remains for Surgeon-General Yrwing to lay the detaits of his scheme before the medical officers of the army through the eol the pecessary. financial calling for the names of those wtlling to sulberibe, and the necessary financiat support will be at once assured htm.

## THE NAVY

THE following appointments have bed made at the Almiralty:-THomas C. Hicker. Fleet Surgeon, to the Benbow: Crristopher Haryey, Staff-Surgeon, to the Neptune: Thomas M. Sibbald, Staff-Surgeon, the the President, anditional.
 temporaril: Graram the Otuell; and Robert F. Borrie, Surgeon, to the Excellent.
Excellent.
Johr Souter to be Surgeon and Agent at Buryhead; James Litile to be Surgeon and Agent at Maryport.

## ARMY MEDICAL RESERVE.

SURGFON-Commasidax A. T. Norton, London
to be Surgeon-Major (ranking as Lieut.-Colonel). Surgeon and Honorary Surgeon-Major Thomas Partridge, 2nd Voluntees Battalion Gloucester Pemiment (late the 2nd Gloucester), and Surgeon R. P. Frazer, Ist Volunteer Battalion Rora
be Surgeon-Major (ranking as Xajors)
Surgeon J. E. Suvire, M.D., London Division Medical Staff Corps: ActingSurgeon II. W. Roberrs, 2nd Volunteer Battalion Royal West Kent Regiment Surgeon 1r. Kent) ; Acting-Surgean D. V. Rees, 1 st Volunteer Battalion South Wales Borderers (late the 1st Brecknock); and Surgeon J. H. IIAs, M.D.. Fth Yolunteer Battalion Argyll and Sutherland Highlanders (late tha Ist ClackYolunteer Battainons ango to burgeons (ranking as Captains).
mannan and Kloross), to be Surgeons (ratiking as Captains)
THE INDIAN MEDICAL SERVICE. Btablislment, is ap
1)epiti Surgeon-General W. Walker, M.D., Bedgal Establishment, is rppointed to oficiate as Surgeon-General and Sanitary Commissioner with B. fovernment of India daring the absence on leave of Surgeon-General Sir B Simpson, K.C.I.F.
Sumson, K.C.l.F. Surgeon-Major C. II. Jouberr, M.M., Bengal Estahlishment, Offichating Civil Surgeon-Major C. II. Jovaert, M. B., Bengat to oficiate as Professor of Mid Surgeon of the 24th Pergunnahs, is appointer Physician at the Eden IInspital, wilery at the Medical Concge, Bud Obstric Surgeon-Major R. Harrey, M.D. Calcutta, during the absence on $C$ irlo Surgeon C. W. Owf.x. C.M.G.. C.I.F.. Bengal Lstabishment, on furlough of ofticiate as Agency Surgeon in Belooc
Surgeon-Major J. C. Fullerton, M.B. Establishment, whose services have heen Surgeon-Major G. Gikifitir, Bengal Establishment, whose services have Protempnrarity placed at the disposal of the Government of the North-west frofempnrarity plared at the disposa to the civil medleal clarge of the Eiswall vinces a
District.
Brigade-Surgeon D. J. MCARtiny, M.D., Madms Fistablishment. Mentical Officer to the Qucen's Own Sappers and Yiners, bas leave of absence for one ycar on medical certificate.
Deputy Surgeon-General T. G. IIfurmet, C.I.E.. Bomlay Estahlishment, has retired ons pension of fato per annum, parable in linglant. Ile cntered the retired ons pension Surteon, Jaunary. path and attained the rank of bervice as Assistoreral, November Ist isig. He was present at the attack on Deputy Surgenn-General, Novenber 1st. in 1850 , and during the Indias Mutiny Arab tribes at Hodeide, in the led sea, ine tortifed village of Rowa. siege ant In 1858-59. Ife was at the destruct before Folah and pursuit of Gwalior rebels destruction of Awah. opera
(medal with clasp, C.I.K.). Major K. A. Dalal, M.B., and Surgenn A. W. F.
The services of Surgeon-Uajor h. A. Dalisl, d. Bo, a placed at the disposal
STREFT, D.P.O.. beth of the Bor ind Clvil Denart nicut
of Government for employment in the Clili Depart is appointed to officiate in
medleal charge of the 1 tith Nattve Infantry durlog the absence of SurgeonMajor W, C. Kilermander.
Brignde-Surgeon W. H. Jounkts, M.D.. Madras Fiatablishment, doiog duty in the fiantern Lisislet, is directed to do tluty with the Ilyderabid Subsidiary Forre.
The undermeatloned Surgoons, appointed to the Bengal Establishment reportend thelr arribal at Bombay on thas datesspecified A. Coleman, A pril gth: A. K. ßOMERTS, D. II. JAVIDsos. J. C. LAMONT, A. H. Nott. W. W. Whire,
 D. T. LAצY, M.D.\& R. C. JACWATr. IV. H.
and J. M. Macsamara. M. M., Aprll gand.
Brignde-Sirgeon J., F. T. Aitomisoy, M.D., C.J.F.. Bengal Lstablishment, has retired frum the service, whicl he cotered as Assistant-Surgeon, January 27th, 1853. He was engaged in the war in Atghanistan in 18\%8. and was at the engture of the Pelwhr kotal, for whleh lie recejved the medal with clasp.
In the Jourvil of May Isth it is stated, in the paragraph andouncing the retirement of Brigade-Surgeon A. Gannss, that he Jias no war record. We are asked to say that. this is not correct, as Brigade-Surgeon Garden was present



## FOREIGN SERYICN.

Renty tross have been issued from the War Oftice notifring that in future the period of servlce abread for medical and vet erinary officers, chaplainsjand officer of the Commolsariat and Transport Corps, Orduadee Store Corps, and Army Pay Department, will be fomr sears for station in the West Indies, Herniudas, China, Ceylon, and Mauritius, and six years for all others, exeept. the West Cosst of Africa, where each month's service will be reckened as the wee months.

Army Mrdical'Departuent. -The annual dinner was held in the Holborn Restanrant, on Tuesday, June . 5 th ; Sir Thomas Crawford, K.C.B., in the chair. There were also present: Sir William Aitken; Surgeons-General Balfour, C.B.; Ekin, C.B.; Fraser; C. A. Gordon, C.B.; Irvine; Nassy, C.B.; Muschamp; O'Sial, C.B.; Reade. C.B.; Febb. Deputy Surgeons-General Den: Jeffcoat: Laing; McGrath; Marston, C.B.; Sly; Feale; Watts. Brigade-Surgeons Anderson, C.1.E.; Candy, Clarke, Corban, Griblon, Hector, Jagoe, Jameson, Leask, Mackenzie, Mackinnon, Maunsell, Myers, Xash, O'Dwyer, Owen, Wilson, Wright. Sur-geons-Major Allin, Benttie, Boileau, Faris, Harvey, Jolinston, Le Mottée, Ligertwood, MeXamnra, Maturin, O'Farrell, Pratt, Rae, Roe, Shaw, Slaughter. Surgeons Clark, Falvey, ITarris, Harwnod, Kirkpatrick, Morris, Treherue, Trewman. The guests were Sir Andrew Clark, Bart.: Sir Willinm MacCormac; Director-General Dick. C.B., R.N.; Mr. Frnest Hart, Mr. Wakley, Mr. Clarke, and Mr. Norton.

## MEDICO-LEGAL AND MEDICO-ETHICAL.

CHIRTIFICATES OF SICKNESS IN SCIIOOL ATTENDANCH CASES.
T. $\AA$. II. asks whether it is legal torncelve the certhficate of a chemist in a school actendance case?
"- By Section it of the Elementary Eiducation Act 1870, the fact that a child has been prevented from atteading school by sickness or any other unaroldable canse" Is defioed to be a. "reasonable excuse" for his Tailure to attend school. When n parent is summoued, this, like noy other material fact, must, if disputed, be proved by proper evilence. The certificate of a chemist is just as good for thls purpose as the certlicate ef a qualilied medical practitloger or of anyouc clse-that is, it is leg:lly no good at all. Thes evidence on which the court acts is the statement of sonse person who knows the chlld to be ill, but the production of a certificate is often accepter as a rorroboration of that evilence. If objected to, a certificate ought in strietuess not to be recelved at alt.

## TIE APOTIECARTES HALI AND TIIE TITLE OF ITS NEW

LICENCE
Lic. Mest. Writes : In Mr. Carpenter's letter in the Journal, of May 26 th is the foblowtog jotsonge: :- To the, profission and to lawyers L.M. Lond. woulit imply " hacrontiate in Midwifers of the lloyal College of Surgeons," which would render any apothecary tiking that thtes, unless he possessed it liable to criminal procuedings." Stay Iask how it ls that, the majority of scoteh licentiates are allow el to call themselves J.M. Glasgow or Jidinlinrgh, whers thero is no such resist rable quallication given by any university or corvoristhern is an such resist rable qualmeation given by suy university or cor
". It is precisely because tho maiversitics and collegrs of Glasgow and Filinhurgh do not confer a sejarate Lenntiateshlp In Midwifery, as doen the College of Surgeon ( Fi ng .), that persons calling themselves " L. M, Cilnsg." or "L.M.lidin." would not by sa doing be Hable to prosecuthom, wo would a perann rupresenting le was a L.M. of the Colloge of Surgeons, foe falsely pretoruling theg passessed a legally reengaised diploma.

## " A HY1POTHKTIC.AI DASE,"

A. - If nur correspondent, Instrad of vasue, weneral Impntations, will submit a spectice charge in references to the rlleged misdolnge of B. a1d C. in the hypo Chef cal case briefly alluideal to in the Jourarat of Lay $26 t h$, we wll carefully conshler it, in conmection with any etatement from the other slde, and, if experlient, comment thercon. Is the case at present stands, A. cannot fall to recognise the fact that ne overt acts have been adduced on whlch we can comment, or arraignment made on which to adjudicate.

## ASSISTANTS AND LEGAL FEES.

Justrua asks whether it is the chstom for a qualified assistant to retain any part or the whele of fees recelved by him for giviog evideuce lo a police conurt. on a case which has been under hls care; also the same concerning evldence glven in a corcner's court.
*** A qualificd assistant can legally clalm the fee for giving eveldence at a pelice court or inquest, unless debarred by terms of his agreement, but surh claim is rarely made by any assistant who wlahes to retain the confidence and friendship of the prinelpal. In some cases the division of fees is made a matter of agrecment.

## UNIVERSITY INTELLIGENCE.

## LONDON.

Expenditure of the Unitersity. - Now, that a strong padeavour is being made to found a new university in London, considerable interest attaches to the following extract from the Educational Tstimates, 1888-89. For the London University the sums set apart are as follows:-Salaries and wages, $£ 3,503$; examiners, $£ 7,252$; exhibitions, scholarships, etc., $£ 1,997$; incidental expenses, $£ 000$; total, $£ 13,652$. The exhibitions include two at matriculation of the value of $£ 30 \mathrm{each}$, two of $£ 20$, and two of $£ 15$, with eleven others at different stages of graduation. The schalarships are fourteen in number, and vary in value from $£ 50$ to $\mathcal{£ 1 5 0}$. The prizes are eight in number, and the medals twent $y$-one.
The sums, set apiart for other universities and colleges in England and Wales are as follows:-
$\therefore$ - In aid of the expenses of the University College


At the Congregation held on Thursday; June 7th, the Rev. W. E. Suyth, N.A., of King's College; was admitted to the degree of M.S., and Reginald R. Whishaw, M.B., B.A., of Carendish College, to the dagree of B.C.

## OBITUARY.

## PROFESSOR L. M. POLITZER, M.D., Vienna,

Dr. Politzen, the eminent Professor of Piediatrics in the Unirersity of lienna, and one of the most distinguished physicians in Austria, died at Vienna on May 23 rd. He was the first to introduce the critical methods of modern medicine and natural science into the study of children's diseases, and to sweep away the dogmatic and arbitrary doctrines, especially with respect to their etiology and treatment, which had prevailed up to that time. He showed that the causes of disease were the same in the child as in the adult, and the differences in the symptoms were not solely due to the frequent oecurrence of ascaris lumbricoides in the intestinal tract, or to the universal morbid influence ascribed to dentition, but they were due to the anatomical and physiological peculiarities of, the newborn and rapidly developing organism, His influence on therapeutics was most important, and he energetically protested against the gencral use of certain medicaments in all possible cases of disease, in particular against the abuse of laxatives and emetics, and the toa frequent prescription of ipecacuanlia, antimony, and calomel.

Politzer was horn at Arad, in IIungary, in 1814, and after completing his preparatory sturlies in his native town, he studied medicine at Buda-Pesth and Vienna where he obtained his M.I. degree in 183\%. Later on, he became the assistant of Professor Mauthner in the "St. Anna Kinderspital," where he acquired a great reputation thronghout Austria and abroad by his literary activity. In 1875 he received the title of Professor, and in I880 he was intrusted with the management of the first public institntion for the diseases of children in Vienna. In June, 1853, he started, tagether with Mayer and Schiiller, the well-known Jahrbuch fïr Kinderheithunde. Among his writings may be mentioned: "Prejudices and. Errors in the Pathology and Therapeutics of Children's Diseases," 1874; "Principles of

Scientific Dietetics and Physical Education of the Child," 1858 ; "Treatment of the most important Diseases of the Infantile Age," 1859; "Diagnosis and Treatment of Diseases of the Brain and the Meninges," 1861;" On the Special Nosology; Diagnosis, and Treatment of the Cerebral Diseases of the Child," 1863 ; "Thera-
peutic Experiments on the most important Drugs in the Practice of Children's Diseases," 1863 and 1864 ; "Several Cases of Noma," 1864; "Bronchial Asthma and Bronchial Spasm in the Infantile Age," 1870 : "Ou the Diseases ascribed to Dentition and their Admission into Pathelogr," 1874: "Criticism and Reform of Therapentics," 1875 ; "The Origin of Danger in the Course of Disease," 1881 ; "On the Diase lost of these papers appeared in the. Jahrbuch fïr' Kinderheilkunt?.
D'olitzer was also the first to recognise the occurrence of bronchial astlma with the characteristic type of respiration in ducklings, and he was one of the first to point ont that the disease which was called "pseudo-paralysis syphilitica" in newhorn chindren was not to be looked upon as a cerebral paralysis, but only as an osteo-chondritic inflaminatory process.

## INDIA AND THE COLONIES,

INDIA.
The new Walter Ilospital at Oodeypore was opened by the Resident in state on the Queen's birthday.
bombar (ifneral Hospital.-The same gathy that the Bombay Government has shown in the matter of the provision of suitahle quarters for the English nnrses at the Eurcpean General
Hospital is said to prevail in regard to the residence of the housesurgeon, from the insanitary condition of which both he and his family have suffered in health. This state of things was reported to the anthorities more than a year ago; and the Public Works Department, recognising the urgent need, undertook that a new building should be erected at the earliest possible date. This has not been done.
Contagrous Diseases in Indra.-A Parliamentary paper, just published, contains a despatch dated May 17th, 1888, from the with respect to the Contarious Diseases Act and the Cantonment Acts and Regulations of that country. The former Act, as far as it related to lndia, was only in operation in Madras, Bombay, and Bassein(Lower Burmah), and the Indian Government had determined to suspend it in these places. To this Viscount Cross gives his consent, but requests that the result of the suspension may be carefhe health and With regard to the Cantonment Acts, he says that kept in view sincicncy of the British garrison have been steadily maintenance of the cantouments in a proper sanitary condition and the prevention and cure of disease are equally matters of the highest importance, and all infectious disease ought to be dealt with as a question of police. No exrmination should be imposed upon women compulsorily, but no person likely to spread disease ought to be allowed within the cuntonments except in hospital, and no one who objects to medical treatment ought to be in the cantomment at all. The result of the latest inquiries has shown the necessity for the regulation of prostitution in cantonments. Fiscount Cross thinks that the rules framed under Clauses $\mathbf{7}-31$ of Section 27 of Act 111 (1s80) require revision, and the principle to be borne in mind is. that the efforts to control prostitution and to mitigate its attendant crils shonld not be developed into anything that can assmme the appearance of an encouragement of vice or a legalisation ol prostitution by the fovernment and its officers.

## SOUI'Il AFRICA.

irregular Practitionirs. - The state of the law for the suppression of irregular practice in Sonth Africa can hardly be considered satisfactory. In recently sentencing a Ifindoo to a tine of ¿10 for practising as a plysician in Capetown without a licence. Mr. Justice Buchanan said it was utterly useless institnting prosecutious of the kind unless the accused had property. Nle had had a similar case at Grahamstown, und reserved for the Court of Appeal the question whether the convicted person could not he imprisoned on failure to pay the fine. The Court of Appeal held that no alternative punishment could be imposed.

## PUBLIC HEALTH

AND

## POOR-LAW MEDICAL SERVICES.

## DRAINAGE AND DIPITHERTA

Avimportant case has just been decided in the Glasgow Sheriff Court. The pursuer was a tenant of a house in Glasgow, and on June 3rd, 1887, his only child died from diphtheria. It was proved at the trial that for several months previously the bouse had been" in an insanitary condition, through faulty condition of drains, and that the defenders, though frequently applied to by the pursuer to have them put in order, and erentually directed by the sanitary authorities to do so, did not put thern in order till after the death of the child. The sheriff therefore found that the death of the pursuer's child was due to the fault of the defenders, and awarded pursuer $£ 100$ as compensation. In a note the sheriff says: "An argument for the defenders was founded on the ground that the introduction of traps on drains outside of houses is comparatively modern, and that it was not recognised as necesnow, howe time when this house was erected, about 1864 . It is condition for safety, that a drain should be provided with a trap to prevent the escape of sewer gas from the drain, and it would be impossible at the present day to relieve a landlord of liability for the consequence of a drain being left untrapped, on the ground that when he built his house a trap was not thought necessary, and that he declined to comply with the recognised requirements of modern science."

It is deeply to be regretted that all builders of houses and drains have not as clear an idea of the necessity of traps and ventilators as the learned sheriff.

## THE ALLOTMENTS ACT.

The Local Government Board have issued, under date May 30th, a series of model clauses for the assistance of local sanitary authorities in iframing regulations under Section 6 of the Allotments Act, 1887 , "for regulating the letting of allotments under the Act, for preventing any undue preference in the letting thereof, and generally for carrying the provisions of the Act into effect." This series is prepared on the lines adopted in the model by-laws issued by the Board under the Public Health Act, and should prove to be
very useful to local anthorities. The Board have taken the opporvery usefnl to local anthorities. The Board have taken the oppor-
tunity thus afforded of again urging sanitary authorities vonity to gire full effect to the intentions of the Legislo endeapassing the Allotments Act. It is to be feared that, withre in pascing cione Aittle los hitherto is be feared that, with few this direction.
Heatth of English Towns. In the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons, 5,194 births and 3,172 deaths were registered during the week ending Saturday, June ?nd. The annual rate of mortality, which had been 18.9 and 17.8 per
1,000 in the two preceding weeks, further declined during the week under notice to 17.6. The rates in the several towns raned from 13.0 in Derby, 14.3 in Bradford and in lirighton, and 14.6 in Birkenhead to 22.4 in Blackhurn, 23.7 in Preston, 24.9 in Wolverhampton, and 25.7 in Manchester. In the twenty-seven provincial towns the mean death-rate was 18.9 per 1,000 , and exceeded by as much as 2.8 tine rate recorded in London, which was only 16.1 per in the twenty-eight town included 101 which were rafernatice whooping-cough, ti te diarrhcea. 39 to diphtheria, 34 to measjes, 31 to scarlet fever, 21 to "fever" (principally enteric), and 10 to small-pox; in all, 282 deaths resulted from these principal zymotic diseases, against 330 and 28 in the two preceding weeks. These Lendon dhe were equal to an annual rate of 1.6 per 1,000 ; in per 1,000 in the twenty-sevente wrosincial towns, and ranged 1.5 0.0 in Birkenhead and in Hudlersfield, and $0 . \pm$ in Sunderland to 2.8 in Norrvich, 3.0 in P'reston, and 3.3 in Manchester. Measles caused the highest proportional fatality in Wolverhampton and Bradford; scarlet fever in Blackburn ; whooping-cough in Shef-
field, Salford field, Salford, Wolverlampton, and Manchester; and "fever" in Plymouth. Of the 39 deaths from diplitheria recorded during the meek under notice in the twenty-eight towns, 26 occurred
in London, 3 in Hull, and 2 in Norwich. The 10 fatal cases of small-pox ineluded 4 in Sheffield, I in Bristol, 1 in Nottingham, 1 in Derby, 1 in Preston, and 1 in llull. The number of smallpox patients in the Metropolitan Asylums Ilospitals on Saturday, June 2nd, was only 3, and no new cases were admitted during the week. These hospitals also contained 873 scarlet fever patients on the same date, showing a slight further decline from recent weekly numbers; 78 eases were admitted during the week, against 91,82 , and 66 in the three preceding weeks. The death-rate from diseases of the respiratory organs in London was equal to 2.9 per 1,000 , and was slightly helow the average.

Health of Scotch Towns.-During the week ending Saturday, June 2nd, 869 births and 489 death were registered in the eight principal Scotch towns. The annual rate of mortality, which had been 19.3 and 20.9 per 1,000 in the two preeeding weeks, declined again to 19.3 during the week under notiee, but exceeded by 1.7 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Seoteh towns the lowest rates were recorded in Greenoek and Leith, and the highest in Glasgow and Paisley: The 419 deaths in these towns during the week under notice included 52 which were referred to the principal zymotie diseases, equal to an annual rate of 2.1 per 1,000 , which exceeded by 0.5 the mean zymotic deathrate during the same period in the large English towns. The highest zymotie death-rates were recorded in Paisley and Glasgow. Of the 225 deaths registered in Glasgow, 10 resulted from measles, 6 from searlet fever, 14 from whooping-cough, and 4 from "fever;" 2 fatal eases of searlet fever occurred in Dundee, and 2 of diphtheria in Edinburgh. The mortality from diseases of the respiratory organs in these Scotcli towns during the week under notice was equal to 3.2 per 1,000 , against 2.9 in London.

Health of Irish Towns,-1n the sixteen principal towndistricts of Ireland the deaths registered during the week ending Saturday, June ${ }^{\text {Ind }}$, were equal to an annual rate of 21.5 per 1,000. The lowest rates were recorded in Armagh and Gal way, and the highest in Lurgan and Wexford. The 159 deaths registered in Dublin during the week under notiee were equal to an annual rate of 23.5 per 1,000 , against 23.6 and 24.4 in the two preceding wecks, the rate for the same period being only 16.1 in
London, and 18.4 in Edinburgh. The 159 deaths included 20 which resulted from the prineipal zymotic diseases (equal to an annual rate of 3.0 per 1,000 ), of whieh 9 resulted from whoopingcough, 4 from scarlet fever, 4 from different forms of "fever," ${ }^{\text {" }}$ from diarrhcea, and 1 from measles.

## DISINFECTION BY HEAT

M. O. H. asks for experience in ruml districts of disinfection by heat in cases of infectious diseasc-what contrivances can be used? and, if a disinfecting chamber, whose? what is the cost, and whose is the cheapest to employ?
*"We may mention in prort raply to the above that Messrs. Frazer, of London, have a fixed disinfecting chamber, where, in a close chamber subjected to about $300^{\circ} \mathrm{F}$., any materlals can be properly treated. They have also a perambulating apiaratus. Jiessrs. Nelson, of Leeds, have an apparatus in use in Loudon and the provinces, which takes the form of a wrought iron chest. The heat is regulated to $200^{\circ}$, and this cannot be exreored if wished. Dr. Rogers, of East IRetforl, has a portable apparatus, which consists of an fron outer case and a wooden box within. Messrs. Swbbs and Seagrave, of London, have also a perambulating disinfecting apparatus which applies superheated air or steam. Dr. Sentt, of Dalkey, co. Dublin, has several systems of disinfecting by lint alr. We belleve thoy are engineered by Messrs. Magulre and Son, sautary engineers, Dublin. Mr. Washlugton Lyou, of Cormhill, Lamion, has a valuable but costly movable apparatus on wheels. which disiufects, iries, and heats as weli by the action of steam. Mr. Arthar Jenninga, nf Cross Street. Lambeth, S.E., has lately brought out an excellent apparatus, willeh'dlstufects by the heat protuced by gas, and whilel is highly sponken of
We would recommend M. O. II. to write ta the above firns for deserlytious, prices, and teatimonisis, so as to juilge for himself.
Insamitary Dwrlings.-The report of the Mansion House Council on the Drellings of the People, presented at its last meeting, atated the aetion that had been taken in regard to numerous cases of insanitation in the districta of St. Olare's Southwark, Shorediteh, Westminster, Clapton, and the City. Instructiona were miven to bring to the notice of the fovernment particulars of prolonged neglect on the part of the authorities for I'lumstead and Woolwich.

## MEDICO-PARLIAMENTARY.

HOUSE OF COMMONS. - Frtday, Tune 1st.
Lanacy Acts Amendment Bill.-Mr. W. Il. Smitn, in reply to Dr. Farquiarson, stated that it was the intention of the ciovernment to pass the Bill in the course of the present session.

The Vaccination Laws,-Mr. Picton submitted the following motion: "That a Select Committee be appointed to inquire into the eircumstances of the epidemie of small-pox in Sheffield and the surrounding distriet, and especially to aseertain whether its origin can be traeed to defective vaceination, or to insufficient sanitary precautions, or to any other causes; also to inquire how far the rapid spread of infeetion has been owing to the absence of any system of compulsory notification of eontagious disease ; likewise, whether the notorious dimimution of vaccination in Leieester. Keighley, Dewsbury, and other towns, has been attended by any evil consequences, or whether preventive measures other than vaecination have been found effectual: and, if so, whether they are eapable of wider applieation." - This was seennded by Mr. Colman.-Dr. Farquharson said if the Government would agree to hald an inquiry into the two epecific eases of Norwieh and Leicester, it would, he thought, supply a great deal of seientific information, and would satisfy, to a great extent, the public mind. -Dr. Campron said there were three different systems which he thought might be inquired into with advantage : the system which prevailed in Leicester, where there was defective vaceination but strict attention to segregation; the system which prevailed in London, where vaccination was earefully carried out, but there was no attempt at segregation; the system prevailing in Glasgow where there was great attention to vaccination and revaecination, and the most striet attention to segregation.-Mr. Ritchie said whatever inquiry might be made, a Select Committee of the Hlouse of Commons whs not the proper body to make it. He said it was impossible to dissociate the inquiry which the hon. member for Leicester asked for from the cause which the hon. gentleman represented in the House in speaking for the large masses of people who were opposed to vaccination; and therefore, if an inquiry were granted, the hon. member would insist upon certain gentlemen with strongly adverse opinions to raceination being plaeed on the Committee of Inquiry. No such tribunal could ever hope to come to a unanimous report, and matters would remain very mueh as they now were. With regard to the Sheffield outbreak, a house-to-lhouse visitation had been made, and all the eircumstanees connected with every single ease of attack would he specifically reported upon. There never was a more complete case in favour of vaceination than the Sheffield case. The number of raecinated children under 10 years in Sheffield was given at 82,958. Out of that number 207, or 1 in 400 , were attacked, and out of the 207 attaeked only 2 died. The number of deaths of raccinated children was, therefore, only 1 per eent. The number of unvaccinated ehildren under 10 years of age was $4,36 \mathrm{ci}_{\mathrm{t}}$. Of these 146, or 1 in 30 , were attaeked, and 7 died. Some remarkable facts had been brought to light with regard to small-pox in Hontreal. Prior to 1885, there had been for many years no ease of small-pox in Montreal, a large proportion of people, like those at Leieester, being unvaccinated. In February, 1885, a man was admitted to the hospital with snall-pox. He was cured and left the hospital. But the disease spread so rapidly, that in six months, among a population of under 200,000 , as many as 3,16 t deaths occurred from small-pox. Vaceination and revaecination were then rigorously enforeed, the stations being literally besieged with persons clamouring for vaecination, and in three months 80,000 were vaceinated. 1he must decline to grant any further investigation whilst the present one at Sheffeld was pending. -Dr. Macmovalin maintained that there was no foundation for the arguments and statistics of the anti-vaecinationists. The subject then dropped.

Tuesday, June 5th.
The Contagions Diseares Acts in India.-Sir J. Gorst, in reply to Sir R. Temple, said, of the thirteen members of the Council of India present on the oceasion of the despatcll of the Seeretary of State to the Government of India on the subject of the Contagious Diseases Acts, nine voted against it.-Mr. Mclares moved, and Sir R. N. Howler seconded, the following resolution: "That, in the opinion of this House, any mere suspension of measures for the compulsory examination of women, and for licensing and regulating prostitution in India, is insufficient, and the legislation
vlich enjoins, authorises, or permits such measures ought to be epealed."-Mr. G. C. Bentinok had on the paper the following tmendment: "That, considering the large and alarming increase of disease in the army and navy, and the sufferings of the unforunate women on the home stations since the repeal of the Conagious Diseases Acts, this Ilouse is of opinion that it is inexperlient repeal the Aets now in force in India;" but he did not intend o propose it, as he preferred the amendment fhich stood in the rame of Sir R. Temple, for which be should vote.-Sir J. Gonss raid he was instructed to say that, if the Council of the Governorleneral thought fit to repeal the Contagious Diseases Acts altogether, the Secretary of State would assent to that repeal. The ndian Government, recognisiug the general feeling in England, lad on its own initiative suspended their operation, and, although lee Secretary of State possessed the technical power to direct egislation, it would be most unconstitutional for him and inexsedient of Parliament to interfere with the independence of the ndian Legislature. The regulations inder the Cantonment Acts were now nnder revision, and the Secretary of State had distinctly leclared against rules being framed or continued which might apbear to legalise vice.--Sir R. LetHBRIDGE, while strongly conlemning the regimental system, thought that, as the Government of ndia had suspended the Acts, further action might be left to them -Mr. J. E. Ellis, Mr. H. Wirson, and Sir J. Simon spoke in suport of the resolution.-Sir R. Temple disputed the assertion that he Acts had not been successful in maintaining the health of the roops.-Sir W. Fosten argued that the administration of the Acts n India had failed; and Mr. Stansfeld thanked the Government or the spirit in which they had received the resolution.-The notion was carried

## MEDICAL NEWS,

## MEDICAL VACANCIES.

The following Vacancies are announced :
NDERSON'S COLLEGE DISPENSARY, Glasgow.-Physician. Applica tions to David Wilson, Esq., Honorary Secretary, 42, Bath Sireet, Glasgow.
NDRRSON'S COLLEGE DISPENSARY, Glasgow.-Surgeon. Applications to David Wilson, Esq., Honorary Secretary, 43, Bath Strcet, Glasgow.
ALTINGLASS UNION.-Medical Officer, Dunlavio Dispensary, Salary, el35 per aonum, and fees. Applicatlons to Captain Ileighton, J.P., Hunorary Secretary Donard Itonse. Election on June 13th.
OARD OF WORKS FOR THE WANDSWORTH DISTRICT.-Medical OF ficer for the Yarish of Clapham. Salary, £if per annum, with inerease Applications by June 12th to the Clerk to the Board, East Hill, Wands worth.
ELBHIDGE UNION.-Medical Officer for the Workhonse. Salary. £l00 per nnum - also $£ 15$ per aunum as Medical Superintendent Ofticer of Health Applications by June Isth to Mr. Samuel Maming, Clerk of the Univu,
UFFUS PAllOCHILAL BOAllD.-Medical Officer. Salary, £35. Applications by June 23rd to Joho Nicall, Esq., Inspector of Poor, Hopeman. N.B.
AST LONDON HOSPITAL FOR CHILDILKN, Shawell, E.-Resident Clinical Assistaut. Board and lodging. Applications by June 28 th to the Secretary.
VELINA HOSPITAL FOR SICK CHILDREN, Southwark Bridge Road.Surgcon to Out-patients. Applications by June 25 th to the Committee of Management.
UEST HOSPITAL, Dudley.-Resident Medical Oficer. Salary, £110 per annum, with board and residence, etc. Applications by June 2lyt to the Secretary.
INQ'S COLLEGE HOSPITAL.-Assistant-Surgeon. Applications to the Sccretary.
ONDON TEMPERANCE HOSPITAL, Hampstead Road.-Surgeon. Appllcations by June 16th to the Seeretary.
EETROPOLITAN ASYLUMS BOARD: WESTEHN FEVER HOSPITAL, Frulham, S.W.-Clinical Assistaut. Board and lodging. Applications to the Medical Superintendent at the Hospitnl.
ILLER HOSPITAL AND IOYAL KENT DISPENSARY, Greenwich Road, S.E.-Junior Resiclent Medical Oficer. Salary, eito perannum, apartmeuts, board, ete. Applicatious by June 9th to the Honorary seeretary.
EWTON IEATH (MANCILESTEIt) DISTRICT.-Medical Officer of Health. Salary \&io per annum. Applications by June 1sth to the Charman of the Local Doand of Health, Town Hall, Newton Heath, Manchester.
OTTINGIAM GENEIRAL ILOSPITAL.-Resideat Medieal Assistant. Board and lodging. etc. Applicatlons by June 13th to the Secretary.
OTTINGIAM GFNEILAL, IIOSPITAI.-Resident Surgleal Asaistant. Board and lolging, etc. Applications by June I3th to the Secretary.
ORTIE-EASTERN HOSPITAL FOR CIHLDREN, Hackney Road, E.Junlor ILonse-Surgeon. Salary, £30 for six months. Applicationa by June $19 h_{h}$ to A. Nixon, Esq.., Secretary, 27, Clement's Lane. F.C.
WENS COLLEO E, Manchester.-Professor of Surgery. Applications by Juno 9th to the llegistrar.

PAEISH OF LOCHS, Stornoway.-Medical Officer, Salary, \&lso, house and rates free. Applications by June 23 rd to H. McL. Ross, Inspector of the Poor, Lochs, Stornoway.
PARISHES OF PENNYGOWN AND TOROSAY.-Medical Offcer. Salary, £100 per annum. Applications by July 3rd to Mr. A. McDougali, Inspector of Poor, Auchnacraig, Ohan, N.B.
QUUFN'S COLLEGE, Birmingham.-Assistant Medical Tutor. Applications by June 30th to the Secretary.
IAAMSGATE AND ST. LAWRENCE ROYAL DISPENSARY ANH SFAMEN'S INFIRMARY.-Resident Medical Ofticer. Salary, £I20 per annum, with furnished apartments, etc. Applications by Juge 23 rd to the Secretary.
ROYAL ALBERT HOSPITAL, Devonport.-Assistant Iloase-Surgeon. Boarl and lodging. Applicationa by June 18th to the Chairmao of the Managing Committee.
ROYAL SOUTIL HANTS INFIRMARY. Southampton. - Ilouse-Surgeon, Salary, \&100, board, lodging, etc. Applications by June 20th to the Secretary.
SHEFFIELD GENERAL INFIRMARY--House-Surgeon. Salary, 2120, with board, lodging, etc. Applications by June 1 Sth to the Secretary.
SHEFFIELD GENERAL INFIHMARY.-Assistant Honse-Surgeon. Salary, $£ 80$ per annum, with board, lodgiag, etc. Applications by June Isth to the Secretary.
SURREY DISPENSARY, Great Dover Street, Southwark,-llouse-Surgeon. Salary, \&120. and furnished apartments. Applications by June 16th to the Subcommittee.
WELLINGBOROUGII AND DISTRICT MEDICAL INSTITUTE, Medical Officer. Salary, £290, and fees, with dwelling-honse, etc. Applicatlons to G. Bares, Esq., Jackson's Lane, Wellingborough.

WEST LONDON IIOSPITAL, Hammersmith Road, W.-Physician. Appil cations by June 21st to the Secretary Superintendent.
west london hospital, Hammersmith Road, W.-Assistant Physician. Applications by Jnue 21st to the Secretary Superintendeai.
WEST LONDON HOSPITAL, Hammersmith Road, W.-House-Physichan. Board and lodging. Applications by June 21st to the Secretary Superia teadent.
WEST LONDON HOSPITAL. Hammersmith Road, W,-Ilouse-Surgenn. Board and lodging. Applications by Juee 21 st to the Secretary Superintendent.
WESTPORT UNION,-Medical Officer, Westport No. 2 and Louishurgh No. 2 District.s. Salary, £39 per annum, and fees. Election on June 24th.
WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITALLesident Assistant. Board and lodging, etc. Applicationa by June 25th to the Chairman of the Medical Committee.

## MEDICAL APPOINTMENTS.

Bamister, Marmadnke, M.R.C.S., L.H.C.Y., late House-Surgeon to the Man chester Royal Inlirmary, appointed Resident Surgeon at the Hospital of No. 7 Section of the lianchester Ship Canal.
Battee, W. IF., F.R.C.S., appoiated Assistant Surgeon to the East London Hospital for Children, vice L. A. Dunn, M.B., F.K.C.S.
Campbell, T. Kenneth, M.B., F.R.C.S., appointed Assistant Surgeon to the Gordon Hospital for Fistula, etc.
Chamberlais, W. W., M.B., C.M.Edin., appointed Senior House-Surgeon to the Halifax lotirnary and Dispensary, vice J. P. Gray, M.R.C.S., L.S.A., reslgned.
Clark, Francis William, L.R.C.P.Lond., M.R.C.S., appointed Assistant Medical Officer to the Metropolitan District Asylums Schools, Darenth, vice IF. T. Maddison, M.D.Lond., resigned.
Cox, D. Charlea, M.D., L.R.C.P.Ed., appointed Parochial Medical Officer and Public Vaccinator, Annan, vice D. Mackenzle, M.B. and C.M., resigned.
Dens, L. A., M.B., F.R.C.S., appointed Surgeon to the Last London Itospitai lor Children, vice A. Cessar, resigned.
Frost, W. Adams, F.II.C.S.Eng., appolited Surgeon to the Royal Westminster Ophthalmic Hospita\}.
Harthidee, G., F.R.C.S.Eng., appointed Surgeon to the Royal Westminster Ophthainsic Mospital.
Lovagrove, C., M.D., L.R.C.P.. late Surgeon to the Liverpool Oorporation Waterworks, Llanwddyn, appointed Surgeon to No. : Section of the Man chester Ship Canal ; and Consulting Surgeon from Lymm to Salforf.
Lircas, Albert, M.R.C.S., L.IL.C.Y., appointed Assistant llonse-Surgeon to the Metropolitan Mospitai, vice H. L. Harrison, M.H., resigned.
Ord, W. Theophilus, M.R.C.S.Eng., L.J.C.P.Lond., appointed Resident Surgeon to the Birmingham Geueral Dispensary.
Psogt, S. F.II.C.S.Eng, appolnted Assistant Surgeon to the West London Itospital, vice B. Wainewright, M.13. Fdia., F.It.C.S.Fig., resigaed.
Patri. E. W., M.It.C.S., L.S.A., appointed IHouse-Surgeon to St. Meter's Iuso pital for Stone, etc., vice F. II. Norvih, M.B., resigued.
एowel.L, John Allman, M.D.Dub., appointed Locun Tenens Assistant Medical Officer to the Berks Connty Asylum, Monlsford.
Prftsell, W. G., M.B., C.M., appointed Assistant Mellical Officer to Govan Poorhouse and Asyium, vice George Davidson, M.13., resigned.
Simelatr, F. Howard, M.D., M.Ch.(R.V.I.), L.K.Q.C.P.I., L.R.C.S.I., L.M., etc., appointed Vistting Physicias to the Hospital for Consunption, Belfast vice Samuel I)ickey, M.D., M.Ch., L.M.(Q.U.I.), resigned.
V1ckfry, W. H., M.R.C.S., L.IR.C.P., appointed House-Surgeon to the Middiesex Hospltai.

Irohessor Virchotr.-The German Emperor has conferred on Professor Rudolf Virchow the Order of the Red Eagle, Second Class. In the bestowal of this honour, medical men will probably
see nothing but a graceful recognition of the great pathologist's scientific eminence, and of scrvices rendered hy him to the person of the limperor. P'ublic opinion in Germany, however, appears to attach sone political significance to it , as an ad ditional proof of 11 is Imperial Majesty's sympathy with Liberal ideas. Irofessor Virchow is one of the leaders of the Liberal party in Germany, and one of the most determined opponents of Prince Bismarck, with whom he fought a duel many years uge.
Glasgow Deaf and Dumb lastitution. -The annual meeting of this institution was held on May 31st. The report stated that, at the beginuing of the new session, 109 pupils returned, and, during this session, 24 new pupils joined, naking a total of 133 , 10 less than that of the preceding year. Employment of various kiads had been readily procured for those who left. The fire which occurred at the end of March had not stopped the work of the institution, and, while the repairs were being executed, the oppertunity was being taken to make some structural improvements which experience had shown to be necessary.
Pontsmoteh Hospital.-The Bishop of Winchester on May 29th reopened the Portsmouth Hospital. It was decided last year to raise a fund to be spent on the building as a local celebration of the Juhilee, it being hoped that sufficient money would be collected to enable the committee to erect an entirely new structure. The fund, however, reached only a little over $=3,000$, and with this sum the interior of the hospital has been entirely reconstructed on modern principles, and the number of beds increased from 70 to 104.

Bournemorth Ambuthace Corps.-Mr. Embleton, M.R.C.S., of Bournemonth, who has been engaged in instructing members of the local fire hrigade and others in the principles and practice of first aid, has been presented by his class with a silver pencil case as a token of their appreciation of his services. It has been decided to form an ambulance corps in Bournemouth consisting of certificated members.

Adeltarated Chfese.- It Glasgow Sheriff Court, recently, a case was brought $n \mathrm{~m}$ in which a provision merchant was charged with selling cheese consisting essentially of oleomargarine or foreign fat. The cheese was one of the kint known as "lard cheese," sold in America as "imitation cheese." A fine of $£ 3$ was imposed and paid.

Pont Giasgow Anhulance Centre.-At a meeting of this centre very satisfactory reports were read, the treasurer's statement showing a balance of $£ 610 \mathrm{~s}$. The executive for next year was appointed, of which Drs. Crawford, McBride, and Taylor are merabers. Dr. Crawford was afterwards presented by his class with a marble timepiece, in recognition of his services in their instruction.

Fpideme or Measles at Nfilston.-There is at present a serious outbreak of measles among the children attending the public schools at Feilston. In one school 105 children, belonging to 50 different families, have been attacked; and in another there are 61 cases out of 30 families. In consequence of the epidemic it has been deemed advisable to close the schools.

ト'aversham Cottaone lospital..-A cottage hospitnl, tho gift of Mrs. Rose to the town of Faversham in memory of her late husband, wha formally opened on May 2Gth in the presence of the mayor, the vicar, Lady Marris, and a number of other influential resirlents of the vicinity. The site was presented by Mr. T. Townend Mall, J.1., and Mr. Rigden, and the furiuture, costing £ 400 , by Mr. Rose.
Trfatment of Warts.-Dr. Roesen (Monat. f. Prakt. Derm., $1888,1,3250$ ) states that he has treated callositirs and warts suecessfully ly the application of pure erystallised walicylic acid. The acid is kept in position by moistened horacic lint, and over all there is fastened $\Omega$ piece of gutta-percha tissue. The application is removed after five days, when the hardened epidermis usually falls off.

A lad has died in the Derby Infirmary nnder peculiar circumstances. He why running away from a cow, when the animal overtook him in a narrow passage and crished him so severely against the wall that he succumbed to his injuries.

Madical Magistrates.-Dr. MacRae-Laggon has been appointed to the Commission of the Peace for the county of ln-verness.-Mr. Charles Brook, M.R.C.S.Fng., has been placed on the commission of the peace for Lincolnshire.

Mr. Jaffray, of Birmingham, whose name is well-known in connection with princely gifts to local hospitals, has generously offered to defray the whole expenses incurred ly the Birmingham Hospital Saturday Committee during the current year.

Dr. George Frederick Philpot, practising at Iemel llempstead, has been found not guilty of the charge of conspiring with his brother to delraud the Nutual Accident Insurance Company.

This Hygiene and Life-saving Apparatus Exhibition at Ostend will be opened on June 30 th. About 400 exhibitors have, it is stated, already sent in their names.
In consequence of the increase of hydrophobia in Paris, dogs are not allowed in the streets except in the leash.
The Princess Christian paid a visit to Brompton Hospital on Monday last, and took part in a concert given to the inmates.
The Duke of Devonshire has granted land between Eastbourne and Beachy Head for a new convalescent home for children.

## DIARY FOR NEXT WEEK.

Royal College of Surgeons of Exgland, 5 p.a.-Professor T. Bryant: On the Causes. Effects, and Treatment of Tension as met with in Surgical Practice.

## TCEBDAY.

Royal Menical atid Chirtheical Society, 8.30 p.m.-Dr. A. Sangeter amd Dr. F. W. Mott: On Pempligoid Eruption, with Changes in Peripheral Nerves. Dr. W. R. Gowers and Professor V. ILorsley: Case of Turuour of the Spinal Cord: lemoval: lecovery.

## WEUNESDAY.

Royal College of'Syrgeons of England. 5 p.m.-lrofessor T. Bryant : On the Canses, - liffects; and Treatment of Tension, as met with in Surgical Practice.
College of State Medicinfe, Burlington TInuse, 4 P.m. - Dr. G. Fleming: On Some of the More Important Discuises conmon to Man anil Animals.
 Dr. G. Grawville Bantnck. Dr. Richard Smith: Dr: Bedfort Fenwick, and the Presitent. Mr. Lawson 'hat : The Intuence of Removal of the Uterus and its Ampendages on the sexmal Appetite. Dr. Memry T. Rutherford: Notes of a case of Uterine Fibroid successfully treated by Elect ricity.
Koyar Microscopical Society, \&pam,-Rev. W. Ifowehin: Additions to the Knowledge of the Carboniferons Fonminifra.
Epidemological Society of Lovdon, \& P.m.-Annmi Genctal Meeding. Arthur H. Downes, M.b.: Notes on Diphtheria. Rentrot Cory, M.D.: The Cowdition as to Vaccination of One Mhandred anh Fifty Persous Scarred by Small-pox.

## THEISADAV.

Royal Collegr of Physictany of London, 5 p.m.-Dr. Domald Ma: Altster: The Uroonian Lecture on Antipyretics.
 Card Specimens at 8 P.M. Mr. Silcock: (1) Sarcoma of Frontal Bone; (2) Saremma of both Orbits. Mr. Jessop: Caso of Sym. metrical ling of Pigment on Anterine Capsule of Lens, Mr.d. Hutchinson, juns: Two cases of Cicatrices in Vitreous and Retima, Papers:-Mr. Lmrys Jones: On a ease of Large Orhital und futracranial lrory Exostnsis, associat ed with ferreOral Tumour, Mr. Tidgar Browne: Optic Atrophy in Thare brothers. Xr, Tooklinfe: Notes on (1) Seconday Mrmorrhage


## FEEEDAS.

 On Surgieal laterierence in Cxamal lijuries.

## BIRTUS, MARRIAGES, AND DEATUS.

The charge for inserting announcements of Births, Marriapes, and Deaths is 9s. Gd. which should be forwarded in stamps with the announcement.

BIRTHS.
GODFRFx.-On Way 30th, at Bronibank House, Maltnm, the whe of Frank W. A. Gndfrey, M.b.bidin., of Scarborongh, of a daughter.
Spencre-At St. Ninlans, Bumtisland, on Juneath, the whe of leobert spenee, M.B., C.M., of a laughter.

## MARHIAGES.

Ond-Ifatroigas-On June 5th. at All Saints, Claphum lark, by the lev. F. S. Coleman, M.A., brother-ithlaw of the brite, asslated by the fer: A. G. Glidieston, M.A.: Vlear, and the lev. Wudelouse linwen, M.A. Viwar of Chrlst Church, Streatham, George William Ord, M.J.C.S. of Mildeulaah, Suffolk, eldest son of Gicorse llice Ord, of Streatham IIill, Surres, to Filfh Fimily Lucy, third daughter of Charles F. Ifawkiugs, of Belmont, Clapham Park.
Wilson-War,ox-On June 6th, at Edxhaston Parsala Church, by the lav, G. H. Cameron, B. A. Winliam Wilson. W. W. C.If.Ed. of Forest Hill, to J
Aliee (Jinne) Wulton, only (anghter of Frederick Walton, Edgbaston.

## OPERATION DAYS AT THE LONDON HOSPITALS．

MONDAX．．．．．．．．．． 10.30 A．Mr：Royal London Ophthalmic．－ 1.30 P．M．：Guy＇s （Ophthalmic Depart meut）；and Royal Westminster Ophthal－ mic．－ 2 P．M．：Metropolitan Free ：St．Marh＇s：Central London Ophthalmic：Royal Orthopedic：and Hospital for Women．－ $2.30 \mathrm{p} . \mathrm{M}$ ．：Chelsea $1 f$ ossita for Women．
TUESDAY．．．．．．．．．．A．M．：St．Mary＇s（Ophthalmic Department），-10.30 A．M．： Rogat London Ophthalmite－－ 1.30 P．M．：Guy＇s：St．Rat tholo－ mew＇s（Ophthalmic Department）：St．Nary s；Roval Westnin－
 London Ophthalimic．－ 2.3 p．．．．：．．est London；Cancer Iospital），

 St．Thomas＇s ；Roral Westminster Ophthalmie．－2 P．M．： London：University College：Westminster；Great Northern Central；Ceotral London Ophthalmic．－ 2.30 P．M．：Samaritan Free Hospital for Women and Children ；St．Peter＇s．－-3 to 4 p．M．：Kiag＇s College．
10．30 A．．M．：Rosal London Ophthatmic．－ 1 P．M．：St．George＇s $-1.30 \mathrm{P} . \mathrm{M}:$ ：st．Bartholomew＇s（Ophthaltoic Department）； Guy＇s（ophthalmic Department）；Ropal West minster Ophthal－ mic．－ 2 P．M．：Cliaring Cross ；London；St．Thomas＇s（Obstet－
 Diseases of the Throat；Hospital for Women．－2．30 P．M． North－West London；Chelses Hospital for Women．
FRID．IY ．．．．．．．．．．．．A．M．St．Mary＇s＇（Ophthalmic Department）－ 10.30 A．M． Royal London Ophthalmic． 1 1．15 P P．M．St．George＇sisiophthal mic Department）．－ 1.30 P．M．Guy＇s：RopalWestminster；Oph thalluic．－2 p．M．：Kiog＇s College ：St．Thomas＇s（Ophthalmic Depmirtment）；Central London Ophthalmie：Ryyal Sonth London OPhtlanlmic：East London llospital for © Children．－ ${ }_{2}^{2} .30$ P．M．．Whest London．
Saturday．．．．．．．．9A．．．．：Royal Free．－10．30 A．m．：Royal London Ophthalmic．－ 1 p．x．：King＇s College．－1．30 P．M．：St．Bartholomew＇s ：St． Thomas＇s Royal Westminster Ophthatmic．－2 P．M．：Chisrivg Cross；Loudon；Middlesex；Roval Free；Central London Ophthalmic．－2．30 p．M．：Cancer Hispital，Brompton．

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS．

Carriso Cross．－Medical and Surgical，daily，1；Ohstetric，Tu．F．，1．30；Skin， A．Th．．．1．3n）Dental，M．W．F．，申．
Gtr＇s．－Medical and Surrical，dal is．1．30；Obstetric，M．Tn．F．，3．30；Eye，M．Tn． Th．F．，1．30：Ear．Tu．F．，12．30；Skin．Tu．，12．30：Dental，Tu．Th．F．， 12.
King＇s Coluege．－Medicall daily，2；Surgical，daily，．1．30；Obstetric，Tu．Th．S．
 Ear．Th．2；Skin，Th：：Throat，Th．，3：Dental，Tu．F．， 10.
Loxpox：－Medical，dasly，exce， S, ＇ 2 ：Surgrical，daily． 1.30 and 2 ；Obstetric，M．Th． 1．30；o．p．W．S．， 1.30 ；Eye，W．S．． 9 ；Ear，S．． 4.30 ：Skin，Th．， 9 ：Dental，Tu． 9 ？
 1．30；Eye，W． $\mathrm{So}, 8.30$ ：Ear aud Throat．Tui．，©，Skin．Tu．， $4:$ Dental，Taily． 9 ．



 Tu．2，EEE，W．S． 2 ；Ear，Xut
Sr：Marrs．－Medical and Snr gical，darily，1．45：Obstetric，Ta．F．，1．t5；o．p．，M． Th．， 1.30 ；Kye，Tu．F．S．． 9 ；Rar，M．Th．， 3 ；Theat．Th．F．，1．33：Skin．It．Th．， 9．30：Electrician．Tu．E．，2；T）Thtal，w＇：S．， 9.30 ：Consultations，M．，2．30； Operations，Tu．1．30：Ophthalmic Operations．F．． 9
ST．Tuw HAs＇．－Medical and surgical，caily exceet tat．．．2；Obstetric，Tu．T．．．${ }^{2}$ ；






## LETTERS，NOTES，AND ANSWERS T0 CORRESPONDENTS

Commuytcations for the：Curfat Week＇s Jouryal shotld reach tafe Office yot Later thay the Fibst Post on Wednesiay．
Commuxicatioss respecting editorial matters should be addressed to the Fditor． 429，Strund，W．C．，Loudon；those concerning hasiness matters，non－delivery of the Jourval．，et e．，shouls be aldressed to the Manager，at the Onice， 429 ， of the Jouryal，ete，sh
Ir order to avoid delay，it is particularly requested that alt letters on the clitorial business of the Joursal be addressed to the Editorat the oflice of the Joursidi，and not to his mirate house．
Autirons desiring reprints of their articles puhbished in the Rritish Menicar． Jounval are requested to commundeate beforeland with the Manager， 429 ， strand，W．C．
CorkREspoxpexts who wish notice to be takell of their mmmunications shoula unthenticate them with their namcs－of course not necessarily for publleation． Conresponpents not ninswered are requested to look to the Notices to Corre－ spondents of the following week．
MANUSCRIPTS FORWARDFD TO THE OFFICF．OF TMIS JOL゙RVAI CANNOT UCSD\＆R ANY oircuastances be rettraned．
Public Hestri Derarment．－We shall be much obliged to Medieal Oficers
of Health if they will，on forwarding their Annual and other Reports，favour of Health lf they will，on forwarding their Annual and other Reports，farour us with Duplicate Copies．

## QUERIES．

Dr．Josepm Surion Temperature in A Child aged 16 Mosths． chlld，aged 16 months，at 10 A．M．，and fonnd my little jatient with swollen gums，which I lanced．I preseribed calomel gr．ij．as the bowels wete con－ stipated，and a little salioe mixture．The temperatore was lul． $\mathrm{a}^{2}$ ．There was a little cough；but on carefnlly examinimg the longs the flysical signs were almost mil．At 6 P．ss．I was informed that the calomel had acted twice；bnt as the child looked worse I again examined its Inngs，aud found the physical signs in the same condition as on my first visit．

Uyon taking the temperature，my thermometer recorded $110^{\circ}$ ．Thinking the thermometer was at fault，I compared it with the others，and found the record correct．Upon visiting the child again at 10 P．M．，the thermometer registered $102^{\circ}$ ．In two days the child was comparatively well and the tempe－ rature normal．What was the eanse of such an aboormally high temperature in the absence of ally signs to account for it？

## admiralty Examination．

W．E．M．writes ：Having been asked to examine the mouth of a youth who is preparing for the entrance examioation as an engineer student in Her Majesty＇s dockyards，hat oaturally does not wish to preseat himself if liable to he rejected afterwards owing to the condition of his teeth．I shall be obliged for any information as to coodition or number of teeth required which will aid me in giving an opinion．

## ANSUEIRA．

The Duty of tee Medical Attendast in Cases of Deatif froje CHLOROFORM．
A Member writes ：I shall feel obliged by your kindly informing me if the medical attendant is obliged to report to the coroner the occurreace of death noder chloroform administered during partarilion？
＊＊Xes；withont doubt．The case should also be medically recorded as one of great interest to the profession．

## Medical Bookkeeping．

Dr．H．F．Laxcaster（Lewisham High Road，S．E．）Writes：In the Jourxal of May pth＂M．B．and C．M．＂asks for ao easy method of medical bookkeeping． Hring well considered the several systems that are published． 1 have come to the concinsion that for a day－book that of the＂Handy＂system．publisher by Lewis or Cardin，is the best，aad．l hare used this for some time．One important point in its favour is the proximity of patient＇s name and monthly amount on the page，which avoids an error one might possibly fall into of attributing a sum to the wrong patient when these two ittms are a good way apart in the open pages，as is the case with the other dar－books．Another advantage is the different－coloured rnling，which assists in the same way， As to the ledger， 1 have for some years used the＂Expedite，＂published by Sung and Barony；but，as this is arranged for yearly and aot have on it． have had one made for me to my liking，which I consider superior．It is havehabetical wery alphabetical，very compact，aud will last each patient three years with one entry．I think each of the ledgers－＂A．B．C．＂Handy．＂Expedite， ＂Carlyle＂s＂－is faulty in some parficulars，specially in the easy treatmentand rendering of arrears，nad I believe that in this I have combined their virtnes． If＂M．B．and C．M．＂will communicate with me I shall be most pleased to let him see a specimen sheet and to give further particulars．

## Dr．Neslés＂Medical Digest．＂

Dr．Iicharn Neale writes：In answer to＂Disappoiuted，＂at page 1147 of the JOURNAL，who states that the Digest，without the journals referred 20 ，is a delusion and suare．pure and simple．I must ask you to insert a few of the remarks made by differeut reviewera who are supposed to have studied the work before criticising it．
＂It is at once an index and an abstract．Not infrequently the mere refer－ ence is in itself a suggestion，and further scarch is unuecessary．This is especially the case in llie domaia of practical therapeutics．The busy prac－ titioner is anxions about a case which proves obstinate，and resists all ondl－ nary modes of treatment：by turning to the Digest he finds hints and sugges－ tions as to the methods to be mursued，and the necessity for a consmitation may be avoided．It is often said that the Digest is diflicult to woderstaod but we do not thiuk that is the case．We have often referred to it，not in－ but we do not thiuk that is the case－We have often relerred
frequently when nuch pressed for fime，and have rarely failed to tiud what frequently wheu nuch pressed for time，and have rarely＂ailed．
was required．＂－British MEDical Jotrisi，Augut ith，isis．
＂Not＇merely to practitioners who have access to great libraries，but to everyone，this book，in and ior itself，has a value for what it suggests．With－ out looking up ajsilngle reference，ohe may in perplexity obtaill a suggestion when a sughestion is all that is needed．＂－Practationer， 1 a 22 ，
＂The range of tiquiry suggested and of information conveyed＂is incalcul－ able．．．．．．．The mere realling of the Digest will thus impart an incredible amount able．．．．．．The mere Minma Mrscellany，18s2．

An erroneous impression exists that the Digest is a mere index，and that It is therefore of litile or no value to medical uncu who have not a viedical library at hand in which they can turn ug the references given．It is sur－ prising how numeh information may be obtalued on any subject by merely a reference to the work．＂－Allahabad Review，Septernher．Iss？．
Is tho book to be condenmed by those who fail to grasp its merits？Is it not ratherna illustration of the folly of offering gems to those who know not their value？

## NUTES，LETTEIKS，ETC

## Fuoitive Cinfma of the Eyelids

Mr．T．L．Karatck Danfeswrites： 1 was interested in Dr．Illingworth＇s note of fugitive odema of the lower lids，to which Dr．Tom Hohimson has directed attention．From observation of a case lately in which the patient consolted nee for＂stiffncss and aching of the luwer eyelids，＂I conclnded the odema was due to the same cause as Dr．Illogworth attributed it to，namely，passive venons congeation in the infra－orbital region．The condition was most marked

In the morning, but generally dlsappeared more or less hy the evening, and was al ways aecompanied by very marked fulness of the temporal and frontal velns, which subslded as the cedema passed away. There was much anxmia; bulse os' to 70, amall, compressible, and the hands and leet werealways cold. The patlent's hablt's were very sedentary, but oceaslonally she Indulged in dancing, and she remarked that after thls exerciso the swellag would disappear, and not perhaps return in any degree for days. Under treatment with quialne, iron, und sp, of ellloroform, and regular exercise, mpid improvement took place.
Da. C. 1h. (Lhiveworth (Clayton Ilouse, Accrington) writes: The ease describet by Mr. Hewkley Alfers frnm those deseribed by Dr. Tom Rohinson and myself, in that it was one due to athe congestion, whilst they were due to, or rather presented symptoms of, passlve congestion only. The evfdence of the difference ls supplied by Mr. Hewkley, and conslits in catarrh (or an ncute determination of blood), and "rosy ininess," "diffuse pinkness," and " urticarial erythema "-all syniptoms of inflammatory mischief.

The Practical Flement in Medical Trainisg and tee General Mfodical Council
Dr. Thomas Laffan (Cashel) writes: Allow me to point out that the regulathons which the above body has just drawn up, as the results of twelve months incubation, will in practice prove entirely illusory. Recollect what It was that was almed at by all outstie the monepolist cirele. First, it was sought to throw open to the student the large ellnical demesne now wholly unutilised. Secondr. it was sought to secure for the student certain advantages which pupilage alone can confer. These advantages were not denied even by many of the monopolist interest; but they always pretended that long ago they were comnterbatanced by the waste of an over-long, and the drudgery of a too often wort hless, apprenticeship.
Now. both those objections could be met by limitiag the time, and by only recognising masters provided with the opportunity and the capacity for teaching. I do not, therelore, base my objection to the new regulations on the ground that the teacher must be a recognised teacher, nor to the lact that the tlme must be limited-though I think sia months too short-but to ibls perlectly obvlous fact: that by allowing students to take out the six months in the out-patient department of a hospital they kill the whole thlng, and prevent the student breaking any new clinical ground, for we will In every case neet the new requirement by prodneing a certificate of attendance at a department where he has been always attending. The result of ance at wepart ment where he has been always attenaing. regnlation will do nothing whatever either to make the clinical material at the disposil oif the student less seant than it has in most cases been proved to be at present, nor will it admit the mass of the professlon within the charmed clinical circle. We must, then, continue to be the despised drudges that one of the Council stated in effeet we are, and leare to the metropolitan gentlemen who buy their brains at so many hundrec bounds apiece a continunnce of their present monopoly.

Gibson and Wife r. Jfffries and Hillos.
Further Subscriptions.
(To defray the expenses of the defendants : sce Jotrival, May 2gth, p. 1132).

W. C. Keats

| 0 | 10 | 0 | J. McCarthy (additional) |
| :--- | :--- | :--- | :--- |
| 0 | 10 | 6 | M |

J. Brown (Wanisworth)
"K." (Taunton) $\begin{array}{lll}0 & 10 & 6 \\ 0 & 10 & 6 \\ \text { M. M. Arennard Neni }\end{array}$
J. McCarthy

| 0 | 3 | 6 |
| :--- | :--- | :--- |

Leaving $£ 24 \mathrm{~s}$. id. to be collected.
C. B. Kvethey, IIonorary Secretary.

10, George Street, Madover Square, W.

## Inuriction is Scarlet Feffr.

Dr. Romert moxarl trites: "Micrococcus," who writes under the above heading in the Jovrias of May 3nth, will find an answer to the first part of his query by referring to an article on The Chemical Incompatibility of Antiseptic Agents, in the Joursar, of April 2sth. I may add that though the whele of the phenol in 1 in 20 carbolised oil appears to be held ta some comUlnation, whleh the body tepmerat ure is Insufficient to destroy, 1 in 5 carhollaed oll contalns a certain amount of free carbolic acld, apparently bueause in this proportlon the oll balng fully saturated, an excess of phenol remains.
 however, from the germicidal inefticacy of carbolised oll, Inunction of greasy materisl over the whole sus face, by providing a more or less Impervlous coatIng, Is well calculated to hamprer the healthy action of the skin, and to throw an increased stmin upon the kldneys at a tline when they are especlally susceptible to Injury. A course of tepld antiseptie baths which. while hastening the desquamative process, not only disinfects the epidermis as it separates, but also promotes fusteal of cliecking the healthy action of the skin, offers an nlernative llne of treat ment whiell is preferable to Inmetion In any form.

To Corrfapondents.
OUR correspondents are remlnded that prollxity is a great bar to publication and, with the constant pressure apon every department of the Journal. brevity of style and conciseness ol statement greatly faclitate carly Insertion We are compelled to return and hold over a great number ol communlcations chlefly by reason of thels unnecessary length.

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that amongst the English loranch of tho Ancho-Sason race grasses are the most frequent causes of attack of paroxysmal sncezing, whilst with Americans the pollen of the rnse and some other plants is regarded as being more potent. The frequency with Wnited States is well known, whilst in Inlia the affection is often attributed to the blossom of the mango, which flowers in behruary or March, and exhales an odour not minlike that of pure terebene. In Great britain, too, it is by no means rare to meet with people who are affected by other pollen than that of ora-ses. In a case Which recently came under our notice the pollm of the common daisy (Bellis perennis) gave rise to more inconvenience than that of any other plant. Weare told of a lady Tho could never remain in a room with even a single stalk of lidian corn without being seized with shortness of breath, and on one necasion Then abroad she suffered from a severe attack of asthma from going accidentally into a room where a mattress stuffed with the learts of Indian corn was being shaken. In another instance it is recorded of a man that he could never pass the slop of a certain ropemaker in his native town without suff ring from dyspncea, excited presumably by the dust from the flax. Cullen refers to the ease of a man who was seized with fits of sneezing whenever rice was threshed in the neighbourhood of the honse. Whilst Troussenu tells us that he himself always had asthma if he ramatned for even a few minutes in a room with a bouquet of riolets. The power of ipecacuanha dust to produce in certair susceptible persons attacks of shortness of breath bas long been recognised. asthma whenever ipecacuanha ront was porrlered in her husband's surgery even if she happened at the time to be in another part of the house.

Sir Thomas Watson says: "I recollect a serrant employed in the laborat ory at St. Bartholomews Ilo pital. when I was a pupil there, who had the peculiar ill-luck to be liable to this affection. the place. This idiosyncres is not rery uncommon. ohiged to fly quantity of ipecacuanha dust is sufficient in suc? persons to bring on a paroxysm of extrence dyspnea. wheezing. and cough, with singular anxiety and great weakness. The distress usually terminates by a copious expectoration of mucus."
Some people, although insusceptible to the action of ipcoacuanha, suffer severely from exposure to linseed or scammony. Dr. William Smith, of Preston, records the case of a patient in whom a linseed-meal poultice provoked the symptoms, whilst in another instance the smell of mustard was the exciting canse. Fowdered colocynth may have a similar effect, and an epidemic of sncezing Which occurred in a house was traced by us to the use of bitter apple, which was powdered orer the carpets and other articles as a preventive of moth. A medical student under our care assured in him paroxysms of sneezing, to whichderchief alwars excited was so assured of this that he gave orders that his handkerchiefs should never be starched. The coryza inducel by"preparations of iodine made with methylated spirit is well known. loyer mentions the case of a lady in whom asthmatic attacks were induced lys scents of all linds, and we are told of a sea captain engaged in the guano trade, who was so sererely affected by the emanations from this substance that he had to relinquish his occupation.

Most writers include under the term "hay fever" similar attacks induced by the exlalations from cats, clogs, horses, and other animals. 1 yrde Salter, in his interesting Tork on Asthma, gives detailed notes of several cases in which the shortness of breath was induced by exposure to the cfluvium of varions animals, his list including not only cats, dogs, and horses, but wild heasts, cattle, guinea-pigs, rabibits, and hares. A patient, the proprietor of a well-known equestrian establishment always had his asthma brought on by the presence of horses, so that he was continually asthmatic. He had no suspicion of the real cause of his suffering till he made his fortune and retired from business. when his srmiptoms departed, only to return if by chance le visited his olis haunts. Salter tells the story of a country cleccyman who was a hareskin. If by chance he met a man who a hareskin. If by chance he met a man who had been poaching.
he at once detected him. When this genteman was a hoy study ing with a private tutor, a fellow student, as a practical joke, pit a dead hare under as sofa on which he was sitting. and he immediately had a severe attack of his complaint

Bastian, in the Philosophical Transactions (vol, clvi. p. ises), relates some remarkable effects invariably produced on himself
producing violent paroxysms of cough and suecaing, accompanied
by irritation of the fances. It is a curious circumstance, too,
whilet working at the anatomy of the Ascaris megalocephala from the hones. These were a greatly incrensed sucretion from the Schneilerian membrane, with irritation of it, causing continuous suecring, also irritation of the conjunctiva, with such a sense of itching about the eyelids and carmente lachrymales as to make it extremely difficult to abstain from rubbing them. When they wore rubbed this immediately gave rise to a swollen and puffel condition of the evelids, swelling of the carnncula, and extreme vascular injection of the conjunetiva, and if the rubbing ware at all presisted in, actual effusion of fluid would take place under the conjunctiva, raising it from the subjacent sclerotic and cornea. It the same time that these effects were produced upon the mucons membranes, the slin of the face and neek was affeeted so ns to cause a sensation of itehing somewhat similar to that which exists in mild attucks of nettle-rash.
Several cases of paroxysmal sneezing produced by emanations from animals have been under our care, and many of them serve to illustrate points of interest. The first is a typical case of sueezing produced by emanations from horses.
A gentleman, aged 24 , had two cousims who suffered from asthma, and a sister who was a cat-nsthmatic. Jis father's cousin auffered from hay fever. Ife himself, when $2 \frac{3}{3}$ years old, hacl bronchitis, and from that time until the age of 9 had attacks of sacezing and asthma. He then went to live at the seaside, and for four years was perfectly well. Little by little, however, after leaving the seaside both forms of attack recurred, sneezing first, then the asthma. For the last two years his sneezing has been growing better and his asthma worse, but he suffers mure or less all the year ronnd. He fuuls that cither or both forms of attack may be brought on by coming near a horse, and this is the only exciting canse he can discover. One night at the theatre he felt oppressed and conmenced sneezing, without leing able to accumnt for it. In a few minutes, in the course of the performance, a horse galloped on the stage, and his attack then became so had that he had to get up and leave. IIe found that going into a stable would at any time immediately excite a jarorysm, and that the clothes of jeople who had been racing had a similar effect. One day at lialton some betting men got into the same railway carriage with him, and an attack was at once induced. The emanations from horse's would sometimes bring on asthma and sometimes an uttack of sucezing, and not infrequently hoth. The asthma was more likely to conve on in a carriage or close space, the sneezing in the open air, the attacks always lasting as long as he was exposed to the exciting canse. Flowers and grasses did not affect him in the slightest degree, but he occasionally had peptic asthma as the result of an indigestible meal. During the aneezing attacks the conjunctive and the eyeballs itcheol, the conjunctive becoming red anl congested. The itching was also felt over the whole of the inside of the nose, and was frequently accompanied by irritation of the throat. The nasal cavities were examined, but nothing abnormal could be detected. Tho sister's attacks, which sometimes assumed the form of sneezing and sometimes of astlima, were never excited by horses, but only by cats.
The following case of asthma and surezing profluced by contact with a caterpillar is, we believe, unique. Some years ago we had under our care a gentleman of neurotic temperament, who, ahout the age of 50 , suffered severely from acute pleurisy the result of exposure to cold and wet whilst out shooting. He recovered, hut from that time was suloject to what he called "hairy caterpillary asthma." If by any chance he touched a caterpillar, especially a very hairy one, he wos immedintely seized with an attack of ghortness of breath, often lasting un hour or more. Sometimes the paroxysms commenced with an attack of sneezing, accompanied by itching and irritation of the eyes and nose, with profuse watery discharge from both. He was not in the slightest degree affected by pollen, and he could pass lours in and about the stables without experiencing the slightest inconvenience. Ono of his daughters, who shared his temperament, was a eatasthmatic, her attacks of sneezing and coryan being always induced by contact with eats, or even by the prestanee of one in the room. She was not subject to hay asthma, nul ridiculed her father's ohjection to caterpillars.

The close connection existing between hay fever and intermittent sneezing is well shown in those cases where not only pollon lut other cxcitants induce an attack.

The following is a case in point: The widow of a clergyman has suffered for many years from this complaint. She sneozes a good deal, bit the running from the nose
and eyes is rery profuse, and out of all proportion to the sneezing. During the attack she has itcling of the whole of the nose and of the eyelalls and throat. The attacks oceur all the year round, but are most severe in the summer. They often occur the first thing in the morning, as soon as she begins tu move in bat. They are exeited at any time ly grasses, rosers privet. and, in a less therete, by other Howers. Driving in the: face of a strong wind will always bring on an attack. Any dust, especinlly the dust of a bedroum, brings on a violent paruxysm, and sunlight is also a frequent exciting canse. Food at once afforts relief, ceen when no stimulant is taken, the symptoms subsiding before the meal is finished. She never catches cold in the head, and the chest is not nsually affected. The attacks last from one to two hours, and are followed by great exhaustion. She finds that she can at once obtain relief by going into a dark room. It is worth mentioning that her daughters suffer from the same complaint.

This case is of interest as showing the influence of light as an exciting canse. It is a good example, too, of what may be called a mixed case, the attacks being induced not only by pollen, but by other causes. It may, of course, be argued that all dust is linble to contain pollen, but in this particularinstance bedroom dust was found to he more likely to provoke an attack than dust from other sources. The influence of sunlight in causing the attacks is one of the striking features of her complaint, and this is the case with many people who suffer from lay fever due to pollen. In some patients sunlight is insufficient to induce an attack unless the disease is aroused, so to speak, by the action of pollen, and then the rays of the sun will induce a paroxysm of sneezing, or increase its severity. In this particular hay fever is comparalle with may be excitod, such as migraine and neuralgia. The complaint persists other minor causes, such as a puff of wind on the face, will bring on a paroxysm; but when the predisposing eanse, the decayed tooth, or whaterer it may he, is removed, the minor exciting causes fail to arouse the attack. In some instances, as we all know, strong sunlight alone is sufficient to expite a paroxysm of sncezing, and it is ly no means uncommon to meet with people who cannot look at the sun without sneexing violently We have a patient, for example who, whenever he leaves the
house in the norning, if it he a fine bright dar, sneczes for ten min the hang. him to lose his train. The frequency and viotere of the cause ing rary grently in different cases, but are not unco sneez suliciently severe to justify tho patient being classed with intermittent sneezers.
The following case illustrates the influence of strong sumlight in people not affected liy pollen: A boy, aged la, suffers from attacks of congh every morning betweal six and eight. accompanied by wheering and tightness of the chest. He has suffered in this way for two years, and during that time has been liable to colds in the heal and transitory attacks of hronchitis. Strong sunlight always makes him sneeze, and cances his eycs to he "full and ref," so that the tears run down lis cheeks. The sneering is not excited lyy dust or pollen or by any other cause. His mother is a sneezer but not to any marked extent. Her mother suffered in the same way, and she had two sisters who were hay-asthmatics.
bust, as we have sem, is a common exciting cause, its influence being attribused by lblackley to the very general distribution of pollen. We are not ahle experimentally to disprove this, but we have seen sn many cases where this explanation seems to us highly improhalle, that we have some hesitation in accej!ting it. Our difliculty is illustrated by the following ease. A fady, aged 35 , or thereahonts, suffers from severe attacks of sneezing, which well nigh shake her to pipees. During a They begin she is literally hent double, and suffers agontes of pain. other times during the day. The attacks may last only a few minutes or perhaps an honr or two; sometimes, howeytr, they persist for twenty-four hours, or even three or four days. The snrezing is atcompanisl ly profuse watery ruming fron the eyes and nose, and the "ye lnemme rell and swollen. She sonks her pocket-handkerehiefs through and through, and her washing bill is aheary one. The attack is nlways preceded hy "pins and neelics orer bothan hones, the frontal sinus and the upper ing of the nostrils or irritation the nose, but without any itching of the nostrils or irritation of the throat. The itching nut
uncommonly occurs withont the sneczing, but the snezang nover
without the itehing and the sensations of "pins and needles." llouse dust will bring on an attack, bedronm dust and the dust from shaking a bed being most potent. The dust of the street, curionsly enough, does not affeet her; indeell, she often experiences relief during a paroxysm from going out of doors. Mlowers do not bring on the attacks, which cannot be due to hay, for she resides in a large eity; they occur at all times of the year. Sunlight will not excite the attack, although she complains that it hurts her eyes. She obtains some relief from taking food, hot tea, or port wine. Her mother bas been a sneezer all her life.
A middle-aged man, an ironmonger, has suffered from paroxysmal coryza and asthmn for two years, the attaeks being induced only by the dust of his shop. Other kinds of dust, for example that of a road, fail to affect him, and flowers, grasses, and bright sunlight are innocuous. The case is peeuliar in this respect, that whilst coryza and asthma are exeited only ly the dust of his shop, he in certain localities suffers at night from simple asthma without coryza.
Sneezing may sometimes be induced by riolent exercise. A patient, who bas been a sneezer for twelve years, assures us that in his case this is the most powerful exciting cause, and he always suffers severely if he takes a long ride on his bicyele. The sneezing generally lasts half an hour or more, and is accompanied by profuse watery masal discharge. When the exercise taken is unusually riolent, the nose swells about the bridge, and the conjunctivio become red and irritable. He does not suffer from itching of the nose or any part of the face. The attacks are never excited by dust, and he is not affected in any way by smoke, hay, or the smell of flowers. He has occasionally had nn attack in the middle of the might, for whieh he can assign no canse. These night attaeks, howerer, have ceased since he has worn a nighteap. Two years ago he became the subject of peptic asthma, and more recently caught cold, whieh brought on an attack of bronelitic asthma. The asthmatie attacks usually commence about two or three oclock in the morning, and terminate with a sharp paroxysm of sneezing. Ifis father was asthmatic, but has outgrown it.
Food is sometimes assigned as the exeiting cause of attacks of sneezing. A nerrons man subject to attacks of neuralgia stated that for nearly two years he had suffered from sneezing after meals, and especially after breakfast and dinner. The oecurrence of these attacks was faroured ly excitement, nerrous fatigue, or lrain work. He often wakes up with a migrainous headache over the left brow or at the back of the head, and then immediately after breakfast sneezes riolently twenty or thirty times, the attack heing accompanied by congh and expectoration, and running at the nose and eyes. IIe has never been able to discover any ot her cause for the attacks except food. It is probable that in this case the affection is central in origin. We assume that an impression conveyed from the stomach through the vagus and renching its centre would, through diminished resistance in this part of the central nerrous system, spread thence to that part of the fifth nuclens in connection with the nerves proceeding from the mucous membranc of the nose, inducing in this part of the nervous centre those molecular changes which impress on the sensorium the sensation of tingling or pricking, and this condition of the nervous centre of the fifth excites riolent sueczing.
From these cases it will be seen that the exciting canses of attaeks of sneczing are rarious, the chief being pollen, the emanations from various nnimnls, and bright sunlight. In some instanees it is difficult or impossible to diseover any exeiting canse, as is often the case in tho allied affections-astluma, neuralgin, and migraine. In these eases the mucous membranes may be perfeetly healthy, or there may be slight ehronic eatarrh of the nose.
The following case illustrates the power of this nasal irritation to intensify the attacks: The patient, a gentleman aged 45 , has heen snbjeet to neuralgia for many years. He has had attacks of persistent sneezing for three months. They may oceur at any time of the day, hat are nsualiy worse nfter dimier. He has constnut tingling in the left nostril posteriorly, and in the region of 1he septum. At times this pain beeomes much worse, and radiates over a lurge area, reaehing the nla of the left nostril. This "sharp pang," as he terms it. excites the attacks of sneezing. There is a constant watery discharge, but this is intensified during the sneering attacks. The discharge is worse from the nostril which itches. The is quite unable to discover any exciting cause, but is satisfied that it is not dust or pollen or bright lightit.
A lady, aged io, has almost every night for years had attacks,
lasting from twenty minutes to an hour, beginning with itching behind the sternum, and leading to a severe parnay:mal congh, accompanied ly profuse running from the eyes and hose withow itching of the nostrils or eyes, and with only on occasional paroxysm of sneezing. This case is of interest from its aflinity with asthma.

Asthma, as we know, often changes its character, and may be replaced by paroxysmal cough or dyelmœa. Manr patients suffer from itching over the sternum, which precedes the attack. We know ton, that many diseases in their transmission from parent to child change their type ; nn epileptie parent, for example, begetting a neuralgic, migrainons, or rheumatic child, or several members of the family may have different neuroses. In other words, these same changes in the nerrous system in transmission affect probably a different part of the central nervous system, and so induce a different set of symptoms. We know too that in the same individual one neurosis may replace another, and this interclange may occur not once bit many times. In other cases two or more neuroses not only affect the same person, but the attacks may oeeur simultaneously, a faet well illustrated by the following case.
A little girl, aged 6, has had chronic Bright's disease for some years, bnt she is now nearly well, althongh a little crstitis remains. Every week, or sometimes oftener, she has attacks of running from the erps, the lids becoming swollen, the upper especially, and the conjunctive suffused and bloodshot. The righ: eye is always more affected than the left, the difference bsing well marked. There is great intolerance of ligbt, so that the room has to be darkened, and usually she keeps her eyes covered with a shade. The nose runs, but she seldom sneezes. The bowels invariably aet at the onset of the attack, the motions being light in colour. She always vomits about half an hour after the commencement of the attack, and ejeets a large quantity of bilions matter. The tongue is red and spotty, and frequenitly coveral with circular patches like raw beef-steak. There is no sbortness of breath, but the nttack is followed by drowsiness. The only canse that can be discovered is excitement, but often enough the attacks come on when the patient has been kept quiet. It is thonght that inattention to diet will intensify them and prolong their duration. hut on this point the evidence is not clear.

## THREE LECTURES

## TUBERCULAR JOINT-DISEASE AND ITS TREATMENT BY OPERATION.

Delivered at the Royal College of Surgeons of England, June, 18se By ARTIUCR E. J. BARKER, F.r.C.S.,
Hunterian Professor of Surgery and Pathology at the Royal College of Surgeons: Surgenn to Liniversity College Hospital; and Teacher ct Practical Surgery at University College.

## Lecturb 11.

In the light of the researches and deduetions briefly alluded to in my last lecture, we have now to consider the behaviour of tubercular disease in the joints. That this is identically the same affection as that known under the same name in the lungs and other organs, there can, as 1 have shown, be no manner of doubt: and that the presence of the bheillns tuberculosis is associated witn analogous tissue changes in the joints to those found in the internri organs, is also, I think, beyond dispnte. But why the structures entering into the composition of the articulations are so liable to be infected, as appears to be the case, is one aspeet of the question whielh claims a short notice.

In the first place, it is almost certain that here we are dealing with a secondary infeetion in the rast majority of cases; in other words, that the organism introduced into the system elsemhere and present in the blood has found, in its wanderings, a homepeeulinrly fitted for its growth in the tissnes of the joint. That direct infection of the latter may take place through a wound bas been shown more than once, notably by such cases as those recorded by l'feiffer and Middeldorpf: hut this must be such an exeeptional necurrence as hardly to need consideration.
In speaking of infeetion of the joints it will, of course, he underatood that only the synovial structures and the cancellons: tissue of the bones are referred to. In these alone does the dis-
ease take its origin, however deeply it may ultimately involve the other components of the urticulation. Studied in its earliest stages, urticular tubereulosis is seen to consist in the deposit of the characteristic granulations either in the synovial tissues, or the medulla of the ends of the bones, or in loth together. In these tubercles, made up of the typical lymphoil, epitheloid, and giant-cell elements : the bacilli are often scuatily represented, and require care and patience for their demonstration. That the avascular cartilage, the highy-differentiated, compract honetissue, and the tibrous material of the ligaments and cajsule are primarily oxempt, is clear even from the most casual exsmination.

The reasons for this must be songht for in several directions. In the first place, alopting the view alluded to ahore that the disease is only a local expression of a general infection, and that the specific is eireulating in the hlood, it is only to be expected that the characteristic foci of hyperplasia produced by the organisin should bo most liequently, if not exclusively, found wherever vascularity is greatest. Or, to put it conversely, as the blood is the distributer of the organism thronghont the body, those tissues with a small vascular supply ought to have the greatest immunity from infection. And this is just what we find overywhere in studying tuberculosis. But looking further into the matter we can, ithink, trace the operation of other factors. for it is certain that tubercular disease does not commonly derelop in every part to which the organism is carried by the blood. We have seen elsewhero how predisposition of individuals plays an important part in the spread of this disease. Given, then, an individual predisposed by hereditary debility to tuberculosis, we might expect tubercle to manifest itself first at those spots in the system where the vital energy was at its lowest from one cause or another. Setting aside for the present the question of traumatic or other lesions, are there any special reasons why joints should be so frequently selected by the organism as a point of attack? Undoubtedly there are. It is well known that the disease generally tinds its most fertile soil among the very young, probably becanse, among other reasons, the ritality of the young cells is unequal to cope with the invading organism. And, if this be true, wo should expect to lind that, with the bacillus once in the blood, those tissues which are yonngest, or, in other words, approach most nearly to the embryonic type, should be most liable to suffer from its attacks. Now, such embryonic tissue is abundant in childhood, and most so at those spots where growth and physiological activity are greatest. In adults such tissue has become scanty, although we may find its analogue in the cellular prodncts of plastic exudations. But the medulle of the ends of growing bones and the synovial structures both ahound in embryonic tissue hardly yet differentiated, and are in actire growth. And that this tissue all over the body is peculiarly liahle to inflammatory disease of every kind, experience, whether of purely traumatic conditions or infectire influences; abundantly proves. This fact may be noticed, for instance, in the so-called general septic affections.
But the matter may be put in another light. It may be suggested that young growing tissues being necessarily very vascular, the physiological hyperremia requires but a slight stimulus to convert it into a pathological congestion. Be this as it may, it is important to note that throughout the body highly differentiated tissues-such, for instance, as muscle or temdon-are not liable to inflammatory changes in anything like tho same degree as the areolar tissues or the soft vascular material forming the basis of the synovial fringes of joints. And in the case of bones we may observe that all inflammatory changes, whether purely traumatic or infective-as, for instance, after measles and scarlet fever-have their starting, point, not in the cartilage or the compaet tissue, hut in the growing material underlying the pariostcuin and between the epiphyses and diaphyses, or in the medulla itself. That great plysiological activity predisposes in some way to intlammatory disease could not be more simply or letter illustrated thinn by reference to this frequency of suppuration in the breast during lactation and the rarity of this condition at other periods. Now, the physinlogical activity in the neighbourhood of joints in children is, of course, very great. We find here the most rapid bone growth, and a correspondingly active development of the aynovial membrane. And it is in these structures that intlammatory troubles start so readily in childrea. Moreover, ufter the strnctures in question have atcainerl maturity. inflummatory disease (ajart from injury) becomes rarer and rarer in them. if one were asked, then, to sugenst the most potent factors in the predispasition of joints to fubercular disosse, one would be in-
elined to s8y, in the first place, the inherent low vitality of the youngest tissues; and, in the second, high physiological activity -unless, indeed, we regard these two factors as one and the same thing. But this would, I think, be an improper view to take, for there does seem to bo a difference hetween low vitality clue to the age of a tissure and that susceptibility to give Way before opposing forces found in the conditions produced by great physiological unrest. In this very case of the joints, we find that, after maturity has been reached, and the bones, having attained their full size, have lost their epiphysal and periosteal embryonic tissue, they cease to bu a prey to primary tubercle, while the synovial membrane is still liable to the disease, its functional activity being called into play as much or more than ever under the increased stimulus of the vigorous adult morements of the articulation. It is extremely difficult-nay, almost impossible--to accurately determine the relative frequency of tubercular disease starting in the synovial membrane and that starting in bone, and, after carefully examining numerous tables compiled with a view to clucidate this point, I cannot say that they come even near definitively settling the matter. But one point, I think, may be accepted \&a almost certain, namely, that tubercular disease starts more frequently in the hone alone in childhood, and in the synovinl structures alone in adult life. If this preponderance of primary synovisl disease in


Fig. Ifi.- Upper end of young femur, showing a focus of tubescular disease (a) at the ustal starting point in the enlulyysary line of growth (from a specimen in University College Museum).
the adult be a fact, as I think it is, it would be best explained by the cessation of physiological activity in the bones while it continued in the synovial tissnea, the other factors in the production of the disouse remaining nnaltered.

From the above consileratinns it would appear that there are: several kinds of predisposition to tubercular disease of joints. In the first place, a peculiar debility may be inherited from phthisical or otherwise unhealthy parents, rendering the tissuex of the child generally less capable of repelling the attacks of the parasites than had it come of a robust stock. Next there is the general predisposition of early age, the tissues of the youmer having less resisting force than those of the mature. Thirdly, certain localities in the body appear to be particuarrly open to the attacks of the organism, owing probably to the hurried physiological changes involved in rnpuil growth which are going on in them-changes which are assochated with the presence of abundance of almost embryonic tissue and great rascularity.

In support of this riew let me point to what is usually, if not invariably, found when the ends of the long bones, for instance,
are examined in the earliest stages of scrofulous disease. 'Take the upper end of the femur as represented in these drawings from specimens in our museum at Unirersity College (Figs, III and IV), or the lower end of the femur and upper end of the tibia, which I' have copied from Koenig's plates (Figs. Y. Vl, VII). In every one of these specimens the initial lesion is found


Fig. I.-Sk., selerotic ; C.M., ciliary muscle; I., iris; C., cornea; T.F. tubercular foreign body (the black dots represent bacilli): Gr.K., granulation capsule around latter packed with bacilii ; N., new scas fissue in corneal wound with bacilli; Beg. T., beginning of tubercular byperplasia around bacilli.
as a focus of hyperplasia, with caseation at the lines of most active lgrowth between the epiphyses and diaphyses. And I could produce apecimens showing that this is the rule for all the long bones and most of the short ones.


Fig. IV.-Section of the upper end of a young femur shoming centres (a a) of tubercular disensuat ehther side of the epiphysary lluo of cartilage. The surfaces of the bune have not yet been reached.
MThe bearing of this fact upon the question of early conserrative operations on the ends of bones, versus later and more complete excisions of entirc joints, is obrious, and needs no further emphasis here. Its practical importance I hope to refer to again later on.

Finally, there is the predisposition of external injury, using the term in its widest sense. In the case of the joints, injury may
render their tissues more open to the attacks of the bacillus tuberculosis circulatiag in the blood, in several ways acting singly or together. In the first place the riolence may cause mora or less active inflammation, with exudation of plastic material into the tissues around. Such exudation material resembles embryonic connective tissue, and seems to have very little power to resist the attacks of the organisms; in other words, it offers a favourable soil for its growth. This we have seen in the case of inoculation of the rabbit's eye with tubercle by Banmgarten (lig. I), where the bacilli spread most rapidly into the granulation capsule (Gr. K) and along the cicatricial tissue of the corneal wound (N) than in any other direction.

Further, the increased blood-flow to an inflamed part mould also, cateris paribus, involve a greater supply of bacilli to it than if the rascularity were normal. Again, without any active inflammation, or, following upon. it,..vascular atony may result from violence to a joint, and passive icourestion of its tissues be the result, as is so often seen clinically: : In this condition not only is the general untrition of the part damaged, but the slowing of the blood-stream in the smaller vessels, amounting often almost to stasis, offers a better opportunity for the deposit of the bacillus in the parts around than is afforded with a normal circulation. And here, too, the greater amount of blood eatering the congested area would bring a larger army of organisms to the attack. Finally, injury to a joint will often produce more or less extravasation of blood into its tissues, which remains for a time unabsorbed. With this blood the bacill, too, escape from the vessels, and in


Fig. V.-Lower end of young femur, showiog a focus of tubercular diseave (o) close to the epiphysary line, und bursting on posterior aspect of bone outside the capsule (after Koenig).
their new position withdrawn from the current of the circulation, and in a state of rest they meet with the most favourable conditions for further growth, and soon form large colonies. This lastmentioned effect of injury is probably a most potent factor in the determination of the points at which tubercular disease shall start throughout the hody, and will best explain its appearance in many unusual situations. Those who are not familar with Schüller's experiments bearing upon this point will do well to give them their careful attention.
The parasitic nature of tubercular or scrofulous disease of joints has now, I hope, been sulliciently indicated, and its great power of extending locally and generally. In its modes of spreading by contiguous infection, through the lymphatics. and by entrance of its virus into veins, it offers, as we have seen, a close parallel to the modes of generalisation of the so-called malignant neoplasms. Indeed, there is much to jnstify our reganding tubercle itself in the light of a malignant growth, and our dealing with it aceordingly. But that in spite of its capacity for ride dissemination it may remain for a long time localised in a joint, the rest of the system continuing unaffected, I need not undertake to prore ; cvery clinicul observer is thoroughly familiar with the fact. On the other hand, we must all have been impressed with the experience that in many cases after a long period of quiescence as a purely loenl affection, tuberculosis has rapidly become general. We must have noticed that this has usually followed upon some injury to a fully developed caseating focus, or the bursting of some casesus abscess, or, what is perhaps of greater importance for us as surgeons to remember, it has followed soon after a surgical operation upon a tuberculised part. From Wartmann's statistics, embrucing the results of 837 resections, it would
glands enlarge and in many casca soften, wheress they had been little or not at all affected during the months or years the tuber-
appear that in at least 10 per cent. of the total number of deaths following operation, rapid, general, miliary tuberculosis supervenes in such a way ns to suggest strongly, if not to prove, that tion of the disense. And 1 cannot hely feeling, after a careful study of large masses of statistics, that if it were possible to analyse them more accurately, this percentage would be atill higher.
This is a rery grave consideration for the operating surgeon. But if, instead of closing our cyes to tiee fact, we set to work to letermine the actund causal relation of operation to this general dissemination of tuhercnlosis, we shall in the future be able to Nliminate one more risk in such cases, and shall escape the pain of reeing every now and then a patient relieved of his local disease only to succumb to rapid general tuberculosis set agoing by our operative interference. The explanation of this occasional genernisation of tukerculosis as the result of disturbance of a localised caseous form is to be found in what we have already considered. It will be remembered that the first effect of the introduction of a portion of tubercular tissue into the living rabbit's eye was the Now, beyond this sattere within a layer of granulation tissue. spread to some relatively small extent, as we have seen, but the fact remains that it is within this granulation capsule that they most rapilly multiply and accumulate, and that they appear to be imprisoned in a measnre within it. "In the aame way, when inoculated in certain quantities in tbe human body, there is good reason to suppose that ns a rule a similar capsule of granulation tissue is thrown out around the hacilli in sufficient quantity to limit their further extension, or at all erents to prevent their


Fig. Yk- - Section of ronng femnt to show a focus of tubercular disemse (a). bacting at the line of epiphysing growth, and ceating its way into the growth secondarily (afler Kor $\mathrm{D}^{\prime} \mathrm{g}$ '.
escape into the body generally in greater quantity than can be dealt with by the eliminatory powers of the various organs. That they can be got rid of from the system by excretion has been ,roved leyond doubt, for they have been found in several of the secretions; and it is also probable that to a certain extent, when the dosage is small an! the individual vighrous, they can be totally ctestroyed within the boly lefore they find a suitable soil for their growth.
Now, as long as this limiting layer of plastic exudation remains nndisturbed and unbroken, whether it still preserve the form of sranulation tissue or have unilergone that organisation into tibrous tiseue often founn around caseous foci in variaus parta of the body, we are jnstifled in belipring that organisms within obstacle is offerent to the dissemination of the organisms within it, and that the chisease reway this barrier is dissolved by suppuraIncalised. But if in any way this barrier isans of escape for the tion or broken through by violence, a means of escape or disease uncilii is provided, and more or les be distributed over a wider local takes place. The organism may be distributed over a wider local area, may br carricd along the y may gain accesa to an eroded or or completely in the glands, or may entried in overwing numbers into the torn veil, and thus he carriwn by Weikert. We are all familiar
 enkes place when a serofulous joint has received a fresh injury or has bren orer-exerted; and here, ton, it is probalily a question of the disturbance of a latent tulercular focus.
Again when a caseating centre, say in the knee or hip, has hurst through the skin, and the resulting sinus has become inflamed, how ofter do we eve the ingnimal or pelsic lymphatic
cular forms may lave remained in an unbroken and inflamed
lus given to absorption, by the access of pyogenic organisms previously excluded by the unlroken skin, and the taking up of the bacilli tuberculosid together with the nowcomers; or the occurrence of suppuration has resulted in destruction of the limiting layer of granulation or flbrous tissue which had hitherto shut of the organisms from the rest of the system. And after operationsay, an excision-if the resulting wound unhappily suppurates, we have often both of these factors working at once for the
spread of the in spread of the infection. There is the increased absorption from
the lymphatics, and besides ther the linguphatics, and besides there is probably in many cases a
taking of the apecific virus through the radicles of tho vein wounded by the operation. These may have run close to the foci of disease, both in the soft tissues and in the bones, in which latter, from their anatomical arrangement, they are peculiarly fitted to take up all kinds of fluid matter.

From all this there ought to be considerable risk of producing a general infection by operating on local joint-disease of a tubercular nature. It would be possible to invoke further aid from
statistics in order to strengthen the conclusion that


Fig. Vh.-Sertion of young thin, showing tuhercular disease starting at line of eplphysary growth, and prolucing as sequestrum Involving the joint becondarily (aiter Koenig).
but from lengthy and elaborate statistical atatements I purposely abstain throughout these lectures, trusting rather that my audience will credit me with an earnest desire to give them fair deductions from the statistical evidence before merather than weary them by a recital of the figures themselves. Some of these data may
be found in such tables as those contnining be found in such tables as those containing the experiences of Mr.
Marsh and Alr. Croft in the Clinical Soch Marsh and Mr. Croft in the Clinical Societys Transactions, and in
the admirable monographs of lioenig, of Willemer and of Wort mann. But if such risks exist, we may hillemer and of Wartmann. Causea and effects, learn to avoid them, or, at all stndy of reduce them to such an extent that they are lar outweighed by the benefits of operation.

In the first place the improved powers of dingnosis at the prerent day bring the scrofulous disenses of joints under our notive at a much carlier stage than formerly, and consequently we hare first. We are also able to det"rmine with tolerable accuracy whether the articular affection is primary or only a local manifestation of a general condition
How often joint tuberche is rally a local affection it is difficult to prove by figures; but from Kineniga annlysis of his own long geries of cases, which is the most accurate guide that I know of, it would appear that in over 21 per cent. no evidence of any this percentage will urobaly be found in the future to be much under the mark. We are spenking here of palpable evidence of infection elsewhere than in the joint only: for of course, in one sense, tubercular disease in the latter is always scondary-that sense, tubercular disease in the latter
is to say, the organisme hare lueen import into the tissues of
lence in handling the tissues around we open up the amall veins. or tear pockets from which the dangerous debbris cannot be prashed away so easily as from a clean-cut wound. Moreover, by rougls handling during operation the likelihood of suhsequent reaction and suppuration in the track of the wound is much increased. and the dangers of thia in adding to the probability of general infection we have already seen. Finally, when we operate early before snppuration has taken place, we can ensure the rapid healing of the wound we have made. All subsequeh a cisturbance of the freshly-injured joint can, in the case of such a clean, non-
suppurating wound, be aroided by the nse of permanent dressings and immorable apparatus. Vascular and lymphatic excitement and immorable apparatus. Vascular and ymphatic excitement
will thus be speedily allayed, and with this the probability of the apread of the disease locally or generally from amall quantities of the tuhercular virus, perhaps left accidentally behind in the operation wound, be diminished. The sooner a wound is healed and the quieter it is kept for a long time after, the less likelihood will there be of a rekindling of the original process or the general dissemination of the virus from it. And not only this, but if suppuration is anticipated and prevented, we need have no fear as regards amyloid disense or exhaustion carryiug off the patient. One has only to glance at any of the older lists of excisions to be impressed with the perils which lie in this direction, and to be convinced of how much might hare been done to mard them off by forestalling suppuration by excision or getting rid of it by amputation.
I purposely abstain here from going into the question of the better prospect of a useful limb after an early excision than after extensive disease has necessitated free removal of bone. This may require consideration later on, but 1 am anxious now, in the first place, to emphasise the need there is of attending to the reduction of the mortality from tubercular disease of jointa before we have anything to say as to the preservation of their functions. There is but little use of course in preserving to \& patient the functions of his joint if the prospect of his being delivered from what may be called almost a malignant disease is not improved by our operation, still less if his chance of this is diminished. I need only remind you here that more than half of the total mortality after resections for tubercular disease is due to extension of the tubercular process, either locally or generally. Glance for a moment at Sack's analysis of 144 excisions of the knee with $2 ;$ deaths. In 13 of these the cause was tuberculosis. Or Mr. Croft's list of 45 excisions of the hip with 18 deaths, at least 6 of which Here due to tuberculosis. Grosch's table of 120 cases of antiseptic lity of 36.7 per cent. more than half the deaths were due a mortacular affections. These results have certainly not been due in every case to the steady adrance of general tubercular disease which existed before the operation. And anyone who will carefully weigh the evidence which is now accumulating from all sides, and especiaily Weigert'a researches on extension of the process throngh the veins, and Arnold's obsertations in the same field. can come to but one conclusion, namely, that the general affection las been set up in very many cases by extension from the local joint-disease, just as sarcoma and carcinoma become generalised from a primary source.

I have now briefty alluded to the chief risks which surround patients attlicted with tubercular joint-disease, and hare hinted that one of them may be enhanced to a certain extent by operative interference, if undertaken without due caution. Ind we have seen in a mensure the direction this cantion against local reinoculation of the disease should takc. But there ure other risks more especially connected with operation (though they may appear in the course of cases never submitted to the knife) to which attention must be directed for a moment: I allnde of course to the septic infections of various kinds which may follow operation. siderable licsitation about operating at all on a larce scale in this class of cases. But, nowadays, with all the improvements of aseptic trentment, surgical infective diseases have become so rar: that we are relieved of our chicf anxiety in considering the propriety of interference by operation.

1 comparison of any of the older statistics of the pre-antiseptic period with any of those of recent years will convince us of the stride that has been made in this direction. No better illustration could be given than Willemer's analysis of 195 cases of tuhercular disease of the knee operated on in Koenig's clinic. Out of these only thirteen died as the direct effect of the operation, that is, of erysipelas, puenmonia, sepsis, tetanus, carbolic in-
toxlcation, and hemorrhage-a mortality of only 13.6 por cent. Now the rast improvement which has already taken place is hut the first step in what is to come, and l venture to thimk that the time is not lar distant when operations on tubercular joints will bo performed with as little fear of accicental septic wound diseases as are our osteotomies and tenotonies, in which we do not expect even l per cent. of mortality from these canses. The only remaining risks then in connection with tubercular jointdisease will be on the one hand the aoute infective tubereulesis connected with operation alluded to already, and the mortality from which at the present time may probably be estimated at about 10 per cent. of the deaths from all causes (Wartmann), and on the other, the chronic tubercular. affections which arise in those cases independently of operation, and within the first few years after the latter, the death-rate from which is still higher. Recent statistics, homever, especially those of Willemer, give us good ground for hope that here to $0^{\circ}$ a great improvement in the mortality may be effected by early operation and an intelligent recognition of the way to avoid reinoculation during the latter, so that on the whole the prospect for the operator is daily growing brighter in this region of surgery. At all events we now know two at lenst of our great enemies in this field, and we have aleo learned the tactics necessary to defeat them. And suppose for a moment we are able to wipe out completely the mortality from pyemia, erysipelas, etc., due to operation, and also that from acute tubercular meningitis, etc., set up in all probability by the latter, we should see such a table, for instance, as that of Mr. Croft's bip incisions, altered marvellously for the better. We should see 39 per cent. of the total number of deaths due to the first set of causes, and 11 per cent. due to the second swept away with one stroke; in short, 50 per cent. of the tatal mortality would be done away with for this terrible class of affections. Moreover, this probably does not represent anything like the gain which would indirectly follow, and which will follow I believe firmly in the near future now that we are recognising the true nature of the risks to be combated.

Leaving this brief, and I am conscious necessarily imperfect, sketch of the nature of tubercular joint-disease to serve as an indication of the line of action we should pursue in dealing with it by operation, I pass on now to consider the methods which I venture to consider can most be relied on in effecting our object. And here let mesay at once that I think in the case of most of the joints of the extremities the choice, when we can make a choice, should only lie, as far as operation is concerned, between early excision, partial or complete, and amputation. The practice of excising in advanced disease cannot be too strongly deprecated. After what has been said abeve regarding the dangers of producing a wider local infection and a general tubercular discase by imperfect interference with a local focus in a debilitated patient, and about the other risks bound up with late operation, this need not be further insisted on here. When tubercular discase is far ad panced we shall find better ultimate results from the eimple cleansing of sinuses and cpening of abscessee than from excision, and better still from armputation. If we examine any long list of accurately recorded excisions we must be struck with the fact that it is the operations on late cases that have so fearfully awelled the mortality hitherto, and made them compare so much less farourably than we would wish with series of cases treated entirely without any severe operation. I do not think thrt the service which Mr. Marsh has done in emphasising this point by his tables recording the result of hip-joint disecse treated without cxcision has been sufficiently appreciated.

But we cannot conceal from ourselves that operative interference with tubercular joint-disease without actual excision, that is, by the opening up of abscesses and the scraping out of sinuses, has also many dangers connected with it, and should be resorted to with the utmost caution for the reasons given abovc. Every surgeon of any experience must have regretted often laving persisted in opening abscesses and ecraping out sinuses in the hope of saring an extremity, only to see his patient succumb to general subereulosis or seģtic infection where an amputation would have saved life. I cannot help feeling that conservative surgery has gone too far in this direction at the present day, and that with our newer views as to the true nature and tendencies of tubercular joint-disease we must aim at bringing about a reaction in favour of amputation well above the diseased area in many adranced cases. The direction which the conservative surgery of the future should take is to try to recognise the diseaze as early as porsible, and, if it is distinctly on the increase in spite of the
best hygienic measures, to attack it by early and free operation, so that, ou the one hand, only sound tissues are left behind, and, on the other, the resulting wound shall not be so severe as it would have to be later on, and may heal by first intention.

What, then, are we to consider as proper cases for early interference? 1 t is quite plain that a considerable number of tubercular joint-diseases may run their course without any suppuration either to arrest of the local condition or to death from general tuberculosis. If we turn to Mr. Marsh's invaluable tables of 401 cases of hip-disease, for instance, treated without operation, wo find that I24, or 31 per cent., did not suppurate ; by which I suppose is meant that no caseous abscesses in and about the joint could be detected. Now, of these 69.3 per cent. Were cured or convalesced, 20.2 were incompleted cases, and 10.5 died. This is ir striking contrast to the results in suppurating cases not operated on given in the parallel column of the accompanying table.


Taking the most hopeful view of the middle group, we may perhaps assume that about 89 per cent. of these non-suppurating cases recovered with more or less useful limbs, and between 10 and 11 per cent. died. And although at least 9 per cent. of the deaths were due to tuberculosis of internal organs, which might have been prevented by early operation, I think we must admit that the results in these cases were very good, and such as might justify our abstaining from all operation in non-caseating cases. And if this is true of the hip, it is more so of other less important jeints.
I think, then, that for the present at all events, we might make it a rule that, as long as there is no distinct evidence of the presence of caseation in tubercular joints; so long may we be content to wait while treating them by other means. But does the converse of this hold good? Ought we to operate early so soon as we are satisfied that caseation is commencing and advancing? This cept in rery exceptional cases, as, for instance, affrmative, exorgans are also affected with tuberculosis. And I venture to think it is much to be regretted that this is not accepted yet as an established rule.
Taking Mr. Marsh's table of bip cases again for illustration, we find that auppuration was observed in 69.3 per cent. of the group not treated by operation of any kind. Here the mortality was high, namely, 33.2 per cent., as against 10.5 of the non-suppurating cascs. Of the total of deaths, 25 per cent. at least died of general tuherculosis, probably many more; for, in another 25 per cent., the cause of death was unknown. Again, 31 per cent. at least succumbed to albuminuria and exhaustion. Now, it is fair, I think, to assume that an early excision in these cases before caseation had commenced rould have almost or entirely wiped out the latter group; and, if 80 , it would have reduced the total mortality. And although there woald be the set-off of the risks of operation had excision been practised, these would not at the present day go near to raise the mortality again to its original figure. But besides preventing albuminuria and dropsy, early excision Fould probably greatly reduce the mortality from general tubercular disease, although lato interference might run some risk of increasing it.
In riew of these and other considerations, I renture to think that it would be a wholesome rule that in cases. Where general tubercular disease does not contraindicate it, the infected tissue of a joint should be thoroughly removed so zoon as it is suspected that caseation is advancing in it. Further, I believe that until some such rule is adopted as a general guide, improvement in the results of operations on tubercular disease of the joints will be very slow. Too often we see cases allowed to run on to the formation of large abscesses, with sinuses burrowing in all directions, which are only treated hy excision when the patient is brought very low indeed, and where the prospect of thoroughly eradicating all the tissues infected with tubercle is very slender, While the risk of producing further infection is great. Moreover, the severity most seriousl anaive operation as is necessary in such a case often if it does not actually destroy life at once, it goes far to render the system less able to fight against the inroads of pyogenic organisms, and against the development and spread of the tubercl bacilli already present in its tissues. In such cases of advanced
to execute all its morements to their fullextent, except under an anesthetic, but it is still used by the patient in a guarded way: Presently pain increases, and swolling becomes rery errelent There is more decided firation of the joint, and even under chloroform its morements are not free. A little later there is a slight rise of temperature in the evening, which recurs with regularity A careful examination of the swollen part may now detect a certain amount of doughiness or deep flactuation, or, at all events, a softness suggesting liquefaction of tissue at one spot or another. There seems to be good reason to believe that in a large proportion of cases uncomplicated by other disease elsewhere these two last symptoms commonly go together; that is to say, that there is usually no regular rise of temperature due ta strumous disease of a joint, unless the process of caseation has begun and is progressing. agan, there is nearly always a regular evening rise when liquefaction is well advanced, and almost certainly when actual suppuration has been grafted on to the process of caseation
Now in a case with the general outlines just given, in which we suspect that liquefaction has taken place, and where the ordinary treatment, including, perhaps, the injection of iodoform, has been tried, there may still be considerable room for doubt as to how far the disease has affected the ends of the bones or the synovial membranes-whether, therefore, an excision or a more limited arthrectomy may be required. Are we then still to wait and watch such cases until unmistakable ovidence is at hand of extensive destruction of the tissues of the joint? Most decidedly not. Surely we are fully justified in making an exploratory incision into the articulation, in order to investigate the actual condition of things. Guarded by antiseptics we now make exploratory incisions in doubtful cases into the peritoneal carity, the pleura, the bladder, and eren into the brain, and we are certainly justified in risks are infisiteraluable aid to diagnosis to the joints also. The risks are inninitesimal, with rigid asepsis and the use of Esmarch's
tourniquet; the gain is inin tourniquet; the gain is immense, whether we suspect bone or that with the elastic ber, such incisions should be free, seeing know now from experience accumulated in fear bleeding. We tured patella and of loose bodies, that join the treatmert of fracwithout the slightest damage to their functions, and whene far grater issues are involved than in these last-mamed conditiore far should not hesitate to incise them widely for the sake of accurate diagnosis. Te have furthermore the encouraging prospect, in a considerable proportion of cases, of being able to reach and eradicate $n$ more or less local form of extra-articular tubercular discase, either in the synorial membraue or bone, without materially impairing the functions of the ioint. Everyone who has read the record of them must hare been greatly impressed by those cases occurring, for instance, in linenig's clinic, and I believe paralleled elsewhere, in which joints have been opened for examination. and large wedge3 of redundant tuberculised synovial tissue been removed and the round stitched up again, with the result that not only hare the functions of the part heen restored completelr, but also that the disease has been arrested permanently, although proarience the tubercular tissue had not been eradicated. This experience is most remarkable. and would be almost incredible did
we not know that a parallel is found in the case of general tuber cular peritonitis. Nany cases. you will remember, of the latier disease hare been treated by abiominal section and cleansing of those "parts of the cavity accessible to the operator, with the result of complete arrest of the disease, althongh there mas no pretence that all the tuhercular material had beeu remored.

We may therefore, I think, encourage one another to much frees exploration of joints by lncision than we hare hitherto practised, assured that, With care, there is little or no risk, and that much stage will thus be overcome. This difliculty in determining ty xact stage of the disease and its primary seat in a joint in the course, onc of the chief ohstacles to our successful treatment of it by eperation. If we could in all cases localise the primary focus carly, we should be able in a very large proportion of them to extirpate it before it had infected the surrounding tissues, or had poured its rirus into the circulation either throngh the lymphatic system or through eroded reins. Not only should this be possible, but it has been shown to he feasille without seriously impairing upon record by severnl surgeons, and notably by Koenig and Sendler, in the case of the knee. But unless fornial exploratory operations are frequently resorted to at an early stage of the disease, such results will be few and far between.

# A LECTURE OI CHRONIC RHINITIS AND ITS SEQUELE. 

Delitered at the Eye, Ear, and Throat Hospital. Edinburyh. Br G. huvter Mackengle, M.I.,<br>\& arjugologist fo tho Hnopital: Vice-President. Section of Laryngology and Khiuology, British Meatical Association, 1835.

Sisce Voltolini first demonstrated the causal relationship between nasal polypi and asthma, the study of nasal discases has become of increused importance, not only from their direct effects, but also from their secondary or reflex results upon tho organs of cespiration.
lu discussing the symptoms and resules of nasal lisease, not only have we to bear in mind the various functions and sensitiveness of the general nasal mucous membrane, but also its intimate relationship to certain passages, cavities, and spaces, such $2 s$ the nasal duct, the antrum, the frontal sinuses, and the Eustachian tubes, as also the peculiarity in structure of that portion of the membrane covering the inferior turbinated bone in its whole eatent. This possesses the character of "erectile tissue" is consequently liable to sudden congestion and swelling, and appears frequently to be the source of reflex plenomena. The connection between the nose and the passages and spaces now referred to may, in nasal disease, lead to their being similarly affected, with claracteristic symptoms in each instance.

The more common affections of the nose and its mucous membrane are of the simple inflammatory bype, acute or chronic. As a result of chronic inflammation there occur, in the first place, a swelling and thickening of the nasal mucous membrane, more particularly of that covering the inferior turbiuated boue, which itself also may be thickened from participation in the inflammatory process. This thickening may extend orer the whole of the erectile area, or may be more or less localised, in the latter instance forming tumours of a solt or firm consistence. After this cluronic inflammation bas lasted for some years, it is said occasiounlly to undergo atrophy and thinning, and now the atrophic form of rhinitis supervenes. This atrophy may even affect the bones. There are thus two forms of chronic inflammation of the nasal inucous membrane, the hypertrophic and the atrophic, the latter of which is supposed to be consecutive to the former, though some authorities, with whom I agree, believe that the atrophic may exist from the first. It is irequently associated with ozana, and may exteud to the planryngena mucous membrane (pharyngitis aicen), or along the Eustachian tube to the tympanic cavity and drum (sclerosia). Acute rhinitis is usually bilateral; the chronic form may be mainly confined to one nostril, or, at any rate, may effect nore marked changes in the nasal mucous membrane of one side than the other.

Chronic rhinitis has such an importnat infuences. not only upon the nasal mucous nembrane and its functions, but also upon the sense of hearing and upon the integrity of the whole respiratory systum, that it is necessary to dilate upon it to some extent. 1 am the more anxious to do this as this causnl relationshipis frupuently overlooked ly the practitioner, with therapeutic failures as the result. I propose, therefore to consider in some detail certain of the rosults which are liable to be induced by its occurrence.

1. The Eiffect of Chronic Inflammation upon the Wasal Muonus Membrane and its Jiunctions. The effects of this structural change of the nasal mucous membrane are seen in the llunting or abrogation of the acuses of smell and taste, the partial or complete cessation of its respiratory functions, and, from augmented irritability, a decided tendency to evoko rellex pheLomena.

The loss of the sense of smell (anosmia) may be owing to either central or peripheral causes. The former ming be disease of or injury to the olfactory nerves or bulbs or the olfactory centre, the latter, certain conditions existent inside the nasal cavities. The degree of anosmia lepends upon the anount of blocking of the nasal fossxe, as also upon the condition of the mucons membrante in regard to nutrition, secretion, moisture, and dryness. Thus, according to Jlorell Jlackenzie, long-contiuued paralysis of the
fifth nerve destroys smell by iuterfering with the proper nutrition of the mucous membrane. It may also happen that, as a result of chronic rhinitis, the internal atructure of the nose is such as to unfit it to direct the air over the olfactory area.. In atrophic rhinitis, with wasting of the inferior turbinated bone and its mucous membrane, the air on deep inspiration has not the advantage of impinging upon and being cleflected into the olfactory area by the anterior end of the inferior turbinate bone. A similar state of affairs arises when, owing to destruction of the nasal cartilages, the openings of the nose become vertical instead of horizontal. In both these instances the air, despite the act of deep, inspiration or sniffing. cannot be drawn orer the olfactory area, but invariably passes along the inferior meatus towards the lungs. In degree corresponding to the amount of anosmia present is the loss of the power of appreciating flavours, which also depends upon the olfactory nerve. The sense of taste is consequently correspondingly blunted.
The respiratory functions of the nose are necessarily impaired in chronic inflammation and thickening of its membraue, especially when, as frequently happens, the inferior turbinated bone is the area most affected. The open mouth and vacant look which characterise these cases of nasal obstruction and oral breathing must be well known to you all. Sleep is also restless and noisy: the mouth and throat are dry and uncomfortable; and the geueral nutrition, especially in children, is impaired.
Any description of chronic rhinitis and its effects upon the nasal mucous membrane would be incomplete without reference to the subjects of ozæna and of neoplasm. Ozena, as already atated, is usually associated with chronic atrophic rhinitis with a purnlent secretion, which dries and forms a crusty coating with aa offensive odour. Woakes proposes to restrict the term to cases of disease of the ethnoidal frontal, or sphenoidal cells. It appeara to be doubtful whether the odour encountered in this complaint is not met with in cases of ordinary chronic catarrh of the nose. This much can be said about ozena-that it is always associated with more or less chronic atrophic rhinitis, and that, whilst it. radical cure is hopeless, it can be greatly benefited by the treatment appropriate to this complaint. Ozena is usunlly bilateral: when unilateral, it is supplosed to be characteristic of abscess of the antrum.
The thickening resulting from chronic rhinitis, instead of extending uniformly over the nasal mucous membrane, may become localised, and so form mucous, bony, or cartilaginous tumours. It is important in this connection to distinguish those tumours, when situated over the region of the inferior turbinated bone. from the vascular swellings which occasionally arise in connection with the erectile tissue of this region. This can be done by the local application of cocaine, which causes the latter to disappear by contraction of the vessels, but has no effect upon the former. As results of long continued chronic inflammation in the superior uasal region, we occasionally find mucous growths or polypi, whose farourite seat is the middle turbinated bone, whence they protrude into the general cavity of the nose. They are alway associated with a condition of chronic inflammation of the nasal mucous membrane, and sometimes with necrosis of the nasal bones.
2. The Direct and Reflex Fifects of Chronic Rhinitis upon Contipuous Structures.-From direct extension of the inflammation of the nasal mucous membrane, ndjoining cavities and their coumunicating canals may participate in the inflammatory process. Thus the ethmoidal and sphenoilal cells and sinuses may beconte affected, and become filled with purulent secretion. When the frontal sinuses are implicated, frontal pain and headache become troublesome symptoms of the complaint. In addition to direct extemaion by contanuity of tissue, it is possible that, as suggesterd by Woakes, catarrhal symptoms develop in contiguous structures from the ideutity of the rasomotor nervous supply, an example of which is seen in the occurrence of herpes labinlis in nnsal catarrh. From the irritation of the filaments of the seconcl division of the fifth nerve supplying ordinary Eensation to the nasal mucous membrane, and the free distribution of this nerve to the face, it is not unusual to have facial neuralgia nssociated with. and probably dependent upon, chronic rhinitis. Headachr (lifferent from that due to direct extensiou of tho infammation to the frontal sinuses) vertigo, and even epileptic attacks have been clearly traced as owing their origiu to intra-nacal inflammation. It is interesting to notes that, as recently pointed out by Lauder Erunton, similar symptoms may spring from carions teeth with complete abseuce of touthache.
3. The Effects of Chronic Rhinitis upon the Far and the Sense of Hearing.-In chronic rhinitis the sense of hearing may be affected in three ways: (a) By direct extension of the inflammation backwards through the posterior nares to the naso-pharyngeal space. According to Woakes, affections of hearing are a most important and frequent complication of post-nasal catarrh, occurring in 95 per cent. of the cases. Blocking of the Eustachian orifices may be aided by the participation of the pharyngeal tonsil in the chronic catarrh, which may enlarge to such an amount as to press directly upon the openings of the tube. (b) Defects of hearing may also be produced by the nasal stenosis in this way. Nasal breathing having been partially or completely arrested, the current of air in mouth-breathing no longer bathes the Eustachian orifices, and a condition analogous to that oceurring in direct obstruction of the Eustachian tubes is brought about. In both instances the amount of air necessary to equalise the external pressure upon the drum is insufficient, and this is also liable to be withdrawn during the acts of swallowing. (c) Another factor in producing deafness is seen in the condition of the palato-tubal muscles which, from the long continued irritation of the catarrh, are liable to become more or less paralytic, and so incapable of discharging their function in conuection with the opening of the tubal orifice to the admission of air.
4. The Direct and Reflex Effects of Chronic Rhinitis upon the Focal and Respiratory Organs.-These are amongst the most important results of chronic inflammation of the nasal mucous membrane. Everyone is aware of the important modifications of the roice which ensue from partial or complete blocking of the nosemodifieations rarying from loss of timbre and harshness to complete inability to utter the nasal rowels and consonants. The roice may further become husky or loarse on account of the supervention of chronic laryngitis from the action of the cold and impure air during oral respiration. Nasal obstruction, in short, seems to me to he one of the most important and generally overlooked causes of chronic laryngitis. I am desirous to direct your attention to the close and intimate relationship which frequently subsists between chronic nasal inflammation and certain respiratory disorders, such as simple cough and asthma. It seems that, owing to reflex dilatation of the vessels of the bronchial mucous membrane, simple bronchitis may also thus be produced.
Voltolini'b discovery-that in certain instances nasal polypi had a clear causal relationship to asthma-has received auch ample confirmation from the observations of other practitioners that its truth may now be considered as indubitably established. Nore prolific even than polypi as sources of local and reflex disturbances are the erectile-tissue tumours, to whose oecasional presence I have already referred. The area over the inferior turbinated bone is said to be particularly irritable, probably owing to its containing so much erectile tissue. Some observers (John Mackenzie), however, say that the posterior part of this area and the corresponding part of the septum are the most liable to induce reflex phenomena. By experience has been that irritation of any part of the mucous membrane may, under certain circumstances, induce reflex phenomena.

Nasal asthma and cough, then, are induced by mechanical irritation of a hyperesthetic mucous membrane. This may be induced by the action of polypi, particularly when the position of the head is such as to fill the carernous sinuses and cause turgescence of the mucous membrane. This is most apt to oecur in The lateral recumbent posture, and explains why these attacks, as well as stuffiness of the undermost nostril, oceur so frequently during sleep. Preceding or accompanying these attacks of asthma and coughing are usually sneezing and a copious flow of mucus from the nose. Sneezing is a reflex act, due to irritation of the fifth nerve, and, whilst it may be induced ly irritation of nerves in other parts, is usually of ralue as indicating the presence of irritation of the nasal mucous membrane.

The fact of the simultaneons occurrence of nasal polypi or hyperasthesin of the nasal mucous membrane, sueli as frequently results from chronic rhinitis, with cough, asthma, or bronehitis points to the necessity of making a careful examination of the nasal cavities in all cases of respiratory disorders. It is not always possible to say whether this causal relationship obtains in a given case characterised ly the presence of both pulmonary and nasal disorders. It is in favour of its existence, however, if the nasal symptoms now alluded to precede the respiratory attacks, or if mechanical irritation of the nasal mucous membrane by means of a probe indicates hyperesthesia, and more so if it is the means of evoking a reflex act, such as cough. A neurotic basis is probably an important element in most of these cases.

Chronic rhinitis appears under other forms than those we hare just been considering. It is a prominent condition in the malady known as hay fever, a latent or recurrent complaint in which there exists a hyperesthesia of the nasal mneous membrane to the influence of the pollen of certain grasses. In newly-born children a condition of rhinitis analogous to the ophthalmia neonatorum is sometimes present, and is apparently due to a specific inflammation of the nasal macous membrane by the raginal secretion during parturition. It may heeome chronic. This rhimitis neonatorum is productive of serious inconvenience and trouble to the child, not only by preventing sleep, but by obstructing nasal respiration, and so rendering impossible the act of sucking.
Rhinitis, in a more or less chronic form, may complicate other diseases. Attention has, for example, been recently directed to the co-existence of whooping-cough and nasal catarrh, and it is stated that this disease has been cut short by treatment directed to the nose-insufflations of dried coffee and boric acid in equal parts, or of pulcerised benzoin.

Amongst the results or sequelæ of chronic rhinitis may be mentioned certain connected with glands. The lymphatics of the nose open, aome into a gland in front of the vertebral column. others into a gland situated in the parotid region, whilst. a third set discharge into certain of the deep cervical glands lying in front of and beneath the sterno-mastoid muscle. Chromic inflammation of the nasal mucous membrane may consequently eause enlargement and even suppuration of these glands, and thus we may come to hare a retro-pharyngeal abscess dependent upon intra-nasal inflammation.
I ought not to finish my remarks on chronic rhinitis without directing your attention to the subject of post-nasal or nasopharyngeal catarrh. Accompanying this condition may be enlargement of the pharyngeal tonsil and naso-pharyngeal regetations. This rariety of catarrl is characterised by a troublesome morning cough and sanguineous expectoration, frequently accompanied by vomiting. As already remarked, it is a frequent cause of deafness, and by direct extension to the larynx and pharynx. undoubtedly induces secondary inflammation of these regions and of the tonsils, and so aggravates the symptoms of nasal obstruction. Stoerk has, under the title of "Blenorrhoea of the Respiratory Mucous Membrane," described a form of inflammation which, commencing in the nasal mucous membrane, spreads slowly to the pharynx, larynx, and sometimes as far as the bronchi, causing in its course serious stenosis of these passages. These post-nasal and naso-pharyngeal inflammations and growths are extremely liable to evoke reflex phenomena after the manner of elronic rhinitis, a fact which points to the necessity of posterior as well as of anterior nasal examination and exploration in all cases of spasmodic respiratory disorders.
Chronic rhinitis may extend anteriorly to the face, as well as posteriorly towards the pharynx. I have witnessed the production of facial erysipelas in this Tray, an occurrence which has alsu been noted by other observers. It is also important to bear in mind that the outside of the nose may become red and swollen from reflex dilatation of the blood-ressels by long-continued irritation of its mucous membrane, and may be cured by treatment of the rlinitis.

In considering the treatment appropriate to this complaint. regard must be had to whether the rhinitis exists in a simple form, or whether it is complicated by one or other of the sequola already mentioned. In all cases, however, it is necessary in the first instance to adopt measures to ensure cleanliness of the nasal mucous membrane, and the remoral of all muco-purulent or purulent secretion. Solutions of tho alkaline carbonates or bicarhonates are the best for this purpose, applied by snifting up from the palm of the hand, by spraying, douching, or Eyriuging. These ought alwnys to be used tepid, so as not to excite the flow of mucus. The spray is probably the best means, as the mild method in which it impinges natinst the pharynx is less liable to cause inflamuation of the Eustachian orifices than either the douche or the syringe.

After the nares hare been thoroughly cleaned and freed from secretion, measures ought to be adopted with the view of restoring the mucons membrane to its normal condition. The mature of these measures depends to alarge extent upon the degree of affection of the mucous membrane, and the presence or absence of sequela and complications. lowders, sprays, pigments, gossyia. and instrumentation may be so employed, singly or in combination.
Hypertrophies, growths, and po'ypi are as a rule quite uninflu-
enced by medieal remedies. They nre best tranted hy means of the galinno-enutiry snare, puncture, or simple furrowing, the mucons membrane haring previously been rendered insensitive by the applieation of $\Omega 5$ to 10 per cent. solutiou of cocaine hydrochilorate. The sensitive arens within the nose, upon whose irritation cough or astluua secms to depend, are also best treated hy, the application of the galvano-cautery. With regard to polyni, the great advantage of the galrano-cautery is, that not only can we remore the larger polyiv, but by passing the cautery freely orer and througl the rootlets of those whieh cannot be removed, wie have a greater chance of preventing their groath and assumpwith the place of the larger polypi. In the enses of necrosis ought to be rememberel that the inferior turbinate, boing a separate bone, is much more tolerant of interfercnce than the superior or middle turbinates, which are parts of the ethmoid.
1 have not attempted to enumerate to you the various therapentical ageneies which may be alopted for the treatment of hhronic rhinitis, is these will subsequently, in my leeture on "Respiratory. Thernjenties," he considered in greater detail. am more anxions that you should grasp the prineiples upon whieh this trentment sloould be founded, and recognise the necessity of examining not only the chest and throat, hat also the nose, in all cases of recurrent or spasmodic laryngeal or pulmonary affections.

## THERAPEUTICS OF HAY FEVER.

## Br CARL GBNTII, M.D.,

Langen Schwallach.
THE appreach of the time at which hay ferer usually appears induces me to offer you the following notes and observations.

For the past ten years, a young medieal man of my aequaintance has suffered, from the beginning of May to the end of June, on severely from hay fever that his practice has been seriously interfered with. It will be understood, as a matter of course, that he had in succession tried all the many and much-lauded remedies without any good result. Quinine, in large quantities, alone profuced farourable results, and not before symptoms of poisoning presenterl themselves. It may not be without interest to mention that urticarin broke ont, beginning on each side of the spine, following the course of the chief nerve-branches down the arms and legg, and finally covering the whole body. This painful state lasted for three days, at the end of which the hay fever disap-prarel-leaving, however, in the patient no desire to repeat the experiment with quinine.
lis a comparatively large number of cases of hay fever, I found that the primary indication of the disease was a slight twitching semsation at the inmer corner of the eye. This sensation becomes more intense day by day; next follows a swelling of the conjunctivn, with all the accompanying symptoms of acute conjunctivitis, and the symptoms refirable to the mucous membrane of the nose, asthma, etc.. set in inter. These slight premonitory symptoms, which sometimes precede the fimal outbreak ly a fortnight, and gotten. Dut ever assumine that, now and agnin, the clisease does not begin in the eyes, but in the nose or the bronchial tubes-a 10 saibility which in principle cannot he rejected-the exception would not by uny means invaliante the assertion that hay fever rually begins with the symptoms of conjunctivitis.
Epon these facts I buifu my thernpeutic plan. Since the first cympoms of huy ferer manifest themselves in the eye, it is prorable that thes agent which is to be regarderl as the cause of the hay fever (I do not here refer to the pollen grains which are crergwhere present during the season in which the fever prevails, and are consequently to he found in the secretinn of the conjuncfin and in the muens of the respiratory tracts) lirst attacks the monjunctiva; under favourable circumstances (heat) it multiphlies a, piratoryen diffuses itself over the mucnns membrane of the panul. To be uffectivaps through the medtium of the laryngeal ir atment, lifected to the eyes at the earliest possible date.
I will pass nver the letails of the experiments that were ineffurtual. On the advice of my learned friend Dr. Pagenstecher, of Wiesbaden, I ehose instillation and bathing of the conjunctiva with sublimate solution, of the strength of 1 in 3,000 . The bathincr began perhaps fourteen days before the appearance of the hay fover, whenewer the patient retnrned home after open-air exercise, The phtient was hesides required to keep as conl as possible, and
to wear pale blue spectacles. The result of the treatment was that he remained free from his trouble for a length of time. Not before the end of June did slight irritation of the conjunctiva seappear, which, however, could not be eompared in intensity to former attacks, and incolved no complication. Relying probably upon his generally healthy condition, the bathing had not been performell with sufficient energy. Although the sublimate solution came in contact with the mucous membranes of the nose or throat only slightly, or perhaps not at all, neither of these organs was affected, which must have happened if the virus of the hay ferer passed into the body through the nose and mouth. In such an exceptional case, it would be simple enough to apply the solution by a nose douche, by garglings, or perlaps even by cantious inlalation.

## THE VALUE OF INSPECTING THE ORIFICES OF THE URETERS BY ELECTRIC LIGHT IN THE DIAGNOSTS OF "SYMPTOMLESS" HEMATURIA AND PYURIA.

By E. JULRRY FENWICK, F.R.C.S.,

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In the endoseopic examination of the eye, the ear, or larynx, the operator first directs the light upon the most important structure -the optic dise, the drum, or vocal cords, and having satisfied himself as to their condition, he turns his serutiny to their surroundings. The need for it in exploration becomas more pressing as the field we hare to search enlarges, and in the wider areas the rule of starting from some fixed important point is often no mean factor of success. Thus, in abdominal section for obstruction the hand first feels the creeum to ascertain if it be full or empty, and from thence the fingers trace the coils of large or small intestine according to the clue which crecal distension or contraction may afford.
In the exploration of the bladder with the electric light it is necessary to have some such starting point in order that the examination may be systematic, rapid and effective. The most im portant section of the bladder, speaking cystoscopically, is the of the zone, and the cardinal points in this area are the orifices of the ureters. Upon them the operator should first direct tho
light, ${ }^{2}$ and from them the search should radiate. There are several reasons for them the seareh should radiate. There are sceral reasons for this choice. From the orifices of the ureters
may be scen to issue fine jets of renal blood in kidney bleeding the semi-vividness of which may prove fallacious (yithouling, cystoscoye) in the diagnosis of the source of symptomloss hematuria. Upon their lips or in their immediate neighbourhood are most often to be found those tumours which can bafle diagnosis. ${ }^{3}$ Moreover, their appearnnce, their clean-cut, slit-like openings, or their tumid, gaping mouths-that is, their lealthy or unhealthy aspect-is an index to the sonndness or unsoundness of the remainder of the mucous membrane, which cannot be neglected in the treatment or prognosis of disease.
In hematuria I generally first satisly myself that the ureters are free from tumours, and then make a rapid surrey of the rest of the biadder, proceding from below upwards (that is, inversely to the tendency the zones evince to growth). II 1 can find no cause for hamorrhage I return to the orifice of each urcter, and watch the colour and nmount of its efllus. In three cases lately I have thus been able to detect the renal source of symptomless hematuria, which otherwise I might have overlooked.

Case I.-Mr. B. consulted me in January. 188s, in reference to a hamaturia. Ile brought with him a spueimen of bloody urine

[^80]containing much clot. Ilis history was as follows:' In January, 1886, he had been out riding for two hours, and came home completely chilled. He passed blood the same erening. He suffered no pain or inconrenience. except a slight urethral tingling when the chots were passing. The hrmorrhage stopped in the summer, but recurred in the winter of $\mathbf{1 8 8 7}$, to cease once more upon the advent of the warmer weather.
Present Condition.-" I well-built, anæmic man, aged 30. The nrine is voided thrice a day. No pain attends the act. He suffers ' agony' after coition, in the neck of the bladder. In micturating he has noticed that the urine often becomes more bloody towards the finish."
I expected to find a resical growth with the electric light, but nothing abnormal could be discorered. The entire bladder was healthy. I was just giring up the examination in despair, when I saw a stream of brightish blood shoot right across the prism. Keeping the instrument fixel, I waited until the medium became clear again, and then I fonnd that I was watching the orifice of the right ureter (Fig. I). In another second a jet of bloody urine


Fig. 1.-Ureteml projection, much magnilied by proxinity of the prism.
burst from the tiny opening, and, after forming many rings, paled by diffusion and disappeared, but only to be replaced by a successor (Fig. 2). The phenomenon of efflux suggested to my mind

a miniature cuttle-fish, squirting out its coloured fluid into the water around. The right renal source of the hemorrhage was at ance indicated.
Case Ir.-Mr. C. (under the care of Drs. Underrood and Harrey). a well-built man, aged 52 . Since May, 1857, he had suffered from hematuria, which was painless and intermittent in its character, and seemed more dependent upon exercise than anything clse. The urine was passed thrice a day. lle was disturbed only once at night. Some specimens of hrematuria contained eylindrical clots. I passed the electric eystoscope under cocaine, and found a low collarette of prostatic growth, but it mas obrionsly not the cause of the hemorrhage. The bladder was healthy. I could see jets of blood issuing from the right ureter, and the diagnosis of the site of the trouble was at once established.

Case im.-A lads, under the care of Dr. Mepworth, of Manchester, and Dr. Battersby, of Cannes. For eighteen months the patient had suffered from hematuria. The urine varied much in colour, but there were no symptoms whatever to afford a clue as
to the exact source of the bleeding. The electric cystosenpe (No. 30 Irench gauge) showed the bladder to be perfectly healthy, but, on turning the instrument towards the left ureteral orifice, a spurt of bloody urine flowed over the prism. I allowerl tho ureter to play upon the prism, in order to judge of the rhythm of the flow, but it nerer varied, although Drs. llewitt, Lysa, and I watched it for some little time. It was rather like an artery severed under water. I could detect no renal tumour in any of these cases.
These three cases are sufficient to illustrate the yalue of inspecting the orifices of the ureters hy means of electric light; and of excluding the kidnejs as a solurce of the hrematuria; moreorer, the same adrantage can be gained in pruria, and the many methods and instruments adrised and derised for obtaining urine direct from either kidney must now be partially snyerseded by the electric light. The ureteral orifices are not difficalt to ind. They, are very rarely displaced, ${ }^{6}$ and still mare rarely are they absent. A little thet in manipulation and knowledge of the crstoscore will bring them into view, and amply repay the operator for examining them.

## ABSTRACT OF PRESIDENTIAL ADDRESS ON the social position of the medical PROFESSION

Read before the Birmingham and Midiant Counties Branch of the British Medical Association,

By THOLLS WILLIAY TIIURSFIELD, M.D., M.R.C.PLosd., Pbysician tothe Farneford Hospital, Leamington.

I Hare taken for the subject of my address one which has interested me for a considerable time. It is "The Social Position of the Medical Profession in this Country at the Present Time." In contrasting the position which is beld by the medical profession, in social estimation, with that of the other learned professions, I think it will be admitted that we do not stand so high as either the Bar or the Church; and yet the attainments of the members of our profession, their character, their self-denial, and their public serrices, are acknowledged on all hands, and should command for them a respect as high as that in which any other profession is held.

Dr. Thursfield indicated that this low estimate was in part due to the ignorance or jealousy of the pullic, but in part to certain faults in the profession which he classified as follows:

Imperfect Preliminary Elucation.-The fact that anybody can become a registered medical student merely on having passed a second grade examination of the College of Ireceptors, and that anyone between the ages of 16 and 17 years can if he chooses drop for ever all learning except that which is specially set apart for the acquisition of professional knowledge, leads to the introduction into this profession of a very large number of men who, I do not hesitate to say, are more imperfectly educated in a general sense than the aspirants to any one of the other learned professions. And here I may say that 1 think the entire abolition of the apprenticeship or pupilage system has been a mistake; for 1 cannot think it wise that a boy should go straight from school into a life so full of manifold temptations as is that of a medical student. A year passed in the family of a medical man in large practice would greatly widen the student's ideas, and add largely to his obtaining a truer conception of the duties ho is about to undertake. Narrow though his education may be as compared to that of a medical man, it camot be denied that the young curate has a much better social position at the outset of his career than the young physician or surgeon, while it is quite certain that the position of the young physician or surgeon is not comparable with that of the most junior memher of the Bar. This 1 believe to be largely due to the more prolonged and complete preliminary edtcation necessary for the Church and the har.
Imperfect l'rofessional Eulucation.-The second reason of the low estimation of our profession is, I think, the imperfect professional education which so large a proportion of our number receive, though 1 must admit that this is improving day by day And yet, when one looks at the rast domain of medicine, one is lost in wonder as to how it is possible, in the short space of four

[^81]years or less, to get anything like a conciso knowledge of the subject into a young fellow's head.
I'rofessional (Quackery and Dishonesty. -Those of us who have been any time in practice must be well aware that quackery is not to be found wholly outside the profession. If the art of the yuach is to pretend to a kuomledge which he does not possess, to be constantly disparaging the art of others, and to be using remedies whose utility is not proven or is at least mysterious, then we must admit that there is plenty of quackery within our ranks. Aud do you think for one moment that an intelligent public does not see through this dishonesty?

Professional Jealousy. - This is one of the most potent canses for the low estimation in which our profession is held. I need go wo further than the daily papers for the last six months " to point the moral and adorn the tale." Does a man acquire an illustrious patient, his neglected rivals make little hesitation about disparaging him in public. Does a man make a great auccess in professional life, it is seldom but that whispers are heard among his own compeers that it is to luck and chance, and not to merit, that he orres his advancement. Our quarrels in law courts are such that any leading counsel will tell you that medical testimony is of little or no avail when anything like disputed points arise. Is it possible that we can blind ourselves so far as to believe that these things are not supremely damaging to our social estimation?

Prafessional Etiquette.-If we could once realise that the only basis of true professional etiquette is always, and on all occasions, to do towards our professional brother what we should like him to do towards us were he in our place, we should then, I think, pscape from this reproach of having amongst ourselres a code of lars which is "not understanded of the people," and which is bejiered by them to be made entirely for the benefit of the members of the medical profession at the expense of the public. It is short-sighted policy on our part, I \&m sure, to surround with lifficulties the natural wishes of our patients to resort to consultations and further advice; and the difficulties which we so often place in their way are a constant source of distrust and dislike by them of us.
Defcient Public Spirit.-Another cause is one which fire years aco was so well, so eloquently, and so wisely pointed out by Sir Walter Foster in the chair from Which I now speak. In that splendid address he gave on the " l'olitical Powerlessness of the Hedical Profession" he pointed out, better than I can ever do, liow the want of public spirit outside of our own immediate professional arocations has largely influenced the public estimation of us, and he counselled in more eloquent words than I possess,
and he has, in his own person, more illustriously set the better and he has, in his own person, more illustriously set the better example, and has ahown how devotion to public duty does secure public esteem.
"Provident" Dispensaries and Out-patients.-The multiplicstion in our midst of certain provident dispensaries and amalgamated clubs, and of private penny dispensaries of all kinds, together with the abuse of the out-patient departments of hospitals which is permitted wherever a haspital is found, have tended, and are tending, largely to reduce the legitimate rewards of our labours. It cannot be right that such rast masses of the population, who, many of them, are raised by their rages, or salaries, or earnings greatly above the level of necessity, or even of penury, ahould by combination be enabled to obtain skilled medical attendance and medicine at an average rate per person of 3 s . or 4 s . per annum. The principle of co-operation and association, whether applied to medicine or to any other profession which secures to the public the supply of a daily need, is obriously a good one, and is one which the medicnl profession at large should countenance and further, lut certainly under conditions. The application of the principle of unlimited competition in such matters as these cannot but lead to the degrarlation of the profession and to disaster to the public.
Suggestions.-First, is it not possible to largely improve the preliminary education of the young members of our profession? Are we not making them to rome extent one-sided by the almoss exclusive devotion which is given to the scientific side of their education, to the exclusion of the more general and literary? I am one of those who still believe that a good classical education is a priceless possession, and that it in no way interferes with the subsequent development of the power of scientific observation, which necessarily lies at the root of all success in the difficult art of medicine. With
regard to professional education, so for as it goes it is a vast improvement on anything which has ever get been done, but I hope that it may be still further improved, and this can only be done by materially lengthening the ordinary curriculum. Several of the countries of Europe, inhabited by people who are supposed to be not so progressive or intelligent as those who inhabit this island, have determined by law that five years is the shortest possible time in which to manufacture an intelligent and safe medical practitioner. If the standard of professional education is to be maintained at ite present level, or is to be by imperceptible degrees raised still higher than it is at the present time, it is quite certain that the ordinary human being who has the misfortune to become a medical atudent will in most cases be made by repeated rejections to increase his term of preparation to five years ; and should this be the case, as it seems likely to be, I hope that before long that five years will be the rule and not the exception. I think too, that there is opportunity for improving the clinical education of medical students, for when one bees the vast mass of clinical material which is running to waste in our county hospitals, and in our union workhouses, one is tempted to exclaim against the criminal extravagance which permits it. If we are to recorer public esteem to the extent we undoubtedly deserve, we must cast away from us professional quackery, and professional dishonesty; Let us also cultivate more friendly intercourse, more esprit de corps, and more general cohesion among ourselves. Let our professional etiquette be simplified, and let its mnin principles be always the consideration of our duty towards our neighboir, and, above all things, let us avoid public quarrelling and public differences. I do hold most strongly with Sir Walter Foster, who days that though the excuse given to explain our absence from the duties of public life is our absorbing interest in a most laborious profession, yet it is, though a good one, more or less a species of elfishness; that in many instances it arises from a want of independence of character; and that until medical men will take their slare, and their fair ahare, in that which is becoming day by day more and more the duty of all good citizens, they must expect those of the citizens who do submit to the heat and burden of the work, to estimate lowly, and even to despise those who shirk it. Our colleges may largely help to enhance the public estimation of the profession at large, and they will do so when they admit the principle that they owe a duty to every member of their body which they can never fulfil so long as they remain the close conservative bodies they now are. A large infusion of the democratic spirit into our medical corporations, and free admission of all members and licentiates to the governing body, will alone enable these corporations to take up and to use those duties of discipline and censorship in the exercise of which, up to the present, they have been so lamentably deficient.

Conclusion. -The profession of medicine may not he appreciated as it should be politically, socially, or commercially ; it may not be recognised by the State in the shape of State rewards, and this may be some reason why it is not appreciated as it should be by the public. It has been pointed out orer and over again that there is no item in the expenditure of a household more grudgingly bestowed, and more liable to be questioned and more tardily bettled, than the doctor's bill. One of our greatest statesmen has that in one generation has a great future before it, and I believe the other learned professions." Lord Bacou said of the pursuit of knowledge that "it is not a couch whereon to rest a searching and a restless spirit," or "a terrace for a wandering and a fiery mind to walls up and down with a fair prospect," or "a tower of State for a proud mind to raise itself up," or "a fort and commanding pround for strife and contention," or "a shop for profit or aale," but it is a rich storehouse for the glory of the Creator and for the relief of mans estate. Thomas Carlyle has aaid: "I have often said, what profession is there equal in true nobleness to medicine? He that can abolish pain and relieve his fellow mortal from sickness, ho is indisputably the usefullest of men. IIim arage and civilised will honour; he is in the right, be in the wrong who may. As a Lord Chancellor, under one's horsehair wig there must be misgivings; atill more, as a Lord l'rimate, under one's cauliflower; but, if I could heal disease, I would say to all men and to we regard the rapid and marked progress which said: "When science has made during little more than half a centurt and that we are fully justified in believing that progress in the future will be eren more remarkable, and that, with materials for inves-
tigation in abundance, with willing aud alle workers, there can be neither fear nor doubt for the continued adrance of the healing art."

## CLINICAL MEMORANDA.

## TILE TREATMENT OF CHRONIC DISEITERY AND ITS ALLJES.

It has appeared to me, from observation of a good many cases of the above diseases, that a considerable mmber of patients, presenting a close uniformity of symptoms, gain marked benefit from a treatment differing in some respects from that usually adopted. Tho class of cases 1 refer to generally admit long-standing constipation, followed, on arrival, or after living some jears in India, ly what they call "diarrhea and dysentery." They complain of frequent passage of small bloody stools, inability to hold their motions, with more or less abdominal discomfort and dyspeptic symptoms. On careful examination it is found that there is no proper diarrhea; the motions are lumpy, of en consisting of half-digested materials, with a large quantity of blood-stained mucus, and though frequent, but little true frecal matter passes. In these cases a prolonged course of saline aperients has a remarkable effect, the disease being to a large extent mechanical, the re sult of hardened freces passing over an irritable mucous membrane. As a rule these patients have never lad an acute attack of dysentery, and the above simple treatment, combined with an easily-digested, nutritious diet, often suflices to cure them. In cases where the chronic is a sequel to a more or less recent acute attack, the disease is more obstinate and the treatment requires to be persevered in long after apparent recorery. I make no claim to originality either for the obserration or treatment of this condition; I merely wish to record that as regards treatment I hare found great adrantage in drawing a sharp line between "constipatory" and "diarrhceic" dysentery
F. P. Nrchols, B.A., M.B.Cantab., Surgeon, Medical Staff.

## Hounslow.

## MIMETIC PARALYSIS: SPFEDI RECOTERY.

C.C., aged 19, was brought in from the conntry to my out-patient room by her mother, on April 1lth. To the casual observer slie was indeed a pitiable olject, as she hobbled across the room with a right crutch. I noticed the following appearances: loung, fresh-coloured, and good-looking; ptosis (?) of the left eyelid; left forearm swathed and bandaged; left hand with claw-like contraction; the long overgrown nails embedded in the fleshy palm ; contracture of the left leg upon the thigh. The mother informed me that the girl had been sent to service in Leicester eight months ago; that after being in her place a fortnight she had had a "fit," for which she was treated by a local doctor, and sent home invalided; that she became a hopeless paralytic, and had ever since been in receipt of charitable and medical aid.

The diagnosis was easy; the ptosis was spurions, there being marked effort to keep the eyelicls closed. She was told to put out her tongue, and protruded tlat organ, clear and healthylooking, in the middlo line, there being no alteration in the facial muscles of expression. Ali this did not correspond with the late paralysis (contractures) of the left extremities.
The treatment was summary. Telling the patient to listen attentively to what I was going to say, I told the mother that her daughter was a "fraud," and in the past eight months had been practising an accomplished deception on all about her, rad that I would soon effeet a speedy cure.
I noticed the girl's face flushi deeply and then pale as I said this, proving that her mental faculties were by no means in abeyance, and placing my left hand on her left thigh, and seizing the foot with my right, I soon extended the limb, the patient squealing a good deal, and at once returning it to its former position.

I sent her up to the operating theatre, and, seeing her there later on, I appealed to her good sense. I opened her left evelids, and they remained opened. My assistant extended the fingers, and they so remainet, the stench from the decomposing sweat. beiag intolerable; bnt she would not resign her leg, so I had one pole of a strong faradic current placed on the triceps extensar. and the other on the front aspect of the tibia. She again sereamed lustily, and I told her the entertainment would last until her foot (ulso swathed in baudages) was placed on the ground. It soon
reached the required position with a thump, and I left her. I was told that her mother appropriated the crutch, and that, with the loan of a slioe, she walked out of the infirmary. On April 18th she walked into my room the picture of liealth, and I hare not seen her since. I learned afterwards that she had twice been an inmate of one County Lunatic Asylum, each time being disclarged at the month's end. Lunacy failing, she tried paralysis. It will be interesting to note what her next " move" will be.

The rector of the parish wrote to me on the 18th: "She walked down here (a mile) to-day, apparently quite well; what is to be done with such a case? Is the shamming really a disease?" I replied "that it is hard to say where badness ends and madness begins; and he had propounded a social problem rery difficult of solntion; but that in my opinion. in the present case, the malady should be spelt with a " $b$," and not with an " $m$," and that laziness was at the bottom of it."
J. IIeadley Neale, M.B., M.R.C.P.Lond.,

Ifonorary Assistant-Physieian to the Leicester Infirmary.

## OPHTHALMOLOGICAL MEMORANDA.

FRACTLRE OF TIE CORNEA FROM THE KICK-BACE OF A FRAGIENT OF A WHIP-T」IONG.
Iv the summer of $188 \%$, the first whip (J. I'ress) of the North Warwickshire hounds, while walking the pack on the public road, struck at one of the hounds with his whip, and almost immediately felt his right eye to be injured, as he conjectured from a piece of glass being flicked up by the whip. When he presented himself to me there was a linear longitudinal fracture of the nasal side of the cornea, through which the aqueous had escaped. No foreign body presented. Ile made a good recovery, and regained his sight. That the injury was produced by the kick-back of a detached fragment of whipcord, Mr. Dunn's case conclusively proves (Jorrnal, April 14th). In both cases the patient imagined his eye had been cut by a bit of glass or stone.
In commenting on Mr. I'ercy Dunn's case, Dr. Sanctuary (Jocrial, May jth, p. 994) Eays: "The knot fiew off on account of the lash being sharply cursed, in order to produce ithe "crack' of the whip," and adduces in illustration certain accidents which sometimes ocem in fly-fishing, also giving a very interesting example.

Birmingham.

## FORENSIC IIEMORANDA.

## SUICIDAL WOUND OF TIIE HEART

1I. C., aged $3:$ was found lying dead in the corner of a small room. The right hand was tightly clenched, and a small knife was on the floor just in front ot him. His wife was found also in the room with a large wround on her head. The greater part of the frontal hone had heen completely taken off with a bill-hook. and also a great part of the front of the brain. Two of her fingers had been cut off with the knife, and there was also a small stab in the left breast. l'ortions of brain suhstance were scattered on the floor and walls. The crime was committed, aceording to the woman's statement, at 6 ocloek on May 2tth. The room was broken into, nnd the woman brought alive to the General Hospital, Bristol, at 7.30 on May 27 th.

On making the post-mortem examination of the man, 1 found a large quantity of dried blood on his feet (on the soles), as though he lad heen walking about in blood. On the front of the chest, about one inch to the inner side, and three-quarters of an inch above the left nipple, were five small wounds, transverse in direction. and each aheut three-quarters of an inch long by a quarter of an inch wide. Just to the inner sille of the nipple was another wound, about half-an-inch in length. About one inch below the nipple was a small wound, also about half-an-inch in length. On passing a probe into these, the first six mentioned wounds were found to pass deeply, the probe taking a direction downwards and slightly inwards. The last wound was little more than skin-deep. Apparently there had been very little hemorrhage from these wounds.
On dissecting lanck the shin and muscles from the front of the tharax an extravasation of hood was found around the course of the uppermost wounds. which all corresponded exterually to the third intercostal space, and perforated the thorax through the
fourth interspace. The fifth wound correspended externally to the fourth interspace, and entered the thorax through the lower part of the fifth.
On romoving the sternum the left plemral cavity was filled with hlood, anil the perieardium contained about three ounces of clotted blood. On the left side of tho pericardium was a transverse wound a little over an inch in length. On the wall of the heart, corresponding to the weund in the perienrlium, were two transrerse wounds about three-quarters of an iveh long, and separated by a uarrow bridge of muscle about one-eighth of an inch wide; both of these perforated the left ventricle. A little above these were two small irregular wounds, not more than one-third of an inch long, and near the apex was another ahont the same size. Theso only perforated the superticial hayers of musele, thl the cavities of the leart were quite cmpty, aliso the large blood-vessels. The sixth wound had penetrated the thorax, but had failed to wound any of the riscera. There was no wound of the lungs to be found. Al the organs were healthy. The stomaeh was quite empty:
Remarks.-This case appears very interesting on account of the number of times that the knife had touched the heart. I presume the man must have stabbed himself in the six plaees very rapidly, giving one blow after the other, or possibly he may have only partly withdrawn the knife, and then plunged it in again, as there was only one wound of the perieardium. ${ }^{1}$
W. H. C. Лewnila, M.B.Cantal.,

1Iouse-Surgeon to the Lristol General Hospital.

## REPORTS <br> OP

## hosprtal and surgical practice in the HOSPITALS AND ASYLUMS OF GREAT BRITANN, IRELAND, AND THE COLONIES.

## GUY'S HOSPITAL.

gethelions of the moth: renoval of the tonsil, parts of the soft phlate, piarynx, anio tovate: preliminary lartatiotomy: sconsequent rectribence, with resection of half the lower jaw.
(Under the eare of Mr. Charters Smonis.)
J. 1'., aged 45 , was sent in ly Dr. Hooper on October 29th, 1886, with an ppithelioma of the mueons membrane behind the last molar. Thire was extensive iethyosis of the tongue and mucous membrane of the mouth of syphilitic origin.
 last molar, extending downwards in the groove letween the tongue and the jaw, and backwarls involving the anterior part of the tonsil; forwards the mucous membrane of the cheek was slightly involved. He could protrude the tongue half an inel beyond the teeth. Under remedies he improvell a little; the mouth became a little wider open, there being three-puarters of an ineh between the teeth. The man had much pain in swallowing, and suffered the most intense mental distress. There was one gland below the jaw.
Under ehloroform an incision was made from the angle of the mouth through the eheek to the masseter, and the extent of the growth was definerl. Ascertaining that it conld be removed, laryngotony was performed, and a sponge to whieh a stont priece of silk was at tached pushed into the pharyn. The mueous membrane oy er the jaw was then detached, and lyy means of seissors the anlerior faucial pillar, a portion of the soft palate and of the side of the tongue, and the tonsil with a piece of the pharymx and part of the mucous membrane of the cheek, were removel. The separation was effectenl largely by a raspatory. Tho bone was left exposed for a gond inch in its alveolur niargin: the teeth having leen extracted some years before left the region in front of the last molar free. Then through a subuaxillary incision the glaml was removel and an opening made ints the month. The blealing wasa arrestod by pressure, no vessel in the phate or pharyus requiring ligature. The wound in the cheek was brought together and a drainage-tule put in the mouth through the opening

[^82]below the jaw. The tube was retained in tho trachea for two days
The man soon recovered from the shock of the operation, which had lasted nearly two hours. He was fed by a nasal tule for four days. The tracheotomy tube was removed in forty-eight hours and the wound filled with iodoform. It healed in fort $y$-cight hours. Stealy reeovery followed; he lost all his pain in swallowing, and was rery much relieved.
The facility secured by the laryugotomy was most marked. The operation was never arrested for a moment; no blood passed into the air-passages, and the amesthetie was ensily administered. The man was placed in a tont with a steam-kettle for two days. Again, it was duite possible to remove the entire tonsil and part of the soft palate through the opening nade without resorting to the incision behind the lower jaw. The leeding was controlled in the same way and with as much ease as in the operation for removal of the tongue by scissors.
The man returned on February 12th, 1887, unable to open his mouth, and was readnitted on the $1+t$ lh. A small nodule could be felt in the centre of the old cicatrix, nad the little finger could just detect a hard edge inside the cheek; no glands in the neck. As it was impossible to ascertain the true state of affairs, he was, on February 10th, plaeed under chloroform, and the mouth opened by Gowan's gag. It was then found that the inability to open the mouth was due to the cicatrix stretching from the palate to the lower jaw and not to a growth. A nodule of growth, however, was found attached to the imer surliaee of the bone, and ran further along the floor of the mouth as far ns the canine tootb. An elliptieal incision was made downwards and backwards, so as to include the nodule and the cicatrix, and earried by careful disseetion to the mucous membrane; the first molar and seeond bicuspid teeth were extracted, the sceond and third molars having been long absent. The mueous membrane was then divided and the nodule removed. A portion of the masseter was eut away; and then, finding that, in orler to give a movable jaw, it would be well to resect a portion of the bone, this was done so ns to inelude the nodule of growth. The piece was wedgeshaped, with its base downwards, as recommended by Esmarell.
This exposed the side of the tongue freely, and now the epithelial growth was found running along the inner surfaee of the bone and the side of the tongue. A further inch of bone was removed, and with it the mucous membrane over the floor of the mouth and the side of the tongue. By kecping the tongue forward the blood ran out of the wound, which now extended well into the submaxillary region. The lingual was tied, and all bleeding arrested. The edges were united with two button sutures, and a drainage-tube passed into the mouth. He was fed by enemata for two days, and then, as he was able to swallow, took milk by the mouth; on the third day the button sutures were remored, and the drainagetule on the secoud day. The odour from the mouth was unpleasant for four days. Saliva and mucus eseaped throught the tube, and reliered the pain consequent on swallowing.

February 19th. By the 2 zth the wounds were all henled, and he was discharged on llarel lst, able to open his mouth to a fair extent.

On Xfay 14th the man returnel, with recurrence in the floor of the month, but without any glandular enlargement. I was unwilling to operate further; but, in the absenee of glandular implication, yielded to his earnest pleadings, and mado a further attempt to extirpate the disease on May 15th. It was necessary to remove the half of the lower jaw.
An incision was made along the bone and up the median lino through the lip. The submaxillary tissues were next separated to the median line. The tongue was next drawn forward by two silk ligatures and split after Baker's method. Next the symhhysis was sawn through, and all the structures, from the median line of tongue down to the hyoid lone, together with that part of the boaly of the bone in front of the former site of resection, removed. This formed a large mass, and the line of separation was every where free from growth. The epiglattis was exposed, and the mueous membrane connceting it with the tongue, together with the pharyngenl uneous membrane, was held up by fore ps, and prevented the blood entering the larynx.
On pxamining the hard palate behind the last molar, a pateh of growth was discoverel, and from this a sinus leading to the ramus, which was rough and lare. This was found just as the operation was thonglit to have been completed, and, had I noticed it earlier, 1 certainly would have deeided against operation altogether, But his inability to open his mouth prevented its being
tetected. 1 was obliged to extend the incision upwards and turn out the entire ramus. In doing this the internal maxillary artery was wounded and gave a great deal of trouble.
1 felt that the removal had heen complete so far as the floor of the nouth was coucerned; it wis not satisfactory by any means as regarded the growth extending along the coronoid process. The round was closed, the mucous raembrane of the glosso-epiglottic fold and the pharyux heing stitched to the cheek. A large tube was passed into the mouth, and the suture left in the right side of the tongue. Iodolorm was freely used.
The patient was fed by a tube passed through the mouth. IIe was able in a few days to swallow fluids freely. At the end of the week he was walking in the park, all the wounds being healed except where the drainage-tube was placed. On the fifteenth day, though looking feelle, he at his own desire, returned to Portsmouth.
The rapid recovery after such a severe operation-which lasted two hours, and during which a good deal of blood was lost-was due to the indomitable spirit of the man and his anxiety to get home. Unfortunately the growth again returned, and writing on July 18th, he says that it has recurred in the floor of the mouth and neck, and that he suffers great pain, more especially in frout of the ear. He died in October, 1887 , one year from the first operation.
I hoped by this last operation to eradicate the disease from the floor of the mouth at least. The operation cut wide of the disease in this direction, and went down to the hyoid bone, but even here it recurred.

I was only induced to antempt remoral on the first occasion at the earnest aolicitation of the patient, who begged that something might be done to prolong his life even a little time, so as to continue his Gorernment pay for the benefit of his family. When recurrence took place the first time, it was impossible, owring to the cicatricial closure of the mouth, to determine its extent ; the absence of glandular implication, however, induced me to undertake a further operation : the same reason justified the third operation, though 1 never would have proposed this last undertaking. When begged to do it, I felt that in the absence of gland implication I ought to yield to the man's entreaties.
The case illustrates the possibility of remoring the tonsil and adjacent parts by dividing the cheek only, and the value of preliminary laryngotomy. The difficulty of expressing an opinion as to the distribution of the disease when the mouth is closed is also noticeable. Extensive glandular enlargement only occurred during the last stage of the disease.

## REPORTS OF SOCIETIES,

ROYAL MEDTCAL AYD CHIRURGICAL SOCIETY.<br>Tefsdax, Jene 12tit, 188

Sir. E. II. Stevekivg, M.D., President, in the Chair.
Pemphigoid Sruption with Changes in Peripheral Terves.Drs. A. Sangistrar and F. W. Mott read this paper. N. M. R., aged 78, was admitted to Charing, Cross llospital Norember 5 th, 1886 , in a very prostrate condition, a large extent of the surface of the trunk and limbs being covered with a bullous pempligoid cruption of fairly symmetrical distribution. She was evidently suffering from renal discase, as the urine was scanty, and contained one sixth of allumen. The temperature was $102^{\circ}$. She died after nineteen days in hospital, having been unconscions the last three days, with uramic symptoms. Necropsy within twelve hours of death exhibitel gramular contracted kidneys, tho orgns weighiug $2 \frac{1}{2}$ and 3 ounces. I'ortions of the external cutaneous nerye were examined, also spinal ganglia and posterior roots. Sections after hardening exhibited a parcnelhymatous degeneration of the nerve fibres. This case corresponded very closely, both in elinical symptoms and pathological conditions, with a caso reported by Leloir.-Dr. W. B. Cheadie hegged to thank the authors for their paper, which he thonglt had helped to throw light on an ohscure subject. Fatal cases of pemphigus were not common; he had himself seen but one, and he inquired if in the case which had heen lescribed that evening there was any lesion of the intestine found, for he had found uncontrollable diarrhea to be associated with all the fatal cases he had heard of and death had been oceasioned immediately by lesions of the mucous membrane of the intestine, similar in character to those
of the skin. His own case was in a man aged 52, in whom the eruption, which had been growing ateadily worse, was for-a short time arrested by arsenic: extremely severe diarthcea then set in. which could not be restrained by opium, and ended in death in a week. The kidneys trere found to te in an early state of granular degeneration. There was rery extensire ulceration of the large intestine from the crecum to the sigmoid flexure, in 60 me large and some small patches.-Dr. SA.NGSTER said be had hesitated to use so definite a term as pemphigus in a case in which they had an unusual bullous eruption, which the very distressing condition of the patient made it impossible to examine very minutely. It seemed to him to resemble the pemphigus diutinus malignus. The point to which they had wished to direct attention was the condition of the peripheral nerves. There was an association of nerrous lesion with bullons eruptions in leprosy and paralybiz. As to the condition of the intestines in the preeent cass he had no further eridence than that no abnormality was noticed in the eruptions as urticaria hoyemorringica, he had seen generalised ulceration of the bowel, and a group of such cases had been published by Dr. Goollhart.-Dr. Jiort said he had only heen able to find four cases at all accurately corresponding to the present one, which he thought might be clescribed as pemphigus neuriticus. Leloir's case was almost identical. The specimens on the tablo had been prepared by a nicrotome from tissues embedded in parafin, and the resnits shown could not he attributed to postmortem change.
A Case of Tumour of the Spinal Cord: Remoral: Recovery-(Medical history of the case by Dr. (iowers.)- The patient was a man, aged $4^{2}$, who had suffered for three years from localised pain beneath the lower part of the left scapula. The pain raried much; at times it was acarcely felt, at other times it was most intense, and then was increased hy morement to such a degree as to render it impossible for the patient to walk. Many medical men were consulted. and the diagnosis varied between aneurysm and neuralgia. Hypochondriacal insanity was eren suggested, on account of the irritability of the patient, whose mind almost gave way under the continued suffering. Four months before the operation, first the left and then the right leg became weak, and the loss of power gradunlly increased to complete paraplegia. The patient was first seen by Dr. Gowers (with Dr. Percy Kidd) on June
4th, 1887 . There was then motor and sensory paralysis up to the level of the sixtlo or seventh dorsal nerves, with intense spasm in the legs, foot clonus, and rectus clonus. The urine was retained, and there was some cystitis. At the level of the sixth dorsal nerves there was severc prain aronnd the trunk, greater on the left side, and increased to agony by any morement. The symptoms pointed clearly to compression of the cord by a morbid process
outside it. Caries of the spine could be practically exeluded aneurysm was improbable, although not innpossible. The diagnosis; lay chiefly between a tumour of the spinal bones and a tumour of the membrane. The indications (descriled in the paper) made a meningeal tumour rather the more probable. Syphilitic disease could be excluded. An operation afforled the only chance of escape from certain death after intense suffering. Sir William Jcuner sant the patient. and concurrel in the diagnosis. and sanc-
tioned an operatica. The patient was aware of the nucertanct of the result, but was extremely anxious that something sinty be, done.-(Surgical history of the anxious that something shonld diacnosis of intradural tumour pressing on the cord appearing the well fomded, an operation was performed for its remoral on to be 9th. After some difficulty, the growth mas discovered, and remored under strict antiseptic precautions. The wound healed by the
first intention, and at the same time patient gradually lost the agonising pain, power, as well as the control orer the hladder and rectum. Ile remains in perfect health. Appended to the surgical history of: the case was a table and analysis, in which the chief clinical facts relating to ifty-seven other cases were recorded; and from which it appears that operation is the only treatment to be adopted in such cases, and that, if it had been resorted to. co per cent. should
have recovered case so uniqued, whereas all died.-Mr. Hawand ohserred that a of them, and it was specially difficult therefore to discuss. One point had struck him foreibly, nad that was the great mental change, the change as some had thought to insanity, that had been proluced by long and serere pain. From another point of view it taught them that their ideas of the possibilities of interference with spinal cases must be entirely remodelled.-Dr. A. T.

Misens inquired the mature of the tumour, of which they had heard nothing.-The howorary Srcmetary stated that in the part of the paper which time had not allowed him to rend it was fully described as a myxoma.-Dr. Percy Kidd remarked that the mental affection had been n very serious feature of the case, for, thongh he agrced with thie author of the paper that it had onty been a disturbance arising from acute and prolonged pain, yet several advisers had at the time considered it as genuine madness. The patient, he was glad to say, was in perfect health now, able to enjoy a dance to walk nt lenst three miles with a nntural gait, and he begged to be allowed to express throngh him publicly his most heartfelt gratitule to Dr. Gowers and Mr. Morsley-Mr. Godlexe thought that as specially interesting point had been the very large a mount of cerebro-spinal fluid which had been discharged. He was anxious to know if Mr. Horsley had considered it dangerous. In a case under his own care he had removed a Inrge sacral tumour, and found in its centre a small spina bifida, which he had cut and ligatured. The discharge of cerebro-spinal fluid, though througli a rery fine bolo, had heen exhausting, and ultimately fatal to the child.-Mr. IIprnert Pagr asked to say a word as having been the author of the statement in a surgical dictionary that trephining of the spinal cord could be of no adrantage. He had limited that statement to the cases of fractures and dislocations. He desired not to be the last to congratulate Mr. Horsley on his brilliant success, and agreed with Mr. Haward that they would now have to reconsider much of the surgical treatment of the spinal column.-Dr. Gowers was called on to reply, but remarked that he had not noticed any questions or objections which it would fall to his lot to answer.-Mr. Victor IIonslar at once admitted to Mr. Page that when he quoted his words he wns only discussing questions of trentment of fractures of the spinal rertebre, as would have been plain if he had succeeded in further compressing his paper so that it could all have been read to the Society that evening. In answer to Mr. Godlee he said that cases of escape of cerebro-spinal fluid generally did badly; because, he thought, of the septicity of the fluid. Ile had long been struck with the fact thant the skin was not irritated when boracic acill an inch deep was heaped upon it, and it was by this means that he thought he had been able to keep the wound nseptic. The exact amount of the discharge of cerebrospinal fluid he had not been able to determine, but lie found it enougb to completely soak a pad of wool two inches thick in twenty-four hours. Ile had noticed almost the same result with cerebro-spinal fluid in a head case. The large discharge in the present case he considered due to his having not been bold enough to take out the drainage-tubes after the first twenty-four hours, and so allowing a sinus to form.

## OBSTETRICAL SOCIETY OF LONDON. Wednesday, June 6th, 1888.

 Johs Williams, M.D., President, in the ChairSpecimens.-Dr. Ifermas: Uterus Inverted by a Gangrenous Fibroid.-Dr. W. Duxcas: Mnle Infnnt Secreting Milk frem Right Breast.-Dr. Acst Lawrpace: Vesical Catculi Removed from a Woman who for eighteen years suffered from complete lrolapse of the Eterns.-Dr. 13nuxtos Hicks: Form of llodge's l'essary made on Watcl-spring I'essary l'rinciple.

Inverted Uterus liemored by Operation.-A repart was read on Dr. Horrocks's specimen of inverted uterus, cxhilited at the May meeting.

Notc on the Use of Electrolysis in Gynacological Iractice.-This memoir was rend by Dr. W. E. Steaversson. The author in this paper drew nittention to the numernus cauterising agents used in gynecological practice, with the object of raising a discussion on their relative merits and values. Reference was also made to the use of the actual cnutery, l'aquelin's cautery, and the galvanocautery; but the paper was chiefly devotell to ndrocating a more extensive use of electrolysis, It was pointed out that this property of electricity was especially useful in the treatment of affections in parts difficult of access, and perhaps found its widest field for usefulness in the trentment of those disenses of women in which local applicationswere necessary. It was a moreeflicient and elegnantway of applying caustic than any other that we possessed; it could he most accurately localised nt the part it was wished to nffect; the amount used and the extent of tissue to be destreyed could lie regulated to a nicety, and its action could be commenced and arrested at
any moment at the will of the operator. A brief account was given of the action and theory of electrolysis, and of the batteries and instruments to be employed. Its action and the method of employing it in the following affections were then given, namely, stricture of the female urethra; stenosis of the os uteri or cervical canal : dysmenerrhes and sterility, in the place of the tents, dilntors, or incisions that were often employed; abrasions of the cervix uteri: extra-nterinc foetation; filroid tumeurs of the uterus; and cancer. The author then again invited discussion on the relative merits of other caustics and modes of treatment employed in the affections mentioned, as compared with their treatment by electrolvsis.

Cases of Chronic Cerrical Catarrh Treated by Electrolysis.These cases, read by Dr. Loveli Inage, formed an addendum to Dr. Steavenson's paper. In all, the healing of the abraded area was promoted. In one instance, where the chronic condition of the cervix was complicated by a llunterian chancre on that part of the uterus, the beneficial effect of the treatment wes wellmarked. No untoward effects were produced by the electrolysis; menstruation was not interfered with, nor was pain caused, either at the time when the current was passing or subsequently, All the cases were of long standing, and other treatment had failed to give relief. Dr. L. Drage, therefore, contended that a claim could fairly be made for the recognition of electrolysis as a useful treatment in such cases.
Electrolysis in some Chronic Uterine Affections, with Illustrative Cases. By Dr. R. A. Grbsoss.-The author related cases, which had been under lis care as in-patients at the hospital, of chronic metritis, endocervicitis, lupus minimus, caruncle of the urethra, and cancer of the utcrus. The latter were accompanied by profuse hæmorrhage, and were mentioned in order to call attention to the efficacy of the positive pole in arresting bleeding. After explaining the action of each pole on the tissues, the author dwelt upon the advantages derived from the use of the negative pole as a caustic in clronic inflammatory conditions of the body and neck of the uterus. The glairy discharge, so common in this class of affections, became electrolysed, and thus the lining mambrane could be acted upon directly and theroughly. The accuracy with Which the application of electrolysis could be made was greater than that of any caustic. During manipulation the operator had no difficulty in keeping the electrolytic power under his perfect control. After giving technical details Dr. Gibbons dwelt on the necessity of a reliable galranometer. This method of employing electrolysis had never been described in any English work.

The Constant Current in the Therapeutics of Gynacology.-This communication was read by Dr. J. SHsw, Obstetric Physician to the North-West London Ilospital. The paper described the appenrnces presented by a myofibroma when subjected, about. twelve hours after its removal, to the prolonged action of a constant current, and treated of the chemical and microscopical results obserred in a subsequent experiment; also of certain attendant electrical phenomena. The different action on granulntions of the positive and negative poles respectively was described, and the cffects of the constant current in intra-uterine applications and punctures, on the circulation, temperature, sensibility to pain. and urinary excretion, were in turn detailed. The nuthor, from these observations, concluded that the constant current acted on a fibroid in a threefold manner: (1) to but a small degree by electrolytic action, the positive pole most affecting the cellular, and the negative the formed, elements; (2) by the hxmostatic action of the positive pele and the derivative influence of the negative: (3) by increased arterial tension and so diminished nutrition accompanied by some alteration of the mutunl relation of the fluid and solid elements.-In the discussion which followed the reading of the above papers, Dr. IIonrocks noted the important admission of Dr. Stearenson that electricity possessed no specific virtues, but ncted as a stimulant, caustic, or cautery. A powerful battery was expensive, ponderous, and hard to work and to keep in order, hence in general practice it would hardly bepreferred to ncids, alkalies, the knife, or the thermo-cautery. In hospital practice he had found the battery to be of certain value, but he agreed to Dr. Steavenson's admission. Even in the treatment of paralysis, careful friction of the affected muscles proved as beneficinl as electricity. Stntements a bout the number of cells which were used in a given case wereunreliable, for newly charger? cells were stronger than the same cells charged for some time ornot in perfect working nrder. A means of mensurement was absolutely necessary; for this purpose a galvanometer answereaz best, but that aypliance introduced another complication and
expense.-Dr. Aust lawrence said that allowance must be made for rest in bed, purgation, and the other altered conditions to which a patient under treatment by electrolysis was subjected. A highly-trained electrician was not indispeusable, as, with a little help and study, anybody could master the details aufficiently to be able to employ electroiysis, was necessary hand, a sound knowledge of gynæcology was necessary.-Dr. - Dre tricity could not be ascertained by a priori argument. He therefore considered that the most instructive parts of the communicationa read that evening were the cases reported by Drs. Lovell Drage and Gibbons. Dr. Matthews Duncan taught that, if a cervical erosion could not le cured within two months, treatment had better be discontinued. Yet Dr. Drage's cases had been under treatment for three or four months. In the case of Dr. Gibbons's patients the improvement might have been simply due to the complete rest and appropriate diet which patients enjoyed in s bospital. Women subject to the minor diseases of their sex could not rest at home, if poor; in hospitals they could rest and be cared for. To this fact was largely due the great benefit which followed treatment in hospital. The course of Dr. Gibbons's cases after leaving hospital had not been stated; in some, at least, all the symptoms might have returned within a fetr weeks. In one case a urethral caruncle had been destroyed by two applications of electricity. By the older methods one was usually sufficient. Dr. ITerman admired the candour with which the results of the cases had been reported, but he did not think that the prognosis of such cases would be much modified by the introduction of this method of trentment hy electricity:-Dr. William Duncan said that much more carefully recorded clinical evidence was needed. He had employed electrolysis in several cases of myoma, with rhacia. benefit in those where the chief symptom was metrordiminished in one instance, at least, the tumour was markedyy thing more than a mere cuuterising agent.-The discussion was adjourned till Thursday, June 21 st, at 8 P....

## ROYAL ACADEMY OF MEDICINE IN ILELAND. <br> SEction of I'athology.

## Friday, May 4 th, 1888.

C. B. Batr, M.D., I'resident, in the Chair.

Unreduced Dislocation Backwards of the Bones of the Forearm. -Dr. E. II. Bennett exhibited a specimen of unreduced dislocation backwards of the bones of the forearm, preserved in spirit, and with it six similar specimens, preserved after maceration. He said his object was to draw attention to the fact that, although the rarieties and conditions of elbow-joint dislocation lad been very fully described, yet still, as regarded the point with which he was about to den!, the descriptions of this commonest of dislacations were calculated to mislead. They tended to errors of diagnosis. Dr. Bennett then quoted the opinions on the subject expressed by Malgaigne, Erichsen, llamilton, South, and Tredof. Incomplete dislocations liad been allowed to go unreduced because they had not been recomnised. Such error arose in great measure from reliance on the test given by the anthorities quoted-the displacement of the olecranon above the line connecting the condyles of the humerus. This displacement was present in complete dislocations, but absent in the incomplete. To ignore the existence of the incompl ste dislocations, or to teach that they or more above the condyle," was to insure that they "half an inch mreduce unreduced. It was almitted that backward dislocations of the and of these the incomplete variety of displacement of the joint, at all events, the latter were the more common, perhaps becanse they were those most frequently left commoducel. Dr. Dren heanse
then attention haring been uirected to the subject by obtaining this recent specimen, he thought it well to reiterate the statement of Halgaigne that the incomplete form of dislocation, lrackwards at the ellow dill occur; that it was the unore common form of dislocation of lontl bones; and that it probally remained unrecognised hecause the test of the elevation of the olecranon. relied on in the descriptious of complete dislocation was applied to it. It was very ensy for an incomplete dislocation to be overlooked when a certain amount of sovelling concented the various features, including the pexistence of the thmour formed by the displamed hamerus in front, and the abnormal projection of the hend of in ratius bak
exhibited these peculiar characteristics of partial dislocstion; in fact, looking at the back of the elbow, one would say that there was no dislocation at all of the ulna. But the radial dislocation caught the eye, and in front tho humerus projected as an unmistakable tumour.-The President said there had been no more important communication recently in the Section than that with which they had been just faroured. He would ask whether Dr. Bennett had satisfied himself of ita existence in the case of any living subject.-Sir William Stnkes asked what were the eigns that would enable them to diagnosticate this injury during life.-Dr. Bennetr, in reply, said he desired first to refer to one point in which the complete dislocation, when unreduced, differed very markedly from the incomplete. In the latter form, when it was unreduced, the displaced bones assumed at their ends a quadrilateral shape, whereas in the complete dislocation there was nothing of the kind; the bones lay all free of each other, and there was no unusual modification of slape. The appearance of the olecranon beneath the level of the two condyles marked the incomplete dislocation. Again, the incomplete dislocation was a very fixed lesion; hardly any movement of the dislocated bones was possible. In complete dislocation, on the other hand, the bones could be moved laterally with great freedom; particularly as the coronoid process was broken away. The ligaments were untorn to a great extent in the incomplete dislocation, and the boncs were retained in a state of unstable equilibrium. There was a great difference in practice only as regarded the two lesions. As Malgaigne had pointed out, the incomplete dislocation was reduced with great ease-although it was so fixed, and could be reduced long after the occurrence of the injury, even so long as two years. On the other hand, the lapse of even a montb after a complete dislocation was sufficient to render it absolutely irreducible. This was a fact of immense importance in eetimating the force to be applied to an unreduced dislocation. The experience of all surgeons was that irreducibility occurred very early in the complete lesion, although it was very movable, while the incomplete dislocation could be reduced many months after the injury, although with difficulty. He could add nothing to the facts which were published concerning the injury in question by Malgaigne and De Musset so long ago as 1854 and 1855 .

Acute Lobar Pneumonia and Chronic Bright's Disease.-Dr. James Litrle communicated a case of autute lobar pueumonia and chronic Bright's disense in a boy, aged 4 years, seen first on Mlarel 31 st. According to his mother's account, he was in perfectly good health until two days previously, and on the day before his admissiou was playing alout the house. The only thing she noticed-and it was what led her to loring him to the hospital, was that he had become swollen all over the body; the swelling first appeared in his face. When admitted he presented the typical appenrances of a case of acute Bright's disease. Ilis temperature was rather high, exceeding $104^{\circ}$. Ite had a little cough, not much, and no special hurry of breathing, save that on one occasion, when put into a warm bath, his breathing rose to 76. He was recognised as a child that had been in the hospital diseosonths hefore under the care of Dr. Beatty for acute Bright disease. and the record showed that before he left the hospital at
that time his urine was entirely free fromalbumen. lle only that time his urine was entirely free from albumen. Ne only lived
thre dafter his admission. On the thorax being was fonnd that he had suffered from acute croupous ponaed it which was not discovered during life. When the sperimenona, tecent it was an exceedingly beautiful specimen of whas was Wilkes had described as a curious intlammation which was capable in a few days of converting the spongy texture of the lungs into a structure like cheese. Liven now the upper lohe of the right lung presented the typical appearances of true crompons pneumonia; but they found what did nut so frequently exist in such cases, namely, three islets of pneumonic process, one in the middle lohe and two in the lower lobe of the same lung. The lidneys were microscopically examined by Dr. Bewley, who found the conroluted tubules almost completely choked by swollell epitherimm and alhminous material. It was difficult even in the pression the post-mortem examination to read the case. The imin a patient who had previously heen the subject of rlirenio Bright's disease, because it had been his uxperience that when pneumonia nttacked a person who had previously been the subject of chronic liright's disease, it was rapidly fatal. The microscopic appearances found by Dr. Bewley hardly accorded with the existence of chronic lifight's disease. On the ather haud, it was rery diflionlt to understind why a child could becous so oxtromely
anasarcon+as this child was frem acute Bright's diseuse, and have kidnegs which, instemed of hoing bleedy and dripping. were much paler than kidneys usually were after death in cases of acute Bright's disease. While the boy was alives he cxamined his chest on two or three ncea-ions in seareh of yleural effusion ; but, theding no sign of it in the luwer part of the lung, le did not examine the upper portion. The bot's decuhtus was invarially on the back, with a slight turn townels the right side.

Cinreduced Dishocation of the JWhox.-Mr. J. Leataigne: sul)mitted a case of unrelueed dislocation of the e'bow, with fracture of the lower end of the lumerus. The two casts hefore them were taken from a patient who came under his care in the Mater Misericorlio Ilaspital seme time arra. 'lhe case was one of those dislocations which wern so pornmonly seen, but in which they could rarely prove whether the diagnosis was correct or not. The two casts represented the extremes of extension and flexion of which the limb was capable. The powers of pronation and supination were completely lost ; the patient could not bend his forearm to within lalf-a-foot of his mouth, and the functions of the limb were in every way oxceedingly impaired. The patient was a boy, aged 15. Ahont a year ago he was violently pushed agninst ly a horso, and the palim of his hand, held out in a eemiextended position, wns struck by the horse's flank. Ile went to a bone-setter, who twisted his urm back wards and forwards, causing him frightful pain, nud his arm then became utterly helpless. When the joint was exeised last November, Mr. Lentaigne found a dislocation of the ferearm backwards, with a fracture of the lower end of the humerus through the epiphysis. The lower epiphysis was broken into three portions. The line of the fracture could be seen clearly throngh the lower end of the bone. The elecranon fossa was reduced to a groove so narrow that his finger harely went into it.-Dr. Bennett said he did not quite admit the diagnosis of an urreduced dislocation, and be auw no necessity for assuming the existence of a fracture as the explanation of such a condition. The idea of an epiphysary lesion should be put asile. Tn the casts the tumours formed respectively by the olecranon and the head of the radins were normally distant.Mr. Tenstaige, in reply, said that though he had the greatest respect for l) r. Bemnett's opinion, he could not help holding to his own in this instance. The patient had now got a joint perfect in all respects.

Intestinal Oistruction.-The I'resident gave an account of three caany of intestimal obstruction, the viscera of which were on the table. The first care was that of a man, aged 27, who stated that he was quite well until leberuary 12th in the present year. On Slarch ith he came under his (Dr. Ball's) care in the hospital, and stated that since Felronary 17 th he hat had no fiecal motions, sare a little mucus, und that only after great straining. An examination of the recturu discovered a tumour pressing back the sacrum, which was as large as a fostal head. There was no fluctuation in any part of the swelling. All attempts to procure evacuation having failed, an exploration was made, and the interior of the juritoneum wha found to he studded with small tumours. whilo iu the iliac [ossa was a large soft tumour, to which the sinall intestines were adhurent. Colotomy gave temporary relief, but the raan died with symptoms of obstruction ligher up. On port-mortem examination an enormons mass of hrawn-like tumour was fomme filling up the greatur part of the abdoment. When freed from the intestimes and surrounding parts it weighed ten pounds, and yet it ladgrown in less than six weeks, A portion of it surrounded the rectum and pressed it so eompletely that nothing could pass throngh. The portinn of the sigmoill llexure, which wrs drawn out to make the artilicial amus, could be seen in tho specimen. Thu immerlinte canse of death was not obstruction of the large intuatine, hut a seenndary obstruetion of the small intestion, caused hy the pressure of the tumour against the parietes of the abdomen. That this pressure produced complete obstruction Was evilent from the nuperance of the intestine beth above and halow the seat of prescure. Dr. l'urser had examined the tumour aud pronouncerl it to be a anremma. -The second case was that of a woman, aged 36 , who was admiteel into the hespital on March $29 t h$. For a week previnusly she land been constipated, and vomitel every dry. A markel feature of the case was that there Was no pridence of di-temsion of the intertines by gas. That led to the dingnosis of an olsotruction high up, and on the same day laparotomy w'as performod. After suarching for obstruction at the usual hernial point, they wern guided ly a portion of inflamed intestine to the left hylochondrimm, and there found a large mass of intestine, aeveral feet in length, much congeated, roughened on
the surface, and tightly constricted by a ring formed in this way, The operation relicyed the symptoms; but the wound opened six days afterwards; a portion of the omentum prolapsed ; the case became septic, and she died. On post-mortem examination they were just able to tind out where thenobstruction existed. There was no general peritonitis about the seat of the obstruction. There was some inflammation of the omentum, and also in the pelvic cavity. Although the case was septic it was also afebrile, the woman's temperature never having risen above $99^{\circ}$ during the ten days that she lived.-The third case was that of a man, aged 69, who waa quite well until about three weeks before his admission to the hospital, when he began to suffer from loss of appetite, constipation, and distension of the abdomen. When he came in the distension was so excessive that no examination could be made. An examination by the rectum revealed nothing. A localised tympanitic distension of the abdemen was at first theught to be due to a dilated stomach, but that was negatived by the passing of a tuhe. On post-morlem examination the surface of the intestine was covered with little masses of secondary cancer, like bailed sage. In the liver were found several little depressed umbilicated patches, such as they were familiar with in eases of aecondary cancer. On searching for the focus of obstruction it was found to be in the tissues surrounding the cecum, where there was a large hard mass, the gut itself being considerably constricted. A section of the growth made by Dr. Weir showed it to be an ordinary cylinder-celled carcinoma, sueh as was cemmonly met with in the intestinal tract. A point which he was at a loss to underatand was, that they were unable to find any portion of the intestine in which the mucons membrane was implicated.-A discussion followed, in which Dr. Bennett, Mr. Lentaigne, Dr. T. E. Liftlef, and Dr. Finney took part.-The President replied.
Secondary Cancer of the Lung.-Dr. G. P. LE. Nrafnt communicated a case of secondary cancer of the lung in a metropolitan policeman, aged 26. On post-mortem examination both lungs were covered with innumerable nodular masses, varying in size from that of a walnut to that of a pin's head, more or less round in shape, projecting externally and into the lung, covered over with a perfectly smootl layer of pleura. The nodules were yel-lowish-white on section, and of rather soft consistence. The lungs internally were congested and cedematous. The mediastimal glands were much eularged, and the weight of the lungs, heart, and glands collectively was 177 ounces. The glands on the left side of the neck were enlarged and softened in the centre. The liver was eularget, 81 ounces, and pale in colour. The right kidncy was 6 ounces in weight and pale; the left was normal. The alidominal glands were greatly enlarged, particularly along the course of the aorta. The right testiele was hard and heavy, slightly nodular, but little increased in size.
Irulmonary Artery with Two I'alues.-Dr. A. W. Foot exhibited a specimen of a pulmonary artery with two valves of equal aize, and presenting no abnormal ajpearanco other than umsual size. The heart exhilited was taken from a man, aged 69 , who had long been snlijnet to aortic regurgitation. Alluding to the rarity of this defect in the pulmonary valves, Dr. Foot observed that the only other example he knew of in Dublin had been found by Dr. Graves in a man, aged 66, who died of pmenmonia and pericarditis. In five museums in London Dr. P'eacock had been able to obtain only nine specimens of two-valved pulmonary artery. sumerienl irregularities in the semilunar valves were much more often ohserved in the aorta than in the pulmonary artery-br. Bewhar said he once saw a similar form of aortice valve. It was taken from a man who had suffered from a nerveus affection of the heart. There were two large thaps, each a good dral larger than the aortic flap, and betwon these a very small third flap, measuring between a third and ufith of an inch across. They were all perfectly healthy: During life the antic sounds of the heart had heen perfectly healthy--1)r. loor, in reply, said the formation of two ordinary-si\%ed flaps, with a small ne betwern them, was a well-known one. In the museum there was a pulmonary artery with four rulves.

## Section uf Semetry. <br> Pridar, May Ilpit, l:s8.

A. II. Corley, M.1)., I'residhent, in the Chair.

Punctured Wound of the Peritonmen, with Protrusion of the Intestine: liecovery after Operation- Mr. F', Donneity related this case (which was published in the Jorrasar. of June 9tb, page 1219).-Dr. Fraser mentioned the case of a
boy, aged 7 , who, while jumping over pointed sticks, was spiked behind the upper part of the testicle, sustaining a severe wound. An abscess formed, and in a ferr days out came a piece of the boy's brcecles. He thoronghly believed in the benefit of opium in abdominal attacks, but small doses wero of little use.-Ir. A. W. Foor also expressed himself in favour of the opium treatment, and related a case in which a wild cow gored a man, ripping open his abdomen. The intestines protruded, and without help the man struggled home, treading on his own intestines. The intestines were spouged to remove chopped straw, bits of hay, leaves, and dirt, and then put back, and the wound was stitched up. The patient was kept under the influence of opium as much as possible, and made a good recovery.-Dr. MoLoney relerred to a case in lis own practice in which a man sustained eighteen or nineteen wounds of the body, abdomen, penis, legs, and arms in a fight with another man, who slashed him with a lutcher's knife. Although the man did not tread on his intestines, they protruded, and were corered with dirt. He washed the intestines carefully and put them back, the wounds requiring forty-six or fifty-six stitches. Haring treated him freely with opium, the patient recovered in four weeks withont inflammatory symptoms beyond slight tympanites.-The President considered that large doses of opium were best.-Mr. Ninilan Falikiner also spoke.-Mr. Donnelly, in reply, said the small doses of opium were given, having regard to the age of the chitd, while he was ready to increase the dose if required.

Enterectomy and Enteropathy.-Mr. M'Ardle read a paper on enterectomy and enteropathy.

## BIRMINGIIAM AND MIDLAND COUNTIES BRANCII. <br> Pathological and Clinical Section. Friday, April 27th, 1888. <br> A. S. L'vderitill, M.D., in the Chair.

Syphitis modifying Phthists.-Dr. Foxwell showed a case of phthisis in a man aged 21 . It was interesting for these reasons: 1. When 17 years old the patient suffered lrom an attack of inflammation of the lungs. Which confined him to bed for nine weeks, but from which he completely recovered. The physical signs now were almost confined to the base of the right lung. 2. Though he had had expectoration with lis cough for -3.7 years, and had been exposed to great hardship, yet the physical signs were decidedly those of early phthisis, and his general hodily condition was good. This Dr. Foxwell considered to be due in great meanure to his heing the subject of congenital syphilis as he belicyed syphilis strongly militated against rapid destruction of hung tissue. Bacilli were present in moderate numberè.
Secondary Sy-hilis in an Old Homan.-Mr. Morrisov showed a case of secombury syphilis in an' aged woman. The patient was a woman aged 68 , who first presented herself on Mareln 2nd, with a shallow suppurating sore, without induration, on the right labium majns. It was at first thought to be an ulcer caused ly chating. It quickly healed under the local application of iodof orm powder. On March 29th a copious general papulo-squamons cruption was noticed, unmistakably syphilitic in character. At the present time there were characteristic spots on the nape of the neck and also enlarged cervical glands and sore throat. During the clild-bearing period, she had borne eleven healthy children and had never had a miscarriage.

Subungual Erostosis. - Mr. Morriso also showel the last phalanx of a thumb he had remored on account of a sub-ungual exostosis in a man aged 3\%. It was exhitited as an illustration of the homology between the hullux aml the pollex: such growths being common on the great toe, but rare on the thumb.

Obstetrical Paralysis.-1)r. Sucklisg showed a case of obstetrieal paralysis in au infant. The childs birth had been difficult, and turning bad been performed. The left arm was noticed to the useless soon after tirth. There was paratysis of the deltoid, supraand infra-qpinatus, biceps, hrachiahis anticus, and supinator muscles; the limh being extenclell and forcibly pronated. The paralysed muscles were wasted and flaccid, and presented the reaction of degeneration. The infant conld move the fingers and hami. Dr. Suelling frequently net with the affection at the Children's Hospital, and lie formd that the paralysis was usunlly screre and nore or less permanent.
Dilated Stomach.-Dr. Sucring also showed a man, aged 4n, a puddler, who had complained for twelve months of pain and
heariness after food, with excessive flathlence and romiting. From the natnre of his work he lad been obliged to drink large quantities of liquid, and he had consumed enormous quantities of ginger beer, barley and oatraeal water. Dr' Sucliling found that on palpation of the abriomen a Tell-marlied succussion splask could be casily obtained: fluctuation could be elicited through the abdomen, and the stomach prorcrssion-note extended almor to the pubes. The vomit containet surcine. No peristalsis was obserred at any time. The man was admitted into the Rutene llospital on April 16th, and was treatm as follows: Erert moming the stomach was washed out with a solution of hyposulplite of soda. Ouly one pint of milk was mven daily by the stomach, and this ras peptonised: the patient was otherwise fed brene mata. A mixture containing strychnine and sulphocarbolute of soda was also given. The patient had not romiterl since the commencement of treatment; he now felt ruite wrill : the stamach area, though still large, had recerled to the nma licus, and the succussion splash was not so readily elicited. The patient had not lost much flesh.

Cirrhosis of the Liver in a Child.-Dr. IIonbes exhibited the liver of a chidd aged 6 veare, who died at the Children's Hospital. The liver was not much diminished in bulk as compared with the weight of the child's body, and the surface did not exhibit the "hobnciled" appearance to a rery marked desree. The organ Was extremely tongh, the spleen mirch enlarged, and ascites with jaundice present before death. Microscopic examination revealec a rery extensive new growth of flbrous concective tissue, taking the form of ordinary atroplic cirrhosis. The parcnts of the child had been in the habit of giring it beer and rum.

Spina Bifida Occulta.-Mr. Barling showed,for Mr. McCarthy, a specimen of spina bifida occulta in the upper lumhar region. Associated with the condition were the following: \& fusion of the laminse of the eleventh and twelfth dorsal rertebre on the left side, and partial fusion of the bodies of the same rertebre, dilatation of the central canal of the spinal cord, and inclusion of a process of dura mater in the anterior fissure of the cord. The skin over the bihd spine was covered with a patch of dark hair of considerable length, whilst deeper there was a sebaceous cyst an inch in ito largest diameter. The specimen was taken from the body of $\varepsilon$ child aged 2 years, who died of broncho-pneumonia, and who had no idea of walking, although there was no condition of talipe= present.

Alveolar Sarcoma of Breast.-Mr. Ilaslan showed a breast he had recently remored from a woman agred 4. Six months before admission she noticed a small lamp in the left bresst: this gradually increased to the size of a laree crange. There was no rain. The skin for an inch murd the nipple wac reddened, slightly swollen, and could not be freels moved over the growtli; the nipple was not merikedly retracted The axillary glands rere enlarged; the supra-claricular flands could also be felt. On February 7 th the lreast, with the unhealthy skin and axillary glands, were removed. On making e section of the breast the growth was seen to hare a distinct limit, being surrounded ly appareutly healthy breast-tissue; the cut surface was slightly conrex, lid not vicld any juice, and felt amo looked like fibrous tissue. On microsenpic examination it was found to be an alveolar sarcoma. The patient recorered from the operation, but by the beginning of April there were obrions eigne of recurrence in the tissue round the cicatrix and in the suprecharicular glands. At the end of the month sereral fresh nodules lad arisen in the slin at a distance of au ineln end a half frox the cicatrix. Attention was dramn to the rarity and extreme malignity of this form of sarcoma of the breast.

Aur in Abdominal Abscesses.-Dr. Maldss read a paper on the presence of air in suppurative swellings of the aldomen, and related four instances in which it had come under his notice. He attributel it to decompesition of the contents of such collectione
first, from the contiguity to the intestimal canal ; and, escondly. from the presence of bacili, which probably acted ascarrits of the neccssary elements. We thouglat it interesting, and exceptional from a clinical viem, since in each instance the air oceupied the uppermost surface of the interior swelling, and cave a reso nant note on perenssion, though fluill was present in quantity. The cases referred to were a suppurating lirematocele a remote parametric abscess, and two peritoneal cases. They were wathed out and drained, all recorcring.

Cases.-Dr. Smor showed a patient with peeudo-mnsculer
 boy on whom he had performed amputativa of the uper ex-
tremity in the contignity of the trunk, he Berger's method, for sarcouna of the hend of the humerus.

## CAMBRIDGL MEDICAL SOCHETY.

Fhiday, April 6th, 1888.
II, Steant, MI.l.C.S., President, in the Chair.
C'rethral Calculus.-Mr. Balding exhibited a culculus which he had removed hy perineal seetion from the urethra of a man, nged 24 , who came under the notice of Mr. F. Davey in consequence of a flstulous opening in the scrotum, about one inch from its perineal margin, discharging yus and urine. This had existed for about ten days, and the patient then attributed all his symptoms to bruising lis perineum when getting over a stile about three weeks previously. The calculus, whieh caused induration and swolling of the whole perineal region, was easily reached through the sinus, and removed by enlarging it sufliciently backwards. The wound healed farourably. The calculus when dry weighed 624 graina, was 21 inches in length, and $1+$ in breadth. No sntisfactory history could be obtained from the patient himself, but that proeured from others established the fact that from about two to four years of age he bad constant minary troubles, and was considered to suffer from "gravel." Neither the man himself, nor any of his friends, knew of any subsequent symptoms till quite recently. It would, therefore, appear that a calculus existed in the bladder during clildhood, and that it then passed into the urethra, where it rewained for twenty years without producing any serious trouble till the perineum was injured, and suppuration followed. Mr. Balding referred to the other recorded cases, a somewhat similar one of which was ly Dlr. Christopher IIeath, the calculus described by him bearing a curious resemblance to the one now shown.
Foreign E'ody in Rectum.-The President related a case in which he had removed a rib bone of a rabbit from the rectum of a man who lad eaten some rabbit the day before.
Hydatiel Cyst of the Liver.-Mr. C. Lucas related a ease of this affection.
Cerebellar Homorrhaye - Mr. A. Ingle (Shelford) read the nohs of a case which oecurred in a widow, aged 63. Ten years before she bad an attack of paralysis on the left side, from which she recovered, the only remaining defeet being a slight lisp. She had been subject to bilious attacks, and had often complained of giddiness in the head. On February 12th, 1888 , she walked a mile to chapel, sat the service out, and afterwards it was notieed she was looking unwell. She walked into the restry, thinking one of her bilious attacks was coming on, but feeling much worse in tho course of an hour, she was helped to a neighbour's house, and soon afterwards vomited. She was put to bed, and became very drowsy. Several attacks of vomiting occurrel during the day. She would mutter replies to cuestions, lint one could get but very little information from her. She complained of no pain but headache. There was some retraction of the headi pulse se, regular, fair volume and otrength; arteries somewhat atheromatous; the first soum of the heart was not yuite chear, but there was no detinite murmur; the pupils were equal and active to light: no arcus senilis, no loss of puwer or sensation. Xext day her condition was unchangel, lout there was no further vomiting. On the 17 th there was seme lues of power in the left arm, and the urine occasomally dribhed awny; the patient lay in a drowsy condition. but seemell to hear whatever was said in the room, hnel would wcasionally interpose a remark. By the enth the left arm was entirely piaralysed, aiso some muscles on the left side of the face. Tiwo or three days later the tongue was protrulled to the right. She lingerm till the 27 th - fiftem days from the commencementoceasionally yassing for suveral hours into a comatose state (once for furty fiours) when she would be perfectly still, taking nothing, and not heing uhle to be romsed. For the last forty-eight bours she was in this conditivu. There was no "vidunce of loss of co-ordination. The fullowing were the notes of the post-mortem examination: Viry thin and soft skall. Mus:l senile atrophy of con volutions and aecumulation of subarachoin tluin!. No softening or lesion on exterior. Oecuping position of right clanstrum wha a small eyot three-puarters of an inel dewp by onc-sixth inch brose, containime clear, serous-looking sluid. In left cerehellar hemisphere was barits bemorlage, chietly in rengon of ennvoluciond involving unly poiterior part of whole cortex. This extunted a litale in the ripht of the midtlle line. There was, heodea, a small hamorrhagic softeming in pusterior wall ef possterior anrnu of rioht lateral watricle, but uo blood in tentrieles. afuch atheroma of cerebrul arteries.

## MANCIHESTER MEDICAL SOCIETY. <br> Wrdnesdat, June 6th. 1888.

## J. Draschfeld, M.D., F.R.C.P., President, in the Chair Clinical Mheting.

Cases-Dr. Dreschfeld showed a case of fibroid phthisis of the left lung, in which a pulmonary murmur was heard and the left vocal cord was paralysed.-Dr. Lisecil slowed a woman suffering from diabetes, who presented paralysis of the third, fifth, and sixth nerves.- Mr. Wrigut exhibited a caso of hupus ery thematosus, and also one of rupture of the larynx.-Mr. Jones showed a ease of ruptured urethra,-Mr. Jichmond showed a case of congenital angioma.-Mr. Musson showed a case of multiple ibromata.-Mr. Morgan showed a man presenting a peculiar rigility of muscles throughout tho body.-Dr. Emrys-Jones showed a girl suffering from right hysterical hemiantesthesia, with achromatopsia, and contraction of the field of vision on the same side.-Dr. Wilson exhihited different forms of apparatus for the administration of anæsthetics.

## REVIEWS AND NOTICES,

Scientific Menoirs by Medical Officers of the Anmy of India. 1. Note on some Aspects and Relations of the BloodOrganisms in Ague. 2. Note on the Occurrence of a Minute Blood-Spirillum in au Indian Rat. 3. On the lately-demonstruted Blood-Contamination and Infective Disease of the Rat and of Equines in India. Ly Brigade-Surgeon Vandike Canter, M.D.Lond., Bombay Army, Principal and Professor of Medicine, Grant College, Bombay.
In the first of Dr. Vandike Caitter's payers the headings of which we have given, the author refers to Professor Maclean's olservations on the researches of Tommasi Crudeli, Klebs, and Marchiafava, in which that author dwells on the significant faet that the bacillus raalarie had eluded the search of competent observers in all parts of India where malarial fevers prevail. Among the unsuccessful searchers for the bacillus malario was Dr. Vandyke Carter himself. Stimulated by the account given in this Jocrnal of Mareh 12th, 1887, of Dr. Laveran's researehes by Professor Osler, Dr. Carter renewed his examination of the bload of men affeeted with ague, and quiekly detected at fever-periods many pigmented spherules, and subsequently the equally characteristic crescentic bodies." The cases were taken as adnitted, quartan ague, the blood was examined on twenty-six days, on of dates of every relapsc, also during the intervals, and of tem, thout quent to the latest paroxysm scen. With the onset of the fever "pigmented spheroids, both sessile and free," were observe fever at apyretic periols only some pigmented leueocytes werc seen in the blood. At no time in this case were crescentic bodies found, but on the thirl day after the last paroxysm of fever (quinine previously given) active flagellated spherules in the blood were detected with a temperature of $98^{\circ}$ at 9 A.M. ; at 1.45 P.M., only a few bare sulteroids ; and again at 2.15 A.M. and I P.M., after which date the bluod remained free from visible contamination. We lave not space for the thetails of the blood examination of the six other cuses studied, restricting ourselves to the author's summary of the whole data.
"I consider there is proof enough that the genuine 'agne stnte'-the 'malarin process' in older term, and in the new the mularia infection - is pathologically distinguished by a visible living bood-contamination (a) having hamatozoic rather than hismatoplatal aftinities, ( $h$ ), und displaying a relationship to clinical symptoms whieh, if often less precise than obtains with pathogenic bacterinl infections, may none the less be real. (c) Vurther, it hus been shown that, in arresting malarial pyrexia,
the trus cuinine the drug quinine dons not with equal promptitude annihilate the hount parasite; (d) chis datum also indicating a probable different relationship of phenomena in the nomadic as compared with thacnive hold a close, if not causal, relation to the disease, may The inferred from, first, their constituting an adequato pathogenic influmee, and, next, their exclusive limitation to this
one one morbid affection: nor nacd such influence be amnulleal by secuingly conflicting evidence regarding the dutails of
association. According to my observations, the visille bloodcontamination may be more constant and uniform than concurrent pyrexial phenomena; and hence the inference that it is fundamental, whilst 'fever' is rather a contingent event. Certainly' not all fever in malarious subjects is necessarily monad-pyrexia and by experience 1 have been led to reeognise at least three forms of such 'fever,' namely, first, the genuine specific form, with its positive blood-aspects; next, and oftener in old cases, the consecutive residual or quasi-reaction form, with its negatire bloodstate, which may have simulated the genuine type in a clinical sense; and, lastly, the pyrexia pertaining to a superadded infection, which for a time supersedes the monadic-as, for example, was demonstrated for enteric fever by Dr. Laveran. As to nature and causation, I would add that present results serve to explain the paroxysmal and periodic character of paludal fever, through the corresponding definite duration and reproduction of a living contagium. That such pathogenic agent should be zooic rather than phytal, is a dictum of physiological import ; because infusorial life is known to prevail under different and more restricted condition than the bacterial, and hereby a clue may be gained as to the sources of aguc-infection. The foreign and nondescript term of 'malaria' adopted in Britain since 1827 may soon have to be abandoned, if not in favour of the prior indigenous name of 'marsh' poison, at least of a designation referring to definite conditions of soil, moisture, and water-supply," Dr. Vandyke Carter concludes by a referrence to Professor Maclean's concluding remark on the essential nature of malaria in Quain's Dictionary of Medicine, p. 914, with reference to Laveran's and Richard's researches on the spherical organisms developed in connection with the red corpuscles, to the effect that "should future investigations by independent observers in other malarious regions confirm these conclusions, it would be difficult to overrate their importance." On this remark Dr. Vandyke Carter adds, "and now it may be seen how far, as regards India, such confirmation has been realised." It should be added that the author quoted by Dr. Vandyke Carter in discussing the question of the bacillus mnlaria in his published lectures, does not dispute the existence of sucb a fungus, or that its discoverers found it in the organs of men who have died of malarial fevers, but he points out "that these fevers prevail in regions widely different from that of the Agro Romano, in arid sandy districts where it is difficult to believe that such a bacillus could find the conditions needful for its existence." Whether this observation will apply with equal force to the blood-organisms dcscribed by Laveran, Richard, and Carter, experience must decide. Meanwhile this gentleman's researches are as welcome as they are interesting.
We must postnone notice of the author's other papers to a future opportunity.

## A Coursia of Quantitative Anatigers fon Suments. By W.

 N. Marthey, F.ir.S. Svo. London: Macmillan and Co.Thas is a carefully-executed little book, which will form in many respects a valuable laboratory outline to students engaged in quantitative chemical analysis. It is not, nor does it profess to be, a complete work on the subject, and requires abmondant amplification on the part of the student, by reference to larger and more exhaustive treatises. The examples are well selected, but the scope of the work might with advantage hare been considerably widenct. Thus, we cannot consider that a student has passed through a satisfactory conrse of even elementary quantitative analysis without having made himself acquainted with the methods of determining the ultimate constituents of organie compounds, yet of this important branch of analytical chemistry there is no mention.

For the same reason we are somewhat surprised to sce a method of coal analysis described without any reference to the mode of detcrmining the elementary ingredients-carhon, hydrogen, nitrogen, and oxygen. Again, the analysis of nrine given is so iueomplete as to le praetically valueless. We cannot help thinking, therefore, that it would be desirable to indicate in the title that the "courso of quantitative analysis" described is of a purely mineral character.

We are perfeetly aware that a student has rarely sufficient time to pass through a longer course of qumtitative analysis than that given in this rolume: but it is extremely important that his work should he of as varied a character as possible. Indeed, we should like to see the tasks allotted to the several students working side by side in a laboratory more differentiated than is
usually the case at present, so that each student might be profiting from his neighbour's operations as well as from liis own personal experiences. We take it that Professor llabtheys work is hardly calculated to encourage this mode of laboratory teaching, but rather to foster excessive uniformity.
A Textmook of Brorogy: comprising Vegetable and inimal Morphology and Physiology. Designed more especially to meet the Iequirements of the Intermediate Science and S'reliminary Scientific Examinations of the London Cniversity: By J. R. Ainswontii Davis, B.d., ete., Lecturar on Biolngy in the University College of Wales, Aberystwith. With numerous lllustrations, Glossary, and Fxamination (Questions. Loudon: Charles Griffin and Company.
THe uscful fashion of preparing a monograph on the anatomy and physiology of some animal or plant easily procurable in this country is still in vogue amongst the best scientific writers. Perhaps a strictly practical and analytical work of that kind is particnlarly suited for the student, as it represents the most thoroughly scientitic manner of studying Nature. It teaches the student to begin with observation, and to dissect, rather than to learn a number of hard words in a particular order, for that is what is meant by getting np classification before opening the book of Nature. Nevertheless, systematic and synthetical biology must be learnt, and that work on the subject is the hest which is the most comprehensive. The student who has studied a few good monographs on typical plants and animals will be well prepared for Mr. Davis's work, which maintains, as far as can possibly be managed, the analytical description of cach type.

No doubt, to include the whole range of the vegetable and animal kingdom in a texthook of no very rudimentary character was a hold deed. Mr. Daris has not failed in his attempt, though perhaps his manual is rather too deep to be read through for examination purposes. The study of certain departments marked of by examining boards for some particular examination will prove profitable to the candidate; for, as we have already noted, each organic form is treated in an analytical fashion. At the same time. the candidate will be able to trace the relations of the form allotted to him for study, by perusal of neighbouring departmentz of the Textbook. As a general work of reference, Mr. Davis's manual will be highly serviceable both to medical men and to amateur or professional scientists.

Mr. Davis has not been sparing in his selection of types frem the lower forms of vegetable and animal life. Thus from "fungi" he selects saccharomyces, hacteria, mucor, and penicillium. From the vertebrata he has chosen the frog, alouc, as representing the icthyopsida, the pigeon to exemplify the sauropsida, and the rabbit to demonstrate the anatomy and physiology of the mammalia. This arrangement was partly reudered necessary on account of the greater variation in essential organs amongst the lower types.

The Principles of Cancer and Temoer Formation. By W. Rogen Wimitams, F.l.C.S., Surgical Registrar to the Middlesex Hospital, Surgeon to the Western General Dispensary: Lendon John Bale and Sons.
Mr. Roger Hildiams, undoubtedly a good philosophical pathologist, has conceived the bold scheme of writing a treatise on the pathology and treatment of cancer and tumonr formation in six parts. This work forms the first part of the contemplated treatise. His ideas recall the primeiples of Darwin's great theory, and much stress is laid on elemental pathology. on which Sir James l'aget has often dwelt. The author reviews cell-multiplieation and the phenomena of more complicateyl types of reproduction, and then turns to the evolution of regetable neoplasms, to which subject he devotes a highy instructive chapter. Animal neoplasms are next described and discussed. The author lays stress on the great inHluence of evolution, the ancestry of a cell determining its growth often uneontrolled by different surrounding circunstances. Thus the normal orum of any species of plant develops that species alone; and changes in surrounding conditions may check the growth of the orum, or kill it, but eannot make it develop another species of plant. In a similar manner, a cell when morbilly grafted on a structure puore or less distant from the tissue whence it originated can only develop similar tissue. Cells engaged in the evolution of lighly organised structures suffer im-
pairment of their reproductive power, nwiny to their protoplasm hoing chiefly converted into special tissme. "They are litte, if at all "eroancipatell," as Mr. loger Williams loses to express the fact, from their parental structure: honee when they form a tumane it is a comparatively inert mass, living, it is irue, and histologically itentical with the parental structure but eleroid of infective or tualignant qualities. But lowly organisel cells are more thoroughly "emancipated" from their source in lowly organiserl tisues: thy exert a powerful antonomy seen in malignant tumours and in the metastatic depresits to which those growths give riso.
 acientific ond, if his inferences be not infallible, he las arranged his facta well, so as to ho of acrvice to others. Medical teachers ure more enlighten al than they were twenty or thirty years ago. In those days stulent: were sometimes, though not always, taught microseopic pathology, and though an old-fashioned hospital surgeon is sail to have discouraged an enthusiast by saying - Bother your sarcomas, stick to something practical," most students wese shown suctions of circinoma, enchondroma, and other tumours. Yet normal liuman histology wal much neglected. The faithful atmely of that sulhject in lifitish medical sehools durug the past ten years lias done much to promote good pathological work in thi, country. Mr. lioger Williams represents a yet netrer type of pathologist. who stidies cells in the lower animalo and iu plante, in order to compare them with thecells which Corus tumours in man. an impmovement on the unscientifie system of teaching the histology of the human viscera from sections of guinea-pics and cats livers, kilney*, etc. The disadvantage of that practice is obrions whon it is borne in mind that the student may tharely be led into error when pamining sections of human kidnevs supposed to ho disposetl. Being ignorant of the histologso the human kidnov in health, he cannot julge soundly of its mortul apparances. Mr. Koger Milliams's plin may prolitably be extenled from the sindy of cells to the stuly of tissmes. i thorouglt investigation of the histology of the sucenleut, lowlyorganised tiscuesalanlant in some of the lower animals might throw yet more lisht on noplasus : but the work must be done by pathologists and hiologists simniltancously.

## Urtiozidische Chimbaif. Dr. Augest Schmeiber. Leipzig and Wien: Franz Deuticke. 1888.

Tuns is the monat recant lierman publication upon this important banch of surgery, and contuin*a lurge amonnt of useful information clearly put. The work is one of 344 pages, but contains $n o$ fewer than 3 saligures, and though these are not all of the usmal excellence of German ilhustrations, they add very materialle to the usefumpses of the book. Both the deformitios to be treated and the muans of treating them are thus readily grasped, and many of the lignteg will be fonnt of service ly linglish readers. Soreover. thare is a wry full list of the literatureEnglish, German. French, aml Italian-given at the head of ench maliject treated, and this is mon only fall, bat remarkably well posted up to very recenthate. We notice, for instance, that refereaces are given to papors in the Johrani of 1887, and protions years upon that curiou= cong nital alleceion of dislocation at the hip-joine, and its treatment by larwell, Black, and Wf. Adams. Other subjects are equally will given.

A shost notice of hammertoo is not so satisfactory, and does not throw much light on it, calse or hest treatment as we are now enclinel to regard th יn There are spacial chapters on riclists corticallis, Hoformitios of spine and brome, contractions, ankylosez, knoeked knooz, heformity of the foot, paralytic doformities. and congenital dislocation. Delore's methon of forcilole straightening of bunt bones, lately advocated by Mr. Fidmund Orem, is mentioned hese, but thase and many similar violent proamplingassem to us to require spucial skill and experience, and am likaly to in more harm than good in inexperienced hands.
Tha work hias mitels to recommend it to German reatlers, and will prov of grezt 1 an. ceproiaily for the illnatrations and referances. It is unfortrmate thits the binding of an many of these foreign books is an un=n*isfuctory that they fall to pieces lefore they hare heen looked throngh, bit they contain an amonnt of material ia them that fat our Fingligh works very often to thame.

Dr. Matwell T. M.hsters, F.R.s.. Yice-l'resident of the Lin-
 deadémie des Sciences of Laria,

## NOTES ON BOOKS.

Nature's IHypiene. By C. T. Kingzett, F.I.C., F.C.S. Third Edition. (Ballière, Tindall, and Cox).-The increased knowledge of sanitary matters and the ever-depening consciousness of the importance of everything which bears upon the maintenance of health, which has characterised English literature during the last few years, may account sufliciently to some minds for the appearance of a third edition of this work. May it not be alsoconversely thae that the puhlicalion of such works as this does yery much to increase that widespread sanitary knowledge which is a "consummation most tevontly to lee wisled" amonsst our consmunity? The author offers his information to all, for whilst scientific experts fiud a record of the most recent researches, the uninitiated are provided in the first two or three chapters with an introduction to such elementary chemical facts as are inelispensable to a proper understanding of what is to follow. The clapters on tlie origin and prevention of infectious and contagious disenses, on antiseptics, on the treatment of the sick and on the relations of micro-organisms to disense, are of special inferest to medical men. In Part II will be found a most interesting account of the encalyptus and of pine and camphor forests, together with the details of the nuthor's researches on the action of essential oils and terpenes as antiseptics and disiufectants. The type of this book is remarkably clenr and pleasant to the eye, and there is a good table of contents and an efficient index;

## REPORTS AND ANALYSES

## Descriptions of New inventions,

IN MDDICINE, SURGERF, DIETETICS, AND THE ALLIED SCIENCES.

## AN INHALATION RESIPIRITOR

A snmple and effective inhalation respirator, very similar to DIr. James's "pneumatikon," describel in the Jorrvil of llay goth, has been made for me for some months past. It consists of tero layers of light wire-meshed gauze hinged together, between which the layer of lint is placed (see block). There are several inhalation

respirators in use on the same principle, but they are cmmbersoune and unsightly for indoor and outdoor use. The good effects of inlalation of various druga, jarticularly pure terebene, in chronic congles, loss of roice, and catarrhal affections of the respiratory passages is umdonhter, while the simplicity and trifling cost of the respirator made for me places these advantages within the reach of the ponrest patient.

14, Old Lurlingtou Strect, IF

## COMBISED NASAL AN゙1) ORAL TESSPIRATOR.

Tre: fact that we do not breathe through the mouth but through the nostrils should lee sufficient indication that the respiratornow generally used by those suffering from julmonary affections is conceived upon entirely erroneons views. I have, iberefore, been induced to bring before the profession a combinch nasal and oral
respirater, which has been carefully and efficiently made by Messrs. Arnold and Sons, of West Smithitield.

There may be at first a matural aversion to wearing a nasal respirator, but, as the feeling of novelty wears off, this will probubly disappear, and the comfort experienced by the wearer will mere than compensate for the appearance. The nasal respirator should be alone sufficient, and will probably prevent many a coryza to which persons are so liable in this changeable climate; but for those who still adhere to the old-fashioned respirator, there is an oral part attached which can be worn separately or with the nasal part, to which it is secured by a movable silver pin.

Briefly the respirator may be thus described. The nasal por-
 tion consists of celluloid fitting close to the nose, and liaving at the bottom an air chamber, with silver wire at the top and hottom of the clamber. The bottom pari of silver wire is mevable, so that it may be taken out and a piece of gauze fixed in, so as to regulate the amount and degree of air to be inhaled. The oral portion, also of celluloid, is deroid of metal, and consists of two parts, which cun be taken a part at will. When in contact, they form a chamher in which gauze once, twice, tbree times or more in thickness can be placed according to the exigencies of the case. It can be taken to pieces, cleaned, and fresh gauze put in as required. It presents in celluloid a much better appearance than the black respirator now worn.
$\%$ E. Watson PaUL, M,K.Q.C.P.Irel. and L.M.Dub., M.R.C.S.Eng. Bristol.

## BISHOP'S GRAXULAR EFFERYLESCENT ANTIPYRIX.

 Messrs. Alfred Bisiop And Sons, of Speck's Fields, E., have added another to their already numerous effervescent preparations of impertant drugs. The "granular effer vescent antipyriin" manufactured by them contains 5 grains of antipyrin in each drachm. The preparation is well granulated, it effervesces freely when added to water, the solution has a pleasant taste, and physiological effects are produced by it as well as by the simple chemical.A NEW SYRINGE FOR RECTAL INJECTION OF GLYCERINE. Finding great difficulty in obtaining a syringe suitable for injecting glycerine into the rectum as a useful adjunct in the treatment of chronic constipation, Dr. W. Barrett Roue. Physician to the Bristel Hospital for Children and Women, has suggested an invention for meeting the dithiculty, of which we append an illustration. It consists of a simple glass graduated cylinder capable

of holding three drachms: the piston and mounts are of rilcanite, and the nozzle (a very important part of the instrument) is two inches long, of suficiently large bore te provide for the entrance and exit of the glycerine, and which, being first oiled and thens warmed, may be bent to almost any curve. The instrument has, under Dr. Roués direction, been made hy Messrs. Ferriss and Co., surgical instrument makers, Bristol. of whom it may be obtained.

## SELf-DIGESTING WhOLE Mbal FOOD.

Correction. - The title which was affixed to the note on Messers. Satory and Manes's whole menl food in the Joursal of June 2nd, p. IIT. was incorrect. the word " bread" liaving been accidentally substituted for "tood."
Tur Committee of the Birminghan Llospital Saturday Fund are enabled to divide a sum of $£, 600$ among the medical charities of the town this year.

## BRITISH MEDICAL ASSOCIATION. <br> SUBSCRIITIONS FOR $18 \% 8$.

Subscriptions to the Association for 1888 becume due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, 429 , Straud, London. Postoffice orders should be made payable at the West Central District Office, High Ilolborn.

## The British fledial journat.

## SATURDAY, JUNE 16тн, 1888.

## SELF-HELP FOR HOSPITALS.

The great political problem, how to deal with the poor, which we are perpetnally trying to solve, but which appears as far off as ever from practical adjustment, has received a'fresh impulse from the important testimony of some of the professional witnesses examined by the House of Lords Committee, now considering the question of poor-law relief. Much of the evidence will be found to have a remarkable and direct bearing on medical relief, whether of an eleemosynary or of a strictly poor-law character, nor are there wanting healthy indications that the entice subject is becoming better understood. It is impossible for those who have daily dealings with the poor not to be strongly impressed with the fact that, while distress abounds in our midst, the agencies at work to mitigate it have no greater obstacles to contend with than the utter absence of self-help on the part of a large proportion of the population most clamorous for charity. The justly repressive character of our poor-law system of relief may possibly deter thousands from seeking State aid, who, on the other hand, have no hesitation in arailing themselves of priviledes they can owasp from purcly charitable and voluntary sources, nor is it at all sumpising that the desire shoukd keep pace with the indnlgence, or be aggravated thereby.

Indiscriminate medical charity may possibly occupy higher ground in public estimation than indiscrininate alnsgiving, but there can be no doubt of its influence being cqually pernicions, and there is a growing desire on the part of a large hody of the medical profession, as well as of the discriminating supporters of hospitals and curative institutions generally; that the demoralising tendency should be restrained by the adoption of repressive expedients to check its growth. It is of primary importance, also, that while such measures may he made profitably helpful to the hospital or dispensary and morally heneficial to the patients, they must not he permitted to slacken the interest in public charity but rather tend to encourage its increase where it is known to be judiciously administered. Our main difficulty lies in the enforcement of schemes likely to meet with general acceptance. We aro naturally opposed to reversing tho charitable instincts of onr predecessors in matters of medical relief. The principles on which our hospitals and freo dispensaries wero first funded have been mellowed by time. Wu have lecome the inheritors of their free traditions, and, notwithstanding the clanges which muler the name of reform have taken place in most of our public institutions,

Wo aro unwilling to interfere with the economic arrangements of establishments which have served us so woll in the past.

It is true, nevertheless, that at the time when the great bulk of our volmatary hospitals were established, the poor-law medical sorvice was in a misorable condition; it could scarcely be stid to have had any existence at all, and the indigent sick wore not long in discovering the advantages of the new asylums over the infirm wards of the workhouses. The latter have survived till our own day, but it is to the credit of the present genoration that they havo been for the most part supplanted in London and all large towns by a series of imposing edifices which, as regards sanitary construction and details bearing on internal conomy, leave little to be desired. Erocted entirely by State agency these hospitals, except in tho matter of surgical casualties, appear to meet all the wants of the destituto sick, and it is not surprising, having regard to freedom of access, especially to such as have been instituted for the treatment of infectious disease, that the deterrent effect of our poor-law medical service is losing ground, while the constitutional abhorrence of the workhouso test retains its full force. Whether this disarming of prejudice will in tho end extend to a lugher grade of people in the social scale than it does at present must, in great measure, depend on the facilities for treatment afforded by the voluntary hospitals and the accommodation at their disposal, for it is hard to loelieve that tho inherent and healthy dishike of pauper relief will bo overcome so long as opportunities are offored for avoiding it.

It is significant, however, of the progress of events that whilo the sick asylums, backed by the public purse, show a disposition to increase ont of all proportion to the normal conditinn of pauperism in the country, the hospitals and other medical charities are barely kept alive by bequests and constant appeals to the benevolent, their subseription lists, which formerly were their mainstay, yiekling, according to Lord Randolph Churchill, only 16 per cent. of their expenditure. From their exclusive constitution and the indisposition of the local authorities the hope that the rate-supported hospitals will ever become schools of medical instruction, as in other countries, is far from realisation, and there is all the more need of extending the work of those voluntary institutions which contribute su much to tho public advantage.

Prior to, and afterwards in a measure parallel with, the improvements which have taken place in poor-law medical relief, the voluntary hospitals have also undergone a process of erolution of a not less satisfactory character, which has mado their value doubly appreciated, less, perhaps, hy the sick poor than by the classes above them. It is a matter of common observation that few persons belonging to the middle class enjoy in their frivate homes the same medical skill and careful nursing when overtaken by disease or accident as patients possess in well regrulated hospitals. The admission of such is governed less by their poverty than by urgency of symptoms and clinical importance, and it naturally follows that a fair proportion aro able of themselves, or through their friends or employers, to make some restitution for bencfits received.

The pay system, as it is sometimes called, although recognisel is in important factor in the receipts of foreign hos-
pitals, has beon slow of introduction into those at home, but it has had a beginning, nud for the past twenty years has formed the main support of the cottage hospitals and convalescent homes which have spring up in suelinumbers in so many parts of the country. The experiment has also been attempted, and witl satisfactory results, in at least two of the old hospitals, and in a large mumber of special hospitals; and there is every reason to hope that it will be looked upon as a necessary part of the constitution of every hospital of the future It is clear, however, that unless the scheme provides for a scale of clarges, ranging in proportion with the means of patients, and precautions aro taken to prevent its abuse, the pecuniary results will be disappointing.

In the out-patient departments of hospitals the primary difficulties are more capable of solution. Here, it has been the cry for years that consultative advice and physic have been unsparingly and indiseriminately administered to all comers, provided they are content to sit placidly for hours in a crowled room among a motley group of people bent on the same errand. Many remedies have been suggested, and some attempted, to check the generally acknowledged abuses of the department, but none have been found so effective as the imposition of a small money payment, not sufficient to enable the system to cope with that of the outside practitioner or even to cover the cost of the drugs supplied, but enough to make the recipient feel that he is receiving something which possesses a money value. It must be adnitted, nevertheless, that the axiom of there being no rule without exceptions applies with special foree in dealing with medical charity, and it will always be found imperatively necessary to guard against the possibility of the deserving sick suffering and being sent empty array on account of their poverty. Howerer stringent our rules, regard must be had to the necessities of individual cases by supplying them in the first instance with the gratuitous assistance required, which should bo given with the proviso that on the occasion of their nest visit they should come furmished with a voueher from a minister of religion, respectable householder, or contributor to the hospital or dispensary, confirming their inability to pay.

Nothing in the past has tended more to lower the value of the practitioner's art in the great centres of population than the freedom with which medical relief has been administered, nor is it at all difficult to see how this tendency could be restrained and an inestimable boon conferred on the charities, provided the principle of self-help was judiciously introduced. It is the business of the managers of these establishments, who as a rule are keenly alive to their financial diffculties, to promoto measures helping to inerease their resources, and which, after all that may be said to the contrary, must confer moral advantages on the population.

Mnch has been done in various parts of the country, and especially in the mamufacturing towns, to infuse a helpful spirit into the workpeople in sid of their local charities, but in London, on account probahly of the shifting and miscellaneous character of the operatives, comparatively little has been effected, and that little in a vicarious way by strect-collections instead of hy a systematic organisation to bring tho appoal home to every warehouse and workshop. It can hardly be disputed that there is here a vast field waiting for the husband-
man, which hospital managers seem loth to cultivate, hut which ere long, when wiser counsels have prevailed over their timidity, will afford them an abundant harvest.

We aro proud of onr hospitals and medical charities on account of their national characteristic in being entirely free from State control; but if their prestige is to be maintained and their utility still further developed, substantial assistance must be accorded them hy those who participate most in their privileges, and who are, or ought to be, nost concerned in their maintenance. Experience has shown that such aid may be forthcoming without pressing too harshly on the resources of the industrious, and while cordially sympathising with the objects of the charitably disposed, it is a duty we owe alike to them and to their suppliants to inculcate in health those moral lessons of self-help and independence which may be relied on as best fitted to grapple with disease.

## SUMMER IN THE MOUNTAINS.

We had last week the satisfaction of announcing that the suicidal policy of secking to exclude English medical practitioners from Swiss health resorts except under conditions too onerons to be generally fulfilled had been abandoned in the canton of the Grisons, where the agitation was first commenced. Attention was first called to the ill-considered action of the Swiss Government in these columns, and our Swiss correspondent has kept the English public informed of the progress of events. The arguments advanced in editorial articles in this Journal have, as was stated in the letter from a London physician who has had special opportunities for knowing all the circumstances, bad due effect with the interests most immediately concerned, and it is much to be hoped in the interests of all parties that tho last may now be heard of this proposal, and that nothing of the same nature may occur to disturb the pleasant relations which have so long existed between the two mations. The summer season is just about to begin, and though in this respect less important than the winter season, it is satisfactory that the difficulty is in a fair way to adjustment before its commencement.

It is indeed rather remarkahle that while so much has been said in recent years on the beneficial effects in certain classes of cases of prolonged resilence at high altitudes during winter, but little has been written on the therapeutic qualities of mountain air in summer. Perhaps the reason is that the public has found out for itself without medical guidance that there is notonic for the tired brain and relaxed body which can surpass, if indoed even the sca can equal, the pure bracing atmosphere of the "playground of Europe." Oertel and his followers have indeed written a good deal about mountain resorts in summer, but it las been chiefly if not entirely in connoction with the so-called "gymuastic" treatment of cardiac disease, and has had special reference rather to the facilities afforded at tho various resorts for this mode of treatment than to their altitude.

The health reserts of Switzerland may be roughly divided into three classes: the mountain stations, with an elevation at or above 4,000 feet ; the hill stations, with an elevation ranging from 2,000 to 3,000 feet; and the lacustrine and valiey resorts. The latter belong to an altogether different
category, and it is with the first-named-the mountain resorts proper-that we need alone concern ourselves here.

The climate of these devated valleys varies considerably in certain respects, especially with regard to the period of greatest rainfall and the degree of moisture, but they all have certain qualities in common. In all the diminished barometric pressure canses the atmosphere to be more rarified, and this has at first the effect of eausing the respirations to be more numerous and the pulse faster ; but after a short period of acelimatisar tion both return to the normal-if, indeed, they do not in time sink below it ; the inspirations, however, become decper, and the aëration of the blood in the pulmonary vesieles is effected with greater ease and rapidity. The air at these altitudes, ceen in summer, is drier than at lower levels, consequently evaporation is more rapid, and the combined effect of these two peculiarities of mountain air is to produce: decided diminution in the weight of the body owing to increased loss of water and of carbomic acid.

There are only two other qualities which noed now detain us; these are the increased diathermancy of the air and its purity. As to the latier, it would be rash to say more than that the beautiful observations of Mentschnikoff have suggested that the possession of this negative virtue may very materially diminish the calls made upon the cellular activity of the tissues, and especially of the blood. As to the former, its effect upon the human organism is clearly seen in the rapid tanning of the exposed skin, and there are good grounds for beliering that direct sunlight has an important and beneficial chemical action on the metabolic processes.

It is espeeially in certain of the diseased conditions-or perhaps, it should be said, tendencies towards disease-promoted by modern urban civilisation, that a summer holiday in a mountain resort is so beneficial: but the cases nre not to he entirely confined to these. Dr. Veraguth, ${ }^{1}$ of St. Moritz, has recently published some interesting obserrations on the influence of high altitudes, nade in the Lpper Engadine. He states that in a healthy person the pulse and respirations are at first quickened, but that after a short time both return to the normal : the amount of carbonic acid and water in the expired air is increased, but tho quantities of urea and uric acid are unaitered ; he has also noticed a general entaneous hyperemia, and a slight diminution in the body-weight. His observations thus confirm and slightly extend thoso previous!y reported by others.

It is known that high altitudes have a beneficial effect in chronic malaria, but it is doubtful whether it is correct to speak of a specific action. Dr. Veranuth. howercr, makes use of this much abused term with refercnce to eases in which thero is enlarged spleen, anamia, occasional pyrexia, and intermittent neuralgias. In anamia from other eanses high altitudes in summer are also, as a rule. beneficial, but Bright's disease, old age, and leucocythemis afford exeeptions ; atonic dyspepsia and neurasthenia are also benefited, but in grave structural disease of the nervons centres, in ataxy, and paralysis duo to apoplexy or softening, a resideuce at high altitudes is not to be reconmended, neither does Dr. Teraguth approve of the advico often given to phthisical patients to spend the summer at high altitudes, considering that the

[^83]suddon changes of tomperature, the frequent winds, and, it may bo added, the hay harrest and the not infrequent rains, are likely to have a projudicial effect unless the pulmonary lesions are alisolutely quiescent.

As to heart clisease, apart from the guestion whether regnsated exercise is or is not of advantare in certain cases, it would seom that when compensation has heen long establishod, a tendoney to failure may bo checked by the special eonditions of the atmosphere at high altitudes; the greater aso with which respiration is performed, and tho somewhat larger call upun the left ventriele, while the vigour of metabulism is at the samo time increased, farour the healthy nutrition of the hoart musele.

## THE PRIVY COUNCIL AND THE ROYAL COLLEGE OF SURGEONS.

TuE further instahent of official correspondence which we publish at page 1290 , will not tend to diminish the astonishment of the Members of the College and the profession generally at the singular proceedings of the Privy Council on this vors graso and far-reaching question. It is now clear that there has been a settled intention to drop the petition of tho Members into the waste-paper basket, and say as little as possible about it. But a plea for constitutional rights within their own College, put forward by an enormous proportion of the Mombers, at a time when the authorities themselves had challenged an expression of opiniou on the subject, is not a thing which the advisers of Her Majesty are entitled to pass by in silence. The Clerk of the Council informs us that the petition of the $4,66 \%$ members of the College "was referred, witl all other petitions on the suhject, to the Committee of the Lords of the Conncil." Until now the Members and signatorics have had no notico of theso proceedings. What they desired, and still desire, is to be heard before such a Committeo in somo such way as may satisfy the profession and the public that their elains have received a fair hearing. It appears to he the present theory of the Privy Council that the claims of the Members to some share in the managoment of their own business and in the control of their own property may be shunted by modifying in one or two unimportant details the draft of the Charter submitted by the present executive of the College.

Tho Members will have to tako vigorous measures to bring homo to the Lords of the Council the fact that this is equivalent to a rofusal without a hearing, and that, even at the eleventh hour, the Members expect to be heard. The oceasion of an application for a new charter-rendered necessary as it was ly the growth of the Collego property-is evidently the proper and legal occasion for the reconsideration of the prese:nt executive arrangements, which were introduced by gradual innovations in times very different from our own, and which aro eminently unsuitod to the present conditions of merical life in this country, and ominently unsatisfactory to tho groat bulk of those who compeso the Colloge itself. "Che contention of the Members in their petitions, and on the one occasion when a deputation from them was aimitted, was that the College, by its nature and history, and by every consideration of public policy, is and ouglit to be a "fraternity ; " that, as to the property and buildings and policy of the Collego, the Mom-
bers have a right to be heard; and that the arrangements by which a small executive can claim to overide the general sense of the College is an anomaly, an anachronism, and an abuse.

If tho Privy Council consider that "no legal question is involved," they strangely misconceive the Members' position. It is perfectly true that the broadest and clearest hasis for the prayor of the petition is that of pubtic policy; but the statements submitted to the Privy Council embodied also a legal and historical clain of great strength. If these contentions, either in law or policy, or both, can be answered, the profossion is entitled to know what the answer is. If they cannot be answered, Her Majesty's advisers are surely bound by every principle of the constitution to refrain from using one of the few remaining forms of the absolute prerogative of the Crown so as to stifle the present demand for the redress of a great grievance, and remit the Members to an indefnite prospect either of litigation or of parliamentary agitation.

## LEGALISED ADULTERATION OF WINE.

We do not pretend to an acquaintance with the procedure of Her Majesty's Customs, but wonld like to have an official and explicit assurance that certain practices alleged to be, or to have been, carried on in the docks under the eyes, and, so long as the legal duty was paid, with the approval or comivance, of the excise officers, have been since discontinued, or, wather, prohibited. Reading over the evidence of varions experts on the adulteration of wines prior to and after importation into this country, as given before Royal Commissions, in reports on Exlubitions, and in other publications, we came across some astounding revelations. Mr. Walter Burton, an ex-Custorns Houso officer, stated, not many years ago, that "a wine jobber having 1,000 gallous of wine (already adulterated and fortified) can add thereto 100 gallons of spirit, thereby converting so much crude potato spirit, diluted with London water, and costing about a shilling a gallon, into, it may be, a 'special sherry' or 'vintage port.'" There is, he believed, no record kept of the quantity of spirit so turned into wine, "but seeing that a large staff of officers aro continuonsly employed in superintending such operatious, tho increase to our stock of wines from this source must bo considerable." Well may he ard that "it is most objoctionable to pay pmblic officers to legalise the manufacture of such compounds in our docks and warehouses."

Whether it be possible to devise menns whereby some limitation could be put to the adulteration and manufacture of "winos" so-called in Spain, Portugal, and elsowhere, and the passing at the Customs Mouse, on the solo condition of paying duty, of liquids whose composition alone proves then to be frauds, we will not protend to say. We do, howerer, think that on hyrienic, moral, and commercial grounds, it is not justifiable to pass into the market mixtures which it is self-evident camot he drunk until they have undergone further dilution, doctoring, and other adulteration, such, for example, as "slerries" in which the bitartrate of potash-the "wine stone," as the Germans call it-has been 'replaced by the sulphate, and to which a further dose of raw sulphurie acid, a pound to each butt, has been added, while the percentage of alcolol, which in a natural
wine cannot exceed 14, has heen raised by the addition of potato spirit to 35 , or even 59 , per cent. of proof spirit-in fact, to tho strength of ordinary brandy, and others in which the colour is given by fuchsine with its attendant arsenie; and, so far as we are aware, the clearing of cloudy wines by sugar of lead has not heen the subject of proceedings under the Sile of Foods and Drugs Aet.

But we would ask whether it is consistent with the Aet that Govermment officials should superintend the process of "mixing, colouring, etc.," wines with sulstances injurious or otherwise, so as "to fraudently increase the bulk, weight, or measure" of the same, "or to conceal the inferior quality thereof;" that a publican should be fined for adding pure water to his spirits, while the excise officers connive with impunity at tho addition of water, raw spirits, ote., to wines in the doeks.

If the ultimato decision must rest on the question of $£ \mathrm{~s} . \mathrm{d}$. rather than on the pulblic health, the pure wine-growers of Australia and other countries might well remonstrate against the legalising of "operations" by which the production of Spanish and Portuguese wines is frandulently donbled or trebled to their manifest injury, as those of France have against "salicylage" as a means of preserving fictitious clarets from clanges tending to render them undriukable.

We regret to announce the death of Dr. T. Harrington Tuke, which occurred on June 9th, after a long illness.

Mr. T. I'ridgin Teale, M.b., P.R.C.S., of Leeds, and Dr. IIenty Trimen, Dircetor of the Royal Botanic Gardens, Ceylon, are the only members of the medical profession who have been elected Fellows of the Rojal Society this year.

The second congress of the German Gynæcological Society, Which has lreen held in IIalle, has resolved, in consideration of the International Medical Congress to he held in Berlin in 1590, to hold its next congress next year. Freilurg is chosen as the place of meeting.
The preparations for tho medical and seientifie exhibition, which is to take place in Cologne, nest Sentember, in connection with the sixty-first meeting of the German Hedical and"Scientific Association, are making rapid progress. Already 100 firms, including several important Austriau and English houses, have announced their intention to exhihit.

The annunl meeting and dinner of the Cambridge Medical Graduates Club will be held at the Ilotel Vietoria, Northumberland Arenue, on Wednestlay, June 20th. The guests will be Sir Andrew Clark, Bart., and Sir James Paget, Bart. Members of the clab who intend to be preseut are requested to communicate with either of the Itonorary Secretaries on or before Juve 18th.

## PARTHENICIN.

Av alkaloid, to whiclu the name "parthenicin" has been given, has been isolated by Dr. Ulrici, of Cuba, from the leaves ant flowers of Parthemiun hysterophorus, commonly called Artemisilla or Escoba amarga. it is a crystalline substance, with an intensely bitter taste. It poisons animals, the temperature being previously greatly reduced, and it appears to have antipyretic, anti-intermittent, and analgesic effects on the human subject. It has been given in doses of fifteen grains once a day.

CORROSIVE SUBLIMATE INJECTIONS IN LUPUS. The Gazzetta degli Ospitali describes a case of lupus hypertrophicus of the nose where Dr. Tansini, after finding that many other local and constitutional remedies were niseless, injected solutions of corrosive sublimate, in strength frem $\frac{1}{2}$ to I per cent. There appears to have been no local or constitutional irritation, and the disease disappeared after twelve injections.

## OCTO-CENTENARY OF THE UNIVERSITY OF BOLOGNA.

 Tue celeluration of the eighth centeuary of the Liniversity of Bologna commenced on June 12 th ; it was attended by the King and Queen of Italy, and by representatives of nearly every existing university of the world; the students of many universities also sent delegates, who met with a warm weleome from the Bolognese students. The universities of the United Kingdow which were represented were Oxford, Cambridge, London, Victoria, Durham, Edinburgh, Glasgow, Aberdeen, St. Andrews, and Dublin. Among the recipients of honorary degrees were Sir Spencer Wells and Dr. Weir Mitchell in mediciue, and Professors Huxley, Cayley, Idams, Sir William Thomson, and Agassiz in science.
## THE CONTROL OF LOCAL AUTHORITIES.

Ax the last meeting of the Committee of the Ilull Sanitary Association a report of a sub-committee on the effect of the Local Gorernment Bill in existing sanitary legislation was considered, and a resolution was passed expressing the opinion that the effect of the Bill would be to leave the powers of control over negligent local authorities in a very unsatisfactory state, and to perpetuate the present unsatisfactory condition of the sanitary oversight of rural districts. The Committee consider that the Bill ought to be so amended that the control of the Loeal Gorernment hoard over defculting local authorities may be preserved. The view generally held by those acquainted with the working of sanitary law that the medical offieers ought to be appointed by and responsible to the County Comeils and not to the District Councils, was also endorsed by the Hull Committee.

## YOUNG MOTHERS.

A CASE of very early child-bearing has occurred at llkeston, the mother being only 12 years old; and a paragraph is going the rounds of the press stating that this is an uuprecedented fact. Though very remarkable, especially in a temperate climate, the ease is not anprecedented. Refereuce was made in this Jocravil eighteen months ago to a ease in which the mother was only $11 \frac{1}{3}$ years old ; and in Barnes's Obstetric Medicine and Surgery several authentic cases of precocieus maternity are cited, notably one by Mr. Dodd, of Billington, who himself attended the labour of a woman on August 8th, 1871, when a girl was born. This girl Mr. Dodd delivered of a healthy child, weighing seven pounds, on Marelı $17 \mathrm{th}, 1881$, just 1 t 7 days before she had reached the age of 10 years. Mr. Dodd supplied Dr. Barnes with anthentic proofs of the facts of this case.

CHRONIC GLANDERS IN MAN.
A Russtan medical paper, the Medizinshoye Obosrenie, states that a young soldier, who had heen a waggoner before his admission into the army, was receivel into the military hospital suffering from two foul ulcers on the hard palate, which had perforated the nasal fosse and destroyed the inferior turbinated bones. Three weeks later a swelling appeared over the left eyebrow, a fortuight afterwards he complained of pain on the inuer side of the left knee around the internal tubernsity of the tibia. Then purulent discharge occurred in the left ear, and an abseess on the back of the right hand, which appeared as a deep purple tubercle, with a hard circumference and sunken towards the centre ; purulent discharge oozed from its surface. At first, for a short time after
admission, the temperature varied, rising of an evening to $103^{\circ}$ or $104^{\circ}$; Inter on it fell to normal. The disease was mistaken for syphilis, and iodide of potassium was given without the least benefit. About ten weeks afler admission he was in better health and left hospital, receiving his discharge from the army. Within a few weeks he returned with extension of the ulceration of the hard palate; the umula was destroyed. The characteristic tubercles, the "farcy buds," appeared in the face, the metastatic abscess on the back of the hand remainel. The patient ultimately died of exhaustion. Before death some of the tubercles were extirpated; they were found to contain micro-organisms resembling the glanders bacillus of Lüfler and Schïtz.

## INTERCOLONIAL MEDICAL CONGRESS OF AUSTRALASIA.

Tire second session of the International Medical Congress of Australasia will assemble at Melbourne, Victoria, on January 7th, 1889, and the sittings will contime on the five following days. The official memorandum, dated April 5th, states that next year has been chosen in order that the session of the Congress may coincide with the Centennial Fxhibition in Melbonrne. The Secretaries have adulressed to us a letter, in which they state that the Congress will be thoroughly representative of the profession in Australasis, and add the expression of a hope that visitors from Europe and America may be able to attend. The means of communication, they say, between Europe and the Colonies are now so rapid and easy thet, with an absence of four months from Furope, a risitor would the able to spend six weeks in the Australian colonies. The Centennial Exhibition will be a remarkable display, and during the time it is opened other technical congresses will he held, and social entertainments, in which the Government of Victoria las promised to lend material assistance, will be provided on a generous scale. Nembers of the Congress will be able to travel at greatly rectuced rates, and any member of the profession intending to be present is promised a most cordial and hospitable reception. The President is Mr. T. N. Fitzgerald, F.R.C.S.I. ; the Treasurer, Dr. George Graham; the IIonorary Secretary, Professor 1I. B. Allen; and the Associate Secretarics, Drs. J. W. Barrett and G. A. Syme. A strong and representative provisional committee has already been formed. All communications should be addressed to I'rofessor Allen, M.D., at the University, Melbourne, Victoria.

THE PHYSIQUE AND DIET OF THE SOLDIER.
In a lecture at the loyal Lited Service Institution, Colonel G, M. Onslow expressed his views on "The Illysique of the Soldier and his Plysical Training," and gave his experience as Inspector of Gymnnsia. A man must eat to live, nad a young man needs both plenty of food and exercise to aid his growth and develnp)ment. The average age of a soldier is now 25 years, the minimum standard in lieight is 5 fert 4 inches, with a chest limit of 33 inches, while 769 men per 1,000 are 35 inches in chest measurement. Our age limit is lower than that of forrign armies, but our minimum standard is ligher. Colonel Onslow says the british soldier has not enough to eat, and that if we cannot give lim more food, we should give him his last meal later than his ten at 4.30, as at present. Military drill is not physical training, and it is said that, per se, the drill does little to render the men stronger and more supple; it is of no use to drill a man until he is made strong, active, and self-reliant by gymnastic traning. Lord Wolseley agreed with the remarks of the lecturer, sad referring to the prospects of army recruiting, expressed his fears that difficulties might occur in the future, from the decline of the physical condition of our young men in towns, and the decrease of the agricultural population. Ife then proceeded to adrocate the prorision of gymnasia in nll Board schools, under the supervision of
good drill instructors. In consildering the fhysique of the young men of London, we are glad to see that a new gymnasimm has been opened in the old Queen's Theatre, Long Acre; the hall is spacious, lofty, well lighted and ventilated, and provided with every appliance and meaus of physical exereise, so that we may hope that something is being done to keep up the jhysique of our young men in London.

## SUTURE OF WOUNDED LIVER.

The Riforma Medica of June ⿹th contains a full account of Professor l'ostempski's operation for wounded liver, of which mention was made in the Jorrnal of May 5 th (p. 992). Antonio A., aged 28, was stabbed under the areb of the ribs, on the right side, on April 18th. The cutaneous tround, which was parallel to the costal margins, was five centimetres in lengih, whilst that of the liver (left lobe) was seven centimètres long, and three in depth at the deepest part. The patient, when seen, was in a state of profound collapse from loss of blood. There was no difficulty about the diagnosis, as exploration with the finger served to disclose the nature of the case. Professor Postempski, who had satisfied himself so far back as 1885, by experiments on dogs, that the liver-substanoe could be stitched without giving way, determined to try that mode of treatment. He accordingly enlarged the wound in the skin by five centimètres, and made a second vertical incision in the middle line across the first. The wounded lobe was pushed forward as far as possible, and, while the pieces of sublimated gauze, with which the wound had in the first instance been plugged, were being withdrawn, six points of chromicised catgut suture were passed through the whole depth of the wound with extremely fine curved needles. The sutures were very carefully tightened as they were introduced, the edges of the wound being at the same time gently pressed together, so that the loop of catgut did not draw them into contact, bat merely kept them in apposition. The sutures were tied in a simple knot, and there was not the slightest laceration of the liversubstance through which they were passed. Hrmorrhage cessed at once, but the critical condition of the patient made it impossible to wash out the peritoneal cavity at all thoroughly, and Dr. Postempski believes that the greater part of the extrarasated blood remained in the abdomen. There was no rise of temperature, however; but, on the second day after the operation, there was very abundant albuminuria, which lasted for twenty-four hours, when it completely ceased. The patient got up on the the cighteenth day, and he is now perfectly well, without any local pain, or any appreciable enlargement of the liver.

## CANCER OF THE LARYNX: THE RESULTS OF TREATMENT.

All the published reports of cases of laryngeal cancer which have been observed in rarious countries since 1880 have been carefully examined and tabulated by Dr. Max Scheier, of Rerlin. His analysis is to be found in the current number of the Dertsche Merl. Hochensekr. (June Fth), and elaborate tables of the cases, 125 in number, are supplied in an appendix to that issue. In these tables the source of information about each case is stated, together with the age and sex of the patient, the actual condition hefore treatment-the laryngoscopic appearance being detailed in most cases-and the treatroent, with its results. Moreover, the tables state whether a microscopic examination was made or not in each case, 80 far as known. The author of this paper acknowledges his indebtedness chiefly to the Internat. Centralh. für Laryngologie und Thinologic, edited by Dr. Felix Semon; the Centralblatt fior Chirurgie; and the Jahreshericht of Virchow and Hirsch. The cases are arranged in six tables. The first table comprises cases in which no operstion was done-four cases, all fatal: the second, cases in which tracheotomy alone was done-seventeen, all fatal
but three; the third table gives the cases in which laryngotomy with extirpation of the tumour was performed, nine in numberin three death ensued within fourteen days, in three there was relapse, two had shown no relapse within the first few weeks, and one remained well nearly three years afterwards; the fourth table gives the partial extirpations of the larynx, twentythrec in number-two died soon after operation, three about a month afterwards, five survived operation but relapsed later on, eight are reported as cured but not observed long enough as to relapse, and five remained well sixteen months and more after operation. One of the latter cases showed no relapse two years after operation, another three years, and another seven years, This last, one of E. Hahn's cases, mentioned in all statistics of the subject, is a case of only partial resection of the larynx. The patient has been recently examined, and the right vocal cord with the riglt arytenoid can be seen to move during respiration. The other cases were treated by Semon, Schede, Störk, and Fränkel respectively. The fifth table gives the cases of total extirpation of the larynx, sixty-cight in number. Of these, eighteen died within a fortnight, and five more soon after wards; seventeen survived the operation, but relapsed within a year (one excepted, but fatal in the second year); six died of intercurrent diseases; thirteen are reported cured, but not observed a sufficiently long time to determine as to relapse, and nine remained free from relapse sixteen montlis and longer. Lastly, the sixth table gives the cases in which an endo-laryngeal operation was performed, four in number. In one swallowing was painless eight days afterwards, the second died in an epileptic fit five months afterwards, the third case affords no data as to the operation, the fourth (B. Fränkel's case) underwent several operations, and remained quite well four years after the last, with a good roice. Dr. Scheier requests the various operators to favour him with the further results in the soveral cases mentioned in the tables so far as known up to the present.

## LIABILITY FOR DEFECTIVE DRAINS.

The verdict in the case of Buther c. Goundry, which was tried last week before Mr. Justice Mathew and a common jury, seems to have heen misunderstood. The action was to recover damages, which the plaintiff alleged he had suffered owing to the reckless misrepresentation (in other words fraud) of the defendant, in stating that the drains of a louse, No. 148 , Brompton Road, were in perfect order. The plaintiff had taken the house in question on lease from the defendant, and his case was that during the negotiations ho inquired particularly about the drains, and was assured that they were all right, und lad only recently been put in perfect repair. Soon after he took the house he and his family hecame ill. The drains were the examined, and found to be most defective. They had never been comected with the sewer, and the soil under the house was saturated with sewagc. The defendant dil not dispute that the drains were in fact defective, but denicd that he knew them to be so, or that he liad made the representations on which the plaintiff relied. He swore that all that he had stated was that "for old-fashioned brick drains they were as good as could be expected." He had had them examined by a builder, who told him he had done what was necessary, and believed thesu to be in fair and grod order. The builder who had examined the drains had to admit himself to be without any proper knowledge of his business, and his examination of the drains must have been conducted most perfunctorily; but there was nothing to show that the defendant knew him to be incompetent, or had any reason to distrust his inssurance that the drains were all right. The jury found their verdict-and they certainly had evidence to justify the finding-that the defendant had no knowledge of the defectivestate of the drains, and himself believed them to be in a fair cenlition, find that his statements to the
plaintiff amounted to no more than this. On that state of facts he was entitled to a rerdict in his favour. In an action of deceit or fraud judgment must go to the defendant, unless it is shown that, with the intention of their being acted on, he made statements which he knew to be untrue, or which, at any rate, he did not believe to be true. Mr. Goundry was found to have seriously believed that the drains were in fair order, and consequently not to lave made a wilful or reckless misrepresentation to his incoming tenant. All the evidence given to prove the defective condition of the drains was therefore immaterial, because the plaintiff failed to prove the fact on which his whole action depended. If it could have been alleged that the defendant had warranted the drains to be in proper order, or that their being in such order was one of the conditions of the tenancy, proof of their being defective would have been most important, and the evidence giren on this head would probably have been conclusive in the plaintiff's favour. The action was not brought on the contract at all, no doubt bocause the plaintiff's legal advisers knew that it would be impossible to prove any contract as to the condition of the drains. The plaintiff's case as to fraud was answered, and he is left without remedy for having suffered in health and been put to considerable expense in rectifying the pestilential condition of his house. The moral of the case is, that intending purchasers or tenants of houses should not rest satisfied with any verbal nssurances as to the sanitary condition of the premises they propose to take. They should either themselves have the place examined by some person in whom they have confidence, or, better still, hare \& clear undertaking in writing, as part of their contract, that the drains are not defective. If the vendor or lessor, being a respectable man, will give such an undertaking, he is pretty sure to have satisfied himself that he may safely do so.

## VENTILATION OF BOARD SCHOOLS.

LigHt and air are essential conditions to growth and good brainwork, especially for school-children. If we wish to make children like and respect our schools, we must make them more attractive than the dull and too often squalid homes from which they come to their daily lessons. Good ventilation is always possible; for besides the ordinary means of natural rentilation, there is always the possibility of mechanical ventilation. The baneful effects of foul air are very obvious in some schools, where we have seen groups of children presenting the signs of exhaustion from this canse-the pale faces, dull eyes, and restless movemeats indicating only too plainly the distress caused by want of free supply of oxygen, and accounting for the inattention complained of by the teachers. This cause of exlinustion is easily removable by proper ventilation, and by preventing overcrowding; this is a state of things that must not be confounded with over-pressure from lessons; no child can work well unless there be elbow-room, and plenty of light and air around. It is very desirable to train children in our primary sehools to value cleanliness, but this valnable lesson will not be efficiently instilled into tho young mind without the supplies of fresh air and light which are needful to invigorate their nerve-system. The mental and bodily exhaustion which arises in a school from want of suflicient ventilation is too often visible, not only in the children, but also in the teachers those of us who have worked many hours in ill-rentilated outpatient rooms know how hard it is to maiatain complete intellectual activity and amiability $t o$ all aronnd in crowded rooms that are wanting in fresh air. Cases of anmmia among female teachers and in the pupils may often he attributed to want of sufficient light and air in school-roous, rather than to too many hours of work. Education ought to teach practically the lawz of health, and should be undertaken under healthful conditions, for the final educational aim should be mens sana in corpore san

THE COUNCIL OF THE COLLEGE OF SURGEONS.
We anmounced, hast week, that Sir Joseph Lister had decided not to offer himself again for re-election. There is a widesjread feeling of regret amongst the Fellows that he has come to this decision, for a surgeon of such world-wide reputation would have proved an ornament to the chair, and Sir Toseph Lister, honoured alike ly his followers, and by those who, on scientilic grounds, oppose his well-known system, is known to be far more in sympathy with reform than are many others who, like himself, stand very ligh in the ranks of the profession. On the other hand, the Fellows and Hemhers appear, as far as we can glean, to admire him as setting a good example in making way for others, and so doing his best to counteract any impression that there are some who seek the questionable pririlege of what is practically permanent membership of Council. The necessity of a reform in the manner of electing the President is becoming more and more evident. There are fire candidates for the three vacancies to be contested on July 5̈th, including Mr. Bryant and Mr. Cadge, who seek re-election. The fire, arranged in order of seniority of Fellowship are: Mr. W. Cadge, of Norwich (F. 1848, M. 1845); Mr. T. Bryant, Gny's Hospital (F. I853, M. 1849) ; Mr. J. Couper, London (F. 1861, M. 1859); Mr. T. Pickering Pick, St. George's (F. 1866, 11. I862) ; and Mr. A. Trehern Jorton, St. Mary's (F. 1867, 11. 1862). The merits of the candidates must he generally known, and the representation of different medical schools in London may safely be left to those most nearly concerned in the matter, by sentiment or hy interest, two ineritable factors in any election. Of the new candidates, Mr. Conper and Mr. Pick are teachers of recognised ability, and the same may be said of Mr. Norton, an earnest adrocate of reform.

## TUMOUR OF THE SPINAL CORD; REMOVAL RECOVERY.

If it he the pleasure and pritilege of knowledge and skill to put health in the place of disease, and comfort in the place of agony, it will he plain to anjone who cares to read that Dr. Gowers and Mr. Victor IIorsley have enjoyed high privilege and reaped full pleasure. If it be a peculiar enjoyment to open a new way for others to like jlleasures and privileges, they will have that special character to their enjoyment. It has been very generally known for some time that by an accuracy of knowledge that is only possible to a few, and a surgical talent that can embody prudence without losing inventiveness, a perfectly new surgical success has been won in lingland, of which we are a little timild as yet in measuring the effects. We are slow in getting used to the idea that under proper conditions of precaution many tumours of the hrain may be removed en masse with the gain of life, and not the losing of it; and now, further, we must grant that the spinal cord, that most inaccessible and inviolable of organs, maj be laid bare of part of its bony coveringman may become for the time and in part an invertebrate-in order that it may be set right, not by the gentlest of manipulations, but ly the surgeon's knife. At the concluding meating of the Royal Mudical and Chirurgical Society, whirh was leld on Tursilay, June 12th, the most important puper of this session, from Dr. Gowers and Mr. V'ictor Horsley, was presented, relating in such detail as the novelty and complexity of the facts demanded a unique case of the sucerssful remoral of a tumour of the spinal dura mater from within the bony canal, and the complete recovery of the patient. It a previous mecting of the Society the patient, a prisate gentleman, an ofieer in the Merchant Sorvice, had most willingly attended to slow to all who carcil to ame them the proofs of what had hern thone to him, and to express bis deep gratitule for the change it had made in his life. Since 1884 he harl had a nearly constant pain under his sho culder-blade, with long fits of agony that maddened him, as
some of his friends said in all serinusness, and with no hyperbole or metaphor. He might well have been glad of some last straw to break his back, and bring him to an end; but science could break his back to more profit. After tlue consideration and explanation, Mr. Victor Morsley lajd bare the spinal column from the third to the serenti dorsal rertebra, and cut off the fourth, fifth, and sixth spinal processes with strong bone-forceps. Ile made his way through the lamine on both sides, and the still more obstinate ligamenta subflava, slit the dura mater up the middle line, and laid bare the spinal cord. When the opening was first made tho injury had been suspected, but the tissues Tere healthy. That the attempt should be abandoned was counselled from some quarters, hut Mr. Horsley preferred to complete his task, removed the posterior part of another superior vertebra, and there found this tumour of the dura mater compressing the cord. It conld easily be shelled out of its deep bed, the wound was carefully closed and drained, and healed by first intention. Slowly the great power of nervous recovery showed itself, and the pain and paralysis disappeared. This is not easy surgery; and the many details, hints, and conclusions that find a place in Mr. Horsley's paper will need careful consideration when we receive it at length in print. It was more than a summer gathering of the Royal Medical and Chirurgical Society could do to discuss it; it must be left to take its permanent place among the forward steps of the progress of the healing art.

## THE HIGH DEATH-RATE OF MANCHESTER.

It is to be hoped that the conference which mas leld in Manclester on June Gth, under the anspices of the Manchester and Salford Sanitary Association, will stimulate the local public health authorities to increased efforts to reduce the high death-rate of the city. At present, as the returns of the Registrar-General shom, Manchester stands in this matter at the bottom of the list of the twenty-eight large towns of England, and has a rate of mortality more than 50 per cent. in excess of that of the whole country. If the $\pi$ hole of England be represented by 1,000 , Manchester has to be represented by $1,57 \%$. The local authorities during the last twenty years hare done much to reduce the deathrate, but more has been effected in other towns. In fact, as one speaker at the conference remarked, Hanchester has been left behind in the race for health. Not so very long ago the death-rate of Liverpool was 39 , while that of Manchester was 26 per 1,000 . Now the Liverpool death-rate is 26 , and that of Manchester is 31.6 per 1,000 . There are undoubtelly many circumstances existing in Manchester, many erils incilental to life in a large manufacturing town, which it is difficult to deal with, except by education and improvements in the modes of living; but there are at the same time many directions in which tlee sanitary authorities can work with immense adrantage. The rivers in the district-the Irwell, the Irle, and the Medlock-are little better than open sewers. There is much overcrowding, not only of persons in dwellings, but of dwellings on area. The cxisting ferer dens should be abolished, and more hreathing spaces should be froviled. More inspectors are wanted to detect imwholesome conditions and secure their abatement, the present number of fourteen boing quite inadequate for a town of $38,0,000$ inhabitants. And last hut not least, the terrible smoke nuisance in Manclester slould be earnestly attacked. The Jlanchester and Salford Sanitary Issnciation hare done much to secure reforms in these and other directions in the past, and lave narned rove than local respect. We hope that their rene-wed efforts will result in further brnefit to the public liealth of the locality.

Dr. Hetniner, of Breslan, who held the rank of Privy Councillor, has just died at the age of $7=$, leaving directions in his will that his remains should be convered to Gotha, and there disposed of by cremation.

## , <br> SCOTLAND.

The list of names of the newly-elected Fellows of the Royal Society includes that of Mr. J. T. Bottomley. M.A., Lecturer on Natural Philosophy in the University of Glasgow. Mr. Bottomley is the author of many investigations in physical science, of which the best known are his research on the conductivity of heat by liquids, and an elaborate research on thermal radiation, published last year in the Royal Society's Transactions.

## GLASGOW SOCIETY FOR THE PREVENTION OF CRUELTY TO CHILDREN.

Turs society is carrying on its operations with marked energy. During May 96 cases, involving the welfare of 127 children, were dealt with. Thirty children had been sent to industrial schools, training ships, and training homes, 28 had been placed in day schools, and 29 under the supervision of the School Board. During the month 92 children had received temporary shelter, 698 meals rere given, and 31 children had been clothed.

FINAL M.B. EXAMINATIONS, GLASGOW.
The final examinations for degrees in Medicine and Surgery at the Iniversity of Glasgow hegan on June Ilth with the Clinical examinations at the Western Infirmary. The examinations in Operative Surgery begins on July 6th; the written examination ou July 9th, and the oral ou July 12tb. There are in all 134 candidates.

## GLASGOW HOSPITAL FOR SICK CHILDREN.

The following appointments have been made to the new dispensary department of this institution:-Extra Honorary Surgeons: A. Eruest Maylard, M.P.; T. Kennedy Dalziel, M.B. ; Quentin McLennan, M.1. Evtra Honorary Physicians: Robert S. Thomson, M.B., D.Sc.; J. Lindsay Steren, M.D.; Charles Workman, M.D.
EDINBURGH UNIVERSITY: NEW ACADEMIC HALL. Ture final step towards the completion of Edinburgh University is about to be taken in the building of the new Academic liall. As will be remembered, the hall is the gift of Mr. Wm. MeEman M.P. Dr. Rowand Inderson. architect, has now so far elaborated the phans that the building operations will shortly commence. The hall will occupy a site in close contiguity to the new medical buildings of the University, and, when completed, will probably stand nnequalled among similar halls throughout the kingdom. It is to be named the NeFwan IIall, after the generous douor.

## THE UNIVERSITIES (SCOTLAND) BILL.-THE COMMISSION.

The constitution of the proposed Scettish University Commission has produced much adverse criticism in Edinburgh. More especially it is felt that the Commission will be weak in representation of the medical faculty. Considering the important part which the modieal faculty plays in the University peliey, in three at least of the four universities, it has appeared surprising that the number of proposed experts for this department should have at first leen limited to one, Sir J. Crichton Browne. The aunouncement of Mr. Briclisen's inclusion in the amended list has, therefore, been hailed with much satisfaction. Still it is felt that, in order to ensure justice in the consideration of the weighty issues whieh the rapid advance and development of medical teaching necessarily raise, the list of medical authorities ought to be extended. The nomination of the Government bas been further assailed by the camp of advanced Uuiversity reformers. It is fully hinted that an excellent Bill has been spoiled through the weakness of the proposed executive.

## ENDOWMENT OF RESEARCH AT EDINBURGH UNIVERSITY.

A strencous effort is being made by the Committee of the Association for the Better Endowment of Edinburgh University in the direction of obtaining more funds for the encouragement of original research in the rarious scientific laboratories. This year the Senatus has been able to make special grants to students who have graduated with distinction, with a view to their prosecuting special studies in foreign unirersities. The terms of the particular endowments necessitated their allocation for travelling purposes ; but it is to be hoped that money will be forthcoming which may have the effect of keeping graduates round their alma mater. where tradition and opportunity ought both to combine in affording stimulus towards the higher work.

## IRELAND.

Ir is announced that Dr. Thompson, of Omagh, who was recently appointed an inspector under the Local Gorernment Board, has resigned.

## PETITION OF RIGHT.

A curtots case came before Chief Baron Palles on Friday, June 8th, when Professor Pye, of Queen's College, Galway, personally appeared to claim compensation from the Crown for loss of fees cousequent on the abolition of the Queen's University and the fonndation of the Royal University in its place. The petitioner is Professer of Anatomy in the Queen's College, and in the course of his argument he said that by Claise It of the Royal University Act provision was made for compensation for the loss of any "office of proht," any " salary," etc. It seemed to him that it Tould be a cramped construction to say that the word "salary" did not include fees. The Lord Chief Baron reserved judgment, which he said he would give only on the facts, learing the questions of law to be decided when the case came before the full Court.

ROYAL ACADEMY OF MEDICINE IN IRELAND. Dr. Robert McDosnell's term of office as President of this body will expire in October next. and Dr. G. II. Kidd and Dr. S. Gordon are candidates for the position. Some hat feeling has already been produced. The physicians claim that it was originally understood that the President should be alternately selected from their ranks and the ranks of the surgeens, and that Dr. Kidd, being an obstetric surgeon, secks to succeed a surgeon. It is a pity that any misunderstanding should occur, and we hope a satisfactory arrangement will be arrived at. The Academy is considered to have been such a brilliant success that all would regret to see it in any way marred.

## THE CASE OF DR. MAGNER.

Thre following commanication has been forwarded to the Clonakilty Guardians by the Local Government Board:-"Adrerting to the resolution contained in the minutes of proceedings of the loard of Guardians of the Clomakilty Linion at their meeting on the D.5th ult., respecting the appointment of Dr. Magner as medical officer of the Timoleague Dispensary district, the Lecal Gorernment Board desire to acquaint the Guardians that they have received the minutes of proceedings of the Timoleacue Dispensary at their meeting on May 21 st, and also Dr. Magner's letter on the subject, and the Board lave informed the committee that as Dr. Magner decliues to give an undertaking not to join in any illegal combination or conspiracy such as that for which he was courricted they therefore refuse to sanction his appointment."

## SCOTCII UNIVEISITE AND COLLEGLATE BILLS.

Criversities (Scolland) bill.-The llouse of Lords went into Committco on this llill on June 7th. Lord Rosebery proposed a dehnition of alliliation, as "such a connection between an existing University and College as shall be entered into by their mutual consent, under conditions approved ly the Commissioners, or after the determination of their powers by the Scattish Universities Comasittee of the I'rivy Council." This proposal met with geveral approral, and was inserted. Lord Watson then inserted a definition of "Collegre" as "an institution established on a permanent footing, for the purpose of teaching the higher branches of education, and which shall bo sufficiently endored, in the opinion of the Commissioners, and after the expiry of their powers, of the University Committee." Considerable objection was taken by Lords Camperdown, Watson, and Fosebery, to the number of the representatires of afliliated colleges on the University Court. 16 was thought that the representatives of the University might be swamped, and Lord liosebery moved an amendment to leave the representation of the Colleges to the Commissioners. This, however, was lost on a disision. Farious other amendments were moved to increase the powers of the Court over property; to enable the Court to appoint certain committees, aud to appoint certain representatives to the governing bodies of affiliated collegea, and on other small matters of detail, but most of them were postponed to the report stage. The Government amendments on the original Bill seem to have so cleared up doubtful points that but little of importance was left for discusaion, and no attack was made on the general principles of the measure. After the Commissioners' names were inserted, the Bill passed througl Committee, and was ordered to be reported. The Commission ia to consist of Lord Kinnear (Chairman); the Dean of Faculty; the Farl of Crawford; Lord Watson; the Marquis of Bute; Dr. A. I. McGrisor; Sir Charles Dalrymple, M.P.; Mr. Geaig-Sellar, M.l': Mr. Donald Crawiord, M.P.; Mr. J. A. Campbell, 11.P: Mr. Vary Campbell; and Sir James Crichton Browne.

St. Mungo': College Bill.-The Glasgow magistrates submitted to the Town Council at its last meeting a minute of dete May 28th, stating that, having carefully considered this Bill and the represeatations made thereon by the directors of the Royal Infirmary and the Senate of the University, and having also had before them the fact that the Government have introduced a Universities Bill, applicable to all the universities of Scotland, under which provisiun is to be made for affliating, incorporating with, or uniting colleges to, any of the universities, and for admitting the tuaching of such colleges as qualifying for graduation in such universities, they reenleal to recommend the Town Council not to take auy action with reference to the St. Mungo's College Bill. The Lord Prorost sail this recommendation was made because it was thought the olject songht might be better secured under the Universities (Scotland) Lill. It was pointed out that the St. Mungo's College was not "incorporated," and could not take advantage of the affiliating clanses of the Universities Bill, and after some discussion the council adopted the following general delisernnen: "That this council is of opinion that in any measure for the hetter administration of the universities of Scotland provision chould be made for the incorporation of institutions as collegw, with a view to leting affliaterl to one of the universities." The Tuts Clurk was instructed to forward a copy of this deliverance to the Sucretary for Scotland.

## THE ASSOCTATION OF MEMBERS OF THE liOYAI COLLEGE OF SUKGEONS.

Tue following letter has been addressed to the llonorary Secretaries of the Aspocintion of Members of the Royal College of Surgrons ly the Clerk to the I'riyy Council.
"P'riry Council Ontice, Whitelall, June Th, 18R2,
" Sme,-I am instructed hy the Lord l'resident of the Council to acknowledge the receipt of your letter of May 31st, transmitting 4 petition adlressed to ller Majesty in Council, praying that the petithon of thitj Shminers of the Royal College of Surgeons, in relouti, in to a proposid supplemental charter to that College and athere papers in ennmection therewith, may be referred for the consileration of the l'rivy Council, or some members therwof, sitting in judicial capacity.
"In reply, 1 an instructed to inform sou that the petition"in
question, together with all other petitions on the subject, was referred by Her Majesty to a Committee of the loords of the Conncil, and that, as no legal question was involved, their lordships did not think it necessary to hear counsel on the subject. 1 am , Sir, your obedient servant,
C. L. $\mathrm{I}^{\prime}$ عgis.
"W. Ashton Ellis, Esq."
The Council hare transmitted the following reply:-
"To the Right Honourable the Lord Iresident of the Privy Counerl.
" 14, Grosvenor Rond, Westminster, S.W., June 12th.
"Sin,-I am instructed by the Committee of the Association of Members of the Royal College of Surgeons of England to acknowledge the receipt of your communication of June 7 th.

I am also instracted by the said Committee to state that they desire respectfully to point out that no reply has as yet been vouchsafed to the prayer of the petition, signed by 4,66511 embers of the Cnllege, and lodged at the Jrivy Council Office on May 3rd, 1887, praying for participation by the Members of the Royal College ot Surgeons of England in the management of their Cullege and other matters, on all of which the said Committee and the general body of Members of the said College most anxiously await your lordship's answer.-I am, Sir, your lordship's most obedient gervant,

Wa. Ashton Ellits,
Honorary Secretary to the Association of Members of the Royal College of Surgeons of England."

## ASSOCIATION INTELLIGENCE.

## COUNCIL. <br> NOTICE OF MEETING.

A mering of the Council will be held at the Offices of the Association, No. 429, Strand (corner of Agor Street), London, on Wodnesday, the 18th day of July next, at 2 oclock in the afternoon.

Francis Fowke, General Secretary.
June 14th, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

Anx qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Couneil or by any recognised Branch Council.
Meetings of the Comncil will be held on July 18tb, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27th, Scptember 26tb, and December 28th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowee, General Secretary.
GRANTS FOR SCIEATIIIC RESEARCH.
The Scientific Grants Committue of the Lritish Medical Association desire to remind members of the prolession engaged in researches for the advancementi of medicine and the allied sciences, that they are empowered to receive applications for grants in aid of such research. Applications for sums to be granted at the next annual meeting should be made without delay to the General Sceretary, at the oflice of the Association, 420, Strant, W.C. Applieations must include details of the preciso character and objects of the research which is proposed.
Reports of work done by the assistance of Association grants belong to the Aesnciation.
Instruments purchased by means of grants must be returned to the Genernl Secretary on the conclasion of the research in furtheranee of which the grant was made.

COLLECTIVE INVESTIGATION OF DISEASE.
Thr Report upon the Connection of Diseaser with Habits of Intemperance, which was presented to the Section of Mrdicine in the Annual Heeting of $18 \pm \overline{\text { a }}$, will shortly be published in the Jolthas.

Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographical Distribution of cerrain Diseases, are in preparation, and will be published as sonn as ready:
The following inquiry only of the first series remains open, namely, that on the Etrology of PhtHisis.

A fresh inquiry into the Origin and Mode of propagation of Epidemics of Diphtheria has been issued.
Memoranda upon these subjiects, and forms for recording observations, may be had on application to the Secretary of the Collectuve Investigation Committee, 429, Strand, W.C.

## bratcil meetings to be held.

abentefn, Baxft, axd fincarnine branch. -The next meeting of this Branch will be held at the Braes of Gight on Wednesday, June 20th, at 1.45 P.M., the President, Dr. Smith, of Kinnairdy, in the chair. Business: 1. Minutes, nomination of new members. 2. Ballot for the admission of Dr. Jenkyna, Belize, British Honduras; Dr. W. L. Mackenzie, Royal Infirmary ; Dr. W. R. C. MidBlitisn Roval Infirmary; Dr. Rnonie, Peterculter; Dr. J. Scott Riddell, 7, Ferrybll Place; Dr. A. M. Will, Royal Infirmary. 3. Notes on Gight and its Fastle, by Dr. Alexander Cruikshank, Aberdeen. An omnibus excursion to the Oastle, by Dr. Alexader Cruikshank, Al Haddou Honse, has been arranged for Braes of Glght, throngh old Melarum at 11.30 A. 35 . A train leaves Aberdeen at $10.20 \mathrm{~A} . \mathrm{M}$. and arrives at Old Meldrum at $11.30 \mathrm{~A} . \mathrm{M}$., Fhere carrages winarne waiting. Dinner (inclusive of attendance but exclusive of wine) in a marquee at the Braes of Gight at 5 s. per hesd. Armangements have been made for from hers from Buchan to drive from Mand Junction ( 11.15 A. H.), and for those from Banf from Fyvic ( 1.15 P.M.) to the Braes of Gight, in time ior the meethe north dinner, and returning to eatch later down traine. Membera from the north will meet the party at inverurie st 10.50 , those from 5.95 P.M.. arriving la AberAberdeed st 10.20 . Aenains are lavited to bring medical frlends.- Robert Joers Garder aud J. Macreszie Booth. Honorary Secretaries.

Border Countifs Branch. - The twenty-first annnal meeting of this Branch will be held at Penrith on Friday, Jnly 13th. The chair will be takea by Dr. Mcleod st $1.30 \mathrm{p}, \mathrm{M}$. The usual election of office bearers ior the year wintimabeld. Dr. Robertson, Penrith, will deliver his presideatial address be sent to tions of papers for reading or communteations of any kind should be Bent io the Secretary as soon Honorary Secretary.
Campridgesitire and Iltixtivgnoxshire Branch. The annual meeting of this Branch is appointed to be held at Ely on Friday, July 6 th. Members wishing to make communications, to exhibit specimens, or $n$ bropose new members are requested to signify their intention to Dr. Anaingson, Cambridge, for insertion in the order of proceedings.-Bushela Axvisgsos, Honorary Secretary.
Gloccesterstirf., Worcestershire, axd Herrfordshire Braxches. The conjoint meeting of these Jranches will be held, under the presidency of Dr. Currie, at the Thell Itotel, Gloucester, on Tuestay, June 19th, when Dr. J. Hughlinga Jackson will deliver au address on "The Dlagnosis of Brain Dlsease. The meeting will be at 4 , and dinaer at 6 P.m.-G. Artal's Cardew, G. W. Cbowe, Honorrry Secretaries, Cheltenbam.

Metropolitax Cointife Branch. - The thirts-sisth anmual mecting of this Branch will be held at the Holbora Restaurant on Wednesday. Juae 2ith, $1 \times 48$, at 0.30 P.M. President, Arthur E. Durham. Esq., F..R.C.S. ; Presidentelert, C. Brodie Scwell, M.I. An andress will be given br the new President.
 it D . preciscly the members wil dine IVistes M.B.,69. Connaught Sirect. W.; E. Noble Smitir, F.R.C.S., 2t, Queen anuc Street, W., Honorary Secretaries.

Nortif of Iretand Branch. -The anmal mecting of this Branch will be held in the Belfast Royal II ospital, on Weducsday, July 11th, at 4 r.s. Gentlemen who desire to read papers or to bring any other husincss before the meetmen will kindly communicate as early as possible with the Secretary, Joux W. Byers, M.D., Lower Crescent, Belfast.
Reaning and Uppfr Thamfg Brasch.-The annual meeting of this Branch will lic held in the Library of the hoyal Berkshire Itospital, Reading, on Wednesday, July lith, at 4.15 P.M. The chair will be taken by the President (Dr. C. 11. Tench), who will introduce the President for the coming year (W, B. Nolderness, Esq., of Windsor), who will then take the chair. Members willing to read sliort papers or bring forwaril eases of rlinical interest are requested to commmpieate with the Monorary Secretary without delay. The anmual dinnce will take place on the amme evening at $8.15 \mathrm{p}, \mathrm{M}$., at the Qucen's Hotel, Reading. Vinner tickets ( 5 s . without wine, or 10 s . incluling wine) should be obtained Dinner tickets ( 5 s. หithout wine, or hasore Saturdiy, July fth.-II. Hexaate I'mblifs, 43A, Londou lioad, Reading. Honomry seeretary.

Soutir-Wfesterx Braxch.-The annual mecting of this Branch will the beld at the Devon anil lixcter Hospital, Exeter. on Tucsday, June 2oth, held at the Devon anit presicney of Dr. John Hoodman, F.R.C.S. Notices of motion or communications to be intimated to the Honorary Secretary without delar, and it will facilitate arrangements if members will inform the Honorars delay, and it will facilitate arrangements if members womt at the neeting. The Secretary as soon as piossible if they hope to he present at 2ne :- "That inasfollowing motion was passed at the Council Mceting on May 2nd:- "That inasmuch as the annual mecting assumes more or less the eliaracter of a day of
the annoal meetIng shall be confined to the President's ald ress, the business of the Branch, the exhibltion of cases or of apecimens with notes, and the ofnnal dinuer."-P. Matry Deas, Wonford House, Exeter, Honorary Secretary.

South Wales axd Monmotth Brasch. -The elghteenth snnual meeting of this Brauch will be held at the Infirmary, Cardiff, on Wednesday, June 27 th. Further particnlars in circulars. Members wishing to read papers, etc., are requested to send titles to Dr. sheen.-A. Shees, M.D., Cardif, D. Abthur Davies, M.B., Swansea. Honorary Secretaries.

West Somprest Braxch.- The snnual mecting of thils Branch will we held st the Squirrel Hotel. Wellington, on Thursday, Junc 23th, at 4 oclock. Abraham Collez, Fsq., Mr.D.. President-elect, will take the chair on ita being vacated by Edward Stephens, Esq. The dinaer will be at 6 oclock. Members desirous of readiog a paper or making a communicatiou to the meeting are requested to gire early notice to the lonoraty secretary, innual dinner. requested to give early notice of their intention of attending the annual dinner. requeste. Kelily, M.D., llonorary Secretary.
Yonismire Braxca.-The snuual meeting of the Yorkshire Branch will be beld it the Mnsenm of the Yorkshire Philoaophical Society at York on Wednesdar. June 2 Ith when the represeatatives of the Branch on the General Connei and teading to read papera and show specimens, are requested to communlcate at once with Arteub Jaceson, Secretary, Sheffield.

## EAST YORK AND NORTH LINCOLN BRANCH.

THE thirty-second annual meeting was held on May 30th. There were thirty-eight gentlemen present.
Report of Council.-The retiring President, Mr. Thourpson, haring resigned the chair to his successor, Dr. Frank Nicholson, report minutes haring been read, the Secretary read a brief Branch, made a statement.
Election of Council, 18SS-S9.-President: J. N. Nicholson, II.D. President-Elect: J. Merson, M.D. Ex-President: H. Thompson. Vice-Presidents: E. O. Daly, M.D.; E. H. Howlett. Secrctary and Treasurer: E. P. Harder. Representative of the Branch: J. Dir. Representatice on the Parliamentary Bills Committee: R. H. B. Xicholson. Council: W. C. Appleton: T. M. Erans: G. F. Eliiott, M.D.; M. D. Maeleod, M.B.; D. Lowson, M.D.; II. W. Pigeon, M.B.; J. A. Locking ; C. II. Milburn, MF D.

Appointment of Medical Offcers of Health.-Mr, Robent II. Botrchier Nicholson proposed the following resolution: "That the interests of the public would be best served by the appointment of medical officers being entirely vested in the county Councils, instead of the District Councils, as arranged in the Local Gorernment bill." This was supported by Dr. Macleod, and opposed by Mr. Appleton, Mr. Keetlet, and Mr. Dix. On a rote being taken, Mr. Xicholson's resolution was earried.

New Members.-Dr. Horley, of Bartou, and Mr. Williams, of Ilull, were elected.

Grants of Money.-Grants of $£ 2$ s. were roted to the Medical Benerolent Fund aud to the Royel Medieal Benevolent College.

Papers and Cases.-A child with a large mixed nevus on the shoulder was exhibited by Mr. Evans.-Dr. Pigeon gare a demonstration of the method of applying tlannel and plaster-of-Paris splints, and spoke of their advantages.-Mr. Evass read the notes of two eases of tumour of the bladder. In the first, a papillomatous growth was removed by suprapubic operation; the patient was shown. In the second, external urethrotomy was performed to explore the bladder, when a broad-based malignant growth was discovercd; rigors and high temperature follotred, and the patient bladder the fourteenth day. One kidney was disorganised and the blader ulcerated.-Mr. R. II. Bounchier Ficiolsos read the notes a case of removal of the whole of the interior of the os calcis. Mr. Nicholsou also read notes of two eases of removal of
calculi from the kidney, and showed the calculi remored. Ie also exhibited calculi remored post mortem from two other cases. -Dr. Fintrard Daly read a paper on the hypodermic injection of morphine.

Flead Injury.-Mr. Tomalin exhibited a patient who had been run orer by a furniture van. His frontal bone was dislocated at being jature, and was lring on the right cheek, the orbital plate being jammed into the brain. The orbital plate was remored, and a dree drain was established from the frontal sinus down the nose, and the parts replaced. He had opium every four hours, and Surgical without a bad symptom.
Hessrs. Woodstruments.-urgical instruments were exhibited by Dimer.- of York, and Messrs. Lynch, of London.
Hotel Hrom the President was cordially congratulated on his recorery from his recent severe illness.

## SCOTCII UNIVERSITE AND COLLEG1ATE <br> BII.Ls.

Eniversities (Scotland) Bill.-The IIouse of Lords went into Committee on this Bill on June 7 th. Lord Rosebery proposed a definition of affiliation, as "such a connection between an existing University and College as shall be entered into by their mutual consent, under conditions approved by the Commissioners, or after the determination of their powers by the Scottish Universities Committee of the ['rivy Council." This proposal met with general approral, and was inserted. Lord Watson then inserted a definition of "College" as " an institution established on a permanent fooming. for the purpose of teaching the higher branches of education, and which shall be sufficiently endowed, in the opinion of
the Commissioners, and after the expiry of their powers, of the University Committee." Considerable objection was taken by Lords Camperdown, Watson, and Rosebery, to the number of the rejresentatives of afliliated colleges on the University Court. It was thought that the representatives of the University might be swamped, and Lord Rosebery moved an amendment to leave the representation of the Colleges to the Commissioners. ments were mored to increase the powers of the Court over property ; to emalle the Court to appoint certain committees, snd to appoint certnin representatives to the governing bodies of affiliated colleges, and on other small matters of detail, but most of them were postponed to the report stage. The Government amendments on the original Bill seem to have so cleared up doubtful points that but little of importance was left for discussion, and no attack was made on the general principles of the measure. After the Commissioners' names were inserted, the Bill passed through Committee, and was ordered to be reported. The Commission is to consist of Lord Kinnear (Chairman); the Dean of Faculty ; the Earl of Crawford: Lord Watson; the Marquis of Bute; Dr. A. B. McGrigor: Sir Charles Dalrymple, M.P.; Mr. Craig-Sellar, M.Y.; Mr. Donald Crawford, M.I.; Mr. J. A. Campbell, M1.P.; Mr. Yary C'amphell; and Sii James Crichton Browne.
St. Wungo': College Bill.-The Glasgow magistrates submitted to the Town Council at its last meeting a minute of date May 28th, stating that, having carefully considered this Bill and the representations made thereon by the directors of the Royal Infirmary and the Senate of the University, and haring also had before them the fact that the Government hare introduced a Universities Bill, applicable to all the unirersities of Scotland, under which provision is to be made for affiliating, incorporating with, or uniting colleges to, any of the universities, and for admitting the teaching of snch colleges as qualifying for graduation in such universities, they resolved to recommend the Town Council not to tate any action with reference to the St. Mungo's College Bill. The Lord Provost said this recommendation was made because it was thought the oljeet sought might be better secured under the Unirersities (Scotland) Bill. It was pointed out that the St. Mungo"s College was not "incorporated," and could not take advantage of the affiliatiug clauses of the Universities Bill, and after some discussion the council adopted the following general deliverance: "That this council is of opinion that in any measure for the better alministration of the universities of Scotland provision should be made for the incorporation of institutions as colleges, with a view to being affiliated to one of the universities." The Tosn Clerk was instrueterl to forward a copy of this deliverance to the Secretary for Scotland.

## THE $\triangle S S O C L A T I O N$ OF MEMBERS OF THE ROYAL COLLEGE OF SURGEONS.

Tup following letter has been addressed to the Honornry Secretaries of the $A$ ssociation of Members of the Royal College of Surseons by the Clerk to the I'riyy Council.
"I'riry Council Office, Whitehall, June 7th, 1888.
"Sme,-l am instructed hy the Lord l'resident of the Council to acknowledge the receipt of your letter of May 3Ist, transmitting * petition addressed to Her Majesty in Council, praying that the petition of 4,6653 tembers of the Royal College of Surgeons, in relation to a proposed supplemental charter to that College and othe: papera in connection therewith, may be referred for the consilleration of the l'rivy Council, or some members theroof, sitting in judicial eapacity.
"In reply, ] am instructed to inform you that the petition"iu
question, together with all other petitions on the subject, was referred by Her Majesty to a Committee of the Lords of tho Council, and that, as no legal question was involved, their lordships did not think it necessary to
C. L. Peel.

1 am, Sir, your obedient servant,
"W. Ashton Ellis, Esq."
The Council hare transmitted the following reply :-
"To the Right Honourable the Lord President of the Priny Councll.
" 14, Grosvenor Road, Westminster, S.W., June 12th.
"Sin,-I am instructed by the Cormmittee of the Association of Members of the Royal College of Surgeons of England to acknowledge the receipt of your communication of June 7 th .

I am also instructed by the said Committee to state that they desire respectfully to point out that no reply has as yet been rouchsafed to the prayer of the petition, signed by 4,665 Members of the Cnllege, and lodged at the Privy Council Office on May 3rd, 1887, praying for participation by the Members of the Royal College of Surgeons of England in the management of their Collego and other matters, on all of which the said Committee and the general hody of Members of the said College most anxiously await
your lordship your lordship's answer.- 1 am, Sir, your lordship's most obedient Wm. Ashton Ellis,
Honorary Secretary to the Association of Members of the Royal College of Surgeons of England."

## ASSOCIATION INTELLIGENCE. <br> COUNCIL. NOTICE OF MEETING.

A meeting of the Council will be held at the Offices of the Association, No. 429, Strand (corner of Agar Street), London, on Wednesday, the 18th day of July next, at $20^{\circ}$ clock in the afternoon.

Francis Fowse, General Secretary.
June 14th, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

Any qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.
Meetings of the Council will be held on July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-oue dnys before each meeting, namely, June 27 th, September 26th, and December 28th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowne, General Secretary.
GRANTS FOR SCIENTIFIC RESEARCLI.
$T$ me Scientific Grants Committee of the British Medical Association desire to remind members of the profession engaged in researches for the advancement of medicine and the allied sciences, that they are empowered to receive applieations for grants in aid of such researeh. Applications for sums to be granted at the next annual meeting should be made without delay to the Qeneral Secretary, at the office of the Association, 420, Strand, W.C. Applications must include details of the precise character and objects of the research which is proposed.
Reports of work done by the assistance of Association grants belong to the Association.
Instruments purchased hy means of grants must be returned to the General Secretary on the conelusion of the research in furtherauce of which the grant was made.

COLLECTIVE INVESTIGATION OF DISEASE.
Thr Report upon the Connection of Disease with Habits of Intemprerance, which was presented to the Section of Medicine in the Annual lleeting of 188T, will shortly be published in tho Joctrnal.

Reports upon the two remaining inquiries, namely, that into Dipititieria, and that into the Geographical Distribution of certain Diseases, are in preparation, and will be published as son n as ready.

The following inquiry only of the first series remains open, namely, that on the Etiology of Phthisis.

I fresh inquiry into the Origin and Mode of Propagation of A resh inquiry into the ora has been issued.
Memoranda upon these subjects, and forms for recording observatons, may be had on application to the Secretary of the Collective Investigation Committee, 429, Strand, W.C.

## branch meetings to be held.

Abendekn, Batty, and Kincardine Brasch.-The next meeting of this Branch will be held at the Braes of Wight on Wednesday, June moth, at M.4.5P.M., he President, Dr. Smith, of Kinnairdy, in the chair. Briars. Jenkyns, Belize, nomination of new members. 2. Ballot for the ad Infirmary; Dr. W. R.C. MdBritish Honduras; Dr. W. L. Mackenzie, Royal Inter; Dr. J. Scott Riddell, 7, alleton, loyal Infirmary; Dr. Fannie; Infirmary. 3. Notes on Gight and ta Ferryhll Place; Dr. A. M. Will, Royal Infirmary. A. Nomibus excursion to the Ferrule, by Dr, Alexander Cruikshank, Aberdeen. An omnaus been arranged for Castle, by Dight, through the grounds of Haddon House, has leaves Aberdeen at Braes of Gight, throng Old Meldrum at 11.30 A.M. A train leaves Abserll be in those who can meet at Old Meldrum at 11.30 A . M., Where carriages will be in gee 10.20 A.M. and arrives at old of attendance but exclusive of wine) in a margewaiting. Dinner (inclusive or attend. Arrangements hare been made for mem at the Braes of Gight at ss. per hand Junction ( 11.15 A.M.), and for those from hera from Buchan to drive from Maud Junctionght, in time for the meeting and Banff from Erie ( 1.15 p.h.) to the Braes of Gizmos. Members from the north dinner, and returning to catch later down thane from the south and Deeside at will meet the party at inverurle at 10.50 . those rom 5.25 P.M.. arriving in AberAberdeen at 10.20 . A train leaves Old Meldrum at tical frlends.-Robear Joins ten at $6.40 \mathrm{P} . \mathrm{M}^{2}$. Members are invited to bring medical
Garoex and J. Mackenzie Booth, Honorary
Border Cotsties Brach. - The twenty-first annal meeting of this Branch ill be held at Penrith on Friday. July 13th. The chair will be taken by br. Mcleod at $1.30 \mathrm{P} . \mathrm{M}$. The usual election of office bearers ital address. Intimaheld. Dr. Robertson, penrith, will deliver bis presidential address. int ert to lions of papers for reading or communleat loans of any kind should bet, Carlisle, Honorary Secretary.

Candamgesiute sd IItatingnorshire Braxch.-The annual meeting Canbamarh is appointed to be held at Ely on Friday, July eth. Members of this Branchake communications, to exhibit specimens. or wishing to makested ta signify their intention to Dr. Anningson, Camorary meanders are in tho antler of proceediags.-BuSEELL ANNIXGSON, Honors for insert
Secretary.
 GI.OCCESTERSMAF, WORCEARMES Brazes be held, under the presidency of Dr. conjoint meeting of hotel. Gloucester, on Tuesday, June 19th, when Dr. J. curries, at the sell will deliver an address on "The Diagnosis of Brain Disease. Hughlings Jackson will deliver an address on p.a.-G. Abteler Cardew, G. W The meeting will be at 4, and Cheltenham.
Cbuwe, Honorary Secretaries, Cheltenham.
Metropolitan Counties Bravch.-The thirtr-sixth annual meeting of this Matropalitas Branch will be weld President, Arthur E. Durham, Esq., F.l.C.S. i President. 1888, at 0.30 P. 3 . President, Artaddress will be given br the new President. lect, C. Brodie Scwell, M.D. An address together: C. Brodie Swell, Esq., At if P.M. precisely the members will ane fa, each, exclusive of wine. -GEORGE iL.D., President, in the chair ; theketa, is. bd, each, exchisy, F.13.C.S., 24, Queen Estes, M.B...64, Connaught St rect, W.
Anne Street, W., Honorary Sceretariea.
隹 (he annual meting of this Branch will be North of Ireland Braxcif.-The annual meeting of th, at 4 poM. Gentle held in the Belfast Royal liospital, on wing any other business before the meetmen who desire to read papers or to bring any other that hess Secretary, Jour W. ing will kindly communicate as early
BYERs, M.D., Lower Crescent, Belfast.
Reading and Upper Timanfes Francis. The annual meeting of this Branch Reaming and Upper ill he held in the literary of loyal Berkshire hospital, Reading, on Wed will be held in the library of the The chair will be taken by the President ( B . nesday, July lith, at 4.15 P.M. (. H. Tench), whoa will introduce will then take the chair. Members willing Lolderness, Esq., of Windsor). Who will eases of clinical interest are requested to to read short papers or bring forward eases of ehonit delay. The annual dinner communicate with the Honorary Secretary without delay. will take place on the same evening at b.15 P.M.. at the Quechsuld be obtained Dinner tickets ( 58 , without when, or los. Including wine) shoth.-H. Ifexgate rom the llonorary Secretary on or before Saturday. July
rumbles, 43s, London load, Reading. Honorary Secretary.
Snute-Westerx Braxcti.-The annual meeting of this Branch will be Socte-we lection aud lixeter Hospital, Fixeter. on Tuesday, June 26th, held at the residency of Dr. John Woodman, F.i.C.S. Notices of motion under the presidency o be intimated to the Honorary Secretary without or communicatillacilitate arrangements if members will inform the Honorary delay, and it will acnitatc arts if they hope to be present at the meeting. The Secretary as soon th s possible it Council Meeting on May and:- "That innsfollowing motion was passed at the Com more or less the character of a day of following motion was passed at the Comes more or less the character of a day of
much as the annual meeting assumes
recreation, and with a view of euconraging the district meetings, the business of
he annual meeting shall te confined to the President's address, the harness of the Branch, the exhibition of cases or of specimens with dotes Honorary annual dion. Mat'bi Leas, Wouford House, Secretary.

Snctir Walks asp Monsocth Branch.- The eighteenth annual meeting this Branch will be held at the Infirmary, Carilif, on Wednesday, Jude 2, th. Further particulars in circulars. Members wishing to read papers, etc., Ares requested to send tidies. 1 moray Secretaries.
DAVIEs, M.B., Swansea, 1 Honorary Secretaries.
Wast Somprsfa Branch. - The annual meeting of this Branch will be held at the Squired Hotel. Wellington, on Thurgasy, June chair on to being Graham Doles, Esq. M.D.. President-elect, will take the chair on oclock. vacated by Edward Stephens, Esq. The dinner will Members desirous of readiog a paper or makiog a communication they are also ing are request cd to give early notice to the ion of attending the annual dinner requested to give M. KELLT, M.D., Honorary Secretary.
Yonesaipe Brarca. - The annual meeting of the Yorkshire Branch will be YoRESEIRE Brach.- The Yorkshire Philosophical Society at York on Wed held in the Museum of the representatives of the Branch on the Genera nesday, June 2ith, when the repressing year will be elected. Members inCouncil and the amirs a tending to read papers and sion, Secretary. Sheffield.

EAST YORK AND NORTII LINCOLN BRAYCII.
THE thirty-second annual meeting was held on May 30th. There there thirty-eight gentlemen present.

Report of Council.-The retiring President. Mr. Thompson, having resigned the chair to his successor, Dr. FraNK Nichoison, and the minutes having been read, the Secretary read a brief report of the Council, and Mr. DIr, the representative of the Branch, made a statement.
Election of Council, 18SS-S3.-President: J. N. Nicholson, M.D. President-Elect: J. Merson, M.D. Er-President: H. Thompson. Tice-Presidents: E. O. Daly; M.D.; E. H. Howlett. Secretary and Treasurer: E. P. Harder. Representative of the Branch: J. Dir. Representative on the Parliamentary Bills Committee: R. H. B. Nicholson. Council: W. C. Appleton; T. M. Evans: G. F. Eliot, M.D.; M. D. Macleod, M.B.; D. Lawson, M.D.; H. W. I’igeon, M.B.; J. A. Locking; C. H. Milburn, MD.

Appointment of Medical Officers of Health. -Mr. Robert H. Botrichier Nicholson proposed the following resolution: "That the interests of the public would be best served by the appointment of medical officers being entirely vested in the County Councils, instead of the District Councils, as arranged in the Local Government Bill." This was supported by Dr. Macleod, and opposed by Mr. Appleton, Mr. Keetley, and Mr. Dix. On a rote being taken, Mr. Nicholson's resolution was carried.

New Hembers.-Dr. Morley, of Barton, and Mr. Williams, of Hull, were elected.

Grants of Money. -Grants of $£ 2$. Were rated to the Medical Benevolent Fund and to the Royal Medical Benevolent College.
Papers and Cases.-A child with a large mixed nevus on the shoulder was exhibited by Mr. Evans.-Dr. Pigeon gave a demonstation of the method of applying flannel and plaster-of-Paris splints, and spoke of their adrantages.-Mr. Etas read the notes of two cases of tumour of the bladder. In the first, a papillomatous growth was removed by suprapubic operation; the patient was shown. In the second, external nrethrotomy was performed to explore the bladder, when a broad-based malignant growth was discovered; rigors and high temperature followed, and the patient bladder ulcerated. -Mr. R. 11. Bourchier Nicholson read the bates of a case of removal of the whole of the interior of the os chalcis. Mr. Nicholson also read notes of two cases of removal of calculi from the kidney, and showed the calculi removed. He also exhibited calculi removed post mortem from two other cases. -Dr. EDward Dali read a paper on the hypodermic injection of morphine.

Mead Injury. -Mr. Tomalin exhibited a patient who had been run over by a furniture van. His frontal bone was dislocated at the suture, and was ring on the right cheek, the orbital plate
being jammed into the brain. The and a free drain was established from the frontal sinus dower the nose, and the parts replaced. He had opium every four hours, and recovered without a bad symptom.

Surgical Instruments. - Surgical instruments mere exhibited by Messes. Wood, of York, and Messes. Lynch. of London.

Dinner. -In the evening the members dined at the Vitoria Hotel. The I'resident was cordially congratulated on his recovery from his recent severe illness.

## HETLOPOLITAY COUNTYES BRINCIE HESTERN DISTRICT.

The last meeting of the District for the present season was held at the St. Marylebone Infirmary, Notting Hill, on Thesday, June 5th. In the absence of the Vice-President. Dr. Sinclatr Thomson was voted to the chair. Nineteen members and visitors were present.

The mimutes of the preceding meeting were read and confirmed.
Treatment of Eye Affections.-Mr. Henry P'ower read a paper on some points in the treatment of injuries and diseases of the eye, in the course of which he drew attention to the value of eserine and atropine respectively in cases of cuts of the cornea near the centre and near the periphery, prior to any attempt being made to reduce prolapsed iris. Ile also dwelt upou the great importance, in many cases of wounds of the eye, of applying a pad and bandage to both eyes instead of to one. Yarious cases were adduced in which, by the adoption of the principle of complete rest to both eyes, dangerous wounds of the ciliary region had completely recorered. Some remarks were also made on the treatment of cuts of the lids and of burns with lime.-A discussion took place, in which Dr. Sinclama Thomson, Mr. Lamb, and Mr. Lenn took part, and MLr. Power replied.

Cases.-Mr. Luxn then exlibited an interesting group of male and female patients, to the number of twenty-three, including five cases of locomotor ataxy, two cases of glancoma, as well as rarious examples of iritis and cataract. Three most interesting cases of myxodema, a case of osteitis deformaus, a case of ichthyosis of the tongue, one of popliteal aneurysm (cured), as well as examples of lateral and disseminated sclerosis, were among the diseases brought before the meeting.

Re-election of Officers.-The present officers of the District were then unanimously re-elected. and the proceedings closed by a hearty rote of thanks to Mr. Power, Mr. Lunn, and the Chairnian.

## BATH ANTD BRISTOL BRANCH.

Thb sixth ordinary meeting of the session was heid at the Huseum and Library, Bristol, on Wednesday, May 30th, G. F. Brader, M.D., President, in the chair. There were also preseut forty-six members and two visitors.

Nevo Members.-The following gentlemen were elected: J. L. Livingston, M.A., M.D., M.Ch. R.U.I., Bristol: W. N. Nevill, M.E., B.Ch.T.C.D., Bristol; F. Woods, M1.R.C.S., L.R.C.I., Bath; C. E. F, M. Biggs, M.R.C.S., Malmesbury ; F. E. Pearce, M.D., Frome.

Joint Meeting.-An invitation from the Gloucestershire Branch to a joint meeting at Gloucester with the Worcestershire and Herefordshire Branches was cordially accepted.

Lunacy Acts Amendment Bill.-After a prolonged discussion this subject was referred to a subcommittee consisting of Drs. Harrison, Honville Fox, Marshall, Shaw, and Mr. Scott, with power to take such steps as they might think fit.

C'ases.-Dr. F. St: John Kemm exhibited a case of Graves's Disease successfully treated with strophanthus.-Dr. J. Micheli Clarie exhibited two cases of Pseudo-hypertrophic Paralysis, npon which Drs. Wigan and Markhay Skermitt made some observations.-Mr. IF. J. Penny exhibited four cases of "Bonesetting," which Mr. Cross commented upou.

Papers-- 1 fr. C. F. Pickering read a paper on the Treatment of Discharge from the Ear, which was discussed by Mr. Marsant, Dr. Swayne, and Mr. Ewens.-Dr. J. (r. Swayne read a paper on The Hour of Delivery. Drs. Bednoge' Aust Latmeact, Waugh, Hinton, Descan, and the President joined in the discussion which followed.-Dr. H. Waldo read a paper on Limbolic Ilemiplegia.

## BRITISH MEDICAL ASSOCIATION.

## FIFTY-SIXTH ANNUAL MEETING.

The fifty-sixth Annual Meeting of the British Medical Association will be held at Clasgow, on Thesday, Wednesuay, Thursday, and Friday, August 7th, 8th, 9th, and 10th, 1888.

President: John T. Banks, M.D., D.Sc.(Hon.), F.K.Q.C.P.I., Regius Professor of Physic in the University of Dublin.

President-Eilect: Professor W. T. Gairdner, M.D., LL.D., Professor of Medicine in the University of Glasgow.

President of the Council: Thomas Bridgwater, M.B., J.P., Har-row-on-the-Hill.

Treasurer: Constantine Molman, M.D., J.P., Reigate.
An Address in Medicine will be delivered by Thomas Clifford

Allbutt, II.D., F.R.S., Consulting Physician, Leeds General Infirmary.
An Address in Surgery will be delivered by Sir George II. B. Macleod, M.D., Surgeon in Ordinary to Ifer Majesty in Scotland.

An Address on his "Recent Investigations in Surgery" will Le given ly William Macewen, M,D., Lecturer on Clinical Surgery, Glasgow Royal Infirmary.
An Address in Physiology will be delivered by John Gray MfcKendrick, M.D., LL.D., F.F.S., Professor of Institutes of Medicine, University of Glasgow.
All the rooms required for the purposes of the meeting will, by the kindness of the authorities, beprovided in the University of Glasgow.

Programme of Proceedings.
TuEsDat, August 7ra, 1888.
9.30 A.s.s. - Meeting of $1387-1888$ Council. Pandolph Hall.
11.30 d. x .-First Genieral Meeting. Report of Council. Reports of Committees. Bute Hall.
4 P.M.-Service in the Cathedral. Sermon by the Teiry Rev. John Caird, D.D. 1 LL.D., Principal and Viee-Cliancellor of the U'niversity of dlasgow.
8.30 p.3r.-Adjourned General Meeting from 11.30 A.s.m. President's Address. Bite Hall.
Wennesday, Atgust ste, 1888
9.30 A.sr. - Mreeting of 1888-89 Council: Randolph Hall.
10.30 A.M. to 2 P.M.--Sectional Meetings.

3 P.3s.-Second Geeneral Meeting. Address in Medicine by Tbomas Clifford Allbutt, M.D., F R.S. Bute Hail.
9 p.m.-Conversazione given by the Professors of the University? Thursday, Adgust 9 th, 1888.
9.30 A. . . - Adress on his Recent Surgical Investigations by 11 A.ss.- Meetiag of Council. Mandolph Hall.
10.30 A.M. to 2 P.M. - Sectional Meet ings.

3 p.s.-Third General Meeting. Address in Surgery by Sir George II. B. Nacleod, M.D. Bute Hall.
i p.m.-Public Dinner. St. Andrew's Hall.
Frider, August 10th, 1858.
10.30 A.X. to 1.30 P.M. - Sectional Meetings.

3 p.M.-Concluding General Meeting. Address in Physiology by John G. McKendrick, M.D., F.R.S. Phillosophy Class-room.
9 p.m.-Conversazione given by the Carporation of Glasgow at St. Andrews Hall.
Garden Party given by the Facult of Physicians and Surgeons at the Botanic Gardens.
Saturdax, AUGUST 11 TH, 1888.
Exeursions.
The following discussions and papers are promised up to the present time.

> Section A.-Medicine.
> Humanity Class Room.
A. Medicine.-President, Professor T. MeCall Anderson, M.D. Tice-Presidents, K. L. Bowles, M.D.; George F. Duffey, M.D. Honorery Secretaries, J. McGregor Robertson, M.A., M.B., 400, Great Western Road, Glasgow; Robert M. Simon, M.D., 27, Newhall Street, Birmingham.
The President will open the proceedings by introducing a discussion on the Diagnosis and Treatment of Syphilitic Disease of the Nerrous System. Dr. Thomas Buzzard, Dr. T. S. Clouston, Dr. William Moore, Dr. Ross, Professor Grainger Stewart, Professor Julius Dreschfeld, Dr. J. G. Sinclair Coghill, Dr. Francis Warner, Dr. Frederick Bateman, and Dr. C. IF. Suckling will take part in the discussion.

On the third day of the sectional proceedings, the Value of Inhalations in the Treatment of Lung Disease is set down for discussion, to be opened by Dr. C. Theodore Williams. The following gentlemen have already indicated their intention to engage in this discussion: Dr. Burney Yeo, Dr. W. W. Irelaud, Dr. C. F. Knight, Dr. 1. A. Lindsay, Dr. J. (i. Sinclair Coghill, and Dr. E., Dfarkham Skerritt.

Drs. Byrom Bramwell and Milne Murray will give a demonstration of their Method of Graphically Recording the Exact Time Relations of Cardiac Sounds and Murmurs.

The following papers have been promised.
Coghtri, J. Gi. S. OM.J. Ventror. The Treat ment of Phthisical Pyrexia.
Frivax, David W., B.A.. M.D. Broncliectasis treated by. Incision and Drainaqe.
FREW. W. M.D., Kilmarnock. Prevalence of Cerebro-spinal Fever in Scotland. GREENE, G. E. F., L.K.Q.C.P. A Note on a Recent Epidemic of Erysipelas.
MyRTLE, A. S.. M.D., Harrogate. Nourasthenia, True aud False : Diagnosis and
Managremont.
Straras, John, M.D. (Tille not received.)
SUCKLIXG, C. W. M.D. (Tith rot recerved.)
ToMuFX, J. K., M. B. East,African Fever, with special reference to Climatic Conditions.
WAREER, Francis, M.D. J. Metbods of Studying and Examining the Nerve System. 2. Imbecility in Cbildren from Chronic Meningitis.
Sir W. Roberts, Dr. Lauder Erunton, Dr. Rusself Reynolds, Dr.
M.D. Vice-Presidents, James Christie, M.D.; D. P'age, M.D. Honorary Secretaries. Ebenezer Duncan, H.D., t, l?oyal Crescent, Crosshill, Glasgovr; John C. McVail, M.D., Holmhead, Kilmarnock.

1. Sanitary Legislation. This discussion will be introduced by the Opening Addrees of the l'resident of the Section.
2. The Communicable Diseases Common to Jan and Animals, and their Relationships. Discussion to be opened on the second day of the sectional meetings by George Fleming, LL.D., F.I.C.V.S., Chief of the Veterinary Department of the Ariny:
3. The Disposnl of Serrage (a) in Large Torrns; (b) in Small Towns and Country Districts. Discussion will he opened on the third day by Dr. James B. Russell, Medical Officer of IIealth, Glasgow.
The following papers are promised. Dryspale, Charles R., M.D. 1. On Indigence as
Tates,
MIME, T. W., M. M. .D. Some Risks of Sanitation.
Kfrr, Norman. Mi. So She Rort on the Chemical and Biological Conditions Vasmyth. T. G.. F.R.S. A Report on with Mortalitr Statistics of a Mining Disof the Air of Coal Mines, together wic Grants Committee of the Britistu Meditrict, being a rey
cal Association. Merical Officer of Health, Calcutta. $=$ On Cholera and its Fostering Conditions in the Endemic Area.
Fraternivi J. Francis, M.D. National Sanatoria.

## Section E.-Psichologx. <br> Hebrew Class Room.

E. Psychologr:-President, James C. Horrden, M.D. Tice-Pre-
sidents, James Rutherford, M.D.; Julius Miekle, M.D. Honorary Secretaries, A. F. Urquhart, M.D., Murray House, Perth; Alez. Newington, M.D., Ticehurst, Sussex.
Dr. J. C. Howden, the President of the Section, ${ }_{2}$ will deliver an
Address. Camphell will introduce a discussion on the Uniform
Dr. C. M. Campbell Mortem Examinations in Asrlum Reports.
Recording of Post-Mortem Examinations in A. Campbell Clark will introduce the following subject: The Sexual and Reproductive Functions-Normal and Perrerted-in Relation to Insanity. 1. Menstruation: its Commencement, lrregularities, and Cessation: 2. The Sexual Instinct and its Abuse; 3. Pregnancy, Parturition, the Puerperal Period, and Lactation.

Dr. Clouston will initiate a discussion on the Principle of Construction and Arrangement of an Asylum for Private Patients of the Richer Classes.
The following have promised papers: Drs. Savage, Hack Tuke, Fletcher Leach, Charles Mercier, W. J. Mickle, and Turnbull.

## Section F.-Anatomix asd lihishology,

Anatomy Class Room.
F. Anatciry and Physiologr.-Iresident.John Cleland, M.D., LL.D., F.R.S. Tice-Presidents, R. J. Anderson. M.D.; Henry Edward Clark, F.F.P.S.G. Honorary Secretaries, John Barlow, M.D., 27. Elmbank Crescent, Glasgow; Charles Barrett Lockwood, F.R.C.S.. 19, Upper Berkeley Street, Portman Square, , eaching of Anatom. and will show sections illustrating the Development of the Organs of Circulation and Respiration.
The following papers are promised. Broors, Heary St. Johu, M.D.
or Anconcus Sextus (Gruber). Brown. J. Macdonald, N.B.
Clielest in the Mammalin. Froessor, M.D., F.R.S. On the Nature uf Certain Forras of Double Monstrosity.
Coniner, Mark P. Mayo, M.B., F.R.C.S. On the Mechanism of the Heart and Pulse, W. Arhuthnnt, M.B., F.R.O.S. The Influence 1 roduced by F
Laxp, W. Arnuthnal, Mal Ligaments (to be illustrater by sperimens). Patrersos. A. IT., M.D. On the Presiron oment.
the light of its Innervatiun and Development.

## Section G.-l'athologr. <br> Law Class Room.

G. Pathologr.-President, Sir William Aitken, JI.D., LL.D., F.R.S. Ticc-Presidents, Alexander Davidson, II.D.; Joseph Coats, M.D.: Charles Roy, M.D., F.R.S. Honorary Secretaries, G. Sims Woodhead, II.D., 6, Marehhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34, Derkeley Terrace, Glasgow.

Arrangements are being made to hold a discussion on Cancer originating apart from Epitnelial Structures, in mhich Mr. Lawson Tait (Birmingham), Dr. Joseph Coats, Dr. Johu Carlyle (Greenock), and others are expected to take part.
The following papers have been promised.
Bruce, Alex., MI.B., F.R.C.P.E.diu. Ou Disseminated Eelerosia.
D. Peblic Jemicine.- President, Henty Duncan Littlejohn,

Coats, Joseph, M.D. On a Case of Liprmia in Diabetes, with Suggestions as to the Source of the Fat
Kexrenr, -. On Cane of Crstic Kilmeys and Liver
Mapother, $\dot{\text { K. D. D. M., Dublin. An Anomalous Form of Eezema. }}$
Mavarm, A. E., M.B. B.S.Lond. The Tesults of some Bacteriological Cultivation Experiments with Iotoform.
IIske, Bevan, ML.D.Lond., Medical Superintendent, of the Trinidad Leper Asy lum. The Percentage of Fibrin in the Blood of Lepers.
Russell. William, M.D. The Pathology of Pernicious Anemia.
The following gentlemen have also intimated their intention of contributing to the business of the Section hy reading papers or otherwise: Jrofessor Greenfield, Professor Roy, I'rofessor D. J. Hamilton, Dr. William IIunter, Dr. Barrett (Edinburgh), Dr. McFadyean (Edinburgh), Alex. Edington, M.B. (Edinburgh), etc.

Demonstrations.-Dr. Alexander Bruce (Edinburgh) will give a Magic Lantern Demonstration on Diseases of the Spinal Cord; and Alexander Edington, M.B. (Edinburgh), a Bacteriological Demonstration. Arrangements are also being made for a series of Microscopical Demonstrations illustrative of Tumours, Tuberculosis, etc.

Pathological Section of the Annual Muserm.-Intimation has been received of the following exhibits for this Section of the Annual Museum: 1. Calculi removed by Lithotomy, by Professor George Buchanan. 2. Calculi remored by Lithotrity or hy Scoop, by Professor George Buchanan. 3. Miscellaneous Objects remored from the Body, by Professor George Buchanan, namely: Bullets, Feedles, Cases of Teeth, Impacted Pessaries, etc., also Isolated Bones of the Tarsus Excised. 4. Rhinoplasty; Wax Cast, by Professor George Buchanan. 5. Bladder and Urethra showing False Passages. 6. Selected Specimens from the Private Collection of Professor W. T. Gairdner. 7. A Series of Specimens of Tumours of the Brain, by Dr. Joseph Coats. 8. A Series of Specimens illustrative of Diseases of the Kidneys, by Dr. David Newman. 9. A Serics of Specimens illustratire of Leprosy, by Dr. Bearen Rake (Trinidad). 10. A Series of Large Sections illustrating Malignant Tumours of the Lung; and a Series of Specimens illustrating Deformities of the Liver, by Drs. Woodhead and Bruce. II. Drawings and Sections to illustrate Diseases of Bone and Joints, by Mr. F. M. Caird (Edinburgh). I2. A Series of Specimens illustrative of Diseases of the IIeart, by Dr. John Lindsay Steven.

As space for the Museum is somewhat limited, gentlemen intending to send specimens should intimate their intention without delay to John Lindsay Steven, M.D., 3t, Merkeley .Terrace, Glasgow, Honorary Secretary of the Section of Pathology of the Annual Museum.

## Section M.-Ophthalmology Miduifery Class Room.

H. Ophthalmologr.-Presudent, Thomas Reid, M.D. Tice-Prestdents, J. R. Wolfe, M.D.; C. E. Glascott. M.D. Honorary Secretaries, Henry Bendelack Ilewetson, M.R.C.S., 1I, Hanover Square, Leeds; A. Freeland Fergus, M.B., 4I, Elmbank Street, Glasgow.
Mr. Brudenell Carter will open a discussion on the Treatment of Senile Cataract. Drs. Prichard, Meighan, Mason, Teale, and others have promised to take part in the discussion.
The President of the Section intends to gire a Demonstration of several Instruments of Use in Ophthalmic Diagnosis.
The following papers are promised.
Bickerton, T. If., M.D., Liferpool. Sailors and their Eyesight.
Mackar, George, M.D., Edinburgh. A Contribution to the Study of Itemianopsia of Central Origin, with special reference to Acquired Colous Blinduess. Metghav, T. S.. M.D., Glasgow. On the Treatmeut of Symblepharon by Transplantation of Mucous Membrane from the Lip.
Rextos, J. C., M.D., Glaskow. The Value of the Cautery in the Treatment of U'lceration of the Cornea

## SECTION I.-OTOLOGY.

Biblical Criticism Class Room.
I. Otologx.-President, Thomas Barr, M.D. Fice-Presidents, John Astley Bloxam, F.R.C.S.; J. J. K. Duncanson, M.D. Honorary Secretaries, Johnstone Macfie, M.D., 23, Ashton Terrace, Glasgow: James Black, F.R.C.S., IG, Wimpole Street, London.
The following special subjects have been proposed for formal discussion:

1. The Conditions calling for Perforation of the Mastoid Portion of the Temporal Bone, and the Best Methods of Operating. Mr. Peter McBride has promised a paper on this subject.
2. The True Value of those Aids to Ilearing usually termed "Artificial Tympanic Membranes." Dr. W. L. Purves has promised a paper on this subject.
3. Adencid Growths in the Naso-Pharynx; their Influence on the Jiddle Ear, and their Trentment.

The following have promised papers.

Browxe, Lennox, Esq. (Title not received.)
Torraxce, lR., Esq. On Syphilitic Cochleitis.
Wardex, Charles, M.D. (Title sot received.)

## Section J.-Diseases of Childaen.

 English Literature Class Roon.J. Disfases of Children.-President, Walter Butler Cheadle, M.D. Fice-Presidents. James Finlayson, M.D.; Henry Ashby, M.D. Honorary Secretaries, George S. Middleton, M.D., 23, Sandyford Place, Glasgow; W. Arbuthnot Lane, M.S., F.R.C.S., I4, St. Thomas's Street, S.E.

The following two discnssions will take place:

1. Dipbtheria: (a)Etiology. (b) Relationship to other Infectious Diseases, and to other Forms of Sore Throat; Occurrence on Open Wounds and on Mucous Membranes ather than those of the Throat. (c) Diagnosis. What are the Distinctive Features, especially those Distinguishing the Lesion in the Throat from other Forms of Sore Throat? Does Membranous Croup occur apart from Diphtheria? (d) Pathology and Sequelæ. (e) Medical Treatment. ( $f$ ) Surgical Treatment; Tracheotomy; Tubage. This will be opened by Dr. A. Jacobi (New York). Messrs. R. W. Parker, E. Owen, H. R. Hutton, and Drs. W. T. Gairdner, James Finlayson, D. Newman, John Macintyre and J. S. Cameron will take part in the discussion.
2. Rickets: (a) Etiology and Prevention. (b) lits Connection with Syphilis and Scurry. Is Enlargement of the Liver and the Spleen always present, more or less, in Rickets; or only in Cases of Syphilitic Origin? (c) Medical Treatment. (d) Surgical Treatment; at what Stage, and in what Way? Drs. Macewen, Ogston, and Marshall, and Messrs. R. W. Farker, H. R. IIutton, R. Hagyard, L. W. Marshall, E. L. F'reer, John Gordon, and W. A. Lane will take part in the discussion.

Drs. Jacobi (New York), Kieating (Philadelphia), Ranke (Munich), and Sanne (Paris), and other members of the profession on the Continent have been invited.

## Section K.-Pharmacology and Therapeltics. Conveyancing Class Room.

K. Pharmacology and Therapeutics.- President, James Morton, M.D. Tice-Presidents, John Dougall, M.D.; Theodore Cash, M.D., F.R.S. Honorary Secretaries, Alexander Napier, M.D., 3, Royal Terrace, Crosshill, Glasgow; Sidney Marris Cos Martin, 11.D., 60, Gower Street, London, W.C.

A special discussion will be opened by Professor Theodore Cash, M.D., F.R.S., on Carbolic Acid, Antipyrin, Antifebrin, and their Allies, especially as regards their Antipyretic. Analgesic, and Antiseptic Actions. Drs. Walter G. Smith (Dublin), A. D. Macdonald, and Prosser James will take part in the discussion.
Dr. W, Allan Jamieson (Edinburgh) will show two cases of Xeroderma Pigmentosum.
The following have promised papers.
Darisox, James, 1 I.D. The Pine Treatment.
DOvGALL. J., M.D. Glasgow. (Title not received.)
DRYSDLE, C. R., Mi.D. 1. On the Therapentic Value of Atcohol. 2. The 80 called Abortive Treatment of Syphilis.
Pearse, T. F., M.D. The Treatrient of Eczema.

## Section L.-Lartivgologi and Rhinology. <br> Divinity Class Room.

L. Laryngology and Rhinologx.-President, Felix Semon, M.D. Vice-Presidents, George Hunter Mackenzie, M.D.; Peter McBride, M.D. Honorary Secretaries, D. Newman, M.D., 18, Woodside Place, Glasgow ; A. E. Garrod, M.D., 9 , Chandos Street, Carendish Square.
The following subjects are proposed for special discussion:
I. The Use and Abuse of Local Treatment in Diseases of the Upper Air Passages. To be opened by Dr. de Havilland Hall (London) and Mr. Stoker (London).
2. The Causes, Effects, and Treatment of Nasal Stenosis. To be opened by Dr. Macintyre (Glasgow) and Mr. Creswell Baber (Brighton).
3. IIæmorrhages from the Pharynx and Larynx, and other Hemorrhages which simulate these. To be opened by Dr. Percy Kidd (London) and Dr. Hodgkinson (Manchester) (probably).
The following gentlemen hope to take part in the discussions : Dr. Frosser James (London), Dr. McBride (Edinburgh), Dr. Charles Warden (Birmingham), Dr. Cartaz (Paris), and Mr. Richard Ellis (Newcastle-on-Tyne).

The following papers have been promised.
Jo mestore, R. Mackerzie, M.D. Account of a Case of Tumour of the NasoJomserone,
Pharyna.
McBadex, P., M.D.. Edinburgh. Ou Hay-Ferer and Allied Conditions.
McBhide, P., M.D.. Edinburgh. Ou May-Ferer and Allied Condit
Mscivtyrf, J., M.D. Anatomical Demonstration of the Saryns.

June 16, 1888.]

Nmyman, D.. M.D. Two Cases of Complete Laryngeal Stenosis"prosuced by Wounds of the Larynn in attempted Sulches.
Wabdris, C., M.U. (Title of paper not yet received.)

## AnNuAl MUREEM

The Annual Muscum will be held on August 7 th, 8 th, 9 th, and 10th, in the Examination Ilall of the University of Glasgow, and will be arranged in the following six Sections:

Section A.-Food and Druga, including Antiseptic Dressings, and other Chemical and Pharmaceutical Preparatious. (Honorary Secretary, R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Street.)

Szetron B.- P'athology, comprising Casts, Models, Diagrams,
Microacopical Preparations, and Dicro-organisme. (llonorary Sec-
retary, J. Lindsay Steven, M.D., 34, Berkeley Terrace.)
Section C.-Anatomy, comprising Special Dissections, Methods
of Mounting, Abnormalities, Drawings, Medals, etc, (Ionorary Secretary, J. Iule Mackay, M.D., 34, Elmbank Crescent.)

Section D.-Physiology, consisting of Apparatus, Microscopes,
Microtomes, and Microscopical Preparations of Normal Ilistology.
(Honorary Secretary, J. McGregor Robertson, M.A., M.B., C.M., 4U0, Great Western Road.)

Section E.-Instruments and Books, including Appliances-
Medical, Surgical, and Electrical. (Honorary Secretary; J. Macintyre, M.B., C.M., I73, Bath Street.
Section F.-Sanitation (1) Domestic Sanitary Appliances, embracing all Improvements applicable to the Treatment of the Sick in Private Dwellings. (2) Personal Hygiene, including Dress and Gymnastic Appliances. (3) Ambulances, Carriages, and all other Appliances used for the Conveyance and Freatment of the Sick and Hounded, either in Civil, Naval, or Dilitary Practice. (4) Lighting, and Draining of Hospitals. (5) Hospital Furniture. (6) Sanitary Appliances in connection with Educational Institutions and Public Buildings. (Honorary Becretary, 1, 2, 3, Robert Pollok, M.B., C.M., Pollokahields; Monorary Secretary, 4, 5, and 6, A. W. Bussell, M.A., M.B., C.M., Weatern Infirmary.)
lntending exhibitors should communicate as early as possible with the Secretary of the Section in which they propose to exhibit, as the Museum Catalogue must be complete one month before the date of meeting. Inquiries as to advertisements in the Catalogue should be sent without delay to Dr. Thomson, 3, Melrose Street, Glasgow.

Honorary General Secretaries of Museum Committee, A. Emest Maylard, B.S., M.B., 4, Berkeley Terrace; R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Terrace.

Honorary Lacal Treasurers, Joseph Coats, Dl.D.; Jas. B. Kussell, M.D.

Honorary Local Secretaries, John G. McKendrick, M.D. F.R.S., 45, Westbourne Gardens, Glasgow: James Christie, M.D., Hillhead, Glasgow : Johu Glaister, M.D., 4, Grafton Place, Glasgow.

## EXCURSIONS.

THE fellowing eight excursions will take nlace ou Saturday, Auguat 11th.

1. Tanark and Falls of Clyde.-The parts, limited to ION, will leave the Central Station by special train about 10 A. M., for TillieGudlem, where, by the kind permission of the Earl of Home, an opportnnity will be given to visit the ruins of Craignethan Castle, the scene of Sir Wralter Scott's Old Mortality : proceeding on foot through the picturesque ravine of the Rirer Nethan for about a mile; the party will then be conveyed by conch througli some of the most charming Clydesdale scenery tc the Falls, visiting Stonebyres, and then, by the kindness of the proprietcr, will enter the Corehouse estate, to see Cora and Bonnington Linns. Returning by coach to Lanark, dinner will bo serred about 2. 50 p.M., in the Iibrary of Dr. William Smellie, the famous obstetrician, which Tras bequeathed by him to the Grammar School of that town. It is a rery interesting collection of books, containing two or three back letter volumes. It is also expected that the Lee talisman, or "Lee Pennyy" will be shown to the visitors. This charm a battle, as from the Saracens by Sir Simon Lockhnrt, of Lee, after a battle, as part ransom of a captive. It was deemed a charm of the title to The Talisman, another of the novels of Sir Walter scott. Afterwards short excursions may be made ou foot to Cartland Crags, Roman Bridge, Old Abbey, and Sinellie's grave. The party will return from Lanarle by special train to Glasgow, arriving not later than S P.M.
2. Ayr and the Land of Burns.-The party, fixed at 100, will leave Glasgow about $9.30 \mathrm{~A} . \mathrm{M}, \mathrm{by}$ specinl train to Ayr. Thence by conveyancea it will proceed, via Jaybole, to Crossraguel Abbey (one of the finest Gothic remains in Great Britain), thence to Culzean Castle, where it is expected the party will be receired by the most Ilonourable the Marquis of Ailsa, and returning to Ayr by the sen-shore to Burne's Jonument, Alloway Kirk, Burns's Cottage, and "Twa Brigs." Dinner will be serred at the Station Hotel, after which, bs Epecial train, the party will return to town.
3. The Perthshore IIighlands, Lochearnhead and Crieff-The party, numbering 100, will leare Buchanan Street Station about 9.15 A. M., in special saloon carriages, for Lochearnhead, and during the journey will see some of the finest Highland scenery: thence by coaches ria Loch Earn, to St Fillans, where a halt will Comade for refreshments, at the Drummond Arms Hotel; then to Cauldron, and thence to Crieff. where the party will be en tertained to dinner by Dr. Meikle, at his IIydropathic Establishment. After dinner, short walks to places of interest in the neighbourhood may be made, and the party will leave Crieff in the 8 me saloon carriages for Glasgow, where it will arrive about 8 P.M.

Callander and the Trossachs (Loch Katrine).-The party, 100 in number, will leave the same station as last at the same hour, in special saloon carriages, for Callander, where coaches will be in readiness to convey them to Loch Katrine. Dinner will be served about 2 P. Mr., in the Trossachs Hotel, after which visitors may enjoy a sail on the loch to the Silver Strand, mentioned by Sir Walter Scott in the Lady of the Lake. The party will return time as the route to Glasgow, where it will arrive about the same 5. Arran- former excursion.

Stran.-The party, numbering 100 , will leare Bridge Street
Station in saloon carriages about 9 A.3., for Wemyss Bay, where, it will join the famous Clyde steamer Iranhoe, which en route to Arran calls at Rothesay, and passes through the Kyles of Bute. Dinner will be served on board during the passage. On landing on the island the party will be enabled to visit Brodick Castle, by the kind permission of his Grace the Duke of Hamilton. The party will return to Glasgow by the same route, arrivilg there about 7.30 P.M.
6. Stirling, Bridge of Allan, and Dunblane Cathedral.-The party, limited to 100 , will leave Buchanan Strect Station about paid to the Castle of historic renown, the loyal Infirmary. High Church, etc., under the conduct of Provost Yellowlees of that town, and Dr. Haldane, of Bridge of Allan, returning to the Smith Institute, where cake and wine will be served. Thence the party will proceed by conreyances to the Wallace Monument, ria the King's Fark, where an unrivalled view is to be obtained, then through the demesne of Airthrey, the seat of the Right IIonourable Lord thercromby, to Bridge of Allan, where dinner will be served in the new Museum Halls. After dinner seats in the conreyances will again be taken, and the party will then drive through the grounds of Keir, the seat of the late Sir W. StirlingMaxwell of bibliophilic fame, and Kippenross, to Dunblane, where the Cathedral and Library of Archbishop Leighton will be visited. The party will then retura by the famous 1 harry Glen to the ata at blige of ardan, where tea whe provide will leare Bridge of Allan of alan for town, arriving there about S P.M.
T. Rothesay and the Kyles of Bute.-The party, fixed at 250 , will where it will join the for the trip. The stenmer will then aail down the lirtl of Clyde to Rothesay, and thence will proceed tlirougl the Kyles of Bute, up Loch Ridden, and then round the Island of bute to Kilchattan Bay pier, where those of the party who choose may land to walk to Mount Stuart, the seat of his Grace the Jarquis of Bute, risiting on the way the beaver colony, now an almost uniquo sight. The remainder of the party will return to Rothesay by the steamer, where conveyances will be in readiness to convey Glenburn Mydropathic Establiohm. hlie party will alight at the Dr. Philp, the proprictor, tea will be served to the party at 5 p.Ir. Dinner will be served on board the Iictoria en route. After tea a risit may be paid to Rothesay Castle. The return journey to Glasgow will be made by the same steamer, either to Greenock or

Wemyss Bay (not yet decided), and thence by special train, arrining in town about 8 p.M.
S. Loch Lomond.-The party, numbering 150, will leave the North British Railway Station, Dundas Street, at 10 A.M., by special train for Balloch Pier, where it will be waited for by a special steamer; during its passage to the head of the loch all the places of historic interest will be pointed out. Facilities will be given, by arrangement made hefore or in the early part of the meeting, for an ascent of Ben Lomond by a small party. On arriving at the head of the loch fifty of the party (to be fixed by ballot or choice) will land, the remainder returning by the same steamer to Tarbet, where dinner will be served about 2.30 P.a. in the hotel. From here parties may risit Loch Long by a very picturesque road. For the party of fifty leIt at the Lead of the loch a special dinner will be provided on board the steamer, arriving there about 2 P.M. The return journey will be made by steamer to Balloch, and by special train to town, arriving about 8 P.M. As this is the busiest time of the tourist season, intending risitors to this place should apply early, in order that completely comfortable arrangements may be made.

Short descriptive sketches of the different excursions will be given in the Journal from week to week, in order to enable risitors to determine their choice, and also that early applications may be made during the meeting for tickets.

> Francis Fowne, General Secretary.

## SPECIAL CORRESPONDENCE.

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Respiratory Hysteria.-Disadvantages of Saccharin.-Dynamic Arseniate of Gold.-Papaïn in Dyspepsia.-Chemical Vaccine. The Journal de Médecine of May 6th publishes a paper by M. Henri Huchard on hysteria of the respiratory organs. The author has already remarked how frequently simple laryngitis, angina pectoris, or bronchitis are transformed into aphonia, spasmodic contraction of the סesophagus, or hoarse, sonorous cough; symptoms which antipblogistic treatment entirely fails to combat, but which disappear spontaneously. M. Léon Petit describes a case of pulmonary hysteria which Mi. Iluchard regards as one of hemoptysis of hysterical origin. The spasms may be localised in the nose, the larynx, the diaphragm, bronchial tubes, etc. M. Huchard quoted cases of spasms of hysterical origin in the respiratory organs, when tracheotomy was resorted to, but without modifying the symptoms. He points out the difficulty and, at the same time, the importance of determining the exact relations between hysteria and the affections of the respiratory organs, without confusiou. In the second stage of consumption a sonorous incessant cough will appear quite suddenly, followed by aphonia, hemoptysis, which usually recurs at the menstrual period, complete and persistent anorexia, and in some cases irrepressible vomiting, which may last for months or even years; the pulmonary lesions, however, are not aggravated; all the pathological activity is monopolised by the hysteria. In other cases tubercnlosis predominates, and hysteria plays merely a subordinate part. Brachat affirmed that hysteria favoured the evolution of tuberculosis; other authors hare stated that tuberculosis determines the appearance of hysteria. Both these conclusions are erroncous. Without entirely admitting the truth of Leudet's theory that phthisis and hysteria are mutually antagonistic, M. Huchard affirms that in many cases he has observed that the combination of the two affections in the same patient changes the habitual aspect of each of the affections. In tuberculous hysterical patients there is a complete disparity between the relatively mild local condition and the serious character of the functional disturbance. The consequence is that errors in diagnosis may often arise. It is most important to distinguish the effects of hysteria and tuberculosis respectively in the same patient, and to determine exactly which symptoms are due to each affection.
11. Worms read a paper at the Académie de Médicine, in which he statel that he administered saccharin, in varied forms, to Iour persons suffering from diabetes. One, after a course of two months, still suffered no inconvenience therefrom; but the other three, at the end of a fortnight, complained of loss of appetite, indigestion, and Weighi in the stomach, whicb symptoms continued for eight
days after leaving off the saccharin. The doses were resumed in the case of one of the patients, and a return of the symptoms complained of took place at the end of ten days. This proved that it was dangerous to put saccharin into the food of anyone suffering from diabetes; and, moreover, that as it was an indigestible substance, the general employment of it might result in serious consequences to the public lealth. This fact is at present worth knowing, as it is proposed to substitute saccharin for cane sugar in many ways, such as in sweetening acid wines, and in the manufacture of syrups; its price being half, and its power of sweetening so inuch greater than, that of sugar.

Dr. Addison has successfully combined gold and arsenic under the name of dynamic arseniate of gold. This preparation possesses the raluable therapeutical properties of both substances. Gold, it is well known, is used in different preparations (gold iodide, auric acid, etc.), with excellent results, in the treatment of diseases of the skin, syphilis, amenorrhea, etc. Arsenic is successfully employed in hysteria, scrofula, rheumatism, irritable forms of tuberculosis, and in other affections. Its action is strengthening and antiphlogistic. It moderates fever, and acts as a sedative. Dr. Addison's dynamic arseniate of gold, which is destined to render great services in the treatment of cutaneous affections, secondary and tertiary syphilis, different forms of cachexia, nervous diseases, etc., is employed in progressive doses, from one to thirty milligrammes. It is highly digestible.

Dr. Pol Vernon highly recommends the use of papain in the treatment of dyspepsia. Papaïn is nothing but a vegetable pepsine, and, as the late M. Wurtz said, "acts with extraordinary energy and promptitude, and, as a vegetable ferment, dissolves at least one thousand times its weight of humid fibrin, which is at once disintegrated into a semi-liquid pulp, chemically similar to peptone." The action of papain extends, of course, to egg albumen, to gluten, and to all proteid substances, both animal and regetable. By its influence the food is immediately transformed into a completely elahorated nutritions fluid. It is, therefore, indispensable in cases where over-nutrition is required-diabetes, tuberculosis, consumption, etc. It can be used in rery small doses, whereas pepsine must be administered in large quantities. The action of papain extends to all forms of gastro-enteric dyspepsia, which are, according to $G$. Sée, only defective chemical operations. The illustrious Vauquelin compared it to "blood deprived of its coloured pigment," and called it "regetable lymph." This substance can be administered as syrup, as an elixir, in wine, and in the form of bonbons.
The Gazette des Hôpitaux of May 12th publishes a communication made by M. Peyraud (of Libourne) to the Académie de Médecine, on May Sth, on chemical raccine or "hydrophobine." M. Peyraud referred to his former researches on tanacetic rabies, its rclation to genuine rabies, the preventive measures for both these affections by means of chloral, and inoculation with tanacetic acid, preceded and followed by antirabic raccination. The discovery of chemical vaccine has been attested by MM. Charrin, Roux and Chamberland, Widal and Chantemesse, and the chemical vaccine of several virulent affections has been discorered, independently of microbic inoculation, in the isolated poison of those nerve-centres presenting morbid fermentation. M. Peyraud made the following experiment in order to obtain the isomeric of tanacetic acid, the rabid virus of rabies. The brains of twenty-two mad rabbits were reduced to a pulp, and macerated in alcohol at $90^{\circ}$. After the substance was filtered and exposed to the atmosphere at a temperature not exceeding $50^{\circ}, \mathrm{M}$. Peyraud obtained a fluid which had the taste and odour of tanacetic acid, and which, injected subcutaneously into four small rabbits, immediately determined the biological phenomena characteristic of paralytic rabies. M. Peyraud also made control experiments with the same number of brains of healthy rabbits. None of the above results were obtained.

## VIENNA.

[FROM OUR OWn correspondent.]
Subcutaneous Injection of "Grey Oil" in Syphilis.-Hemianopsia
Superior. At a recent meeting of the Imperial Royal Society of Physicians of Vienna, Professor Edward Lang read a paper on the subcutaneous injection of mercury in syphilis. He had long endearoured to discover some form of preparation in which mercury could be used for subcutaneous injections, and had arrived at the following formula : hydrargyri, lanolini, aa three parts; olive oil, four parts.

Such a preparation contained 30 per cent. of mercury. As to the quantity of the oil to be injected, he tried to determine this point by experiments, the result of which slowed that even small quantities of mercury had a porverfunjection of three decigrammes of the oil for one weck was sufficient to cause most of the symptoms to disappear, or at least to diminish their severity for a period of from two to three weeks. Professor Lang therefore injected a quantity of from 1 decigrammeto 15 centigrammes of the "grey oil" in two places on the back or the buttocks during from five to eight days. These injections were contimed from two to three weeks, when a panse of from seventeen to twenty days was made; the injections sumed, and so on, until a quantity amounting altogether to from $1 \frac{1}{2}$ to 2 grammes was injected. This was the general plan of the treatment in such a case. which had, of colurse, to be modified according to the particular features of each case. The effect of these injections was easily understood when we estimated the quantity According to the calculations of Professor Ludwig, 39 per cent. of metallic mercury was contained in 1 cubic centimetre of the "grey oil," this being a quantity of mercury which corresponded to 0.52 cubic centimetre of sublimate. As usually one Praraz-syringeful (equal to I cubic centimetre) of the 1 per cent. solution of sub-
limate was injected, it was to be injected in order to introduce into the organism as much mercury as was contained in 1 syringeful of the "grey oil." When "grey oil" was properly prepared, and the injection tras properly performed with antiseptic precautions, good results would invariably be obtained. Professor Lang prefers frequent injection of smanorption is of mercury to large doses at loug . When due attention was paid to the treatment, stomatitis and other symptoms of mercurialism were but very seldom abserved after injections of the "grey oil." Moreover, the preparation was rery well borne by patients. He had in only five cases been obliged to discontinne the treatmeut with the "grey oil", on account of a special idiosyncrasy with regard to mercury. The advantages of this plan may be summed up as follows: 1 . of which is gradual; moreover, it permits of exact dosage, which is not the case with inunction. 2. The methol is conrenient for the physician and the patient. 3. The injections, when carried out with due care, cause but slight reaction. Neither Professor of injection, though several thausands of injections hare been made. 4. The "grey oil" is a mercurial preparation analogons to the mercurial ointment in which metallic mercury is contained in the most eflicient form. The ". grey which general imercurial treatment is required. The best opportunity of testing the effect of an anti-syphilitic remedy is offered by syphilitic affections of the nerre-centres; and in cases of syphilis of the brain and spinal cord, subcutaneous injections of "grey oil" were attended with very satisfactory re-
sults. The "grey oil." moreaver, had an advantage from another point of riew, namely, that, locally applied, it facilitated the absorption of syphilitic products situated near the point of injection, in a similar way to the "grey plaster." Gummatous intiltrations on the forehead, the nose, etc., rapidly disappeared When from 0.01 to 0.05 cubic centimetre of the "grey ail" was injected. The "grey oil" can also be used in cases in which the "grey" piaster" and the "grey nintment" cannot be applied. Professor Lang had, on one occasion, to deal with a gummatous cavify of the tilia which was accessible only throngh a rery small constructed instrument, and healiug speedily took place. The morcurial oil can also he used for injections into the external auditory meatus, the membrana tympani, and the tympanic carity through the Eustachian tube. Syphilitic affections of the larynx and the nasal cavities are better treated by a simultaneans intralaryngeal and intra-nasal application of the "grey oil." The same also applies to affections of the eyes.
Professor Nothnagel brought before the same Society a case of hemianopsia superior, which was of great physiolngical interestowing to the localisation of the cause of the disease. The latient,
a tailor, aged 4 , hecame suddenly blind. Nis intellectual faculties were impaired. Fxcept $\Omega$ fracture of the left les, he said he had were impaired. Fxcept $\Omega$ fracture of the left log, he said he had
always beeu in good health. His sulden blindness had super-
vencd two months before he came under notice, and when seen he complained of transient headache on the left side. The eyeballs were nornal in appearance, and ophthalmoscopic examination of the fundus oculi revenled no abnormality: The pupils raried in size and reacted, but not energetically. The mobility of the eyc was unimpaired. At first sight the patient gave one the impression of a perfectly blind man. IIe had no perception of light in the unper part of the field of rision, but this was present in the nagel called the affection was not wholly blind, Professor Nothcould not distinguish colours, nor had he an exact ides of the size of objects shown to him. Professor Nothnagel had fonnd only three cases of superior hemianopsia in literature, one having been reported by Mauthner, and two by Schweigger. no necrolsy was performed in any of these cases. As to Mauthners case, he had admitted the presence of a tumaur which compressed the chiasmanerre. Professor Nathnagel, however, believed the in his case there was an affection of the centre of vision in not cerebral cortex-hence in the occipital lobe. Ile could of the brain, and that the compression of the chiasma should base be attended with any other cerebral symptoms besides those present in the case under consideration. Hæmorrhage at the base of the brain had also to be excluded, awing to the absence of coma. The cause of the disease must be localised in the cerebrum itself-a conclusion which was supported by the sudden occurrence of the blindness and the fact that the patient was not in the possession of his normal intellectual faculties. The fact that the cerebrum could not be looked upon as disproving this hyp of the Professor Nothnagel remembered a case under his care in whis. the patient, who was suffering from pulmonary disease, suddenly became blind during the night. The post-mortem examination revealed the presence of bilateral softening of the occipital cerebral cortex. Only the superficial parts of the cortex were affected, and the patient had nerertheless suddenly become blind. The simultaneous biateral softening was due to bilateral thrombosis presence of a thrombosis in the case nnder consideration; but, as the patient was forty-six years of age, it was possible that his arteries had already become atheromatous. The fact that the pupillary reflex was intact could be looked upon as a proof that the lesion was situated in the cortex of the occipital labe; the thalamus opticus and the corpus quadri-post-mortem examination verify the diagnosis, this case might be regarded as an illustration of the experiments of Munk, according to which the retina was quasi-projected on the surface of the occipital lobe.

## SWITZERLAND. <br> [FROM OUR OWN CORRESPONDENT.] <br> Professor Ǩocher's Case of Pancreatic Cyst cured by Abdominal Section.

Dr. Lardy describes (Correspondenzblatt fiir Schucizer Aerzte, May 1st, 1888, p. 279 ) a rare case of pancreatic cyst, in which the disease was correctly diagnosed and afterwards treated surgically with the best results by Professor hocher. A well-huilt and previously healthy man, aged 37, was suddenly seized with spontaneausly the next morning, but ouly to recur on Jannary 17th. 1887. For three hours the pain was as severe as on the first occasion, and then somewhat lecreased. About eight or ten days later the man noticed that the upper part of his abdomen was growing larger from day to day, and mertnight it had attained the size creased on walling, and then was accompanied by a pensation of great tension. The stools became somewhat discoloured and flattened, but were otherwise normal. In Junc a severe attack of vomiting came on; this afterwards recurred with gradually increasing frequency, until latterly it happened almost daily: In October aconising pain in the left hypogastric region superrened, while the patient steadily lost flesh and strength, and he was at last compelled to seek aulmission to Professor Lichtheim's
clinic. An exploratory puncture into clinic. An exploratory puncture intn the epigastric tumour gave issue to a dark-red, blood-like fluid, which under the microscope proved to contain numerous intact red-blood corpuscles. fairly
numerous large splieres with fatty granules and occasional hrematoidin scales and cholesterin crystals. The puncture was followed by marked peritonitic symptoms, which lasted eight days. The patient was transferred to Professor Kocher's wards (on December (ith), when an enormous and fairly uniform distension of the abdomen was found; this was duc to the presence of a very large, smooth, non-adherent, fluctuating, globular tumour occupying the epigastrium and reaching downwards as far as midway between the umbilicus and the pubes. In front of the mass a curved transverse band was felt, which, on inflating the intestine with air through the rectum, proved to be the transverse colon. Inflation of the stomach (through a stomach tube) showed that that organ was aiso situated in front of the tumour in the left hypochondrium. Taking all these facts into consideration, Professor Kocher diagnosed a cyst of the pancreas; and on December 30th, 1887, proceeded to make a median incision, 12 centimètres long, midway between the xyphoid cartilage and the umbilicus. The gastro-colic omentum, which was very thick and rascular, having been incised, a smooth, whitish-blue cyst presented itself; it was fixed with sutures to the upper and lower angles of the abdominal wound and emptied with a large Spencer Wells's trocar. The opening was sulsequently enlarged and its edges stitched to those of the abdominal wound. About ten litres of dark-red viscid fluid were removed. The inner surface of the sac was fairly smooth, of a whitish-yellowish colour. There was no tendency to bleeding, and the cyst immediately contracted pretty firmly. Its cavity was plugged with iodoform gauze, and a sublimate corrosive dressing was applied. A rapid, uninterrupted recovery took place, the wound healing by second intention without any fever. On examining the patient about two months later, he was found to be stouter; a fairly thick cord could still be felt at the site of the shrunken cyst. According to Dr. Lardy's statement, based on the work of Dr. C. Hagensbach, of Dasle, this is the serenteenth case in which a pancreatic cyst has been operated upon. It is, however, only the third in which the disease was correctly diagnosed before operation.

## EGYPT.

[FROM OUR OWN CORRESPONDENT.]
Three Cases of Local Massage.-Surgery at Kafir Zayat Dispen-sary.-Theatricals at Tantah Hospital.-Annual Report by Sanitary Administration.
CASE I.-Female child, aged 7. Admitted six months ago with a burn of third degree, extending round left lower extremity from ankle to knee, with the exception of a strip of skin, one inch broad by four inches long, on the calf. After three months' treatment, the greater part had skinned over, leaving a patch, three inches by two, over fibula and extensor muscles. Transplantation of skin; pressure by strapping; stimulants, irritants, and resicants, incision of edges, and galranisation were all used patiently during two months without effect. Daily massage of the whole limb, and especially of the cicatrix and deep tissues, produced complete healing within three weeks. Case rr.-Boy, aged 11. Fibrous ankylosis of knee, after six months' treatment by splint for abscess of thigh. The adhesions were broken down under chloroform, and complete mobility restored; but imperfect power of movement remained, owing to atroplyy of cxtensor muscles, and grarlual contraction of the flexors from want of opposition. Galvanisation of the extensors for one month was followed by very slight improvement; massage of the whole limb was then added, and at the end of another month the patient had almost entirely regained power over the limb. The treatment is still being continued. Case rir.-Girl, aged 5. Turkish origin. Extensive scrofulous ulceration of arms and legs. During two months she was treated by anti-scrofulous drugs and applications with very little leneflt: massage was then added, and within three weeks nearly the whole of the lesions have healed up.
The newly instituted dispensaries are beginning to bear fruit. At Kafr Zayat-an important town in Lower Egypt-the medical officer, who is an excellent surgeon, reports a rather remarkable case. It seems that a Greek, while using a sharp knife, completely detached a joint and a half of the index finger of his left hand. The serered portion fell to the ground, but he immediately picked it up and applied it as well as he could to the stump, and, holding it in this position, proceeded to the dispensary, which was distant a two hours' journey. As soon as he arrived, the medical man atonce washed the parts with carbolic acid lotion and liquor

Van Swieten; sewed the several portions on accurately; and applied an iodoform dressing. In ten days the wound was healed, but the joint has so far remained ankylosed. The patient was 25 years old, and in perfect health at the time.

At Tantah, which is the third town in Egypt and has a Government hospital of 70 beds, there has lately been quite a new departure. In order to acquire funds for the benefit of the sick, the medical staff organised a theatrical representation, which resulted in a clear benefit of no less than £80. The greatest credit is due to Dr. Selim Fahung, who managed the whole affair; and it would be well if his example wero followed by other hospitals in Egypt, for there are many little luxuries, inestimable to the sick, which cannot well be provided by the administration.
The Sanitary Department is about to produce an annual report -the first of its kind on record. This report will necessarily be crude and imperfect; hut it is, nevertheless, a beginning, and therefore worthy of commendation. It is to be hoped that the defects therein portrayed may not react injuriously on the compiler.

## MANCHESTER.

[FROM OUR OWN CORRESPONDENT.]
Conference on Mortality in Manchester.-Small-pox in Preston.Conversazione in Owens College.-Candidates for Tacant Chair of Surgery.
A Confermence, called together by the Manchester and Salford Sanitary Association, was held on June Sth to consider the excessire mortality in Manchester. The Chairman, Dr. Ransome. stated that the death-rate was 50 per cent. greater than that of the kingdom at large. In the last two jears it had reached 60 and 70 per cent. respectively. A series of resolutions were passed, including recommendations to avoid the pollution of the air and water-courses, avoidance of intra-mural interments, that the number of nuisance inspectors be increased, there being at present only fourteen for a population of 385,000 . Much has been done by the corporation within the last few years to improve the material surroundings of the poor in this city, but it is obvious that much remains to be done, and we trust that the efforts of the Sanitary Association will suffice to press home the unpleasant facts to the corporation and ratepayers, and that preventive measures to reduce the mortality will soon be vigorously carried out.

Within the last few days there has been an extraordinary outbreak of small-pox in Preston. The number of patients up to June 4th was about 200 , and new cases are reported every morning. On June 8th, a young man, suffering from the disease, was found in a delirious state in the streets. The epidemic has spread to an out-district, and a case is reported from Warrington. Several deaths are reported.

On June 8th a conversazione was given in Owens College, on the occasion of the opening of the new Museum buildings. There were present between three and four thousand persons; in spite of the number, the rooms were so spacious and the arrangements so complete, that there was no crowding. There were numerous exlibits of scientific and popular interest in the various laboratories.

Saturday, June 9th, was the last day for receiving the applications for the vacant Professorship of Surgery. The local candidates are Mr. Southam, Assistant Lecturer on Surgery in Otrens College; Mr. Thomas Jones, Lecturer on Practical Surgery in Orrens College: Mr. Wright and Mr. Hardie. All four surgeons are on the staff of the Royal Infirmary. The only other candidate is Mr. Arthur W. Hare, who is Assistant to the Professor of Surgery (Mr. Chiene) and Senior Demonstrator of Surgery in Edinburgh Unirersity. It is too soon to forecast the probable chances of the several candidates.

Increase of Lunacy.-At a recent meeting of the Committee of the Woodilee Asylum some startling statements were made as to the rapid increase in the number of lunatics in the asylum. The asylum was opened in 1875 , with a licence to accommodate 400 patients, and there were at that time only 248 patients chargeable to the parish. There were at the present moment 551 patients in the asylum, and 92 boarded out, or a total of 643 . It was remitted to the acting inspector and medical superintendent to inquire into the apparent cause of the increase, and to report to the Committee, together with auy recommendation for their guidance.
say with most aatisfactory result, as I was very deaf, but my hearing is now excellent. Except Sir W. Dalby can ohorr some very conclusive proof to the contrary, I refuse to be convinced, and shall continue to claim for myself the notoriety of being the first case so operatcd upon in Great Britain by dental drin. have no recollection of having seen any case woll of doing so. I am glad to be able to add that Mr. Goff, and also my brother, upon wham you also operated for double exostosis, continue quite well. -Faithfully yours, "Geo. I. Maceiest.
"P.S.- You may recollect that Sir W. B. Dalby kindly saw me in consultation with yourself, and, to the best of my belief, he fid not at that time make any mention of having treated any case of aural exastosis by the drill.'

ECTOPIC GESTATION
Sir,-To substantiate the remark that Dr. Areling proposed electricity "for the arrest of hemorrbage in cases of ruptured tubal pregnancy" would require me to reproduce a long discusaion which took place recently at the Gynecolagical society, and sion. The debate took pr. Aveling's interpolated in that discuscases of "Ruptured Tubal l'regnancy," in which the whole and sole issue was the necessity of acting on the surgical rule of "tying the bleeding point." Dr. Aveling interposed with a long argument that electricity should be used, and he again brought back his solitary chicken from the Brighton meeting. But that reiterated case has nothing to do with the issue, for it was clearly a broad ligament pregnancy, and ought to have been allowed to go to term and been delivered alive, as these broad ligament cases easily can be.

That only accomplished electricians should meddle with this most dangerous business was well illustrated in my presence not long ago, when two practitioners warmly disputed whether a galvanometric reading was genuine or approximate, but the difference was nearly 300 milliamperes. So much for accuracy of dosages. Finally, we want no more whimsical theories; we want the authentic facts
Ihave just read the interesting account of Dr. IIcrman's case, and hare to say that it possesses in my mind a much larger interest concerning a point where it is only the second case of the kind I have known, than in all the points which seem to have attracted Dr. Ilerman's attention.
1 have published in your columns, and in the Transactions of the Gynacological Society, thirty-five cases of the kind, but 1 could not occupy space in giving all the details of every one of those cases, and I contented myself with recording such matters only as seemed to me of the most pressing interest. I did not think it in the least degree necessary to say how many days or hours elapsed between the period of first rupture sind the operation, but in very many of them only a short tine elapsed. Ithink it rery likely that some of them had a period as short as in Dr. Iterman's case.

The great interest of Dr. Herman's case seems to me that the operation was performed for the secondary, and not for the primary, rupture - that is to say, that the real rupture of the tube took place about December 2oth, and that that rupture was into the cavity of the broad ligament, and that it was a secondary rupture of the broad ligament cyst into the peritoneal cavity for which Dr. IIerman performed his operation on Fehruary 10th. The history of the case makes this sutliciently clear, and the fact that the pregnancy seems to have gone on to the fourth month makes it almast certain, for in all the cases which I hare examined in the shape of museum specimens and post-mortem examinations where death took place from the rupture, and where, therefore, it was made perfectly certain that the rupture was a primary one and not secondary, the rupture had taken place not later than thirteen weeks. To this this there is no exception whatever. If Dr. ITerman will turn to Nonat's case in Bernutz, and Goupil's book (p. 239, vol. i), to which full reference is given in my lugleby lecture of 1856 on this subject, he will sce clearly enough what I mean. The point is one of intense interest, for the full account of which I could not ask space in your columus: but it will be, I think, made abundantly clear in 8 . work on the subject which is now going through the press.
1 agree also with Dr. Herman that it is almost certain that his patient in 1885 was the subject of a tubal rupture: and it is quite clear from the story he gives that the rupture also took place into the cavity of the broad ligament, making an extra-peritoneal
hematacele, that in the act of rupture the orum was destroyed, this being a mot uncommon termination of such cases. When the orum is not destroyed the pregnancy may go on to full time, and may be (as I think, most improperly) killed by an electric shock, as in the case cited by Dr. Aveling; but such cases belong to an altogether different category from those in which intraperitoneal hrematoceles are formed either by primary or secondary rupture.-I am, etc.,

Birmingham, Juue 2ntl.

## THE ELEOTlICAL TRRATMENT OF FIBROIDS

Sir, - Wuch has been written and said about the electrical treatment of fibroils. Surely this new treatment should be given a fair chance, and those who do not believe in it might wait a little while before condemning it in its infancy. Would it not be better for those unbelievers to follow exactly the rules laid down by Dr. Apostoli, instead of fighting over theories and new methods? Everyone seems to be trying to improve on Apostoli's treatment, instead of following his directions. To my mind, this is the chief cause of failure. I would even go further, and divide those who condemn this treatment into three classes-namely: 1, those who have had no experience whatever; 2, those who have failed from want of patience ; 3 , these who have neglected Apostoli's rules.

When I hear of failure of Apostoli's treatment, I am inclined to think that it has been imperfectly carried ont ; certainly this was the fact in some of my own early eases, and, after months of disappoiutment in my results, I found out that if $\mathbf{I}$ wished to succeed, something more than a knowledge of gynæcology was necessary. I mention this to show that I for one do not consider this electrical treatment so simple as some of your correspondents would have us believe.
Before this treatment can be given the position claimed for it by Dr. Apostoli and others, corroborative clinical experience, extending over several years, is absolutely necessary; and until we have this clinical experience, the profession ought, at least, to suspend judgment.-1 am, etc.,
35, Broak Street, W. A. C. Butler-Smythe.

## on hydrophobia and its treatment.

Sir, - In an article under the abore heading in the last issue of the Jourval (June 9th), Mr. Victor IIorsley says: "For there is no single case of reputed cure of developed hydrophobia by drugs or other means that will bear close investigation." Is this correct?
If this statement is meant to apply only to cases treated by, narcotic or supposed specific drugs or by the hot-air bath, I daresay it is perfectly true; but if it is meant to include those which have been treated by a different method (though there is no reference to it in the article above referred to), far more potent as a sedatire, and far more likely to avail, I doubt whether it is so.
I refer to the employment of copious blood-letting, relying chiefly on the anthority of Benjamin Rush and Clutterbuck: the former especially being an opinion of great weight, as a bold and judicious plysician of wide experience, probably second only to Sydenham among modern physicians. Each of these, in writing upon the subject, mentions several cases (about a dozen altogether) successfully treated after this fashion, not however within their own observation, but quoted from reports published in well-known medical or scientific periodicals in the latter part of the last or beginning of the present centuries. If these reported cases were genuine instances of hydrophobia-and it seems scarcely possible that the diagnosis should have been erroneous in every one--then it has been proved incontestably that bleeding to a large amount has actually saved some patients suffering from the disease. 1 have not been able as yet to get access to the original reports of these cases to verify the cuotations and read the histories in full, except an ahstract of one (that of Hartley in the Philosophical Transactions, which seems to have been genuine, though the symptoms were comparatively mild, perhaps cut short), and I should be glad to know whether or not there is any fallacy in the accounts; for if, as it appears, even these few cases have been saved in this way, it will be only right and proper to resort to it again Whenever the occasion presents, until a surer and milder remedy is derised.
The procedure seems severe-it is necessary generally to withdraw about 120 ounces of blood before the disease is overcome, and of course in a short period of time-but desperate diseases
justify heroic remedies, and tbis loss is not very serious when inevitahle death is the alternative.

Rush also states that two rabid dogs have been cured by free bleeding, hy cutting off parts of the tail or ears... In the Philosophical Transactions also there is an account of an outbreak of rabies in a pack of hounds, where several dogs that were attacked were cured by mercurial salivation.
In the human subject, certain auxiliary measures were usually employed in addition to the repeated bleedings, principally cold bathing and mercury. Opium was sometimes found to do harm. Hydrophobia presents some resemblance to puerperal convulsions, and who that has tried venesection will dispute the sure and immediate efficacy of the remedy in this complaint, far better than any mortal drug? I believe that most eases of puerperal convulsions yield to comparatively moderate bleedings, say 20 to 30 ounces at the outside; but if not, it is perfectly legitimate to follow the excellent guidance of Gooch, who urges the repetition of bleeding up to a total of 70 or 80 ounces if necessary; and it is not such a very long step up to the 100 , 120 ounces or more that will probably be needed in hydrophobia.
At any rate, if this method offers a fair chance of success, I think it preferable to depend on it rather than undergo M. Pasteur's system and run the risk of being inoculated fatally with the disease by the antidote.
Before putting the method of copious venesection into practice, it would be as well (as it is almost a lost art now) to read Rush's arguments on the subject (Inquiries, vol. ii) and to bear in mind his recommendations and cautions, for unless the plan be thoroughly and efficiently carried out, it may fail-really from misapplication. Unfortunately Rush's works are scarce, and not in easy reaeh of everyone. It is a pity that the New Sydenham Society does not republish an edition of a classie of such value.I am, etc.,
F. Lucas Benhan, M.D.

Elizabeth Street, S.W.

## ALBUMINOUS FOOD IN OBESITY.

Sir,--A high authority in the medical profession has recently raised an objection against the use of Professor Oertel's method of treating obesity, on the ground that an excessive consumption of albuminous food is apt to give rise to a uriemic condition. This implies that an excessive use of albumen is recommended by Oertel, which is not the case. It is not easy to see how this error can lhave arisen, for Dertel's quantities are repeatedly set forth with elaborate distinctness in his work (Therapeutics of Circulatory Derangements). We there find, in the "Special Diet in Obesity and Circulatory Derangements," that 156.7 and 170 grammes are allowed as the minimum and maximum quantities respectively of albumen from all sources. These amounts are 5.5 and 6 ounces $a v$. respectively. According to Moleschott. the a verage a mount of dry nitrogenous food per diem, suitable for a male European doing moderate work, is 4.5 ounces;' and Letheby's estimate. is the same. Oertel expressly states that the larger amount ( 6 ounces) "can only be given when, owing to strenuous muscular activity, as in mountaining-climbing, there is increased destruction of nonnitrogenous material within the body, and increased need for food." In the above calculations, the total amount of albumen is considered. If we regard the flesh meat alone, we find that Oertel recommends only 350 grammes ( 12.3 ounces) daily. Three-quarters of a pound of lean flesh meat can scarcely be called an excessive amount likely to set up a uremic condition in a man who is made to work. In a few of Oertel's cases rather more than the above-stated amount was prescribed, but this never exceeded 450 grammes (nearly 1 lb .). It is a pity that a system of treating obesity which lass received such recognition of various authorities on the Continent should in this country he dismissed to oblivion by a few vague words abont the dangers of an excessive supply of albuminousfood, when Oertel himself has indicated the suitable quantities in the most precise manuer; and these quantities, as we have seen, are by no means excessive.-I am, etc.,
Acacia Road, N.W.
Edward J. Edwardee, M.D.

## THE CONTAGFOUS DISEASES ACTS IN INDIA.

Sir,-All honour to Sir W. Foster for his clear definition of the true position which these Contagious Diseases Acts now hold in the opinion of the medical profession, and it is well for the British Medical Assaciation that one holding with such merit such $\Omega$ high and important position in what is probably the largest Medical Association in the world speaks with uo uncertain sound on one of the burning questions of the day.

## NAVAL AND MLLITARY MEDICAL SERVICES.

Military afficers holding the highest positions in the army in India have had their fair fame temporarily stained and their ligh character for morality spoken lightly of by their being, unknown to themselves, the ollicial channels for the immoral sewage of the Sanitary Department in India. I have known that Department for twenty years, and withdrew from it and resigned the service as I felt I could not serve in it as an honest man; and if the language of some medical ollicers is to be taken as a sample of its requirements under the Contagious Diseases Acts, and the duties of medical officers, as lately hinted at if not laid down by the Sanitary Commissioner of the North West Provinces and Oudh, as what may be expected of the medical officers under its orders, it scems now to be one unfit for a modest, as it was for an henest, man.

The whole case of these Contagious Discases Acts it is clear rests now with the medical profession; and if Reuter's telegram from Simla of June 7th, published in the papers of June 8th, is to be accepted, then "the members of the Indian medical profession" (which I presume mcans Service) "have resolved to memorialise Parliament against the repeal of the Acts." Judged by the verdict given by L'arliament on June 5th, I think they will find, if possible, a stronger opposition when in Sir Wource of that myself, as one whe in 1864 was in the Sanitary Department before the passing of these Acts, I will nndertake on any professional platform to support the eutire repeal of the Acts on purely medical grounds, as I utterly fail to see how an instance of such transparent lesuitism can be supported on moral grounds, when good, either physical or moral, is expected to result, not only from doing, but actually encouraging, what, under the circumstances, 18 physically injurions and under every condition morally wrong. matter up, and I am ready to prepare, read, and defend a paper at the meeting in Glasgow in August on the subject of the total repeal of the Contagions Diseases Acts in India on physical grounds and for medical reasons.- -1 am, etc.,

Robert Prinale, M.D., Surgeon-Major, late Sanitary Department, Mer Majesty's Bengal Army. Blackheath, S.E., June 8th.

## METHYLENE AS AN AN゙ESTHETIC.

Sir,-Believing as I do that methylene is the nicest anresthetic we possess, 1 am very glad to see the remarks of Sir Spencer Wells in the Journal of June 9th. Whatever chemists mny tell u8 of the results of their analysis of its composition, I ame perfectly sure that, in giving it, we are not giving chloroform. Its effect upon the patient is quite different. The rapidity with which consciousness returns contrasts strongly with the prolonged stupor produced by chloroform, and is a great element of safety.
My experience of Junker's apparatus is limited. Having to give methylene here for Sir Spencer Wells, some years ago, to a lady on whom ho performed ovariotomy, I used the Junker apparatus, On trying the same form of apparatus shortly after, however, on a strong man, I found it so difficult to get him under the influence of the anæsthetic that I had to resort to the common perforated ether inhaler, which 1 usually use, and which, if properly managed, is, I think, all that can be desircd. The great thing is, after inducing thorongh anesthesia for the first and most painful part of the operation, to give repeated doses of quite a small quantity, say ten or fifteen drops, and thus to just keep the patient insensible to pain and nothing more. In this way, anosthesia may be kept up during the longest operation by an agent which is safer than chloroform and pleasauter than ether. -1 am, etc.
Bath, June 9th.
Incautious fubication of a Case.-The proprietor of a private asylum for lunatics at Besançon was recently condemned on appeal to 500 francs fine and 2,000 francs damages for having published the clinical history of a patient whe had been placed in
his charge, he haring described the patient under the initial letters of her name and in such a way that the identity of the subject of the report was easy to ascertain. The judges ruled that a medical man has no right to divulge matter confided to him in the exercise of his professional duties in such a manner as to permit the public to ascertain the identity of the individual whose case is described.

## CILANGES OF STATION.

THe following changes of stationamong the officers of the Merical Staff of the Army hare been officially notified as haring taken place during the past month:-

Surgeon-General W. S. Muray, M.B. Dep.Surg-Gen.J.A. Marstom, C.H..M.D. Brigade-Surgeon M. F. Paterson, M.D. H. F. Paterson
A. B. R. Myers

Surgeon- ${ }^{\text {Major } C . F . ~ C h u r c h i l l, ~ I L . B ~}$ II, W. o'Conmell, M. U." J. Latchford, M.B. C. F. Dwyer ...
J. C. Dorman. iL. A. II. Stokes, M.B. E. II. Fenu

Surgeon


## To

 Portsmouth. . Woolwich. ... Colchester. Brig. Foot Gds. Bengal... Hublin.
... Niova Scotia
... Hong Kong.

- Hong Kan

Dubin. Coldstreama Coldstreamag . 1 lome District. .. York. Bengal.
.. York.
",

... Netley.

- Redear.

Hounslo
… Dounsianaw.
", J. M' Lauphtliu, M.J.... ....
J. C. IIaslett, M.D. ...
J. C. Haslet, M.D.
J. IR. Barefoot
J. I. P. Doyle

Simmapore..
Singrapore... ... Devonnort
Hulme

| J. I. P. Doyle | $\ldots$ | $\ldots$ |
| :--- | :--- | :--- |
| C. Mirt | $\ldots$ | $\ldots$ |
| H. Mitehell | $\ldots$ | $\ldots$ |

Jamaica
York
Marchwood
Dublin.
Beaumaris.
H. Mitehell ... ... ...
W. Turner ...
B. W. W. Norfor, M.B.
B. O. W. Norfor, M.B. .... Cauterbury
.. Grenmilier Gds.
C.J.W. Tatham $\quad . . \quad$... Dover $\quad . .$. ... Lydd.
C. Garner, M.B. .... ... Shorncliffe .... Jamaica- Bermuds
W. F. Bailey, M.D. ... ... Beltutuet ... . ... C. of Good Hop
5. Eckerslef, M.B. ... ... Sheffield ... ... Bererey.
D. M. Saunders, M.D. ... Sallord ... Home District ... ... Bengal.

R. N. Buist, M.B. ... $\quad . .$. Aldershot... $\quad . .$. N. British Dist
 J. Minuiece, M.D.
J.C. Veir. M.B.
J. C. Weir, M.B. ... ... York

Colchester
Cupar.
Altcar Camp.
", J.Girvin
ARMY MEDICAL DEFENCE FUND.
Sir,-In the Journal of June 9th "Mledical Staff" has written to you regarding the grievances of the Army Nledical Department, and thus concludes his letter: "It only remains for SurgeonGeneral Jrving to lay the details of his scheme before the medical ofncers of the army through the columns of the Journal, calling for the names of those willing to subscribe, and the necessary
financial support will be at once secured him." To this I reply fhat in my letter to you published in the Journai of May reply that in my letter to you published intended was to as to the means of al dressing grievances in the Army Medical Department which had had a good effect when carried ont in reference to the Indian Service. From the letter of "Medical Staff," and from others which I have received, however, it scems to he taken for granted that 1 am anxious to enter into the controrersy. But this is not the case, as I should be quite out of place if I did. The cause of the officers of the Army Medical Department must he taken up hy retired officers of their own service, of whom no doubt there are many in London able and willing to hight for their brethren whose months are closed. If anything is to come of it, men in the this Committee should engage o pacers to form a committee, and for an office in town. An appeal should then be made to roomhers on the active list for a small subscription towards the carrying ont the objects of the Committee. All this was done in tho case of the Indian Medical Department, and should be as easy of accomplishment in the case of the Army ledical Department if the members of the latter serrice really wish it. But writing is of little use until some action is taken so as to secure the name: of men to serve on the Committee. Trated is a good man of business who will receire his instructions from the Committee, and carry them out.

No doubt it is truc, as "Medical Staff" says, that officers on the active list cannot appear as initintors of the movement, but they can induce those on the retired list to take up the matter, and through the latter bring forward all that it is desired to hare redresscd. Except this be done it is hardly likely that retired officers will take the initiative or act unless they perceive that those
defect was one of the objects of the Bill. Complaints had been made of the lax enforcement of the law by the lharmaceutical society, which had not money to carry on prosecntions. It had been suggested that some of those who had taken advantage of the lax state of things should be allowed to continue their trade if they passed a moditied examination, and should have their names inscribed on the register. A similar provision was made for the protection of assistants. There,were also provisions for removing uncertainty as to the proprietorship of establishments Where the sale of poisuns was carried on, and requiring that they should in all cases be under the personal management of qualified persons.-Farl Cadogan said that the subject of the Bill was not only one of great importance, but also one of great complexity. It was extremely difficult to unravel the various differences which had arisen between the several bodies who produced poisons in Ireland. The Government of Ireland were anxious that the Dill should not pass without further examination, but they had no prejudice against it. They were determined to ask the House to read the Bill a second time on the understanding that it should be referred to a Select Committee. To that course his noble friend had asseuted, and he now begged to recommend their lordships to adopt it. The Bill was read a second time, and was then referred to a Select Committee.

## HOUSE OF COMMONS.-Tuesday, June 5th.

English Doctors in Suitzerland.-Dr. Farquharson asked the Under Secretary of State for Foreign Affairs whether he was aware that certain legally qualified English medical practitioners had Jately been fined and threatened with imprisonment by some of the anthorities for practising amoug invalids visiting Swiss health zesorts; and whether, in the interests of such invalids and of members of the English medical profession, he would make representations to the Swiss Government on the subject--Sir J. Fergcsson replied that the statement in the first paragraph was true. The laws of Switzerland did not permit foreign doctors to practise there without the Federal authorisation. IIer Majesty's Government had for some time been endearouring to arrauge with the Swiss Government reciprocal privileges for the medical profession in either country, but as yet without success.

## Monday, June 11th.

The Toyal College of Surgeons.-Sir G. IIUnter asked the VicePresident of the Committee of Council on Education when a reply to the deputation of the Association of Members of the Royal College of Surgeons, received by the Lord President of the Council on forember 11th, 1857, might be looked for--Sir W. Hast Dyne said, since the Lord President received the deputation of November 11th, he had fully considered the statement submitted by shem. All petitions and statements on the snbject were referred so a Committee of the Privy Council; and, as no legal questions xere involred, it did not appear necessary to hear counsel. In consequence of the circumstances bronght forward, the supplemental charter, as submitted by the College, had been considerably modified.

## PUBLIC HEALTH

## POOR-LAW MEDICAL SERVICES.

## DISEASES OF TIIE RESPIRATORY ORGANS AT MIDDLESBROUGH.

Tire number of deaths from pneumonia in Middlesbrough continues to be very large. In the first eleven days of this month thirty-two deaths are stated to have been registered as due to pnoumonia; of these twenty occurred in the week ending. June Th. The Local Government Board has directed an inquiry to be made which will be conducted by Dr. Ballard, one of the Medical Inspectors of the Board, who has already caused inquiry forms to be issued by the Lrocal Sanitary Authority to medical practitioners in the town asking for information with regard to all cases of pucumonia which have occurred since, November.

## DIPIITIERIA ON゙ SHOOTER'S H1LL.

From zome correspondence which is taking place in the Kentish Indeperdent we regret to learn that there is at present, and by no weans for the first timc, an epidcmic of diphtheria on Shooter's

IIill. Indeed, Captain Fivian, the author of a sensible letter on the subject, spenks of an "annual cpidemic," and states that he has refused to pay any local rates "until an efficient inquiry is instituted into the general question of the drainage of this district.'

Healti of English Towns.-During the week ending Saturday, June $9 t h, 5,506$ birthe and 2,915 deaths were registered in the twenty-eight large English towns, including London, which have an estimated population of $9,398,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had declined from 18.9 to 17.6 in the three preceding weeks, further fell to 16.2 during the week under notice, a lower rate than in any week since September last. The rates in the several towns ranged. from 12.5 in Birkenhead, 12.8 in New-castle-upon-Tyne, 12.9 in Nottingham, and 13.6 in Derly to 22.3 in Huddersfield and in Norwich, 22.4 in Blackburn and 25.0 in Manchester. The mean death-rate in the twenty-seren provincial towns was 17.3 per 1,000 , and exceeded by 2.4 the rate recorded in London, which was only 14.9 per 1,000 . The 2, 215 deaths registered during the week under notice in the twenty-eight towns included 265 which were referred to the principal zymotic diseases, against 330 . 285 , and 282 in the three preeeding weeks; of these, 81 resulted from whooping-congh, 42 from diarrhœa, 40 from measles, 36 from scarlet fever, 31 from diphtheria, 24 from "fever" (principally enteric), and 11 from small-pox. These 265 deaths were equal to an annnal rate of 1.5 per 1,000 ; in London the zymotic death-rate was 1.6 , while it a veraged 1.4 per 1,000 in the twenty-seven provincial towns, and ranged from 0.0 in Portsmouth, Norwich, Birkenhead, IIalifax, and Sunderland to 2.9 in Huddersfield and in Cardiff, and 3.0 in Preston. Whoop-ing-cough caused the highest proportional fatality in Wolverhampton, Bolton, Manchester, and Huddersfield ; and scarlet fever in Cardiff. The 31 deaths from diphtheria in the twenty-eight towns included 22 in London, 2 in Liverpool, and 2 in Birmingham. Of the 11 fatal cases of'small-pox recorded during the week under notice, 6 occurred in Sheffield, 4 in Preston, and 1 in Bristol, No small-pox patients were under treatment in the Metropolitan Asylums Hospitals on Saturday, June 9th. These hospitals contained 853 scarlet fever patients on the same date, showing a slight further decline from recent weekly numbers; there were, however, 89 admissions during the week, against 66 and 78 in the two preceding weeks. The death-rate from diseases of the respiratory organs in London was equal to 2.3 per 1,000, and was considerably below the average.

Healti of Scotch Towns.-In the eight principal Scotch towns 849 birthis and 468 deaths were registered during the week ending Saturday, June 9th. . The annual rate of mortality, which had been 20.9 and. 19.3 per 1,000 in the two preeeding weeks, further declined to 18.5 during the week nnder notice, but exceeded by 2.3 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns the lowest rates were recorded in Leith and Dundee, and the highest in Aberdeen and Perth. The 468 deaths in these towns during the week nnder notice included 44 which were referred to the principal zymotic diseases, equal to an annual rate of 1.7 per 1,000 , whieh exceeded by 0.2 the mean zymotic deathrate during the same period in the large English towns. The highest zymotic death-rates were recorded in Aberdeen and Glasgow. The 211 death's registered in Glasgow included 14 from Whooping-cough, 5 from measles, 3 from scarlet fever, and 2 from diphtheria. The death-rate from diseases of the réspiratory organs in these Scotch towns during the week under notice was equal to $4: 1$ per 1,000 , against 2.3 in London.

Health of Jrish Towns.-During the week ending Saturday, June 9 th, the deatlis registered in the sixteen pinincipal town-districtsiof Ireland were equal to an annual rate of 24.0 per 1,000 . The lowest rates were recorded in Kilkemy and Wexford, and the highest in Galmay and Lishurn. The deathrate from the principal zymotic diseases in these towns averaged 2.8 per 1,000 , against 1.5 in the twenty-eight large English towns. The 147 deaths registered in Dublin during the reek under notice were equal to an aunual rate of 21.7 per 1,000 , which showed a further decline from the rates recorded in the two prececling weeks. The 147 deatlis inclnded 19 which resulted from the principal zymotic diseases (equal to an annnal rate of 2.8 per 1,000), of which 11 were referred to whooping-cough, 3 to scarlet
ferer， 3 to．＂fever．＂ 1 to measles， 1 to diarrhea，but not one either to small－pox or diphtheria．
qualification and mplomas in state medicine．
C．P．Menn．－We would refer our correeponilent，who asks for ioformation respecting the qualifiealion，etc．，giveu by Oambridge Unlversity for medical oficers of health，the the studeats＇Xumber of the JounixiL for September 10th，1887，where he will tind tull details givea（page 593）．

## UNIVERSITY INTELLIGENCE：

CAMBRIDGE．

Lecturaship in Geography．－The Committee of Election （representing the council of the Senate and the Royal Geographi－ cal Society）have selected，as the first holder of the new Lecture－ ship in Geography，Francis，ITenry Hill Guillemarà，M．A．，M．D．， of Gonville and Caius College，and formerly of St．Bartholomew＇s． Dr，Guillemard is a Fellow of the Geographical，Linnean，and Yoological Societies，and is well known as the author of the Voyage of the＂Marchesa＂to Kamschatha and Neu Guinea．He is at present in Cyprus，aiding in the archeological explorations undertaken there by the universities，but is expected to return and enter on his duties in the Michaelmas term．Dr．Guillemard has published a pamphlet On the Endemic Hamaturia of Hot Climates，and is creditcd with other professional papers in the medical and scientific journals．

## MEDICAL NEWS，

## medical Vacancies．

The following Vacancies are announced
anderson＇s college dispensary，Glaggow．－Physician．Applica tlons to David Wilson，Esq．，Honomary Secretary，42，Bath Strect， Qlasgow．
ANDRRSON＇S COLLFGE DISPENSARY，Glasgow．－Surgeon．Applications to David Wilson，Esq．，Honorary Secretary，42，Dath Street，Glasgow．
DUFFUS PAROCHIAL BOARD，－Medical Officer．Salary，\＆35．Applications by Junc シ3rd to John Nicoll，Esq．．Iospeetor of Poor，Hopeman．N．B．
EAST LONDON HOSPITAL FOR CHILDREN，Shadwell，E．－Resident Clinical Assistant．Board and lodging．Applications by June 28 th to the Secretars．
sDINBURGH CITY PODR MOU＇SE，Cmiglockhart．－Resident Medical Officer． Salary，\＆75 per aunum，with board．Applications by June 25 th to Mr． G．Greig，Iospector，Cit＇I＇arish Chambers，2，Forrest Road，Edithburgh．
EVELINA HOSPITAL FOR SICK CHILDREN，Southwark Bridge Road．－ Surgeon to Out－paticnts．Applications by June 25th to the Committee of Management．
GLASGOW HOSPITAL FOR SICK CHILDREN．－Assistant Honse－Surgeon． Applications to M．1＇．Fraser，Esq．，91，West legent Street，Glasgow
GUEST hospital，Dudley．－Resident Medical Officer．Salary．fllo per anaum，with beard and residence，ete．Applicalions by June 21st to the Secretary．
LONDON TEMPERANCE HOSPITAL，Hampstead Road，－Surgeon．Appli－ cations by June 16th to the Secrearary．
london throat hospital， 204 ，Great Portland Street，W．－House－ Surgeon．Applications by June $2 \pi$ th to the Secretary of the Medical Com－ miltee．
METROPOLITAN ASTLLUS BOARD：WESTERN FBTER HOSPITAL， Fulham，S．W．－Climical Superintcudeut at the Hospital．
NEWTON HEATH（MANCHESTEH）DISTRICT．－Medical Officer of Health． Salary，e50 per aunum．Applications ly June 18th to the Cbairman of the Local Beard of llenlih，Town Hall，Newton Heath，Manchester．
NORFOLK AND NOLWICH HOSPITAL．－Honorary Physician．Applications lig June 18th to the Secretary．
NOHFOLK AND NOHWICLI HOSPITBL，－LlloDorary Surgeoti，Applleatlons by June 16 th to the Secretary．
NORTH－BASTERN hospital for children，hackncy Poad，E．－ Jnnior Ilouse－Surgeon．Salary．$£ 30$ for six months．Applications by June 19 ht to A．Nixon，Esqu．，Secretary，27，Cloonent＇s Lane．\＆．C．
oxford hye inspital．－House－Surgenn．Board and lodging．Applica－ tious by June goth to the Secretary， 22 Wellington Square，Oxford．
PARISH OF FDDLACLILLIS，Sutherland．－Salary，£150 per anoum，with free house．Applications by July 15 th to Mr．A．1．Cowie，Iuspector， Scourte ly larg，N．B．
PABISII OF KInKMABEECK，Kirkeudhightolire－Medical Officer for the Poor．Salary，$: 35$ per anmum．Applications ky July 14th to Mr．J．Carson， Inspector of Poor．Crectown，N．B．
PABISII OF LOClIS，Stornoway，－Melical Oficer．Salary，fl40，housn and rilcs free．Applieations by June 23 rd to 1 I ．McL． Hose ，lospector of the Poor，l．ochs，Stornowas．
PABISHES OF PliNNYGOWN ANII TOROSAY．－Medical Officer．Salary， fino per anoum．Applications hy July 3 rid to Mr．A．McDongall，Iospector of Poor，Auchancraig，Oban，N．B．

PRISOA COMMISSIOXEIIS，SCOTLAND．－Resident Surgeon for one of Mer Majesty＇s prisons in Scotlinn．Saiary，£2ut per anmum，with residence or allowance．Appliations by Juac esith to the Secretary，I＇rison Commission allowance．Apptiations by Juac Eind，13v，George Strect．Edinbarah．
QUEENS COLLEGE，Birmiogham．－Assistaut Medical Tutor．Applicatinns by June 20th to the Secretary．
RAMSGATE AND ST．LAWTIENCK ROYAL DISPENSARY AND SEA－ MEN＇S INFIKMAKY．－Resident Medlcal Officer．Salary，£120 per ammum， with furnished apartments，etc．Applications by June wrd to the Secretary．
ROYAL ALBERT HOSPITAL，Devonport．－Assistant House－Sargenn，Bear．l and lodging．Applleations hy June 18 th to the Chairman of the Managlans Committee．
ROYAL SOUTH HANTS INPIRMARY，Southampton．－House－Surgeon． Salary，£100，board，lodging，ete．Applications by June 20th to the secre－ tary．
SHEFFIELD GENERAL INFLHMARY．－House－Surgeon．Salary，£120，with board，lodging，etc．Applications by June leth to the Secretary．
SHEFFIELD GENBILAL INFIRMALY゙．－Assistant Ilouse－Surgeon．Salary， $£ 80$ per annum，with board，lodingg，etc．Applications by Juae ISth to the Secretary．
SURREY DISPENSARY，Great Dorer Street，Southwark．－Hnuse－Surgeon． Salary，f120，and furnished apartments．Applications by June Iyill wo the Suhcommittee．
WEST LONDOS HOSPITAL，Hammersmith Road，TW．－Physician．Appli－ catlons by June 21st to the Secretary Superintendeut．
WEST LONDON MOSPITAL，IIammersmith hinad．W゙－Assistant Physician． Applications by June 21st to the Secretsry Superintendent．
WEST LONDON HOSPITAL，Hammersmith Road，W．－HousePbrsician． Board and lodging．Applications by June 2Ist to the Secretary Superiz－ tendeat．
WEST LONDON ILOSPITAL，Hammersmith Road．W．－IIonse－Surgeon． Roard and lodging．＂Applications by June 21st to the Secretary Superiz－ tendent．
WESTPORT UNION．－Medical Officer，Westport Nio． 2 and Loulshargh Nio． 2 Districts．Salary，£39 per annum，sad fees，Election on June 2tih．
WEST SUSSEA，EAST HANTS，ANI CHICIIESTER INFIRNARY，－ITouse－ Surgeon．Salary，£l00，with board and loiging．A pplications by Jun
to the Honorary Secretary，E．Arnold，Esq．，White Hall，Chichester．
WOLVERHLMPTON AND STAFFORDSHLRE GESF1BAL HOSPITAL．－ Resident Assistant．Board and lodging．etc．Applleations by Jupe 25th to the Chairman of the Medical Committee．

## MEDICAL APPOINTMENTS．

ADAMs，F．E．，M．D．，M．Ch．，sppointed Medical Officer to the Welllngborough Medical Institutc．
Althorp，C．F．M．．M．B．Lond．．appointed Fesident Medical Officer to the Ida Convalescent Home，Cookridge．
Berry，James，M．B．，B．S．Lond．，F．R．C．S．，appointed AssistautrSurgeon to tho Royal Free Hospital，Gruy＇s Inn Road．
Cagmer，James．M．D．，appointed Assistant Physician ann Pemistrar to the Hospital for Epilepsy and Paralysis，vice H．W．syers，M．D．，resigned．
Carr，J．W．，M．D．，B．S．，F．R．C．S．，rppointed House－Phssician to the Victoria IIospital for Children，S．W．，vice H．Cholmeley，M．B．，résigned．
Chascbers，James，M．D．，appointed Assistant Medical superintendent to the Counties Asylum，Carlisie，vice S．K．Maephail，M．D．，resigueal．
Clark，F．W．，L．R．C．P．，M．R．C．S．，appointed Assistant Medical Otheer to the Darenth Schoel for Imbecile Children，vice W．T．Maddison．M．B．． resigaed．
Cumming，Robert，M．B．，C．M．Aberd．，appointed，Assistant Mecical Officer to the Perth District Asyluni，Murthly．
IIscos，Watter E．，L．R．C．P．Lond．，M．IS．C．S．Eng．，L．S．A．Lond．，appointed Honorary Pbysician to the Cbristchurch Hospital，New Zealand．
Hacl．A．R．，M．D．Brux．，L．B．C．P．．M．R．C．S．，appoluted Surgeon to the Lurap－ etead Provident Dispensary
Habrey，F．G．，M．R．C．S．，L．IR．C．P．，appointed Resident Merlical Officer to the Hospital for Diseases of the Throat，Golden Square，vice P．S．Iutchinsom． M．K．C．S．，L．S．A．，resigned．
IIfydersos．T．，M．B．，C．Ml．，appninted Assistant Resident Medical Officer to the Chilaren＇s ITospital，Birmingham，vice F．T．Roberts，M．13．，resigued．
1IOLT．A．K．，M．R．C．S．Eng．，L．1t．C．I＇Lond．：appoiated llouse－Physician to the North stiffordshire Iulirmary，vice s．K．Aicock，M．R．C．S．，resigmed．
INGLF，A．C．，M．B．，M．R．C．S．，appointed Surgeon to the Lowestaft Frirnily Societies Medical Institution，zuce D．C．Smith，M．D．，resigned．
Mackevzie，W．J．，M．B．，C．M．Glas．，appointed Medical Officer to the Parieh of St．Mary，Islington，vice J．II．Donald F．R．C．S．，resigmed．
Macpianle＇，S．R，M．D．Edin．，sppointed Malical Offer to tho Derby lomugh Asylum．
Morison，F．W．，M．R．C．S．，L．R．C．P．Tonl．．appointed Surgeor to the Che；ien， Brompton，and Belgrave Dispensary，zice Leousri Mark，M．K．C．S．，L．I．C．P． reṣigred．
Prowse，J．S．，M．B．，B．G．Camb，appointes\} Junios Ilouse-Eurgma to the Weatern Gereral Dispensary．
Rouefte，E．T．，M．B．，C．M．，appolnted Redidont Melinal Oficer io the Chil dreu＇s llospital，Biranin；him，tice（i．W，l＇uwell．M．B．．resiznet．
IRobsox，F．S．，M．R．C．S．arpointed llonomry Surgons th tho Durlam Curaty llospital，vice F．W．Larron，MT．B．．M．A．C．S．，resigned
Statimthorpe，T．，M．D．．F．R．C．S．．Late I＇residant of the North of Fagland branch of the British Medical Astmiation，appointel Comentiong 1 hysic ano to the Tynedale Ifyeropathic Mansios，Ilexhan．
Stapeliy，W．II．C．，L．R．C．P．，M．R．C．G．，apminted 1Eusn－ungeen to the


Thonrsor, A. L.D.S.R.C.S., apmintel Honorary Surgeon-Dentist to the Durhant County Ifospital.
Thanpsor, E. E., L.R.C.P., L.S.A., appointed Medical Officer to the Munslow District of the Ludlow Union, viee A. C. Malley, M.B., B.S.Dub., resigned. WHirtakea, George O., L.D.s. ling., appointed Honorary Dental Surgeon to the Mancliester Mospital for Consumption and Diseases of the Throat.
Fivace, F., Min.Lond. F.ll.C.S., apmointed Acting Surgeon to the Birmingham and Middand Skiu and Lock Hospital, vice 1I. T. Bassett, M.B., resigned.
Loyal Collegf of Surglons of England.-The following gentlemen having passed the necessary examinations on May 23rd, 3th, 25th, 26th, シ8th, and 29th, 1888, for the diploma of Fellow, were, at a meeting of the Council on June 14th, admitted Fellows of the Collece.
J. Adunns, M.D.Aberd., Ashhurton, Devon ; A. S. Morton, M.B., C.M.Edin., 26, Wermouth Street, W. J. A. Kempe, L.R.C.P.Lond, Hoyal Alexandra Hospltal, Brighton: J. Mackern, M.D.Cantab, 30, Cambridge Street. Hyde Park, W.: T. F. Pearse, L.K.C.P.Lond., 10, Montague Street, Ruesedl Square, W.C.: H. W. Dodd, L.R.C.P.Lond., 47, Kensington Park Gardens, W.: C. A. Morris, M.B.Cantab., 33, Myddelton Square, E.C.: W. Hind. M.D.Lond., 8, Woodhouse Terrace, Stoke-on-Trent: E. W. willett, M.B.Oxon., 60, Welbeck Street, Cavendieh Square, W. ; E. C. Arnold, L.R.C.P.Lond.: Hurat. Fairfeld Road. Croydon; G. L. Wells, M.B. and B.S.Loud, ${ }^{16 .}$ Heatheote Street. W.C.; J. M. E. E. Mrock, L.1R.C.P.Lond., 62, St. John Street. Oxtord; T.P. Beddoes. L.S.A., 89, Lambeth Palace Road; F. C. Hart-Smith, M.B.Lond., St. Peter's Rectory, Bedford: H. Armstrong, L.R.C.P.Lond.. Aylestone Hill, Hereforif; R' R. Whishaw, L.R.C.P.Lond., IV, Mount Moad, New Brighton, Cheshire ; H. S. Walker. L.R.C.P.Lnnd., The Elms, Wakefield; R. F. Jowers, L.R.C.P.Lond., 27, Old Steyne, Brighton; F1. Tonks, L.R.C.P.Lond., Parkwood Grange, Knowle. Warwicksliire; K. Totsuka, L.R.C.P.Lond., CS, Lambeth Palaee Road ; E. Solly, M.B.Lond., Congleton, Cheshire; C. J. Shields, M.B.Melb., 3sp, Citv Moad. E.O.; A. S. Taylor, M.B.Cantab., Jkichmond House, Eliot Park, Blackheath. S.E.; F. H. Taylor, M.B.Lond., 8, Pyrland Road, N.; A. A. Kanthack, L..R.C.Y.Lond., 1 , Betley Villa, Church Grove, Mampton Wick. Middlesex; P. W. Rattray. M.B.,
C.M.Aberd., 7. Approach Road, E.; D. 1. M'Kinnon, M.B., C.M.Aberd., C.M.Aberd., ${ }^{7}$. Appronch Road, E. $:$.
Bethnall Houze, Cambridge Road. E.

Fifty-six candidates presented themselves for examination, 31 of whom passed (including 3 candidates who have not yet attained the legal age) and 25 failed.

The following gentlemen having passed the necessary examination at previous meetings of the court, and having since attained the legal age ( 25 years), were also admitted Fellows.
W. Fox, L.R.C.P.Lond., 3. Brambletrre Park Hill, Croydon; J. W. Washbourn, The Friars. Gloncester; ' P. A. Lloyd, L.11.C.P.Lond., 10I, St. Mark's Road, North Kensington.
The following gentlemen having passed the necessary examinations, and having obtained medical qualifications, were admitted Members of the College.
V. Allen, L.R.C.P.Lond., 99, Belgrave Road, S.W.; U. Banerii, L.R.C.P.Lond., Raituir, Bombay; G. A. H. Barton, L.S.A., St. Mary' Hoapital; R. J. Braye, L.R.C.P.Lond., I3, Lincoln Street. Leicester: M. P. Cooke, L.S.A., Fern Honse, Landkey, Barnataple ; W. L. Mathias, L. R.C.P.Lond., 49, Montpelier Road, Brighton; A. A. Parry, M.B.Melh., 9, Euston Square, N.W. E. V. Phillips, L.R.C.P.Lond., Kibworth, Beauchamp, Leicester; E. T, is. Tunnicliffe, L.S.A., Whetstone. N.

Ring asd Queen's College of Pifysiclans in IrtlandAt a apecial examination for the Licence to practise Midwifery of the College, held on Friday, May 18th, 1888, the following candidate was successful.

## f. A. Logan, M.D., R.U.I., Bellast.

At the ordinary monthly examinations for the Licences to practise Medicine aud Midwifery of the College, held on Monday, June 4th, 1888, and three following days, the undermentioned candidates were successful.

For the Licences to Practise Medicine and Miduifery.-W. A. Murray, L.R.C.S.I., Dublin; T. II. Straugman, L.R.C.S.3.. WaterIord.
For the Licence to P'ractise Meclicine unly.-J. A. O'Finegan. L.R.C.S.I., Dublin.
For the Licence to Praclise Miduifery only.-W. D. Moore, M.D., Q.U.I., Belfast.
Royal Collecge of Surgeons, Ireland.-Mr. J. Bellew Kelly was crroneously stated in our last number to have been returned as a momber of Council. Dr. 11. G. Croly has declared himself a candidate for rice-presidency in 1889. It is stated that another candidate will also le in the ficld.

AT a mecting of the Council of the Pharmaceutical Society of (ireat Lritain on June bith, Mr. Michael Carteighe, F.l.C., F.C.S., was electel l'resident of the Society for the serentla year in succession.

Presentation. - Copon June 12th Dr. W. E. Dawson, medical ollicer, tras presented by the members of Court Wenlock, A.O.F., with a silver casket, richly gilt and engraved.
Dr. Mazzarini, late Assistant Surgeon in Professar Loreta's wards, in Bolognn, has succumbed to splenic fever.

A course of clinical lectures and demonstrations is to be given during June at the Laspital for Sick Children, Great Ormond Strect. The medical course will be delivered by Dr, Sturgea on Fridays, at 3.30 ; the surgical course by Mr. Edmund Owen, on Saturdays, at 9.30 A.M. During the remainder of the summer seasion, Dr. Barlow will give weekly demonstrations of casea in the wards at 10.15 A.M. on Tuesdays, commencing June 26 th. Mr. John Morgan will lecture on Saturdays at 10.30, on congenital deformities, commencing June 30 th.
Geh. Rath. Professor Dr. v. Bergmann has been elected an honorary member of the St. Petersburg Surgical Society.

## DLARY FOR NEXT WEEK.

## MONDAY.

Rotal Colrege of Surgeons of England, 5 P.m.-Mr. R. Mareus Gunn (Arria and Gale Lecturer): On Light-percipient Organs.

## TUESDAT.

Rotal College of Phisicians of Londox, 5 p.m.-Dr. Donald MacAlister The Croonian Lectures on Antlpyretics.

WEDNESDAY.
Hotal College of Surgeoxs of England, 5 p.m.-Mr. R. Marcus Gunn (Arris and Gale Lecturer) : On Light-percipient Organs.
Hospltals Assoolation, 8 p.e.-Governors' Hall of St. Thomas's Hospital. Adjourned diacnssion of a paper by W. Burdett-Coutts, Esq.: M.P., on Contributions by Patients in Relation to the Fianncial Condition of London Hospitala.
Rotal Meteobological Society, 7 P.m.-The Hon. Ralph Abercromby: First Report of the Thunderstorm Committee. On the Photographa of Lightuing Flashes. Mr, Charles Harding: The Cold Period from Septemher 1887 to May 1888. The Hon. Ralph Aber cromby: Observations on Cloud Movements near the Fquator, and on the 'genera! Character of the Weather in the Doldrums.

## THERSDAY,

Royal College of Physicians of London, 5 p.m.-Dr. Donald MacAlister: The Croonian Lectures on Antlpyretics.
Obstefrical Society of London, 8 p.m.-Adjourned debate on papere by Dr. Steavenson, Dr. Lovell Drage, Dr. Gibbons, and Dr. Shas on Electrolysis in the Treatment of Diseases of Women.

## FRIDAY。

Rotal College of Surgeons of Enoland, 5 P. h.-Mr. R. Marcus Gunn (Arris and Gale Lecturer): On Light-percipient Organs.

## satcidiat.

Anatoucal Society of Great Britain and Irkland, Anatomical Muaenm of the University of Camhridge, 4.30 P.M.-Alex. Macalister, F.R.S. : Dissecting-room Notes and Specimens. John Curnow: Specimen of Abnormal Development of the Skull. Johnson Symington: (1) Two Adult Temporal Bones, with non-union of the Periotic and Squamous Portions. (2) A Section of the Head to ahow the Air-passagea connected with the Ear. (3) Sections of a Female Pelvis. W. H. Gaskell, P.R.S. : Preparationa jllustrating the Strueture of the Cranial Nerves. A. M. Paterson: Microscopic Specimens illustrating the Development of the Spinal Nervons System. W. II. Caldwell: A new Microtome. Frederick Ireves: Hernia into the Foramen of Winslow. Johnson Symington: On the Rectum and Anus. Alexander Hill: (1) Subcallosal Convolution. (2) A new Staining Method for Nerve-cells.

## BIRTHS, MARRIAGES, AND DEATHS.

The eharge for inserting announcements of Births, Marriages, and Deaths is 3s. $6 d$. . which should be forwarded in stamps with the announcement.

BIRTH8.
Herbert.--On June 7th, at 7, Abhey Terrace, West Cliff, Whitby, the wife of Johnaon Herbert, L.R.C.P.. etc., medical officer of health, of a daughter.
Hours.-On May 3rd, at Yasa, New Sonth Wales, the wite of Alton Kingsley 110 to, M.R.C.S.Eng., of a daughter.
Nelifan.-On May 8th; at Penmorla, Friends' Road, Croydon, the wife of J. W. Neligan, M.D., of a aon.

## MARRIAGES,

Bheit-Telford. - On June 5th, at Brighton, near Meibourne. Victoria, John Talhot Brett, M.R.C.S.Eng., L.H.C.P.Lond., eldest son of the lato Deputy Surgeon-Geueral Mer Majesty'a Indian Army, to Margaret Stirling, third danghter of the late Jamee Campbell Telford, M.D., of Cobran, New Sonth Wales. (Per Renter'a cable.)
Stainteorpe-Peat.-On June 5th, at the West Free Chureh, Broughty Ferry, by the Rev. G. E. Troup, M.A., William Waters Stajnthorpe, M.D., of Kirkleatham, Redcar, to Clementima Janet Peat.

## DEATHS.

Ewan, -At Parkeston, Harwich, on Saturday, Jane pth, John Prazer Ewan, M.D., B.Sc., Edinhurgh, of Sydney, New South Wales, aged 33 years.

Terf.-On June 9th, at Chiswiek, Thomas Marrington Tuke, M.D., F.R.C.P., etc., of the Manor Honee, Chiswick, and 3i, Altemarle Street, aged 62.

## ACEIREX．

## OPERATION DAYS AT THE LONDON HOSPITALS．

1ONDAY．．．．．．．．．．10．30 4．M．：Royal London Ophthalmic． 1.30 P．M．Guy Ophthalmil Ihepartnent）：and Hoyal Wustnainster Ophthal． Dic．－3P．M．Mntropolitan F＇ru．St．Mark＇s：（intral London Oplithalmin：Koyal Urt hopradic：and Hospital for Wonmen．－

 Hoyal lomen whehalmic．－ 1 ．jo ris．：Guy：：St．1＇athole mey＇（Ouhthalmic leamemelat）：St．Marys：loyal We st min－ mernalmic－sp，a．：Weatminster：Et．Nath＇s：（blitral tif

 Ophthanic．－1 p．M．：Mithilesex．－1．30 r．3F．St．Bariholomew
 Lomlon；l＇niversity Collage：Wectminster；Great Nothern Central；Central Lundwa Ophthalmic． 2.20 P．M．：Samaritab Free llospital for Women and Children ：st．L＇eter＇s．－$\$$ to to P．M．：Kinges College．
THURSDAY
10．30 A．m．：lroyal lonulon Ophthalmic．－I P．AR．：St．Georg
 Guy s Ophthatharing Cross：London：St．Thomas＇s Obstet－ mice－Derartinent Central London Ophthaloic：Hostital for ric Department Cemal Ilospital for Women．－2．30 P．M． Diveases of the Chroat；Ihospital for Women．
$9 \mathrm{~A} . \mathrm{M}$ ：Sit．Mary＇s（Ophthalmic Depistment）．-10.30 A．m Hoyal fondon Ophthalmir．－1．15 P．M．：St．Genrge＇sliOphthal
 thalnic．－3 p．s．：King＇s College；St．Thomas＇s（Ophthalnic Department）${ }^{\text {that }}$（ Central 1．ondon Ophthalmic；Royal South I．ondon Onhthalmic；Fast London IIospital for Children．－ 2．30 P．M．：West London．

## SATURDAY．

 9 A．M．：Royal Free．－ 10.30 \＆．M．：Royal London Ophthamic．－ 1 上．M．：Kiné Collegt：－ 1.30 P．M．：St．Bartholomews i St． Thomas＇s hoyal Westminster Ophthalmic．－2 P．M．：Charing Cronsi london：Bhalmic． 3.30 P．M．：（＇ancer Hospital，Brompton．
## HOURS OF ATTENDANCE AT THE LONDON HOSTITALS．

Cfaring Cross．－Medical and Surgical，claily，1；Ohstetric，Tu．F．，I．30；Skin， M．Th．1．30；Dental，3．W．F．． 9
 Th．F．， 1.30 ；Ear．Tu．F．．12．30；Skin，＇Tu．， 13.30 ；Dental，Tu．7h．F．， 12. Kistis Colzege．Melical．daily， 2 ：Eurgieal，claily．．． 30 ；Obstetric．Tu．Th．S． 2：o．p．．M．W．F．， 12.30 ：Eye，Th．Th，Dental，Tu．F．， 10 ．
Losnos．－Medical，daily，exe．S．， 2 ；Surgical，daily， 1.30 and 2 ；Ohstetric．M．Th．



 St．Bartuolomgy＇s，－Medical and Surgical daily． 1.30 ；obstetric．Th．Th．S．， 2 ；
 St．Georgs＇s．Medical and Surgieal．M．T．F．S．1；Obstetric．Tu．S．，1；o．p． Tu．2；Fye，W．．． 2 ；Jar，S．The

 Th．，1．30；Eye，Tu．Fu，Fi．，2；Dental，W．\＆．． 9.30 ；Consultations，M．，2．30； Operations，Tu．1．30；Ophthalmic Operations，F．， 9.
7．Tromas＇s．－M，Mical and surgical，daily．exeert＇Sat．．3；Chstetric，Tu．F．．2； op．W．，1．39；Eye．M．Th．，3；o．p．，daily，except Sat．，1．30；Far，M．．12．30； skin，W．，12．30：Thront．Tu．F．，1．30；Children．S．，12．30；1rntal．Tu．F．． 10.
 Th．，F．，1．3n：Fiye，31．Tu．Th，F．．2；Ear，Ni．， 1.30 ；Skin，W．．，1．to，s．， 9.10 ； Weatarinnten．Mediral and Surgical．daily， 1.20 ；Oustetric，Tu．F．，3；Eye， M．Th．，已．．iu；Far，M．， 9 ；Skin．Th．，1；Dental，H．S．， 9.15.

## LETTERS，NOTES，AND ANSWERS TO CORRESPONDENTS．



Commiricathes respecting editorial matters shonk be addressed to the Eatitor． 429，Strand，W．C．，London：those collorning husinesa matters，non－delivery 429．Strand，W．C．．Londonid bese addressed to the Manager，at the Oflice，42 ${ }^{\circ}$ ， of the Jowrysk．rtc．． 8 h．
Strand．W．C．，Loulon．
is order to avoit delay：it is partienlarly requesten that all lutters on the editorial business of the JoURNAI，be anlulressed to the Elitor at the office of tho Juerasa．and not to his frivate house．
lothors Juebrat are requested to communicate beforehand with the Manager，129， stranul．Wi．C． Corbesporderty who wish notice to he taken of their communications shouht suthenticate then with their names－of course not necessarily for publication． andernpownpyrs not answeral are requested to look to the Notices to Corre－ ofresposirexts not answerch are
 II AYURCRIPTS FORTARIED TR
CIRCUMSTANCES BF RETURNEID．
CIRCUMSTANCFA BF：RFTMRAEID．We shall be much otliged io Medieal Officers
 of Ifealth it they will．
us with Duplicate Copies．

A．Otir SelacR1Mr R anks where wicker coffins can be oltaionil．

 has sith，would bu likely to be benclited ty ucing ox gelnated water．

Tresithert rip Wimimen Fingers． A Mrwuen atho which of the many

TREATMEXT OF WOI＇צJ OF L．EAG
II．J．asks：What is the best dressing for a clast wound over the shin bone caused by the blow of a ericket hall？
310 parient is a healthy，muscular man，with frehaps a little gouty tem lency，but althoucti 1 hase triod all the usual remerties the wound a fors niglit indd）shows Iittle tendency either to heal or granulate．The limb is having perfect rest

Theatmext op Dtsinrosis．
F．．l．L．would he very much obliged for any information any reader of the JolibNal can give him on the treament of dyidrosis attaching the onter and inner siles of the hancls at the junction of the dorsal and palmar sur－ faces．It appears every year abont April and lasts during the hot weathesh faces．is little ur no itching，but the scales drging at one place，while fresh there is little ur no itchang，but another，are very unsightly．He has tries internally arsenic aml general tonics，and locally，glycerine，boro－glycerice． internally arsenic am genfral onics，and heral bealth is aud always has been carbolic

## ANstERS．

Anmiralit l：xamisationg ， F ．＂in the Jotryat
 of June $9 t h$ ．I would quote for his information and guldancen＇s legulation opinion in the case he referi to，the following from tho．1．which applies to and Almiralty Inatructions，yaragraphiering Jer Majesty＇s navy：＂Leven all persons，of whatever class me ane，enecial suthority is obtained from the templl deficient or drfective（nnless special anthority Admiralt $\gamma$ ），or if the biting or grinding capacity be seriousty，three or four in－ Aomimaller number of absent or unsound teeth，for \＆ample，three or fule with o a smaler or four molars in the same jaw．Jbyourd the above no exact rul officer cisors or four mondect to defetive teptl can he laid down，but the examining medical onder espect to defective terth can he ladition of the teetb generally，and the proba－ bility of their lasting．

## Methtlene．

KCHAKTIA sends the following string of questions with regord to methylene ： Wha＊is the Hsual ymntity required to produce auas thesia？S．How hurli in required to heep the ancesthesia prutoum？？．What are the indications of danger？D．How are the
，H We have refermal the question to Sir spencer Wells，who has been good ${ }^{\text {H }}{ }^{*}$ We have referret fllowing replies：1．By Junker＇s inhaler．2．Two or threatrans．3．About one drachm for each ten rujnutes． 4 and 5 ．Same （ Duke street，Manchester Square． as ehlorofurm．6．Krohne and Sesemann，Dulie

## TOTES．LENTENS，ETC．

## Gibson asd Wiffe f．Jeffrife and Hilis

Further Suscraptions．
（To defray the expenses of the fefendants：see Jotrail，May B．Faratay Giles． Fred．F．Andiews II．W．Webster M．B．＂
Leaving £is bs．nd．still to be subseribed
10，George Street，Manover Square，W．
A Source of 1mpection．
A SOrrer Assumiag that the Dr．Archinatin D．Mactozalin．（hiverpoolintites：ase of puerperal sep－ case of＂so－called pherperanoment．whoever he is，that，unless be in－ ticemin，let me tell your correspondent，whatig labour thr washing of bis cluded annong his precautions becore and of liquor ionit to a pint and a half， lands in iodised water（about one drachm of liquer＂against the disease in he did not use＂the strictest antisepme trealieving that here iodine is the question．There is substantial reason for helieving might not hare had oc－ antisentic．Dlat your correspondent employed he mighowed Higcioson antion to refer to the so－malled puerperallerer at all：the converance of pos－ would not lave hecome the unconsctous instrumen ef cor the frigatious． would not have hecome ite of the antiseptic emplored for the lerigatious－ alble septicama in spite orral．would in all probability not lave been aced thirt H two pied in reiterating the warning，＂heware ter wonld not have been written． nooks of used instruments．and this letrifell by foline and perlapapalso by The syringe， 1 hohk．should lase been pariken by and not ree amended to be corrosive sublimate before return to the chernistom away or larn a niath or restroyed．A working man enmot affont tenth part of a weeh＇s iucome，and antiseptles are let us thell practically show shams．Must of us believe them to be effective ；
our faith in them．

## Practice in atctralita．

SEVERAL correspondents have recently mate inquifies with regand to the pro－保 spects before a medical promitioner kingiom．So peneral answer to sueh a question can lue given，as much depends upon persomal and plysical quathe qutions and npon the colony chosen，but innst pe remeliced persons，and is as yit no leinal restriction uprou the prantice of uaqualitied persons，wat
that consequently quackery is rampant. Further, the number of qualified practitioners in proportion to the population is already large. In his annual address to the Sranes and New South Wales Branch of the British Medical Association, the Hon. Dr. J. M. Creed, the retiring President, referret to this subject; the number of medical practitioners who were arriving in Austrabia from all parts of the world for the purpose of settling in practice was. he said, disproportionate; "the hopes of many of these gentlemen," he said. "are fatect to disappointment, for the number of medical men in proportion to the population is rapidly becoming so large that remunerative practice can be but the reward of very few of them." IIe ahled that whereas there was one medical practitioner to evers 1.562 inhathitants in men practioing without qualifications were ineluded in the calculation.

Theyderstorms and Lightyifg Accideats,
Mr. H. Nemman Lawrence. Electrician to the Institute of Medical Electricity (24, Regent Street), writes that the Institute is very desirous to ohtain authentis information concerning lightning aceidents, whether fatal or other wise. Electrical and physiological details are most required, but relisble general information is stated to he often very valuable, and will be gratefully received.

## The Treatment of Eczema.

Dr. C. R. ItLivgworth (Accrington) writes: The prescription given by Dr Harkins is lacking in oue essential ; it contains no antiseptic. For several years I had very good results with a mixture of equal parts of zine ointment and glvcerine, but since I made the preparation antiseptic with glycerine of horax I have effected much more rapid cures. The same ointnent also gives great relief in pruritus ani, itself an eczematons or quasi-eczematous affecion: whilst for acne rosacea and other allied affections of the skin it is there lue any justification in the use of the term) an absolute " specific.

## On the Use of Coneine to Reiteve Pain in Abdominal Disease

Mr. J. Matterws (Liverpool) writes: I read with much pleasure the paper on Codeine by Dr. Lander Brinton in the Jourmal of June 9th. I have now under treatment a lady who has recently ceased menstruating and who has suffered for nearly a year from romiting attended occasionally by hæmor-rhage-hysterical vomiting and vicarious hamorrbage. She complained much of pain in various parts, specially under the lower edge of the ribs and over the ovaries. I had tried everything I thought likely to relieve her with little or no effect, when Dr. William Carter suggested codeine. W gave it in half-grain doses three times a day with very decided benefit, Contrary to the opinion expressed in the paper referred to, ms impression is that it fends to constipate, and I add one grain of compound rhubarh pill to each dose.

## A Pin passen per Anum ix Forty Hotrs.

Dr. J. McAxpretw, M.B.Ed. (Huddersfield) writes: A child aged 2 years was brought to me on June 4th by its father, who arerred that it had swallowed a small pin about an hour previously. I carefnlly examined the mouth and fauces, but could discover no pin there. As the child seerned to be suffering nodiscomfort, I concluded that perhaps, monown to the mother, it had dropped the pin from its mouth-in fact, that it had not swallowed the pin after all. However, I told the father to give the child plenty of solid food very little liquid, and on no account to give a purgative. I also told him to have every stool examined carefully; this was done, and the result was that they found the pin embedded in a mass of faces passed on Wednesday morning, June 6th.
I merely note this case because, in the first place, it is not rery common to find a sharp and somewhat lengthy body like a pin pass through the intestinal tract without producing any untoward symptoms: and in the second place because of the short time-about forty hours-that elapsed letween its place because of thance and exit from the alimentary canal.

## Eugenta Jambotara,

Dr. Geo. SuTpie (Detroit, Michigan, U.S.A.) writes: There appeared in the Journay of May 5th a small parigraph headed "Jambul from the Dutch Indies," in which the hotanical name was given as syzygium jambolana. Beneficial results were also recorded from the use of this drug in a case of diabetes mellitus, and the paragraph concluded by saying that "it is not clear whether this is the sarne plant as eugenia jambolana.
Since the members of the profession on both sides of the Atlantic are somewhat interested in this drng as a promising remedy in diabetes, it would be conducive to their intelligent understanding of the therapeusis of jambul to conducive to their intelligent understanding of the therapeusis of jambontolana ant that of eugenia jambolana relate to the same remedy, and can be lana ant that of eugenia jamholana rela
The urgent necessity which exists for more stringent. rules of Lotanical classigeation in order to get the infinity of names within bounds called for the Iusion of the genus syzygium into eugenia ly Bentham and Hooker when writing their Genera Ilnutarum (vol i, part ii, page 719), and as this work is ecognised as authoritative on taxonomy, jambul should now be known as E. janıbolana, Lam.

Your readers may lave access to either or all of the works mentioned below, and which can be consulted for a record of synonymy: De Candolle's Prodromus, vol. iii. p. 259; Drury's I seful Plants of Thdia, p. 421; Rosenthal's Hewl
 Nutz- und Giftplanzen aller Lander, p. 930; Baker's Mora of Mintritius
the Seychelles, p. 116; Hooker's Flora of British India, vol. ii, p. 499, ete.

COMMUNICATIONS, LETTERS, etc, have been received from
Mr. Atkinson, Leeds; Dr. Eustace Smith, London; Our Swiss Correspondent; Dr. Robert Pringle, Blackheath; Dr. C. Bell Taylor, Nottingham; The Secretary of the Ifospitals Assoriation, London; Dr. Norman Kerr, London; Mr. W. Martindale, Londen ; Dr. A. M. Edge, Manchester; Observer ; Dr. L. Steven, Glasgow; Mr. P. IF. Pamsworth, Nottingham; Dr. D. Goyder, Brafford; Dr. A. Bronner, Bradford; Dr. Wolfo, Glasgow; Dr. W. D. Spanton, IEanley; Mr. G. A. D. Mahon, Loudon ; Messrs. EHis and Cuthbert, Gloucester: Dr. A. IR. Hall, Loudon; Dr. Oidtmann, Mastricht, Hol land; Dr. Mandfield Jones, London ; Surgeon W. G. Axford, H.M.S. Lion, Devonport; Dr. J. W. Moore, Dublin; Dr. Thin, London; Mr. C. Aitken,

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## BOOKS, ETC. RECEIVED.

The Standard of Value. By William Leighton Jordan. Fifth edition. London: Longmans, Green and Co. 1888.
The Science and Art ot Surgery. By John Eric Erichsen, F.R.A., IL.D. Ninth解 and II. London : Longmans, Green and Co.
The Sectional Anatoms of the Congenital Creal Ifernia. Fy F. II. Bennett, M.D., and D. J. Cunninghan, M.D. London : H. K. Lewis.

An Introduction to the Study of the Britisin Pharmacopoia. By Rawdon Macnamara. London : H. K. Lewis.

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tributor, or from his statement being biased by his views upon temperance questions. By this is meant that one man may entertain a more rigid standard of temperance than another, and place an individual in Class $\mathbf{C}$, whom his fellow would include in Class B.
These errors were, however, foreseen, and provided against as far as was possible.

1. Each contributor was requested to leave a blank in the column if he were unable to index the individual with confidence; and, as a matter of fact, a large number of such blanks were left.
2. The meaning of the different classes was defined with as much accuracy as such a definition admitted of
3. The contributors were allowed, when in doubt about the alcoholic class, to place the patient in an intermediate position between two classes. Thus, in addition to the five classes, four sub-classes were introduced, making altogether nine degrees upon the alcoholic scale. It might, the Committee thought, be fairly assumed that with so many divisions on the scale the place accorded to any individual would seldom be far removed from the right one, and that on the whole slight errors in one direction might be taken to counterbalance similar errors in another direction.
The inquiry was placed in the hands of all members of the Association, and 178 , whose names are printed in an appendix ( $\Lambda$ ), responded to it, forwarding 250 schedules of returns, including altogether 4,234 cases in which the alcoholic class was named. without counting those in which a blank was left.
The returns as received were copied eut on fresh sheets, each case being placed under the beading of its respective alcoholic class. In making this classification, regard had to be paid to those cases in which the individual was stated to bave altered his habits in the course of his life (see the form of inquiry paper above). Of such there were 118. Twelve of them are placed in a separate category as unclassified cases.
The claim of the remaining 106 to belong to particular classes was held on careful consideration not to be modified by the alteration in habits stated to hare occurred. For instance, a man dying of chronic renal disease at the age of 75 is included in Class $\mathcal{B}$. although stated to have drunk bard for eleven months before his death; and, on the other hand, a man who died of phthisis at the age of 27 is retained in Class E , though stated to hare been a total abstainer for the last twelve months of life.
Of these 106 cases 3 are included in Class 4,5 in B, 1 in BC. 23 in C, 2 in CD, 25 in D, 4 in DE, and 43 in E. Details of them are given in an appendix (B).

The alcoholic Ilabits of the General Aggregate.
The aggregate of cases, being distributed into the respectivt classes, gives the following figures:-Class $\mathrm{A}, 122 ; \mathrm{AB}, 54 ; \mathrm{B}$. 1,529 ; $\mathrm{BC}, 178$; C, 977 ; CD, 112; D, 547 ; DE, 100 ; E, 603 ; unclassified, 12.

Translating these figures into percentage ${ }^{2}$ parts of the aggregate. we get in Class $\triangle, 28$.; in $A B, 1.2$; in $B, 36.1$; in $\mathrm{BC}, 4.2 ;$ in C . 23.0 ; in $\mathrm{CD}, 2.6$; in $\mathrm{D}, 12.9$; in $\mathrm{DE}, 2.3$; in $\mathrm{E}, 14.2$; and in the unclassified, 0.2 per cent.

Tabie I.- Table showing the Number of Cases falling in eact Class, and the Percentage* of each Class on the Aggregate of Cases.


These figures may be somewhat differently arranged, as in Tables 11, 1II. IV.
In Table II each sub-class :s a lded into the class immediately aucceeding; in Trule 111 it is added into the class immediately preceding; and in Table IV it is divided between the preceding and the succeeding cl 'ss.
either from want of accurate knowledge on the part of the can-
Medical in the section of Mubliu in August, 1887.

Tanle 11.-(Table I otherwise stated).

| Class. |  | No. of Cases. |  | Percentage. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A | ... | 122 | or | 2.8 p.c. of 4,234 |  |
| If and Al3 | ... | 1,583 | or | 37.3 p.c. | , |
| C'and uc | ... | 1,155 | or | 27.2 p.c. | " |
| D and cb | ... | 659 | or | 15.5 p.c. | " |
| $H$ and DE | ... | 703 | or | 16.6 p.c. | " |
| Unclassified | ... | 12 | or | 0.2 p.c. | " |
| Total | ... | 4,234 |  |  |  |
| Table 1II.-(Table I otherwise stated.) |  |  |  |  |  |
| Class. |  | No. of Cases. |  | Percent |  |
| I and An | $\ldots$ | 176 | Or | 4.1 p.c. | ,234 |
| 3 and BC | ... | 1,707 | or | 40.3 p.c. | " |
| $C$ and CD |  | 1,089 | or | 25.7 p.c. | " |
| D and DE |  | 647 | Or | 15.2 p.c. | " |
| E |  | 603 | or | 14.2 p.c. | " |
| Unclassified | ... | 12 | or | 0.2 p.c. | " |

## Total ... 4,234

Table lV.-(Table I otherwise stated).

| Class. | No. of Cases. |  | Percentage. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $A$ and half $A B$ | 149 | or |  | p.c. | 4,234 |
| I and half $\mathrm{AB}, \mathrm{BC}$ | 1,645 | or | 38.8 | p.c. | , |
| C and half $\mathrm{BC}, \mathrm{CD}$ | 1,122 | or | 26.4 | p.c. | " |
| D and half cD, DE | 653 | or | 15.4 | p.c. | " |
| If and half DE | 653 | or | 15.4 | p.c. | " |
| Unclassified | 12 | or | 0.2 | p.c. | " |

loughly stated, it may be said that of the four thousand two hundred and odd individuals reported on-all, be it remembered, males over the age of 25 -about 45 per cent. were habitually moderate in their alcoholic hahits, 25 per cent. were careless, and 30 per cent. more or less distinctly intemperate ( 15 per cent. decidedly 80 ).

## occupations.

We have further classified the individuals in each class according to their respective occupations. As the numbers in most of the individual occupations are small, we liave grouped them under the fourteen following beads: "Independent Property," "Professional Occupations," "Clerical Occupations" (the clerks, not the clergy, are here meant), "Mercantile Occupations," "Tradesmen," "Licensed Victuallers," "Artisans," "Lahourers," "Driving, Occupations," "Farming Occupations," "Soldiers,", "Sailors," "Domestic Servants," "Miscellaneous Occupations," and "Blanks."
Table $V$ shows the aggregate number of cases in each of these fourteen groups, and the percentage incidence of each group in the lifferent alcoholic classes. At the head of the Table is placed the percentage incidence of the whole 4,222 classified cases, the twelve unclassified being neglected throughout.
Table V.-Table showing the Aggregate Number of Cases in each of the Fourteen Occupation-groups, and the Percentage of each wheh Group in the several Alcoholic Classes A to E; with the Nornal (or Total) Percentage Incidence prefixed for purposes of comprisison.*

| $\stackrel{9}{c}$ | Percentage Falling in Class- |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A. | $\triangle \mathrm{B}$. | B. | вс. | C. | cD. | D. | DE. | E. |
| Total ... ... 4222* | 2.8 | 1.2 | 36.2 | 4.2 | 23.1 | 2.6 | 12.9 | 2.3 | 14.2 |
| Indequmdent ... ... 176 | 1.7 | 0.5 | 39.2 | 5.1 | 16.4 | 2.8 | 11.3 | 3.2 | 20.4 |
| 1'rofersioual oceupations 242 | 5.3 | 0.8 | 47.9 | 4.1 | 16.1 | 4.1 | 9.5 | 2.4 | 9.5 |
| Clerical occupations ... 176 | 2.8 | 2.8 | 45,4 | 2.2 | 21.02 | 1.7 | 14.2 | 2.2 | 7.3 |
| Mercantile occupations .. 195. | 3.07 | 1.02 | 12.05 | 2.5 | 11.7 | 2.05 | 18.4 | 5.1 | 13.8 |
| Trakesmen ... ... 378 | 3.7 | 1.3 | 37.8 | 3.9 | 13.2 | 4.4 | 14.5 | 3.9 | 16.9 |
| LiecnseI Victuallers ... 159 | - | - | 11.3 | 2.5 | 13.8 | 1.2 | 25.7 | 5.03 | 40.2 |
| Arlinath ... ... ... 807 | 4.5 | 2.2 | 36.9 | 5.2 | 22.5 | 3.5 | 9.5 | 2.2 | 13.1 |
| Labourers ... ... ...1,185 | 2.1 | 0.9 | 36.7 | 2.9 | 31.05 | 2.1 | 11.8 | 1.1 | 10.9 |
| Driving oceupations ... 70 | 1.4 | - | 22.8 | 1.4 | 21.4 | 7.1 | 18.5 | 4.2 | 22.8 |
| Parmingoechipat ions ... 333, | 1.5 | 0.6 | 39.9 | 5.4 | 26.1 | 0.3 | 12.9 | 3.0 | 10.2 |
| Sotdiers ... ... ... 47 | 4.2 | - | 14.8 | 2.1 | 35.1 | 6.3 | 8.5 | 2.1 | 25.5 |
| Sisilors ... ... ... 71 | 4.05 | - | 28.3 | 10.8 | 27.02 | 1.3 | 18.9 | 1.3 | 8.1 |
| Emaratic servanta ... 115 | 0.8 | 0.8 | 20.0 | 6.08 | 33.9 | 0.8 | 15.6 | 0.8 | 20.8 |
| Miscellaueron and blank 265 | 2.6 | 1.9 | 32.1 | 6.1 | 18.7 | 1.9 | 14.5 | 1.9 | 19.9 |

[^84]Table V1 bears the same relation to Table V that Table IV does to Table 1, that is to say, the sub-classes liave been divided equally between the adjacent classes.
Tanle V1.-The same as Table $F$, with the Sub-classes merged in the adjacent Classes.


* The unclassified are here neglected.

We have further constructed a table-Table VII-showing the relative alcoholic labits of the fourteen occupation-groups in a simpler but rougher manner. In this table the number of cases falling in the lower half of the alcoholic scale for each group is compared with that falling in the upper half of the scale. By the lower half of the scale is meant $A+A B+B+B C+\frac{1}{2} C$; by the higher half $\mathrm{E}+\mathrm{DE}+\mathrm{D}+\mathrm{CD}+{ }_{2}^{1} \mathrm{C}$. The comparison is expressed in the form of a ratio, the lower half of the scale being taken as unity.

For the sake of convenience this ratio will be termed "the Ratio of Minor Drinking llabits," and the reverse ratio will be called "the Ratio of Major Drinking Habitg," or more briefly, "the Ratio of Minor Habits "and "the Ratio of Major Habits."
In Table V1I the occupation-groups are placed in the descending series of their ratios of minor habits; and the ratio for the whole 4,222 cases is placed at the head for comparison.

The table is divided by two gaps. First we have six groups in which the ratio of minor habits is higher than the normal; next, four in which it is lower than the normal, but still not less than unity; and finally, four groups in which the less temperate end of the scale exceeds the more temperate.
Table VII.-Table showing the Ratio between the Cases falling in the Lower and those in the Higher Half of the Alcoholic Scale ("Ratio of Minor Habits") for each of the Fourteen Occupationgroups.
(The lower half includes $\mathrm{A}, \mathrm{AB}, \mathrm{B}, \mathrm{BC}$, and half of C . The higher half includes $\mathbf{E}, \mathrm{DE}, \mathrm{D}, \mathrm{CD}$, and half of C .) Ratio for all occupations
... as 1 to 0.78

1. Professional occupations
...
2. Farming occupations
3. Artisang ... $\quad . . \quad \cdots \quad . . . \quad \cdots \quad$ " $1,0.66$
", 1
$\begin{array}{llllll}\text { 5. Labourers } & \ldots & \ldots & \ldots & , 1,0.71 \\ \text { 6. Sailors } & \ldots & \ldots & \ldots & \ldots & , 1,0.76\end{array}$
4. Independent
5. Mercantile occupations
... $\quad 1,0.8$
6. Miscellaneous occupations ...
7. Domestic servants
...

| ... | $" 1$ | 1.25 |  |
| :---: | :---: | :---: | :---: | :---: |
| $\cdots$ | $\#$ | 1 | 1.60 |
| $\cdots$ | $"$ | 1 | 1.80 |

13. Driving occupations $\quad$... ... ". $1, \ldots, 1.80$
14. Licensed victuallers V1 and $\dddot{V}$ II. It will be seen that the Let us now inspect Tables ratio of minor habits is highest in the "professional "group, being, in fact, nearly 2 to 1 . On turning' to Table V1 we observe that this croup scores highest of all in classes A and B, and lowest of all in classes $D$ and $E$ taken together.

Clerks, farmers, artisans, labourers, and sailors follow in order. It will be noted in Table VII that the clorks show the lowest
percentage of drunkards, but that the percentage of "free" and "carcless" drinkers is ligher than in the case of the professional men, this being at the expense of A and B .
The farmers show a low percentage of total abstainers, few drunkards, the average number of free drinkers, a larger than arerage percentage of temperate, but at the same time a larger than average percentage of "carelcss" drinkers.
Among the artisans a large proportion of teetotallers appears, but the ratio is made somewhat lower by the increasing percentage of drunkards.

Among labourers the tendency is to accumulation in the "careless" class, the proportion of free drinkers and drunkards being below the average.
Among sailors there is a fairly high percentage of teetotallers, but the "moderate" class is less well represented. This, however, appears to be in some measure due to the large proportion of dubious cases entered in BC (Table V). The drunkards are comparatively few (sailors get few opportunities of continued intemperance), but the "free" drinkers are in excess, and there is a considerable accumulation in the "careless" class.

Proceeding in the order of Table V1I, men of independent property show a tendency to extremes, the drunkards and the moderate drinkers being the only ciasses which rise above the average.

The tendency among mercantile men is also rather to extremes, but less to drunkenness than to "free " drinking. The "careless" class is here the lowest of all.

Among tradesmen, also, the extreme classes are raised at the expense of the "careless," but the rise is rather more in the higher half of the scale than in the lower.

Among domestic servants the tendency is strongly upwards: the percentage of total abstainers is smallest of all, and that of moderate drinkers nearly the smallest, while C, D, and E are considerably swollen. Careless drinking is here most in vogue.
Among soldiers it is the "decidedly intemperate" who raise the ratio of major habits. Among the simply "free" drinkers they slow the smallest percentage of all the groups; but the intermediate group of the "careless" amounts to 36 per cent., the lighest of all; while the temperate have sunk to not quite 16 per cent., nearly the lowest of all. It is noticeable, however, that the percentage of abstainers is comparatively higl. The group, it must be noticed, is a very small one, and is largely made up of pensioners and "retired "men.
Men engaged in driving occupations show a distinct tendency to the ligher half of the scale, the decidedly intemperate being numerous, and the free drinkers much above the average.
Finally, the licensed victuallers and their assistants exhibit the most marked tendency towards the top of the scale, teetotallers being entirely absent, the percentage of moderate drinkers the lowest of all, those of free drinkers and drunkards a long way the highest of all, and the ratio of major labits nearly 4 to 1.
We have, further, taken all the individual occupations of which not less than twenty examples are reported, and have drawn out a table for them (Table V111) on a similar plan to that of Table VII. As the aggregates were so low, we have not thought it worth while to construct a percentage table after the plan of Table V.
Table VIII.-Table showing similar Ratios for certain special Occupations.

## Professionat-

Ministers of religion (45)
Scholastic occupations (29)
...
Officers in the army and nary (2S)
Medical men (41)
...
...
Lawうers (31)
Artisans-
Weavers (58)
lioot and shoe makers (6I)
Tailors (69)
Carpenters and joiners (76)
Blacksmiths (39)
Painters (38)
Masons (5S)...
...
$\ldots$
$\ldots$
....
bocrens-
Agricultural and farm labourers (155) ... , 1 , 0.45
fiardeners (67)
, $1,0.45$
Miners (141)... ... ... ... , $1,1.23$
Taddesmen-
Butchers (59)
,, 1 ,, 2.60

Miscellaneous-
Railway men (30)
as 1 to 0.42
Paupers (25)...
, $1,1.76$
Travellers (20)
$1,1.85$
Fe notice in this table that the ministers of religion honourably head the whole list, not only of professional men, but of all occupations, showing a ratio of minor habits higher than 10 to 1.

Among professional men, schoolmasters follow: then ofticers in the army and navy; next medical men, whose ratio of minor habits is slightly below that of professional men generally, but considerably ahove that of the whole series; and, finally, lawyers, whose ratio of minor drinkers is very near unity, not much more than half of the general ratio of professional men, and considerably below that of the whole series.

Among artisans, we find weavers, boot and shoe makers, and tailors to be the most temperate. Carpenters and joiners almost touch the general ratio of the whole series. The blackemiths and painters give a somewhat low ratio of minor habits, and in masons the higher half of the scale exceeds the lower.

Agricultural and farm labourers and gardeners appear as very temperate bodies of men, but miners show a ratio of major habits greater than unity.

Among tradesmen the occupation that stands out most prominently is that of the butcher, with a ratio of major habits as high as 2.6 to 1.

Railway men appear as a tolerably temperate body. The few paupers on the list have a high ratio of major habits, and one still higher is shown by commercial travellers

It must be noted that in some cases the classification of special occupations was a little dubious. For instance, in the case of a "tailor,"a "baker,"or a "saddler"it was not clear whether the tradesman or the journeyman of that name was intended. In such cases the classification was decided by the probabilities of the in whe following is the list of the dubious cases, and the mode in which they have been settled: "Fo occupation" ( 27 cases) was entered under "independent property "" "engineer (11) as "pro(9), "organ build business man" (1), "maltster" (3), "manager" (3), "organ builder"(1), "saltmaker" (I) as "mercantile"; "baker" (3), "coach" and "carriage builder" and "maker" (8), "decorator" (3), "gunmaker" (1), "harnessmaker" ( 4 ), "saddler" (7) as trades"bindmaker" binder" (1), "boot" "bockmaker" (1), "boathuilder" (1), "book"brickmaker" (6), "capmaker"(2), "cabinetmaker"(13) " (61), printer" (2), "chairmaker"(2), "clogger"(1), "cloth dresser and worker"(11), "cooper"( 7 ), "currier" and " leather dresser" (3), "cutler" (3), "dyer" (5), "gasfitter" (1), "hatter" (2), "hurdlemaker" (1), "inkmaker" (1), "iron founder" (2). "locksmith" (12), "paperhanger" (4), pipemaker" (2), "printer" (13), "tailor" (69), "tinman (3), "watchmaker" (8) as artisans; "warehouse tion (20), as soldiers.

## Ages at Death.

We now proceed to ascertain the arerage age at deatli for the individurls in each class. This is given in the following table. The table has been constructed simply by adding 11 in each class the ages giren in the returns, which, it will be remembered, are the ages at death, and striking an average. The arerage age at death of the whole number is given at the foot of the table for purpose of comparison.

| Table IX.-Average |  | Age at Death for |  | each | Dass. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Class 1 |  | Years. <br> 51.22 | or | $\begin{gathered} \text { Years. } \\ 51 \end{gathered}$ | $\begin{gathered} \text { Days. } \\ 80{ }^{2} . \end{gathered}$ |
| , AB |  | 56.12 | .. | 56 | 215 |
| $\because{ }^{*} \mathrm{~B}$ | .... | 62.13 | " | 62 | 50 |
| ". ${ }^{\text {. }}$ BC | ............. | 62.42 | " | 62 | 15.5 |
| " C |  | 59.67 | " | 59 | 2.46 |
| $\because$ CD |  | 60.35 | - | ${ }_{5}^{60}$ | 130 |
| " D |  | 57.59 | " | 57 | 216 |
| ", DE |  | 53.64 | " | 53 | 233 |
| ", $\mathbf{~ H}$ |  | 52.03 | " | 52 | 14 |
| Unclassified |  | 60.91 | - | 60 | 3.4 |
| Total |  | $58.92^{3}$ |  | 58 | 336 |

[^85] and not the odd days. To interpret Table IX correctly. therefore, we must say, and not the odd days. To in Class A. for instance, is 51 years 80 days, but tha not that the average age in cars 80 days and 52 years 80 days.
it is somewhere between 51 vears A days and from the population as shown by ${ }^{3}$ Farrs English Life and 1851 , and the deaths registered during the years

It will be seen in this table that of the main classes the average age in $B$ is the highest of all, and that a gradual diminution, amounting in all to rather ruore chan teu years, takes place as we pass from B to E .
The smaller sub-classes, $C D$ and $D E$, follow pretty fairly the desconding scrics, tho average of $B C$ alone being a tritle above that of the class preceding it. Thus we may see as far as these cases go, that as the alcoholic habit increases the arerage duration of life diminishes. The difference in duration betweeu the laabitually temperate and the decidedly intemperate (both classes, be it remembered, haviug already passed the age of 25 years, and all who died below that age being excluded) amounts to a period of some ten years.
But the average age furnished by the total abstainers is somewhat startling, for we find that it is not only far below the average age attained by the moderate drinkers, but it is even a year below that reached by the decidedly intemperate. It must, however, be remembered in interpreting this figure correctly that the class of total abstainers is somewhat differently constituted from any of the other classes.
It will not, I think, be disputed that the total abstinence morements which have played so prominent a part in this country of late years lave made many more converts among the young than among the middle-aged or elderly. If this is admitted, it will necessarily follow that the average age of total abstainers-1 mean of living total abstainers-at any time during the three years covered by this inquiry, was considerably less than the average age of the rest of the community; so that the class of abstainers has contained a proportion much greater than the average of individuals susceptible to early death, or, to put it in another way, has had a greater average liability to early death, apart from auy question of alcohol, than any of the other classes. 4
These considerations are borne out to some extent by the tables immediately following. Table XII, for example, the construction of which will be presently described, shows that the stress of mortality among abstainers comes quite in the early years, especially before the age of 30 is reached. We have, therefore, constructed two fresh tables (Tables X and XI) on the model of Table IX. These two tables, to put it briefly, are repetitions of Table IX, but in the one all cases of death under 30 are omitted, and iu the other all cases of death under 40.

Table X.-Average Age at Death for each Class, Omitting all

| Cases of Death under 30. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Class A |  | Cases. | rage | Years. | or | 57 | Dayp. |
|  |  | 47. | , | 61.19 |  | 61 | 69 |
| ", ${ }^{\text {B }}$ |  | I,433, | ", | 64.48 | ", | 64 | 177 |
| ,. BC |  | 173. | .. | 63.43 | ., | ${ }^{63}$ | 156 |
| C |  | 925 | ", | 61.52 | " | 61 | 189 |
| ., CD |  | 110. | , | 61.009 | - | ${ }^{61}$ | 3 |
| , D |  | 525, | ", | 58.87 |  | 58 | 317 |
|  |  | \% | " | 54.73 | " | 54 | 266 |
| E |  | 571, | " | 53.42 |  | 53 | 1.50 |
|  |  | 3,978 |  | $60.87^{5}$ |  | 60 | 319 |

Table XI.-Average Age at Death for each Class, Omitting all Cases of Death under 40.

| Class A | Cases. 79, | average | Years. 62.74 | Years. Days. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | or | 62 | 270 |
| AE | 39. |  | 66.84 | ., | 66 | 306 |
| ,, B | 1,294, | " | 67.71 | " | 67 | 270 |
| , BC | 154. | ., | 67.006 | " | 67 | $2{ }^{2}$ |
| ,, C | 829, | ," | 64.65 | " | 64 | 237 |
| ,. CD | 99. | , | 64.12 | ., | 61 | 43 |
| , D | 464 , | " | 61.98 | " | 61 | 357 |
| ", DE | 78. | -, | 59.42 | " | 56 | 153 |
| , E | 468 , | " | 57.47 | " | 57 | 259 |
| Total | 3,504, | " | $64.4 \mathrm{I}^{6}$ | , | 64 | I52 |

$1838-54$, gives the average age at death for males who have attained the age o 2.5 (England and Wales) as 61.13 . The Supplement to the Forty-fifth Annua leport of the Recistrar-General, 1885, calculating from the population as shown by the census of 1871 and the deaths registered in the years 1871-80, gives it (p. vii) as 60.69 . The cases on which our report is lased are chiefly furnished by Fingland and Wales.

II is probable that the average age at death shown by the other classes is affected to some degree by similar circnmstances. If the alcololic hahit tends to increase, as generally supposed, from youth up to abont 45 or 50 years of age (cf, Neison, Journ. Statzst. Soc., xiv, p. 2i6), the average age of the class of the population corresponding to our class $B$ will be somewbat lower than that of the classes corresponding to C, D, and E. Our inquiry has taken no account of the age at which intempernte habits legan in each case. This information we fegred we should fail to obtain.
\$ l'arr (loc. cit.) : 62.76. Jegistrar-General (loc. cit.) : 62.10
6 Farr (loc. cit.) : $0 \mathbf{6} .06$. 1Registrar-Gencral (loc. cit.) : 65.30

It will be seen that in Table $X$, though there is as much as II years difference between the arerage age of Class $B$ and that of Class E, the difference between the average age of B and that of $A$ is reduced to 7 years. In Table XI, while the averages for $\mathbf{B}$ and for $E$ are 10 years apart, those of $B$ and $A$ are separated by little more than 5 years.

Decades.-We have further distributed the cases occurring in each class into their respective decades, that is to say, we have classified them according as the deaths occurred in the twenties, the thirties, the forties, and so on. Tables XII and XIIl show this classification; but instead of giving the aggregate numbers wo have reduced them, for convenience of comparison, to percentages. In Table XII is shown the percentage of each class falling in the several decades. In Table X111, on the other hand, is shown the percentage of each decade falling in the several classes. One centenarian occurs in Class B. This case has been included in the nineties, so as not to complicate the table.
Table XII.-Table of Decades, showing the Percentage of each Class falling in the several Decades.


Table NIII.-Table of Decades, showing the Percentage of each Decade falling in the several Classes.

|  | A. | $\triangle \mathrm{B}$. | B. | BC. | C. | CD. | D. | DE. | E. | Unclas sified. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Twenties | 9.8 | 2.8 | 39.3 | 2.0 | 21.2 | 0.8 | 9.0 | 1.6 | 13.1 |  |
| Thirties ...... | 3.9 | 1.6 | 29.2 | 3.9 | 20.1 | 2.3 | 12.8 | 3.7 | 21.6 | 0.4 |
| Forties ........ | 3.3 | 0.5 | 27.1 | 3.0 | 21.3 | 2.4 | 14.3 | 3.1 | 24.3 | 0.1 |
| Fifties ......... | 3.0 | 1.4 | 27.2 | 3.4 | 23.2 | 2.4 | 16.8 | 3.0 | 19.0 | 0.3 |
| Sixties ......... | 1.2 | 1.3 | 34.3 | 4.1 | 24.4 | 3.6 | 14.3 | 2.5 | 13.5 | 0.4 |
| Seventies ... | 1.9 | 1.0 | 42.2 | 6.0 | 26.3 | 2.9 | 10.9 | 1.4 | 7.0 |  |
| Eighties ...... | 2.1 | 0.7 | 57.7 | 4.7 | 20.1 | 1.9 | 8.5 | 0.7 | 2.8 | 0.7 |
| Nineties ...... | 4.2 | 4.2 | 55.3 | 6.3 | 17.0 | 2.1 | 6.3 | 0.0 | 4.2 |  |
| Total......... | 2.8 | 1.2 | 36.1 | 4.2 | 23.0 | 2.6 | 12.9 | 2.3 | 14.3 | 0.2 |

Table XIV is a modification of Table XIII, with the subclasses divided and added into the adjacent classes, in the same manner as has been done in Tables IV and VI.

## Table XIV.-The same as Table NIII, with the Subclasses

 Merged in their adjacent Classes.|  |  |  | A. | B. | C. | D. | E. | Unclas sified. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Twenties |  | ... | 11.2 | 41.7 | 22.6 | 10.2 | 13.9 | - |
| Thirties | ... | $\ldots$ | 4.7 | 31.9 | 23.1 | 15.7 | 23.4 | 0.4 |
| Forties |  | ... | 3.5 | 23.8 | 24.0 | 17.0 | 25.8 | 0.1 |
| Fifties | ... | ... | 3.7 | 29.6 | 26.1 | 19.5 | 20.5 | 0.3 |
| Sixties | ... |  | 1.8 | 36.9 | 25.2 | 17.3 | 14.7 | 0.4 |
| Seventies |  | . | 2.4 | 45.7 | 30.7 | 13.0 | 7.7 | 0.9 |
| Eighties | ... | ... | 3.4 | 60.3 | 23.3 21.1 | 9.7 7.3 | 3.1 4.3 | 0.1 |
| Nineties | ... | ... | 6.3 | 60.5 | 21.1 | 7.3 | 4.3 |  |
| Total |  | ... | 3.4 | 38.8 | 26.4 | 15.3 | 15.3 | 0.2 |

On inspecting Table XII we olserve that in Class B the stress of deaths falls in the sixties and seventies, especially in the latter, while nearly I6 per cent, are found in the eighties.

In Class C the stress is still in the sixties and seventies: but the preponderance of the seventies is less, and the eighties are redueed to about half the percentage seen in B. The forties and fifties here begin to mount.
In Class D the stress is in the fifties and sixties, especially
the sixties; the seventies and the decades above them have been markedly reduced, and the thirties as well as the forties begin to mount.

In Class E the eighties and nineties are in rery slender proportion, the seventies hare again fallen considerably, and the stress now lies in the forties, fifties, and sixties, but with a strong tendency towards the forties. The thirties lave again mounted.

Taking the main classes alone, we see that in the thirties, forties, and fifties, the percentage of deaths steadily mounts from B to E ; in the seventies, cighties, and nineties it as steadily falls, while in the sixties it remains nearly at a level, mounting slowly from B to D , and theu falling to its original amount.

In the twenties the percentages are very small in all these four classes; in $C$ and $E$ the percentage is equal, in $D$ it is slightly lower, and iu B a little higher.

But when we look at Class A we see (as was stated abore) that the stress of deaths lies between the twenties and the fifties, and that the percentage is highest of all-in fact, all but 20 per cent.in the twenties. The sixties and seventies together show a lowex percentage here than in any other class. The eighties, however, are above those of $D$ and $E$, and nearly equal to those of $C$, and the nineties are equal to any but those in AB .
The Incidence of Particular Fonms of Disease in the Several Classes.
We next proceed to investigate the connection of particular torms of disease with the different varieties of the alcololic habit. This investigation must necessarily he divided into at least three parts; the deaths in youth must be considered separately from the deaths in middle life, and thoseagain from the deaths in advanced age.
Two reasons require this division. In the first place, the same form of disease may differ altogether in its etiology according to the time of life at which it appears. A granular kidney, for example, occurring in a man of 30 will, in the majority of cases, possess an entirely different etiology to a similar lesion occurring at the age of 50 .
In the second place, there are diseases which are especially prevalent in youth, diseases especially prevalent in middle life, and diseases especially prevalent in old age; but the average alcoholic habits of youth, of mid life, and of old age are very different, as will be seen at a glance by examining the headings of Tables XV, XVI, and XV1I. It would, therefore, convey a totally wrong impressiou if the alcoholic habits of persons dying, for instance, from a disease of old age were to be compared with the average alcoholic habits of all ages together, and not with the alcoholic habits of elderly people alone.

And even further subdivision of this investigation than into three might have been advisable had the number of cases been sufficient. With those at our disposal the triple division was all that could be carried out.

We have, therefore, divided the 4,234 cases into the three following groups, each distinguished by a Greek letter: a, deaths in the young, or those aged from 25 to $40 ; \beta$, deaths in the middleaged, or those from 40 to $65 ; \gamma$, deaths in the elderly, or those from 65 upwards. ${ }^{\top}$ Group a contains 719 cases; Group $\beta, 1,705$ cases; Group $\gamma, 1,810$.

We next proeeeded to construct a table for each group, classifying the cases of death from each form of disease under their respective alcoholic classes, just as has been done in Tables $\bar{F}$ and XIII.

Two difficulties had to be dealt with in this classification. The first was due to the different nomenclature employed by different contributors, on which point we shall speak further when we come to Table XV.
The second difficulty was owing to the entry, in many in stances, of two or more pathological conditions against a single case. This second difliculty was treated by the observance of the following rules:-
l. If the several pathological conditions entered represented distinct and independent diseases, the case was entered under both heads. This, however, occurred in but very few instances.
2. If the second pathological condition mentioned was merely a symptom, result, or customary complication of the main one, as frequently occurred-sueh, for instance, as "hemiplegis" added to "apoplexy," "dropsy" given with " heart disease," or "gangrene" with "diabetes"-it was omitted altogetlier.
3. If pathological conditions were given, which, though indeT It will, of course, be understood that "young." "middle-aged," and "elderly" are here used in an arbitrary sense for the purpose of convenience.
pendent, could presumably have had no material influence in producing death-such. for instance, as "rheumatism" with "cancer" -they were omitted altogether.
In a large number of cases the diagnosis given was of a vague character, such as "abdominal tumour," "paralysis." These cases were classified as eases of insuflicient diagnosis.

Veglecting in each group those diseases of which less than twenty instances occurred, we proceeded to construct Table XV. This table shows for each disease quoted the total number of cases in the gromp, and the incidence of the disease in the different alcoholic classes. The incidence is given, to facilitate comparison, in percentages instead of in the actual numbers. At the head of each group is given the percentage incidence of the whole group in the different alcoholic classes.
Table XV.-Table showing the Percentage Incidence of Deaths from Particular Forms of Disease in the different Alcoholic Classes for each Group-a, $\beta$, and $\gamma$.
a. Deaths between 25 and 40 years of age.

| Disease.* | A | ${ }^{\triangle B}$ | B | BC | C | CD | D | DE | E | Unclass. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total........ 719 | 5.8 | 2.08 | 32.6 | 3.3 | 20.5 | 1.8 | 11.5 | 3.05 | 18.7 | 0.2 |
| Bronchitis 20 | 5.0 | - | 20.0 | - | 25.0 | - | 15.0 | 5.0 | 30.0 | - |
| Heart disease(value) 39 | 2.5 | 2.5 | 38.4 | 2.5 | 12.8 | - | 15.3 | 2.5 | 20.5 | 2.5 |
| Preumonia 59 | 3.3 | 1.7 | 33.2 | 6.7 | 15.6 | 5.08 | 13.5 | 3.3 | 15.2 |  |
| Tubercle... 334 | 6.5 | 2.3 | 38.2 | 2.09 | 23.3 | 1.7 | 10.1 | 2.9 | 14.3 |  |
| Tsphoid fever ... 33 | 9.09 | - | 33.3 | 3.03 | 21.2 | - | 15.1 | 3.03 | 13.1 |  |


| Total..... 1705 | 2.6 | 0.8 | 28.7 | 3.6 | 23.04 | 2.9 | 15.4 | 2.9 | 19.2 | 0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apoplexp... 111 | 2.7 | 0.9 | 26.1 | 4.5 | 20.7 | 2.7 | 19.8 | 2.7 | 19.8 |  |
| Bronchitis 144 | 2.7 |  | 25.0 | 4.1 | 27.7 | 4.1 | 15.9 | 2.08 | 18.05 |  |
| Cirrhosis... 67 |  |  |  | 3.9 | 5.9 17.8 | 1.4 | 23.5 | 11.9 | 53.4 21.4 |  |
| Diabetes ... 28 | 3.5 | 3.5 | 25.0 | 3.5 | 17.8 |  | 23.0 | - |  | - |
| $\begin{array}{lll} \text { Heart dis. } & \\ \text { (wall) } & \ldots & \text { ns } \end{array}$ | - | - | 31.4 |  | 31.4 | - | 20.0 | 2.8 | 14.3 | , ' |
| $\begin{aligned} & \text { Heart dis. } \\ & \text { (valve)... } 182 \end{aligned}$ | 4.9 | 1.6 | 26.3 | 3.8 | 24.1 | 3.3 | 13.1 | 3.3 | 13.7 | 0.5 |
| $\begin{aligned} & \text { Malignant } \\ & \text { disease... } 116 \end{aligned}$ | 4.3 | 17.2 | 37.06 | 7.7 | 23.2 | 2.5 | 8.6 | 0.8 | 12.9 | 0.8 |
| $\begin{aligned} & \text { Nerve de- } \\ & \text { cay ...... } 40 \end{aligned}$ |  | - | 30.0 | 5.0 | 25.0 | 5.0 | 7.5 | 7.5 | ${ }^{20.0}$ |  |
| Pleurisy... 23 | 4.3 |  | 30.4 | 2.5 | 26.08 25.9 | 8.7 | 13.04 13.8 | 1.2 | 17.04 23.01 | - |
| Pneumonia 159 Renal dis. | 1.8 | 1.8 | 26.4 | 2.5 | 25.9 | 1.2 | 13.3 | 1.2 |  |  |
| $\begin{array}{ll} \text { Renal dis. } \\ \text { (chronic) } & 89 \\ \hline \end{array}$ |  | - | 20.2 | 3.3 | 23.5 | 4.4 | 21.3 | 6.7 | 20.2 | 0.3 |
| Tubercle ... 275 | 2.5 | 0.3 | 34.9 | 1.8 | 21.09 | 4.0 | 14.5 | 2.1 | 18.3 | 0.3 |
| Typhoid ${ }_{\text {fever..... }} \mathbf{2 1}$ | - | - | 28.5 | 4.1 | 33.3 | - | 23.8 | - | 9.5 |  |

Before procecding further we must state the meaning conveyed by the nomenclature in the first column. We take the names in alphabetical order.
Apoplexy includes all cases entered as "apoplexy,"" hemiplegia," "cerebral hrmorrhage," "sanguineous apoplexy";" also, in $\beta, 2$ "paralysis aud coma;" and in $\gamma, 2$ "paralytic seizure," I "aphasic paralysis," 2 "congestive apoplexy," 1 "cerebral effusion."
Arteral degeneration (in $\gamma$ only) includes "calcareous degeneration of arteries," "senile gangrene," "gangrene of foot," "gangrenc of leg," "nd 1 case termed "gangrene "only. In these cases of "gangrene" there is no wound or injury assigned as the cause. They have therefore been taken to be also senile gangrene.

Bronchitis includes "bronchitis," "acute bronchitis," "chronic bronchitis,""capillary bronchitis," and "broncho-pneumonia;" also, in $\alpha$, I case of "plastic bronchitis;" in $\beta, 1$ case of "catarrhal pneumonia."

Cirrhosis (in $\beta$ only) includes " cirrhosis," "hypertrophic cirrhosis," "fibroid liver,"" fibroid degeneration of liver;" also 2 " hepatic dropsy," 1 " liver disease and ascites," I "liver disease and dropsy," I "disease of stomach and liver; anasarca."

Cystitis (in $\gamma$ only) includes "cystitis," "acute" and "chronic" ditto, and "catarrh of the bladder;" also 2 cases of "bladder disease," and 1 of "paralysis of the bladder."

Drabetes (in $\beta$ only) includes "diabetes" and "diabetic coma."
Dıarrhcea (in $\gamma$ only) includes "diarrhoea," "intestinal catarrh," " enteritis," "gastro-enteritis," and 1 case of "British cholera."

Heart disease (valve). -This is a somewhat uncertain heading. In it have been included all the cases recorded as dying of "morbus cordis," or of "heart disease," or "cardiac disease," without further qualification, as well as disease "of the valves" and its different varieties when definitely stated. In a and $\beta$ "cardiac dropsy" has also been entered under this heading, though in $\gamma$ we have placed it under the next; it also includes, in $a$, 1 "cerebral embolism," 1 "hemiplegia from valve disease;" in $\beta$, I " atheroma and thickened valves," I "pulmonary embolism;" in $\gamma, 1$, "cardiac apoplexy," 2 " cerebral embolism," I "cardiac embolism,' I "paralysis from embolism."
Heart disease (wall) includes "fatty heart," " heart degeneration," "cardiac degeneration," "cardiac failure," "heart failure,", "weak heart," " senile heart and dropsy," "hypertrophy of heart," "dilated heart," "hypertrophy and dilatation," "aneurysm of heart," "rupture from dilatation ;" also, in $\alpha$, "cardiac bronchitis," "cardiac asthma," and "cardiac dropsy ;" in $\beta, 8$ "angina pectoris;" in $\gamma, 2$ "syncope."
Intestinal obstruction (in $\gamma$ only) includes "intestinal obstruction," "obstruction of bowel," "ileus," "intussusception," "stricture of ileum."
Malgnant discase includes "cancer," "carcinoma," "scirrhus," " encephaloid," "epitbelioma," "melanosis," " sarcoma," "malignant disease," "malignant tumour;" also, in $\beta, 1$ "lymphoma," 1 "lymphadenoma," I "general glandular enlargement;" in $\gamma$, I " lymphadenoma," 2 "rodent ulcer," I "stricture of esophagus," I "stricture of pylorus," 1 "stricture of rectum."

Nerve decay (in $\beta$ ) includes "brain softening," "white brain softening,", "atrophy of brain," "spinal atrophy," " nerve decay," "debility," "atrophy," "atheroma and paralysis," "brain disease and degeneration of arteries;" (in $\gamma$ ) includes "cerebral atroply,"" cerebraldegeneration,"" cerebral softening," "white" ditto," "chronic" ditto, "cerebro-spinal degeneration," "spinal atrophy," "cirrhosis of spinal cord," "atheroma of cerebral arteries," "degeneration of cerebral ressels," "general paralysis;" also 2 "old age and paralysis," 1 "senile dementia," I " clironic cerebral disease."
old age (in $\gamma$ only) includes "old age," senility," "senile debility," "senile degeneration," "senile atrophy," "senile decay," "general decay," "gradual decay," natural decay," "decay of nature," "general decline," "general decline of bodily powers," "general debility," "debility," " exhaustion," "asthenia," "atrophy."

Pleurisy (in $\beta$ only) includes "pleurisy," "pleuritis," " empyoma," "pyo-pneumo-thorax" ( case).

Pneumonia includes "pneumonia," "acute pneumonia," "pleuropneumonia."
Renal disease (chronic) includes "chronic renal disease," "Bright's disease," "chronic nephritis, "granular kidney,"," "chronic granular kidney," "gouty kidney," "renal degeneration," "cirrhosis of kidney," "fibroid degeneration of kidney," "degene-

* Where such alternative terms as "cerebral softening," " hrain softening." and "softening of the brain" occur together, they are considered as identical, and one only is quoted here.
ration of kidney," "interstitial neplritis," "chrcnic desquamative nephritis," "chronic albuminuria," also, in $\beta$, I "albuminuria and gout:" in $\gamma$, I "gout and dropsy," 2 "albuminuria and uræmia."

Prostatic disease (in $\gamma$ only) includes "prostatic disease," " prostatic troubles," " enlarged prostate," "disease of prostate," "prostatitis."

Tubercle includes "phthisis," "acute phthisis," "chronic phthisis,"," laryngeal phthisis," "tracheal phthisis," "abdominal phthisis," "tuberculosis," "t tubercle " of lungs, peritoneum, intestines, mesentery, and brain; also, in $\beta$, I "stonemasons' phthisis;" in $\gamma$, I" miners' phthisis."

Typhoid fever includes "typhoid fever," "enteric fever."
We have also constructed Table XVI, a modification of Table XV, made in the same manner as Table V1 from Table V and Table XIV from Table XIII, by halving the subclasses between the adjacent classes.
We have also constructed Table XVII, showing the ratio of minor to major liabits for each of the diseases quoted.
Table XVI.-The same as Table XV, with the Subclasses merged in the Adjacent Classes.
a. Deaths between 25 and 40 .

| Disease. |  |  |  | A. | B. | C. | D. | E. | Unclassed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | ... | ... | 219 | 6.8 | 35.2 | 23 | 13.9 | 20.2 | 0.2 |
| Bronchitis ... ... 20 |  |  |  | 5.0 | 20.0 | 25.0 | 17.5 | 32.5 | $\overline{5}$ |
| 1feart disease (valve)... 39 |  |  |  | 3.7 | 40.8 | 14.0 | 16.5 | 21.7 | 2.5 |
| Preumonia | ... |  | 59 | 4.1 | 36.3 | 24.4 | 17.6 | 16.8 |  |
|  |  |  | 334 | 7.6 | 38.3 | 24.3 | 12.3 | 15.7 |  |
| 'I'yphoid fever ... |  | ... | 33 | 9.09 | 34.8 | 25.7 | 16.6 | 13.6 | - |

B. Deaths between 40 and 65 .

| Total ... ...1,505 | 3.0 | 30.9 | 26.24 | 18.2 | 20.6 | 0.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apoplexy ... ... 111 | 3.1 | 28.7 | 24.2 | 22.4 | 21.1 | - |
| Bronchitis $\quad . .$. | 2.7 | 27.0 | 31.7 | 18.9 | 19.0 | - |
| Cirrhosis... ... ... 67 | - | 1.4 | 8.0 | 30.4 | 59.6 | - |
| Diabetes... | 5.2 | 28.4 | 19.5 | 25.0 | 21.4 | - |
| Heart disease (wall) ... 35 | - | 31.4 | 31.4 | 21.4 | 15.6 | 0.5 |
| Heart disease (valve)... 182 | 5.7 | 39.0 | 27.6 | 21.3 | 15.3 | 0.5 |
| Malignaut disease ... 116 | 12.9 | 49.4 | 28.2 | 10.2 | 13.3 | 0.8 |
| Nerve decay ... ... 40 | - | 32.5 | 30.0 | 13.7 | 23.7 |  |
| Pleurisy ... | 4.3 | 30.4 | 30.3 | 17.3 15.0 | 17.04 | - |
| Pneumonia $\quad$ Pl $\quad$... 159.15 | 2.7 | 28.5 | 30.7 27.3 | 15.0 27.8 | 23.5 |  |
| Renal disease (chronic) 89 | 26 | 21.8 35.9 | 27.3 23.9 | 27.8 17.5 | 23.5 19.0 | 0.3 |
| Tubercle... ... ... 275 | 2.6 | 35.9 30.8 | 23.9 35.6 | 17.5 23.8 | 19.0 9.5 | 0.3 |
| Typhoid fever ... ... 21 | - | 30.8 |  |  |  |  |
| \%. Deaths from*65 upuards. |  |  |  |  |  |  |
| Total ... ... 1.810 | 2.4 | 47.5 | 27.8 | 13.1 | 8.3 | 0.2 |
| Apoplexy ... ... ... 198 | 2.7 | 49.4 | 23.2 | 16.6 | 7.5 | - |
| Arterial degeneration*... 24 |  | 31.1 | 33.1 | 24.8 | 10.3 | - |
| Bronchitis ... ... 321 | 1.5 | 49.5 | 31.4 | 11.3 | 5.6 |  |
| Cystitis ... ... ... 32 | 1.5 | 55.8 | 23.3 | 10.8 | 7.7 | - |
| Diarrhcea ... ... ... 32 | 4.6 | 48.3 | 28.1 | 6.2 | 12.5 | - |
| Heart disease (valre) ... 160 | 1.2 | 42.0 | 28.0 | 17.4 | 10.9 | - |
| Heart disease (wall) ... 61 | - | 47.5 | 26.1 | 14.7 | 11.4 | - |
| Intestinal obstruction... 21 | 4.7 | 45.1 | 35.6 | 9.5 | 4.7 |  |
| Malignant disease ... 100 | 2.0 | 46.0 | 30.5 | 14.0 | 7.5 | - |
| Nerve decay ... ... 67 | 7.4 | 36.5 | 28.9 | 12.5 | 14.1 | 0.6 |
| Old age $\ldots$... | 3.9 | 54.2 | 28.9 | 7.0 | 4.6 | 0.6 |
| Preumonis ... ... 82 | 4.2 | 46.8 | 26.1 | 7.2 | 15.2 |  |
| Prostatic disease ... 34 | 1.4 | 58.6 | 27.7 | 10.1 | 1.4 |  |
| Renal disease (chronic) 48 | 2.1 | 39.5 | 22.8 34.2 | 24.9 11.4 | 10.3 17.1 |  |
| Tubercle ... ... ... 35 | - | 37.1 | 34.2 | 11.4 | 17.1 |  |

Table XVII.-Table showing the Ratio between the Cases falling in the Lower and those in the Higher Half of the Alcoholic Scale, for the same Forms of Disease.
a. In the Foung, Aged from 25 to 40.

RATIO FOR THE WHOLE GROUP a, ( 390 to_ 3.37 , * OR) I TO 0.8
For tubercle (334 cases)
$\begin{array}{lll}\text {... } & 1 \text { to } & 0.7 \\ \ldots & 1, & 0.7\end{array}$

$\gamma$. In the Elderly, from 65 upwards.
Ratio for tile whole groie $\gamma$, ( 1,171 to $635^{*}$, or) I to 0.51

For old age and natural decay ( 287 cases) 1 to 0.36
, ('ystitis ( 32 cases) ...
$\begin{array}{llll}\ldots & 1 & 0.39 \\ \ldots & 1 & 0 & 0.4\end{array}$
, liarrhcea (3: cases)...
" prostatic disense ( 34 cases)
... 1 ", 0.4
". bronchitis (321 cases)

- apoplexy ( 198 cases)
". malignant disease ( 100 cases)
". pneumonia (8.2 cases)
". intestinal obstruction (21 casea)
". Intestinal obstruction (21 cases) $\quad . .1^{1}, 0.0 .5$
" Hiseases of the heart-wall ( 61 cases) ...
. diseases of the heart-ralves (160 cases) 1 " 11.7
." Clironic renal disease ( 48 cases) ... 1 ". 0.7
, nerve decay ( 67 cases)
., tuberele ( 35 cases) ...
$\begin{array}{llll}\ldots & 1 & & 0 . \overline{7} \\ \ldots & 1 & & 0.8\end{array}$
., arterial degeneration ( 24 cases)

On looking through these tahles we notice the following:
Cirrlosis, in group $\beta$, shows an overwhelming preponderance of major labits, their ratio to minor habits being nearly 16 to 1 . lu Table IV it will be seen that no case of cirrlosis oeeurs lower in the scale than $B C$, and very few below $D$, and more than 65 per cent. in E and D.

The fes cases that occur in $\alpha$ and $\gamma$ tell the same tale.
There is no other disease which shows anything like such a marked preponderance of intemperate habits as cirrbosis.

Sext in order, but at a long distance behinf, comes chronic remal lisease, which in $\beta$ gives a ratio of major babits of 1.8 to 1 , nearly $\because$ to 1 , or not far from doulhe the normal ratio of the (grent). In $\gamma$ the ratio of major labits is also large, though less strikingly so than in $\beta$.

In Table XV it will be seen that no case in $\beta$, and few in $\gamma$. occurs lelow B. Fien the B's are few in both $\beta$ and $\gamma$.

Cises of arterial degeneration, in which term senile gangrene is ineludal, give in $\gamma$ a major habit ratio of 1.1 to 1 , as against about halt that ratio for the whole group. The cases however are very few.

Apoplexy, on the other hand, gives a nearly nommal ratio, both in $\beta$ ind $\gamma$. The percentages in Table $\mathcal{X V}$ will be sewn also to corrispond pretty closely with the normals. The numbers bere are large.

Tuberele gives a ratio of major habits higher than the normal in $\gamma$ but not so high in a and $\beta$. This aceords with the opinion cenrally held that senile phthisis is induced ly alcoholic excess, luat that at other times of life it has a retarding intuenee, if any, mon the production of tubercle. We must add, howerer, that the aggregate of plathisis in $\gamma$ is not more thun $3{ }^{2}$.
Disease of the heart valver, which in alvanced life is to a large extent atheromatous, shows in $\gamma$ a slight preponderance of major habits ans eompared with the normal ratio. In $\alpha$ and $\beta$ the ratio is practically normal.

The same applies to diseases of the heart-mall.
Mr. Butlin's conclusions as to the absence of comection batween alcolnolic habits and the production of malignant disease are fully bornc out here, and some enuntenance given to the helief that the use of alcohol hinders its formation for atime. In one hombed cases of maligmant disease, in Gromp $\gamma$, the ratio is normal, though Table XV slows that there is a slight temdency
towards careless drinking, $C$ and nc being filled at the expense of $A$ and 1 . $\ln 116$ cases in $\beta$ the minor habits markedly predominate, the ratio being nearly double the normal, and $I$ and $B$ in Table XV being filled at the expense of $D$ and $F$.

The mortality from pneumonia is not shown by these Tables to he markedly influenced by alcohol. In a (59) cases) the ratio of minor hahits is barely below the normal. In $\beta$ and $\gamma$ ( 1 .ft and 8 . cases) it is about equivalent to the normal, though in Table $A$ a certain tendency towards the upper columns of the scale mas 'he detected, F being in excess in both cases, and $B$ in $\beta$. ln $\gamma$. indeed, the percentage of the decidedly intemperate is almost double that of the normal.

In typhoid fever the proportion of minor habits is above the normal in $a$, and equal to the normal in $\beta$. The numbers howeve: are few.
The elderly bronchitic patients sliow a slightly lower ratio of major habits than the normal. The middle-aged, in Table $\mathbb{X}$, exlibit a tendency towards careless drinking. In the young the minor babits are to the major as 1 to 1.8 , and the proportion of drunkards is rery high. There are, however, but a bare score of cases to draw from.

Prostatic disease and cystitis, of which, however, the casps are few, show a higher ratio of minor labits than the normal in group $\gamma$, the only one in which they appear.

In the few cases of diabetes that appear, the proportion of major babits is rather higher than the normal:

As one would have surmised, the highest ratio of minor to major habits in Group y occurs in those said to hare: died simply of old age or natural decay.

## Gout.

The incidence of gout in the different classes is not shown in the above tables, which include only mortal diseases. A special column, it will he remembered, was devoted to gont in the inquirs paper, the question being put in reference to eacle case Whether the person had ever suffered from gout or not.

In 1,268 of the 4,234 cases a blank was left, the reporter not po:sessing the desired information,
In the remaining 2,066 the fact was stated, as requested in the inquiry paper, by an affirmative or a negative mark. These ?.9tio cases, being distributed into their respective classes and sul)classes, gire us the following results. The triple division into young, middle-agod, and elderly is again made in this table. thw three groups leing distinguished as before by the letters $\alpha_{0} \beta, \gamma$.

TABLE XVIIL.-Showing the Incidence of Gout in the Jifferent Alcoholic ('lasses.

| Cluss. |  | $\alpha$ |  | $\beta$ |  |  | $\gamma$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Gout. | $\begin{aligned} & \text { So } \\ & \text { Gout. } \end{aligned}$ | Tutal Cases. | Gout. | No Gout. | Toral Cases. | Gout. | No Guル: |
|  |  | - | 37 | 30 | 1 | 29 | 23 | 1 | 2 |
| $\begin{array}{ll}\text { A } & \ldots \\ \\ \text { B } & \ldots\end{array}$ | 7 | - | $i$ | 9 | 1 | $s$ | 12 | 1 | 11 |
| $\begin{array}{ll}\text { AB } & \cdots \\ 13 & \cdots\end{array}$ | 180 | 2 | 158 | 308 | 21 | 287 | 603 | 75 | \%2* |
| ${ }^{\text {HC }}$ | 17 | 1 | 16 | 48 | 8 | 41 | 75 | 1. | 5 |
| C ... | 100 | 1 | 99 | 273 | 41 | 232 | 31 | in | 20 |
| CD | 8 | - | 8 | 37 | 7 | 30 | 25 | $\bigcirc$ | - |
| 11 ... | 46 | 4 | 42 | 181 | 8 | 113 | 104 | 11 | \% |
| DIP ... | 16 | - | 16 | 29 | 13 | 16 | 17 | 4) | \% |
| Ei $\ldots$ | 85 | 11 | 74 | 213 | 71 | 142 | 5 |  | 12 |

For the purpose of showing the incillence of gont in a more convenient form we have constructed Table X1X, showing in encli gromp, $\alpha, \beta$, and $\gamma$, the percentage of gonty cases mpon the whole number reported upon in each class.
TABLE XIX.-Shouing in each (iroup. $\alpha, \beta$, and $\gamma$, the Percentane of Couty Cases upon the whole number reported upon in ears Alcoholic Class.

| Clas. | a | $B$ | $\gamma$ |
| :---: | :---: | :---: | :---: |
| A ...... | 0.0 | 3.3 | 4.3 |
| A13....... | 0.0 | 11.1 | 8.3 |
| B | 1.1 | $6 . \mathrm{S}$ | 124 |
| 13 C . | 5.8 | 16.3 | 24.0 |
| U' | 1.0 | 15.0 | 2i.j |
| (1) | 11.0. | 150 | 318, |
| I) | $\therefore .6$ | 34.8 | 45.1 |
| $111:$ | 0.0 | 4.4. | 64.7 |
| $\underline{L}$ | 1:2.9 | 33.3 | 40.3 |

The cionificance of these figures is such as lardly to require comment. We see speaking generally, in ench group the percentage steadily risine from 1 to E , the percentages being, as might be "xpected, higher in $\beta$ thm in $\alpha$, and in $\gamma$ than in $\beta$. It will he noted, however, that there is only a very slight rise from D to L , there being, indeed, as slight fall in the case of $\beta$, so that it woukd apperar that prolonged "free"indulgencein alcoholicliquors carries the gouty tendency nearly to its height, there being no additional Tise when the stage of habitual drunkenness is reached.

It mist be remembered that the effects of indulgence in alcoholic liquors is here shown, not the effects of indulgence in pure alcohol. We have no information in most cases as to the kind of liquor consumed: but if the reader refers to Appeudix A, he will wee that the majority of the cases are reported from England and Wales, so that on the whole it is the effect of the kind of liquor consumed in England and Wales that is here shown. The same, of course, applies to Tables XY-XVII.

## Tubercle

1 special interest attaches to the suliject of tubercle, on account of the widely conflicting riews held as to the action of alcohol upon the production and the progress of the disease. While some believe that alcohol takes a large share in the production of the disease, it has been tanght by other authorities that exactly the reverse obtains: that drunkards and free drinkers are less liable to tubercular disease than the temperate, and that the administration of material amounts of alcohol is necessary, or at least desirable, in the treatment of the affection.

We have already seen from Table XVH that among those dying under 40 from tubercular disease the ratio of major habits is rather less than the normal of the group, that the same obtains in the middle-aged, but that among the elderly the ratio of major habits is considerably more than the normal of the group; and in Table XV we have seen that in Group $a$ there is a slight excess of tubercle over the normal in Classes $A$ and $\mathbf{B}$, Classes D and E being leficient ; while in Gronp $\beta$, though Class $A$ is not in excess, Class B is markedly so, and both U and E slightly deficient.
Again, in the same Table, under the heading $\gamma$, we have seen that Class $\mathbf{E}$ is greatly in excess, and Classes A and B rery deficient; so that it would seem, as we have abore stated, that alcoholic habits were not inducive of tubercle in the young, but rather the reverse, while in the old they predisposed to the disease.
To place this most important subject in a clearer light we have taken both the total number of cases and the total number of chsers of phithisis in each class for each gromp, and have constructed table XXI, which shows for each group. and for each class, the percentage of intividuals who have died from or with phthisis. 'AmmelXX. - Showng the Distribution of the Cases of Phthisis in the Different Classes for each Croup, $\alpha, \beta$, and $\gamma$, with the Agyreyate Numbers of each such Class.


Tanas XXI.-Shawing for $a, \beta$, and $\gamma$ respectively the Percentage of mofinidurals in each Cluss uho Jied of, or with, Tullercular Discase.

| In Cians A |  | Ina |  | In $\beta$ |  | In $\gamma$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | .. | 52.3 | cent. | $15: 2$ | cent. |  |  |
| $11^{13}$ | . | 51. 4 | " | 19.6 | . | 16 | r cen |
| BC | ... | 29.1 | " | 8.9 | ., |  |  |
| C | $\ldots$ | 52.7 | " | I4.7 | " | 0.7 |  |
| - C1) | ... | 48.1 | .. | ${ }^{22.0}$ | . |  |  |
| - D | ... | 40.9 | " | 15.2 | " | 1.9 | " |
| ", 1\% | ... | 35.5 | ". | 15.1 | ". | 4.3 |  |
| T $\because$ : 1 ! |  | 6. |  |  |  |  |  |


1.6 jur cent
$-2$
4.3

I!

Here we see that among the young the percentage remains practically the same until Class $\dot{C}$ is reached, that it then falls somewhat rapidly, the percentage in E being but two-thirds of that in A .
In $\beta$ the percentages are irregular, but on the whole they are nearly the samo for the five main classes, $B$ being somewhat in excess.

In $\gamma$ we have no cases in A or AB , and the percentage is three times as great in E as it is in B. The numbers here, however, are very small.
On the whole, the results we have obtained certainly give some countenance to the belief that as regards the young alcoholic drinks act as a preventive of tubercle; but as regards the old they appear to farour the contrary opinion. In the middle-aged the two principles of action appear to neutralise each other.

## Chrnnic Renal Disease.

It has been suggested that the influence of alcoholic bererages in the production of renal disease, which we believe ourselves to have ascertained, is of a secondary character, the kidney lesion being due to gout, which, as we have seen, is strongly induced by alcoholic liquors. In order to bring this as far as possible to the test, we have taken from the list of cases of chronic renal disease those in which the existence or non-existence of gout is stated. We have distributed these into a table (Table XXII) constructed on the exact plan of Table XV11. This table shows the iucidence of gout for the different alcoholic classes in cases dying of or with chronic renal disease alone. The mumbers are very fer, but, nevertleless, we have translated them into percentages (Table XXIII) for the sake of comparison with Table NIX.

Table XXIl.-Showing the Incidence of Gout for the different Alcoholic Classes in cases of Chronic Renal Disease.
$\beta$
$\gamma$


Table XXIII.-Showing in each Group $\alpha, \beta$, and $\gamma$, the percentage of Gout Cases upon the whole number reported on in each Alcoholic Class of cases of Chronic Renal Disease.


Allowing for the very possible fallacy involved in the smallness of the numbers treated, Table XXIII certainly seems to bear out the suppositiou above alluded to, for the percentages of the main groups almost throughout are very considerably higher than those in Table X1X.

## Stmanary.

On the whole, then, in addition to the information that we obtain from these returns as to the alcoholic habits of the inhabitants of this country, and as to the relative alcoholic habits of different occupations and classes, we may not unfairl claim to hare placed upon a basis of fact the following conclusious:

1. That habitual indulgence in alcoholic liquors beyond the most moderate amounts has a distinct tendency to slorten life, the arerage shortening being roughly proportional to the degree of indulgence.
2. That of men who have passed the age of $\mathbf{2 5}$, the strictly temperate, on the average, live at least ten years longer than those who become decidedly intemperate. (We have not in these returns the means of coming to any conclusion as to the relative duration of life of total abstainers aud habitually temperate drinkers of alcoholic liquors.)
3. That in the production of cirrhesis and gout alcoholic excess plays the very marked part which it has long been recognised as
cloing：and that there is no other disease anything like so dis－ tinctly traceable to the effects of alcoholic liquors．

4．That，cirrlosis and gont apart，the effect of alcololic liquors is rather to gredispose the body towards the attacks of disease generally than to induce any special pathological lesion．

5．That in the etiology of chronic renal disease，alcoholic excess，or the gont which it induces，probably plays a special part．

6．That there is no ground for the helief that alcolnolic excess leads in any special manner to the development of malignant disease，and some rason to think that it may delay its production．
7．That in the young alcoholic liquors seem rather to check than to induce the formation of tubercle；while in the old there is some reason to believe that the effects are reversed．
8．That the tendency to apoplexy is not in any special manner induced by alcolsol．
9．That the tendency to bronchitis，unless，perlaps，in the young，is not affected in any special manner ly nlcoliolic excess．
10．That the mortality from pneumonia，and probably that from typhoid ferer also，is not especially affected by alcoholic habits．
11．That prostatic enlargement and the tendency to cystitis are not especially induced by alcoholic excess，
12．That total abstinence and habitual temperance angment considerably the chance of a death from old age or natural decay， without special jathological lesion．
It is rery grtatly to be regretted that the returns to this inquiry were not far more numerous than ther actually were．The con－ clusions drawn from the inquiry would have had much more weight had we been able to base them upon an aggregate of ten or trenty thousand cases，insteat of four thousand and odel only．
Should the pullication of this report aronse sufficient fresh in－ terest in the sulject it would be possible to reissue the ingniry ；but the Collective Investigation Committee would not feel justified in doing so withont some decided expression of opinion ly the mem－ bers of the Association that the reissue slonuld be made．

1 have much pleasure in thanking Mr．l＇rederick Hendriks．F．S．S． Actuary of the Universal Life Assurance Sacietr．and Nr．Frank 13．Wyatt，Actuary of the Chrgy Mutual Society，for information and references which they lave afforded me and in acknowleder ing the raluable aid rendered me throughout by my assistant．Dlr． Joscph Perrott．

## Aprexidi A．－List of Contribetons to the Inoztras．

## Abbot，C．F．．Braintrea

Adams，G．N．，Golbourne Hoad，Not ting Hill
Allan，F．J．，M．D．，Dock Street．E；．
Allen，W．11．，M．13．，1hriney
Aldrews，S．．M．1）．，llasingstoke
Ayling，A．i1．W．，（it．Jorthand St．，W．

## 13.

Bailey，T．J．，Liverpon？
haird，J．，Sviton，Leicenterslite
balbinie，J．P．，Staveley
 Wight
Barmes，E．Cf．．M．D．．．Her
Darues，II．，M．b）．（：arli－le
batterbury．（i．II．，M．D．，Wimhorne Behrendt，M．V．J．．Burringhaim，Don－ easter
Benham，11．T．，3．1）．．1pswioh
Bernays，II．Ci．，Old Charltou
Bernays，W．Wicm
Berry，W．，Wigill
 S．W
Birt，G．，M．B．．Stomrintilsp
Blake，G．ľ．．Moseley
Bland，A．II．，M．U．，GIoncester Ter rues，S．W
Poblity，1I．W．，M．D．，Manchester
Bominy，W．A．，Chelsen
Boetli，1．M．，M．L．，Abwedeen
Boswell，A．，M．I．．Aslatourve
Branson，J．，Rotherblan
Irown，iv．II．，l．eeds
Buckelh，I．J．．M．1R．．Islinemton
Burtinghans．1）．C．，M．D．，Itawarden
Campbell，IV．MIe．F．．．M．1）．．Liverpool
Cardew．（i．A．，Chelimhlam
Cascy，E．，M．1）．．Winlsor

Chalmers．J．M．D．．lieppel Street，W．C．
Choesewright，1．l．，Rawnansh
Commor i．M．1）．，（colemanm，Victoris
Coomls，（？，P．，ii．．．．Castle Ciarey
Conpley，and clark，Messr．，Wisbell
Copley and Cark，Cate Rameg．Wate
Crawforl．J．，Iqhtham．Serenoaks
Crisp．J．11．，Lacock
Dale，Cr．，M．B．，Mour Park
Daly，（i．WF．，Katobeh，co．Neath
Invidson，J．，M．B．，lixhridge
1）Myio．I．M．13．swanser
П：wies，J．，र̌ew 3itl－
Havies，T．．（onlwy Hay
Divic．M．，M．D．，Bembswick square W． C
nay，W．11．．Nornichs
1henime．1L．：M．1．．，Lidgaston
1）ickson，W．，．M．IV．，Custom House，E．C．

Downes，E．，M1．D．．lia－tbourne
Fiarle J Wamelpater
Furte，J．，M．，M．3．，I．IB．C．S．，Con－

batom，I．，M．D．．Cheator Moor



Ferris，J．S．．M．B．．Vivbridge
Ferris，J．S．．M．M．．
Thandford
Fitagerahl．C．1．．，M．D．，rolkestone
Fowler，T．，1．pping
Fowler．T．．Fpping
Fraser，（f．li．．Wark－on
Freer，A．Stourlonige

Fry．J．F．，Swanse：t

Gialtnn，J．H．，M．L．，Anerley limad， s．E．
Garrington．A．，M．D．，Soltlisea
Garstanir T W．13．A．，Dubcrons，Old hamm
Gentles，T．I．．．Derbs
Gilluer，1．（1．．M．D）．，Hackney
Green，J．1．．．Salisbury
Green，1：13．，kendal
Green，以，1，．．Sundown．1sle of Wight
Greenwoort，M．，jull．，Dalston

Harriann，C．，M．D．，Lineoln
Hart，H．．Birch．Kielvedon
Martill．J．T．，Willenhall
Martill．J．T．，Whan，Alingdon
Hayman，S．A．：Alsingdon
Havward．J．W．．M．1）．，Liverpol
Hayward．J．W．a．M．D．，Liver
Holmes，J．，M．D．，Ouselhurst，Ia， cliffe
lloplins，1I．C．，Bath
Horder，T．G．，Cardift

Jackson．A．．Sheffield
Jardine，J．L．，Capel
Jardine，J．L．．Capel
Johnson，M．M．．

Joynes，F．J．，Dursley

## K．

Kebbell．A．Flaxton
Kingsbury，G．C．，M．D．，Blackpel
L．
Llord．12．H．，M．D．，Lambeth 10 irmary
Lloyd，T．L．．．Cheswardine
Llowd，Williams 11. Dolgelly
Jockie．S．，3．1．．Carlisle
Loverrove，C．，llanwyddy
Lush．W．V．．．M．D．．Weymouth
L．prett，J．，M．D．，Wolverbampton
Lydilon．lR．，Ramscate
Lynch，J．ネ．，Boyne Terrace

## M．

Macamat，C．ME．Beith
Macdonald，T．W．．，M．D．，Dorchester
MeGregor，J．，Porismonth
Mackenizit＇，1＇，J．．M．D．Glossop
Markeuzie．J．A．，M．B．，Farnworth，
Bolton
McLend，D．，M．I．，Kilmarnock
Massinkhan，J．，M＇，Wolstanton，Stoke on－Trent
Mathews，J．，liverprol

Meres，
Morton，T．．．．．．．Elrenghton，Brongh
Nash，F．，Todmorien
Nowman，11．，M．1）．，Stamfora
Oiell TV．F．li．C．S．．IIertforl
O＇Graly，W．F．，swintors
1 ．
Paget，W．S．，M．D．，Liverpool
prafner，J．F．，Chelsea

Parry，1I．II．．Kidlington
Parry，18．\＆．．．11．Nurth Shiehls
Ticklos，T．i．，L（vol
pirinch，C．II．．M．B．．Sirlson
Playne，A．，M．B．，Mainkenheral
Plimmer，in．G．．Anerley Ik atl，S．I．．
Plowright．C．13．King＇s lywn
Poole．（i，K．．M．D．，EVNer Nurwool
Porritt．X．．IIndarstield
1’ower，1，．K．．，lortsea
1＇ullen－Burry，11．13．，I．iphorik
J＇se－Snith，K．J．，k．1：C．S．，sheffield
18.

Ransome，A．，M．D．，F．R．S．，Bowdon
1laven，T．F．．．13roadatairs
leelwood，T．Mall，M．W．，Rhymney
lRice，lh．Harwell
Richardson，S．S．，Scutt＇s Wale，Tas． manis
Ritchiif，J．J．，Leek
toll， B ，
llugg，B．A．，Woorl Green
Sadler，M．T．，M．D．，Rarnslus
Seeger，11，W．，M．B．．Hampion Court
sheelis．l．．rentonville
Skrinslire．J．T．，M．D．，Halt
Sloman，s．G．，jun．．Farnhans
Smailes，T．，II onles
Smith，R．S．．．M．D．，Cilton
Snell E A Mis．City Rearl
Square，W゚．J．．F．jk．C．S．，Plymoutı
Square，II．，Saffron Walden
Stear．II．．Kaffron Wald
Stocks，A．Y．，．M．I．，Bruton
Swale，11．，M．13．，Tavistoch
Tayler．G．C．，M．D．．Tmowbilgo
Taylor，J．．Tandrager，co．Armagh
Taylor，J．，Bristul
Taylor．．．．Chester
Taylor．© Chester
Therry，H．（i．，lath G．，M．D．，Newiort．Mon．
Thoniss，A．G．，Milly
There，13．，1Iolntitirth
Trend，T．W．．M．1\}.. Sonthampton
Tribe，I．T．B．．C＇latham
Tumer，J．S．．Anerly Koad．S．E．
Tslecote，J．T．，M．1）．，Gireat Haymoml

Unwil，J．B．．Dunchurch

Fickerataff，W．H．，Rullinmion，Jac－
rlesfield
Vincent．G．，M．B．．Nott＝
Vineent，11．B．，Liast Derelam
Walker wh．
Fard A．O．M．B．，Totenliam
Wanters G．T，13，Stonehonse
Watts－Parh intom，C．M．Wimlame
Watts－Parkinsom．．．Beisize Park
Wertland．A．M．．．．Bels
Wilks，G，M．B．．Ashf
Wills，J．P＇．．liexhill
Wilson，1．．T．．．M．B．．Cheltenlam
Wordles，A．Wi．．Griat suffolk Street， NE．
Wrench，E．M．，I．lR．C．S．．Baslow

Appesidi B．－Distribution of the lle casfe in whicht
 DURISG L．IFE．
The Italic Titles indicate the healings under uhich the cases come in Tables IT．IFI，and XIII．Caves not included in theser Tables hare no italic title given．A capnital $(i$ ．signifles that the Putient was reported to have suffered fiom Guit，the figure o that he uras stated not to have so suffered．

## Grnupa．

In Class B（2n5 cases）nre included two：－
Age 31 ．Fnammonia（ 1 herumonia）， 0
31，I＇hthisis（ Tuhercle）， 0
in Class $\mathrm{C}\left(1,{ }^{2}\right.$ cases）are incluled three：－
A贯e 2：，Ihthivis（Tuhercle）， 0
1．7e 2：M，Ihthisis（Tuhercles，O Phthisis ITulercie． $0^{\circ}$
－3s．Cardiac．astlama anu Bronchitis（Disease of Heart
Hㅊll）．
It Ciass（uric Fever（Typhord fcuer）， 0
Age 32．Kinteric Fever（Typhond Fcuer）， 0
33，Lncomot or Ataxy，
．．2s，Mhthisis（Tuhercle），
．＂29，Jinpyema（Plewrisy）， 0 ．．．

C the last 6 months
A the last is years
E．previonsls
B the last io years
D prerionsly
Filately
F．at time
11 lately
B the last 4 years

Age 34. Phthi-is (Tuker te).
In Sur-class ne ( ow (aspos) one is inclated:
A


27. I'hthisis (totercle), 0
3., Hematic Disease, $0 .$.

## Grote $\beta$.

In Class A (46 eases) one is incluted:-
Ase 41. Phthisis (Tulercle), 0
In ( 1 lass C ( 341.3 cases ) are included thelve
Age bil. Cardiac Degenetration (Desense of the llequt 11:2ll), 0
Ro. Albuminuria, 0
.- 19. Hamatemus. Liver Disease, $\dddot{O}$.
., 4), Bromehitis. leual Drorey, $G$.
ai, Bronchitis, Asthma, Pleuro-pnenmonis (Fronchitis), $G$.

(4) Diabetes friuht's Disease Carbumble
betes). 0
14, Epilepsy, A poplexy (-1poplery)
19. Lhronic Desquamative Nephritis, Ľernia (ëhrouic Renal Iisease)
58. Renal Cancer (MGalignant Disease). 0
btt, Chronic Bright's Insense and Dilatation of Heart (Chronve lienal Despase), G.
O8. Heart Disease (Disease of Jleart Valvé), $G$
In Class D ( 263 cases) are included twelve :-

54. Cancer of Stomadl.. Extreme Ätrophy (Höliguent
 59. Fatty Heart. Congestion of Lungb. Dropsy (Ihsese of Jeart Hisll), 0
., Sis. Praemia, 0
 ni.
as, Chronic Graülar Kötney, Üremia" (Chonic Renal D,sease), G.
17. Pamlysis from Injury, Cystitis, 0

54, Miners' Lung and Dropsy, 0
51, Phthinis (Tubercle). U
4), Erysipelas, Pyemia, o

In sub-lass 1ue ( 50 cases) are included two:-
Are. 63, Chronic Bronchit is (Bronchitis)
63, Chronil Liver 1)iseace. St rangulated Hervia (oper:tion). Diarrheca, Exhaustion
In Class E (329 cases) are includell fonrteen:-
A ir : in, Cancer of Liver ( 1 Lizlignant Disease). 0
62, Heart Diserse (Dherse of Heart Falves),
, ôl. He Bronchitis (Disease

## Balves). r .

52, Pyelitis, G...
41, Pnemmoni:l (Pnetrmonin)
i3. Chronic Disease of Stomach and Liver (\%) Cirrhosis, $G$.
62, Sanguineons A poplexy, "̈sphilis (ipaplery)
in, Bronchitis (Bromehtits), 0
57. Cancer of Stomach, Periomation (M̈aliymint Dispasel. 0
11. Chronic Phthisis (Tubercle). U..
(32. Phthisis (Trhercle). (1
4. Pueumonia (I'neunoniu). 0
io. Congestion of Liver, Astlima, Bronclitis,

## Groct $\gamma \cdot$

In (lass A (34 cases) are inclutpd two:-
An'• Su, Ohl Aye, Pamalysis, 0
i1. Brights Disease \{ ('/hranic 7irnäl Diseäse\}
in Class 13 (sou cases) are incluiled three
Ake, in. Chronic liright's Disease (Chrontic Bmal Diserse) -1.3. Eularged Prostate, Acute Cystitis (I'rostatic Imsef, Olid Age (oild - Age), o
In Sub-class ne ( 91 mases) one is included:-
Ane ix. Apmplexy (Aroplery), 0
In Class C ( 436 tasea) are inlluded eight:-
Aze, is, Senile Decry. Part ial Itemiplegia (-1 poplesy) 73, Heart lisease, Bronchitis (Insease of IIfart I'uluce) is, (Gralluitl Decay, Bronchit is (Bronchitas), G.
i\%. Dyspensia. Gequeral Delline (Old Age)
4), Derangerl Liver, Weak IIcart, $G$

A5, Bronchitis (Irronchatis), 0
71. Brain Softening (A)erce Decay), $G$. ii. Senectus (Old Agf), 0

In subtelass ct ( 19 cases) are incluted 1 wo:-
A.e. 19, Mania (inherited). 0

67, Fatty lleart, Hemiplıgia, 0
in Class D (2n1 casts) are inclutled eight:-
A is! , 59, Paralysis, $G$. io, Anthrax, Diarrhory BB, Cirrlon-is of Liwer, $r$.
71. Cardiac Dianase (Jhisense of Mëthet bütups), ©
62. Fattv Degreneration, J[itral Disensa of Jlart Dhis ease of llertet Silues. of. Phthisis (Tubercle) i4. Chronir Bronchitis, Jeart Disease, Killury Jis $\because$ ise (13right's). Imany (Chronce Renal Discuse), $f$. TS Bronc:bitis (Bronchitis), G.

B the last 3 years
E Fresionsty

1) till last 3 yea"a Itlu- last year I the lantymar

B till last \% rears

B the last is year B lately

1) previonsl

D at times

1) previously I) previonsi!
is the last of years B lately

B lately
A the litst 2 years
A the last 4 years $B$ the last 3 years

E at tinues
E at timea
Ethe last 4 years
B the last 9 years
A the last 2 years
B lately
E till last 20 sears
relately
$B$ the last 3 years
B the last 4 years
A lately
B the last 3 years
BC lately
B lately

1) till lavt 2 years 1) till last 10 years

I the last if montha
13 the last $2 \frac{1}{2}$ years
$A$ lately
B the last ti years
A the last 12 years.
13 the last 2 years

1) previously

A the last it years B the last 2 years
13 the last 4 years

1) Sately

A the last 10 years

15 lately.
B lately
E the last 11 months
A till last 10 sears C previonsly:

B the lant 3 years.
Elately
13 the la-t 4 years
13 lately
0 lately
B lately
B lately
13 the last 10 years
A lately.
Tre previously
B the last 10 yeats.
A the last 3 years
P lately
R previously
13 lately
$C$ the last 3 years
13 lately
B lately
B the last 5 years.

In Sub-class DE ( 28 raves) one is insluderl:-
Age, 71, Chronic Bright's Uisease, Heart Diseane ( (\%ronic
Jienal jtsease)... .... .... ... .... ... ... B lately
In Class E (139 cases) are inchuled twenty-six:-
Age, 68. Pneumonia (IMrumimia). 0
D previously
ge, 7 \%. Cystitis (Cystitus), (i. ... ... ... ... ... ... I previonsly
6.', Leucocythemia, Dyspuria, $0^{\ldots . .}$.... ... ... B the last 4 years

70, Bronchit is (Bronchites), o $\ldots$.... ...
To, Heart Disease, Hypertrophy of left Ventriciv (Disease of Heart I'aleps), 0

3 the last 3 years

65, General Paralysis (Nerve Decay). 0.
$B$ the last 3 years
" " $^{99}$, Rheumatic Arthritis ... ...
" 70 , Chronic llisease of Stomarh aml Bowel, $G$.
41. Senile Detay (O/d -fge) ...

C lately

Heart Palves)
B lately
ก1. Mepatitis, Pneumonia, $\ddot{G}$.
73. Alhumiumria, 0

B lately
67. Apoplexy ( 4 poplexy), 0 ...

D the last j years
67. Apoplexy (- poplexy) 0 ...

B the last 10 years
80, Chrouic Bronchitis (Bromehiti.s), 0
68, Mitral Deticiency, Bronclitis, Syncope (J)isease of
Meart lalres). $C$.
A thu last 3 years

79, Jepatic Dropsy
C the last a years
... $\quad .7$.... $\quad \ldots \quad$...
3., Fatty Degeneration of Heart, Bronchitis (Diseuse

85, Cerebml Apoplexy (ipoplexy). 0 ... ... ...
68, Bronchitis, Cardiac Diseaso (Disease of Jheurt
 A the last $10-15$ year
B the last 5 years
B the last $\overline{0}$ jears
$B$ the last 10 years $B$ the last 4 years $B$ the last 3 months

B the last 3 years
$B$ the linst 4 years.

## CxCl.AEsIFIED.

Age, 80, Old Age, $0 .$.
64, Phithisis, Tabes Dursalis, 0
, Tabes Dursalis, $0 \ldots$... ... ... ... B; D till the last 10 years
....... $\quad . . \mathrm{B} ; \mathrm{D}$ till the last 20 yeara
, 2,
83, Congestion of Lungs, 0 ..
89, Old Age. 0
38. Aortic Stenosis, Jinlarged Liver $G$.
64. Stricture of Pyloris, 0 ..

66, Spastic Paralysis ..
ลล̃, Cancer
52, Brain Diseaso
37, Erysipelas
Appendix C.-Previous Work in the Same Direction.
Two inquiries had previously been conducted upon somewhat similar lines; ont by Mr. Neison, abont forty years ago, and one by the Ilarreian Society of London in 1879 and 1880.
Mr. Neison's paper On the Rate of Hortality among Persons of Intemperate llabits was read beforetheStatistical Society on June 16th, L85I, and published in Volume xiv of its journal, pages 200 et seq.

Mr. Neison's inquiry concermed only persons of decidedly intemperate habits, corresponding as far as possible to our Class E., the rate of mortality of whom le compared with the general rate for England and Wales. IIe did not take acconnt, as our inquiry has done, of the minor degrees of the alcoholic habit. He included women as well as men. His inquiry paper particularly asked for a statement as to the duration of intemperance in each individual, an essential point for the purpose le had in view. IFe also inquired, and apparently obtained information, as to the kind of licjuor taken.

Mr. Neison obtained and classified 3.57 complete cases, comprising 6,11I.5 years of life during which intemperance was practised. In the result he showed that the rate of mortality among the intemperate was more than five times that of the general community between the ages of $2 I$ and 30 ; more than four times as great from 31 to 50 ; nearly three times as great from 51 to $i$;); about twice as great from 61 to 80 ; and equiralent to it from 81 to 90.

Proceeding further, he showed that the equal chances of life of temperate and intemperate persons might he compared at different. ages as in the following table.


We have no direct means of comparing these results with our own, as the cxact duration of the intemperate habit in each case was not asked for in our inquiry. which was not primarily designed with a view to vital statistics. We have been able only to reckou the arerage age at deatlo of all individuls enteredin
age, and those in $\mathcal{C}$ at a much earliur age than in A. Threefourths of Clas: C and two-thirús of Clasian $B$ harl died betwern the ages of 30 and cio, the normal prozortion for the adnlt popula

The infurmation oltained as to occupations only sufficed to how the prependerance of publicans in lj and C (par. - 4 ).
As regards the modes of denth, tho Committen rejorted: " We find, therefore, upon the whole, reason to think that, in the metropolis, the nortality among any considerable grous of intemperate persons will diff.r from that generally prerailing among adults in the following important particu-lare-namely, a fourfole increase in the deaths from di-. ease of the liver and clylopolictic viscera; a twofold increase in the deaths from dispase of the kilney, a lecrease of half as much ngain in those from heart disease, a marked increase in those from phemmonia and pheuriey, a considerable increase and an earlier occurrence of those from divease of the central nervous system: in marked decrease in those from bronchitis, asthma, emulysema, and congestion of hugs: a decrense nearly as great in those from phitbisis, and a later occurrence, or at least terminution, of the diseast ; a very large decrease in those from old age. with an increase in those refered to atrophy, dehility, et c.: and tho. addition of a consideralle group referred in general terms to alcoliolism or chronic alcoholism, or resulting from accidents" (par. tin.
The Cornmittees conclusions under this head roughly eorrespond with our results as regarels diseasts of the forthisis, but and nerrous system, and the heart, pneumonia, bronchitis, etc. "atrophy" and delility:

1 have found no statistics supplying the deficiency of our results as regards a comparison betreen the longerity of total abstainers and moderate drinkers respectively. 1 am informed that the experience of the Cnited Kingdom Temperance and General Provident Institution is indoubtedly farourable to the abstainers as compared with the rest of the community, but no detailed report has, 1 helieve, been published.

I extract the following from The Insurance and Finance Leader
of May, 1888.
"In his speech at the recent annual meeting of the Whittington. Mr. Bowser made some interesting remarks regarding the question of Temperance sections in lusurance Companies that art worth quoting. The experience of the Company since the last ordinary section was 16.3 ) per I M0 por year, while the rate in the Temperance section was 8.74 per 1,000 per year.
"But,' he said, 'as the lives assured in the the provident habit of paying for life assurance nt an earlier age than otbers, I have separated those above thirty years and under fifty, and I find the difference not so much in favour of the Temperance section, but still consideratile. I find the rate in tha ordinary section is 10.05 per 1,400 ; in the Temperance section. 6.22 per 1,000 .
"Then, going deeper into the subject as to the causes of death, Mr. Bowser found that:
". More than one-fourth of the whole number of deatlis nmongst the assured arises from varions affections of the lungand respiratory organs. The proportion in the Temperance section is slighty in excess of the ordinary section. Ahout oneeighth of the deaths arise from various affections of the brain Here, again, the mortality in the Temperance section is slightly in excess of the other. These two causes of death seem to show that the practice of teetotalers has but little influence on the rate of mortality from these canses. But when we come to the affection of the heart, of the stomach, of the liver, and of the kidneys. thon the differnce is most serions indeen. In the ordinary section the number who die of heart affections is nearly three times an many as those in the Temprance section, but of those who die of disenses of the stomach, of the kidneys, and kindred lisenses, ete.. the proportion is four times as many as those who die from the same causps in the Temperance section : still more neainst the proportion of 32 per 1,000 persons in the ordinary section who have in the Tempermaner section. Again, the deaths by accidents of varinus kinds (including suicide) are in the proportion of one in the Tomperance section, agninst thirteen in the ordinary seetion. These statistics are gathered from a number of assured lives brems known to be intemperate are absolutely excluded wheu proposed for lift assurance.

[^86]Dr. Casey las sent me the following table, exhibiting in parallel columns the comparative drinking habits of certain occupations as shown by our Report and the comparative mortality of males in the same occupations at the ages 25 to 65 , as given by Dr. William Ogle in the Supplement to the Forty-Fifth Report of the Registrar-General, p. xxv. The figures in the first column are the percentages of the less temperate in each occupation, drawn from our Tables VI and VII and compared with the general percentage taken as I00. Those in the second column are from Dr. Ogle's table, the general mortality being reckoued as 100 instead of 1,000 .

The figures in the second column for weavers, miners, and "driving occupations" are rough estimates only, as these categories are divided by Dr. Ogle into groups, of which the relative proportions are not ascertainable.
Dr. Ogle's figures are drawn from the returns for 1880-2.
Comptre. Mortality at ages $25-65$ (Ogle).

${ }^{1}$ Plumbers and glaziers are included by Dr. Ogle, not by the Collective Inrestigation Committee.
${ }_{2}$ Builuers are included by $D_{\Gamma}$. Ogle, not by the Collective Investigation Committee.
3 Probably many travellers retire before advanced age.
4 Grooms are inclnded by Dr. Ogle, not by the Collective Inrestigation Committee.
5 Potmen, barmen, etc., are included by the Collective Investigation Committee in its "Licensed Victualling" group. Dr. Ogle makes a separate category of "Inn and Hotel Servants," with a comparative mortality of 220.5.

## THE RELATION OF ALCOHOLISM TO INEBRIETY.

BV NOORMAV KERR, M.D., F.L.S.
Alconolisy is a term which has been somewhat loosely employed. It has been applied by some almost at random to designate all drinking (moderate or immoderate), or any kind of intoxication. By others its scope has been restricted to the mental and moral perversion (apart from the physical degradation) consequent on excessive drinking. Confusion has arisen probably from ignorance. Only within recent years has there been clearly revealed the existence of the lisease of inebriety, a disease often associated, but sometimes altogether unconnected, with alcohol. It may, therefore, be useful to direct attention to the distinction between alcoholism and inehriety.

Alcohol is an irritant narcotic poison, and the term alcoholism should be applied only to the toxic phenomena directly or indirectly arising from the action of that poison on body and lrain. This would include acute alcohol poisnning (fatal or non-fatal) and chronic alcohol poisoning. Under this designation would be comprised all the functional disturbances and tissue degenerations proluced by alcololic inebriating drinks in various doses, the vitiation of the blood, the circulatory tumult, the ncrvous perturbation, the vasomotor paralysis, the cerebral automatism, with the incomplete paralysis (with or withont unconsciousness) of transient alcoholic excitement; as well as the tremors of delirium trentens, the madness of manic a potu, the depraved digestion, the cerebro-spinal paralysis, the delusions, and the insanity of more permanent and graver alcoholic lesions. Under the term alcoholism would also be ranged the mental and moral depravities induced by the toxicating agency of alcoholic inebriants, the selfishness, untruthfulness, cunning, and deceit of the alcohol inebriate, as well as the transmitted proclivities to excess, instability of brain, and feeble will-power begotten of the alco-
holic inheritance. In most cases of alcoholism of long standing there are fatty or other legenerations of the liver, kidneys, heart, brain. and other organs.
luebriety, on the other hand, is a cliscase of the higher nerve centres, allied to insanity, which may or may not be of alcoholic origin. It consists of an intense morbid impulse to, or crave for, not intoxicants, but intoxication. The intoxicant consumed may be any narcotic which has an anresthetic effect. It is this benumbing, this prompt, even if evanescent, satisfaction of an abnormal or unhealthful impulse or crave for relief which is sought alter. The intexicant is the agent by which this fleeting relief is obtained, the particular drug resorted to being determined ly the idiosyncrasy of the patient, the narcotic to which he has had access, or which is in common use where he lives, or other conditions. Inebriety is, therefore, a true intoxication mania, or, as I propose to call it, narcomania, that is, a mania for narcotism.
Inebriety or narcomania assumes varied forms. As regards the inebriant, it may be alcohol, opium, morphine, chloral, chloroform, ether, chlorodyne, or cocaine inebriety, the second, third, fourtb, and fifth forms being considerably on the increase amongst us. Cocaine inebriety l have seen only a few cases of. Inebriety the disease may be coustant or periodic, social or solitary. There are periodicities of function, of nerve energy, of time, of occupation, of climate, of season, and of occasion. Uuder a third classification of complicatory disorders we have the inebrieties of insanity, of syphilis and other diseases, of convalescence from fevers, of heat apoplexy, of operations, of head or other injuries (traumatic inebriety), and of nerve shock generally. The most striking differences are between alcoholomania and opinmania or morphinomania. Alcoholic inebriety is both organic and functional. The opiate form is a disease of function, no such unmistakable organic lesions having leen observed as with alcohol. Again, alcohol maddens, while opium as a rule soothes. The lower animals are easily affected by alcohol, while many of them can live and thrive on opium. Alcoholists, too, are more untruthful. There is a wide difference also in the therapentic treatment of these two forms of the disease. With alcohol, the sudden withdrawal of the toxic agent is safe, with opium nsually unsafe.
The etiology and pathology of inebriety of all types is a profound and iutricate stuly. Some progress bas been made, but much is yet unknown. The state of alcoholic trance, for example, is one of grave import, and has as yet met with scanty recognition. This obscure and extraordinary phenomenon of inebriety has been known to include voyages and travels of weeks' duration, the subject of this diseased condition sometimes fully awaking to consciousness only to find himself in a foreign country, though he had been able to speak and act automatically to all appearance like other people around him. A knowledge of the various causes exciting and predisposing to inebriety is essential to enable a successful method of cure to be devised, this disease being as curable as most other diseasea. The alcoholic is, therefore, but one of many torms of inebriety, which latter is a constitutional disease of the nerve centres which may be altogether non-alcoholic in its inception.
The disease of inebricty may be either inherited or acquired. In the former case, the transmitted disease may be latent, not a single inebriate outbreak occurring in a lifetime.
All drunkaris are net subjects of the inebriate diathesis. There are those who drink from sheer "cussedness." They drink, as they bet, simply in pursuit of pleasure, their pleasure consisting in aiming at every questionable indulgence. Such cannot be depmed diseased persons, at least at the outset of their alcoholic career, but even in their case a chain of abnormal symptoms of pathological degradations may ultimately establish a state of true disease.

There may be alcoholic inebriety without what may be called the coarser manifestations of alcoholism. In some cases of intractable alcoholic inebriety, no organic lesions of any consequence have been visible after death, and no symptoms of disordered digestion, visceral derangement, or other organic function have been ohserved during life. The nervous affection has apparently been the only departure from health. There may thus be alcoholic drunkenness with no true inebriety, and inebriety or aarcomania with no actual intoxication by alcohol.

Dr. Cumming said it was impossible to enter into the consideration of the enormous amount of facts just laid before them by Dr. Owen. He was, however, not quite sure that Dr. Owen was justi-
students, he was obliged to be very careful to allurle to only what he knew himself on the sulpject, and that was remarkably little: He had, howerpr, put hefore them statements which hail been confilently put forward that phthisis was positively restrained by the usc of alcohol, not only in morleration but in excess. Ite had a voided touching on this, in the absence of absolute proof. and he sheuld be glad of some information braring on this subject. It prefessed to be hased on a large number of olservations. At all events, it was connected with the examination of a large number of persons who had died of drink diseases, and in whom they very rarely found tuberculous disease. He said that was at very curfous fact if it were true, and he had little doulat that it was so. Persons who died of "giu-drinker's liver," or other well-detinel disease of alcoholic origin, were very rarely tubercular. From this it had been inferred that alcohol was a preventive of tuherculosis; but he thought this subject onglit to be studied with this opinion full in view. IIe thought it, however, quite possible that tuberculous persons were less disposed to alcoholic indulgence than others. Ile alluded to the story told of an old relation of Lord Eldon, whe was a gentleman of the olden times. and a hirm believer in the virtues of toddy, alluding to a rising young man, he ras wont to observe: "Ile's a gnid young fellow; but he's nae right. Ile canna tackle his drink. That led him to suppose that youths who could not "tackle their drink" were probably wanting in physique.-SurgeonMajor Gunn had no hesitation in saying that many soldiars fell victims to a form of phthisis directly due to the use of alcohol.Dr. Gilbart Smith said he had been working for fifteen fears in the out-patient department of the Hospital for Consumption, and nearly as long in the out-patient room of the London llospital. As a teetotaler of ten years standing, he had taken very great interest in looking out for cases of phthisis in connection with alcoholic tendencies, aud he had been greatly astomished with the
very few cases of phthisis which came before him in men who were habitual drunkards, and he was also astonished to see hote long these cases dragged on. Ile began the inquiry in the belief that alcohel would hasten their doom, but his experience pointed the other was. Working among the non-alcolvolic, he foumd that phthisis conld not be treated except with proper doses of alcohol. In private practice he never thought of trating a case of phthisis withont alcohol. In every case where he had tried to do withont it he had failed. Now they had to take facts as they found them. and not try to make them fit with preconceived ideas. With regard had either rhemmatism or gout, but he had had both ever simeeA Member said he thought a great deal of weight was due to the observation of Dr. Owen on the longevity of total abstainers. They must remember that the total abstinence movement was only fifty years old, and that only during the last fifteen or twenty years had it really commenced to make great progress. Consequently the members of the Band of Hope of that time could not yet have attained the age to influence statistics. Dy-and-bye they would become old people. and so increase the arerage age. As regarded the treatment of phthisis, he had personally treated out greatly benefited without any alcolol at all. whom had gone not be saill that it was impossible to treat plithisis without Surgeon-Major Guns asked whether Professor Gamdner meant that people who suffered from phthisis ought to take alcohol in excess.-Professor Gaindnar said he merely Wished to ask the opmion of the Section on the subject, wut directionrt Smiths remarks certaiuly seemed to point iu that direction- Dr. Giln bart Smitu said that, whatever he thought, he should not be prepared to advise evil that good might come.-Dr. Isamband Owen said that his remarks as to the longevity of planation. Ile thouglit it was extremely doubtful whether the stronger or weaker members of the community took more kinuly to total abstinence. With regard to gout, his observatious had been drawn from England, and must be taken to affect only the particular kind of leverage indulged in. Ile hoped to preface his report with a geographical tabulation of the drink distribution. so small of kerr spose of the mumber have dealt with like to harger somber, but as a matter of fact they had been disappointed. they had hoped to get at least 40,000 , and he hoped that the interest which the publication of this report wondd excite might lead to further additions to this number. Is to the inquiry instituted by the Harveian Society, it had been conducted on somewhat dif-
ferent lines. Their cases were required to he divided into certain classes; those dur direetly to alcohol, and those supposed to have lreen hastened ly alcolol, etc. ln fact, it was rather an opinion uron the results of alcolool that was settled rather than a statencent of facts. It was a much simpler inquiry than theirs, aud hall been very successful. Their own inquiry had been for facta respect ing certain detinite diseases, which had for an object rather to make out the connection of the alcoholic habit with certain definite lesions than to ascertain the relative mortality. Statistics of insurance societies only concernel insurable lives, whereas their inquiry took in any kind of life, good or bad. He should be glad to get any further information out of these returns with regard to the rery important point raised by Professor Gairdner us tonching alcohol in clecking phithisis. Something of the kind could already be got ont of Table V11.

## THREE LECTURES

## TUBERCULAR JOINT-DISEASE AND ITS TREATMENT BY OPERATION.

Delvered at the Royal College of Surgeons of England, June, 188S,

By ARTHUR E. J, BARKER, F.R.C.S.。<br>Hunterian Professor of Surgery and Patholoyy at the Royal College of Surgeons; Surgeon to Üniversity College Hospital; and Teacher of r'tactical Surgery at Universits College.

## Lecture 1 Il.

1 shall, to-day ask your attention to the application of those principles of treatment which 1 have endearoured to sketch in our first two lectures to the actual removal of tukercular disease as found in some of the principal joints of the extremities.

Taking the knee first as a simple articulation, and one which claims attention more frequently, perlaps, than any other, I would venture to insist that hitherto we have been too much in the habit of regarding the prospect of a movable joint after operations for the removal of tubercular disease as altogether remote. In considering conservative interference with this disease here, it has until recently nearly always been a question either of camplete excision of the whole joint or of trusting to simple drainage without removal of tissue; and yet, if the matter is carefully examined, there are many cases in which such disease has existed for a long time-now in the synovial membrane, now in the bones -and yet, without operation, repair has taken place with little or no impairment of the movements of the part, and surely we may imitate such results by early operation.

It will be said that in such cases the primary focus had not extended actually to the surfaces of the articulation, and had been arrested early. But in the majority of cases-at all events in children-tubercular disease probably starts as a focus not actually in contact with the surfaces of the joint, and remains for a time quite outside the latter. For instance, it often begins at the growing epiphysary lines of the bones, as in the specimens from Which 1 lave drawn Figs. Ill and 1 V (hip), and $\mathrm{V}, \mathrm{V} 1$, and V'll (knee), and only gradually works its way either through the cartilaginons covering or out to the lateral aspect of the femur or tilia. Again, it niay commence in the subendothelial tissue of the synovial membrane, and derelop into a considerable caseating focus before it makes a breach of surface and attacks the parts which actually move one upon the other. We know, of course, that if such cases are left alone, this is not the rule, unfortunately; and that a large number of them will run on to destruction of the proper surfaces of the joint, and then all hopes of preserving its movements become very remote indeed.

Ought we not, then, to look out for cases in which we may by limited operation anticipate this extension of the process to the surfaces, or, at all events, arrest its destructive action on the latter? Undoubtedly; and, if we work more in this direction, the reward will be not only the frequent arrest of general tubercalosis, bat also the preservation of the morements of many a knee in which otherwise a more camplete excision of one kind or another would have to be performed later on.

A good methorl of exploring the knee-joint in which such disease is suspected to be on the increase, but where there is a hope
of preserving the movements of the part, becomes. then, an important desideratum, Ont of the large number of operations proposed and practised since the days of Filkin and l'ark, the most experienceal surgeons to-day appear almost universally to adopt the well-known "horse-shoe" or "U-shaped" incision of Moreau, modified more or less. When exploration alone is the first object, half this incision may be made on one side, reaching from above the joint to the border of the patellar ligament, as in l'ig. V111. Or, again, the two halves of the curves may be made down to each side of the latter, but without dividing it. Adupting one or other of these methods of exposing the surfaces of the articulation, its general condition may be fairly estimated in most cases, and indications for further action be discovered. In the first place, while making such an incision, especially in a case of early disease, it may be found that the knife passes through the tuberculised area before it actually opens the joint. A large quantity of granulation tissue, with or withont caseous foci, may be met with, and quite possibly in such a position that it can be freely remored withont interfering with the essential structures of the joint. Or, again, the appearance of the lateral aspect of the femur or tibia may indicate the presence of centres of tubercular osteomyelitis about their growing epiphysary lines, as in ligs. V, Vl, and VII. In such a case it may be quite feasible to remove all the infected medulla either by gouge or sharp spoon without the least damage to the gliding surfaces of the bones; and, even if the cartilaginous covering be encroached upon to some small extent either from within the bone or from without, it is quite possible to sacrifice a certain amount of it without injury to the prospect of a movable joint. Some cases in which this has been done have been pat on record lately by Sendler, with the result of almost perfect preservation of the functions of the part. And, after all, this result will depend almost entirely on the stage at which, operation is performed, now that antisepsis has eliminated the risks of setting up true suppuration in the joint by our operation. For of course the mere rnpture of a caseous focus into a joint does not mean the general suppuration of the latter, unless the focus itself also communicate by a sinus with the external one.

Now the moment such tubercular tissue is found the risks of reinoculation from it during its extirpation must be kept in view, especially if it have reached the stage of caseation. If it be possible, by turning back the skin and muscles on either side, to expose the whole diseased focus from our limited incision, it should be izolated by as careful a dissection as if it were a malignant growth, and the knife should at every stroke be carried through sound tissue around. At the same time the escape of caseons matter into the fresh womnd, or into the cavity of the articulation, should be prevented by erery means in our power. If. unfortunately, it should be impossible to prevent such contamination of the cut surfaces altogether, they should be as rapidly and as thoronghly cleansed as possible by irrigation with one or other of the powerful germicides at our command. The choice here appears to lie either between carbolic solution or bichloride of mercury.
Large areas of diseased synovial tissue may in this way be extirpated from the knee, as low as the ligamentum patellit and as ligh as top of the suberureal bursa, without any interference with the continuity of the lateral, crucial, or patellar ligaments. Cases are now accumulating in which this has been done, and all the movements of the joint have remained perfect. Koenig's and, more recently, Sendler's cases are perhaps the most encouraging, especially as in some of the latter portions of bone had been also removed.

The actual npening up of the joint in such a case should be postponed until the diseased area in the synovial tissues has been isolated as far as possible. Finally, after flushing the parts diviled with our germicide solution, the separation of the infected tissue is completed, and it is lifted out en masse. The condition of the ends of the bones can now be examined, and, if the patient is an adult, it is quite possible that the cartilaginons surfaces may be almost or quite intact, unless the disease has been allowed to rum on too long. In such a case, after careful irrigation of all the pockets of the articulation, and subsequent drying out with sponges, all the exposed strfaces should be dusted with finely crystalline iodoform.
Deep stitches, including the muscular expansion and skin, should then be inserted, about half an inch apart, throughout the whole length of the wound. These silk threads are not tied until all are in place, and until the final toilet of the wound has been completed. A drain-tube is not always indispensable, but may
with advantage be left in one of the angles of the wound, for the first twelve hours or so, in most cases.
But, supposing that the free single or donble lateral incision reveal the fact that the cartilage-covered ends of the lones are seriously affected, either primarily or secondarily, the joint must be more freely exposed. This is best done by completing the formation of the U-shuped Ifap (Fig. VIII), in order to turn it up from the lower and anterior surface of the fernnr. In doing this, of course the simplest plan is to sever the ligamentum patello, trusting afterwards to careful suturing to restore its continnity But, if there is any prospect of preserving the morements of thie articulation, this structure should be kept intact, if possible, for obvious reasons. This can only be done by removing the tuberosity of the tibin, and leaving it attached to the ligament of the patella. There is no difficnlty in this, if a good chisel is used, and is driven obliquely upwards and backwards, under the tuberosity, into the joint. T'he seale of boue thus removed can subsequently be wired down in its old bed, and one of the chief supports of the joint will be thus preserved intact. When the long U -shaped flap has been formed, as just described, and has been turned well up, there is no part of the joint which cannot be thorouglly examined during complete flexion.
Another method of exposing the interior of the knee-joint, while preserving the extensor mechanism intact, has been often Tractised within the last few years, and deserves some notice. This is the transverse incision across the middle of the patella, the latter being sawn completely through. Now there is no doubt that, with the safeguards of asepsis, this method is as jnstifiable as any other for opening the knee-joint, and that, when subsequently wired, the patella becomes as sound as ever, and the action of the extensors is preserved. But it is agreed by those who have had most experience of it that the transverse incision alone does not give as free access to the rarions parts of the joint as is required; and even Tolekmann, with whom the plan 1 believe originated, was obliged to supplement it by vertical lateral incisions, which enabled lim to turn the soft parts upwards and downwards with more freedom. Neither this method, nor that of Verneuil (lately revived), in which an H -shaped cut is made with the transserse stroke above the patella, appear likely to hold their own against the old U-shaped incision, which possesses many of the advantages of the other methods without their drawbacks.
if, in performing the operation by this $U$-shaped flap, the tuberosity of the tibin be lifted up with the latter, and then subsequently wired down in situ, all the adrantages of the method of dividing the patella are secured, and there can be no question of the freer access to the joint. But, whatever else is done, it should never for a moment be forgotten that our first object is to rid the patient of a distinctly dangerons new growth, and that all questions as to the functions of the joint must take a second place.
The points to be specially examined in these cases will be, frist, the several synorial pockets, and then the epiphysary lines of the femur and tibia, especially at their lateral aspects. Here it will Le frequently found in early cases that a focus of tubercular osteomyelitis extends more or less deeply into or across the bone. sometimes without transgressing the eartilage (Figs, $\bar{j}$ and VI ). In such a case, let me repeat, it may be quite feasible to remore all the diseased tissue by eareful gouging from the side without damaging the joint-surfaces at all. But, be this as it may, it must be remembered that, if be possible to cut around the focus in healthy tissue, and to lift the diseased mass bodily out without crushing it, and with a layer of sound material around it, the chance of re-inoculation of the medulla remaining is much diminished. Even from the joint-surface it is quite possible to do tlis without serious interference with the shape of the articular facets in many cases. A few months ago 1 was able thus to remove one of those conical foci of earions hone the shape of which, as Koenig points out, suggests their formation by the blocking of a nutrient artery by tulercular disense. It lay in the external condyle of the femur, with its base at the articular surface; and, though the gouge was carried well outside of it in healthy tissne, and a portion of the inmer aspect of the external condyle as large as half a walnut was removed, the shape of the joint has not been damaged; and 1 have lately secn the patient walking about comfortably, although in this case with a stiff joint, hut not in the least a shortened limb.
In passing I muy remark that such cases as the one just referred to offer an excellent illustration of the adrantages of the
most recent metlods of dealing with tubercular joint-disease. Here was a girl of eighteen who had leen under my care for the same affection for eight years, during the last three of which sh. walked about on a Thomas's splint and never put the foot to the ground. All this time she was carefnly treated hoth at home and in hospital, but the knee remained swollen, tender, and was now quite stiff, and walking was impossible. Last Chri.t tmas she and her mother begged that she should be operated on. 1 therefore laid open the joint by the U-slaped incision, removed all the infected synorial tissue, and a large focus of tubercular osteomyelitis from the femur as described. The wound healeci by first monl in under the second dressing, which was replaced by dry wrool and a plaster-of-Paris case on the tenth day. A day or two
later the patient was the watient was ont of bed; within a month from operation on the limb, same plaster case for had not becn used for years, she wore tho London I removed it, and found the state of the joint all that conld be desired. She could walk well withont the splint, hut was given a lighter support instead. I believe that for the last couple of months she has been at work again; and I saw her yesterday, perfectly well.
In this case, an operation, which did not interfere with the length of the limb or its growth, which did not confine the patient to her bed for a fortnight, or to the house for a month, gave her back the use of her leg within eight weeks-a result which eight Fears of careful treatment by other means had failed to prodnce. that further delay would hate resulted on extension it is probable which would then have required for its removal the sacrifice of some of the length of the bones, to say nothing of the other risks to which the patient would have been subjected.
It is perhaps a little too soon in this case to pronounce that re-inoculation of the system from the wonnded surfaces cannot have taken place during the operation. But we know enough to say that this is unlikely. From all the cases where snch an occurrence has taken place that I have been able to stndy, it seems profable that, unless there is eridence that the disease bas takrn fresh start locally or in internal organs within a couple of
months or so, it is not likely to reappear at all from this provided the patient's surroundings are healthy from this cause, There can be no question, as already stated, that such reinoculation of the soft parts and of the fresh cut bone does often take place in excisions of tubercular joints. Cases hare been recorded specially to elucidate this point, and leare no doubt, to my mind, upon it. 1t is probably a frequent canse of that secondary derelopment of foci of disease, long after operation, which is well known to us all. Hitherto it has been the custom to attribute this reappearance of the disease to its spread from portions of the original foci not thoroughly remored by the operation. But althongh this explanation will meet some cases, it will not account for all. The eridence is strong that a healthy cut surface of bone may be inoculated from the caseous debris in process of remoral from another part of the joint, and may develop
fresh foci of tube course. Much mav be onteomyelitis ns ${ }^{n}$ consequence in due a way tubercular debris, done, of course, in the way of washing surfaces in the course of an operation, and sermicides may he hrought to bear upon them before the wound is closed. But as the latter must be used sparingly in riew of their toxic effects on the system, it should be our aim to prevent, by every means in our power, the seattering broadeast over the woinded surfaces of the. part those seeds of further disease which we know from experiment are so ready to strike root even in uninjured tissues, and the evil cffect of which we have heretofore been only too familiar with When, after an excision has been soundly healed for some time caseous abscesses have formed, and have slowly worked their way to the surface.
Not infrequently, in examining a tubercular focus in the cancellons tissue of the end of a hone, we will observe that its spreat has been prevented, as it were, by a process of selernsis in the tissue around a process quite analogous to the formation of the limiting area of exudation tissue, demonstrated by experiment. around points inoculated with tubercle in the eye and elsewhert. (Fig. 1.) If such a sclerosis exist in any givea cave. we should he careful, in gouging out the diseased matter, not to go beyond thibarrier, erected by the natural processes agninst the spread of the disense.
I shall now ask to be allowed to describe in detail the methow I
should employ to get rid of the infected tissues from a linee which has been discovered by exploration to possess a widely diseased synovial membrane, the bones being little or not at all affected. If I venture to describe this as the plan 1 lave adopted myself, it is with no wish to dogmatise. No one is entitled to do this in the case of a subject so comparatively new to us all, and where all our individual experiences must still be relatively scanty. My which have gradually worked themselves out during many years in which 1 have been a close observer of the methods of others in this field of surgery, as well as an anxious student of my own clinical and pathological material. We have all, Sir, no doubt been obliged to revise our procedures over and over again, in viery of the advances in the theories of wound-treatment, and of the pathology of tuberculosis; aud all of us must be conscious that we are still but feeling our way. Those who have given the most attention to the subject wili be the readiest to admit that it is still fraught with difficulty. Of my own experience of the methods ahout to be described, I will only say that, as far as it goes, it is most encouraging, contrasted with older procedures; and that the results have been far beyond what I should have believed within the range of possibility a few years ago. And I know, further, that this has been the experience of many others whose line of action has been practically the same.
Tlie limb having been kept in the vertical position for five minutes, so as to reduce the blood-stream to the utmost, a broad band of india-rubber is placed tightly around it, as near to the groin as possille. It is well not to use the Esmarch's bandage in the ordinary way for several reasons. In the first place, its pressure may break up some of the caseating foci, and disperse their contents either into the tissues around, producing local infection, or into the lymphatics or veins, and so lead to general infection of the system. In the second place, it is an advantage to leave a small amount of blood in the vessels of the part, so that these
may be recognised when cut, and tied before the elastic torniquet is removed. Finally, the loss of tone in the walls of the vessels, produced by the prolonged pressure of the elastic band, is usually followed by such copious oozing as to necessitate an early change of the first dressings. Such a disturbance of the wounded surfaces is most undesirable, if it can be avoided. Quite apart from the increased risks of septic inoculation from every exposure of the wound, disturbauce of the part is likely to produce increased rascular excitement, and this again favours the development of tubereular infection. both local and general, as we have seen. Again. if extravasated blood find its way into the tissues around the field of operation, sueh blood offers one of the best cultivating media for the bacillus tnberculosis that could be provided, and is very likely to be inoculated during operation. The compression of the joint, then, by means of the elastic band is hetter dispensed with.

After every precaution as to asepsis, the lnee is now laid open by the $U$-shaped incision, and the resulting flap, including all the structures down to the bone, is turned up. Then, commencing at the tip of the flap, the thickened synovial tissues are dissected cleanly off from the under surface of the quadriceps in one continuous strip, until the upper rellection of the subcrureal pocket is reached. The dissection is then carried down over the frent of the femur, leaving the latter quite clean. The joint is next well bent, and all diseased tissue is carefully cleared away from the inter-condyloid notch and ligamentum posticum, and, finally, from the lateral aspects of the joint, and from the upper surface of the tibia. In short, the whole synovial membrane is peeled systematicully from the surfaces of the cavity, as nearly as may he, in one continuous tract. If the crucial and lateral ligaments are sound, they sloonld be spared, and the same may be said of the semilunar cartilages. The surfaces of the bones and their epiphysary lines of growth must now be very carefully examined, and ail tubercular foci be removed with a sharp spoon or gouge. Gentle pressure on the soft parts will now make evident any small vessels by forcing out their contents. These can be treated either by twisting or ligature, but, as a rule, there are very few bleeding points to be seen, and these can be quite adequately dealt with by ${ }_{a}$ few minutes forcipressurc while the othersteps of the operation are being completed.
The whole arta of operation is next flushed with our germicide solution in such a way as to remoreall traces of debris and hlood clot, and earefully dried with perfectly clean sponges. It is then lightly dusted with fiuely crystalline iodoform, in sucha way that every portion of the cut surfaces is reached by it, but in small
quantity. After this, the flap is laid down, and the sutures of carbolised silk are placed in situ, but not yet tied, the whole carity under the flap being in the meanwhile filled with sponges, with which pressure is kept up upon every part of the wound. When all the sutures are in position, the sponges are removed, together with the last traces of moisture, and the bones are finally adjusted in a straight line with one another. Then the stitches are tied evenly, closing the wound everywhere except at either angle, where a small drain-tube is placed.
The dressing which I lave myself used in cases of this kind is ordinary salicylic wool, but I have no doubt that there are other aseptic materials equally good. But much depends upon the way in which the first dressing is adjusted-more, I believe, than upon the aseptic material employed. Our aim is to apply even pressure in such a way as to check, as far as possible, all oozing into the extensive wound underueatl, and at the same time to allow of the escape of any blood or serum which may be exuded in spite of the pressure within the first forty-eight hours. Perhaps the best way of attaining these objects is to cut a flat pad of salicylic wool, one inch thick, exactly the size and shape of the flap, and lay it upon the latter; then to carry a strip of the same wool, about three inches broad in the line of the wound, but about half an inch from it. The incisious and drain openings are now seen between the edges of the two pieces of wool, which do not touch or press exactly upon them. Then long strips of wool are carried round the joint, including the two pieces first applied, until it is covered deeply from well above to well below the knee. This thick layer of dressing, if evenly adjusted, may be firmly bandaged, and thus all the deeper parts of the wound are brought into contact, except at the drain openings.
Nothing now remains but to remove the elastic tourniquet, and secure the limb in an apparatus. In these cases, probably, no appliance is superior to a piece of Gooche's scored splint, carried from the fold of the nates to the tendo Achillis, and well and evenly lined with wool. When firmly bandaged over the latter, it gives all the support that is required to the joint.
As soon as the patient is in bed, the limb should he placed in the vertical position, and be secured thus; this is a most important part of the after-treatment, lessening as it does the tendency to oozing of blood into the wound, with all its attendant inconveniences and risks.
After this, the less we interfere with the wound the better. If the pressure on the wool have been properly graduated, the whole wound will in most cases heal by first intention under the dressing which was applied on the operating table. Those whe proceed as above have many such cases to point to. But, if there be any gluteal fold, the limough the dressing, and it appear under the should be placed in the horizontal position, the Gooche's splint be unfolded, and the moistened dressings be replaced by dry antiseptic wool, applied as before, the incision and its neighbourhood being dusted with iodoform. At the same time, the drains may be removed. Personally, I prefer at this dressing to put the limb up once for all in plaster-of-Paris from foot to groin, and leave it untouched for two or three weeks. The plaster case can then be slit up, and the stitches be removed, without any lifting of the over the of its bed; and, when a little fresh wool has been laid as before, and such a splint will last until the patient is able to walk about.
But perhaps it might be better to advocate, as a routine treatment, the use of the Gooche's splint for the first ten days, then the removal of drains and sutures at the same time, and the "application of the plaster splint once for all.
It will be observed that no mention is made of provision for purulent discharge. The reason is that pus is not scen in cases thus operated on except as a very rare exception. We expect these cases to heal by first intention, and they do so. I am speaking now of cases in which no sinuses existed at the time of operation. And, even in a case with a few sinuses, union without
suppurat suppuration may sometimes be achieved if the dissection of the diseased tissues has been very complete, and if the borders of the
openings lia it is to be devoutly hoped that in the future all cases of this disease will be treated by operation before sinuses have formed Scraping out of the latter, it should be noted, is nut sufficient as a rule; they must be cleanly dissected out, so that union by first intention may take place along their track.
Treatment such as the above combines nearly all the require-
ments whieh, as I have already shown, are demanded in an operation for tubercular disease of the joint, whether we aim at the preservation of movement or at ankylosis. If the first, the absolute rest will favour repair without exudation, and if the latter, consolidation will be promoted in the best way. I cannot think that any pegging or wiring of the bones is necessary except in rare cases. If the patient is young the ends of the bones are mostly cartilaginous, and no amount of wiring will cause them to unite by osseous tissue; and if they are adults, and the encrusting cartilage has been damaged, firm union is to be expected if the parts be simply kept in close apposition and immorable. In any case, no displacement can or will take place if the joint is firmly splinted from the first in the fully extended position, and as long as it is thus supported, especially with plaster-of-1’aris, there need be no fear on this score. Young patients will always require such a support for months after operations in which the ligaments of the joint have been destroyed, for there is a great tendeney to flexion and displacement if the limb be left to itself; but this tendency can be counteracted by splints until it ceases.
Now as to the question of formal classie excisions, with sawing off of the entire ends of bones. I venture to foretell that after the next few years when the principles underlying the treatment of tubercular disease are better understood and the necessity of early operation is recognised, such operations will be some of the rarest in surgery. They will be replaced entirely, I believe, by the extirpation of localised foci in the bones without any sacrifice of their length and growing power. What a gain this alone is likely to be, need not be further dwelt upon. And that it will affect the subsequent course of the whole tuberoular process in the system I firmly believe time will show, when we have aecumulated enough cases operated on by the newer methods for reliable statistics.

## Operations on the Ilip-Joint.

In operations for the removal of tubercular disease of the bipjoint, bone will almost always have to be sacrificed for several reasons. In the first place the disense starts more frequently in the head of the femur than elsewhere as far as can be ascertained at present, and I have sketched in Figs. III. and IV. the usual position of its initial lesion. Secondly, the anatomical arrangement of the synovial membrane is such that it ean hardly he infected to any marked degree without participation of either the head of the thigh-bone, the acetabulum, or both together. And although attempts have been made to extirpate the diseased synovial membrane without excision of the bones, I believe such attempts have so far proved abortive. But although all this may be admitted, it is equally elear from our present knowledge of the pathology of the affection and our experience in its treatment that we ought nowadays to be able to effeet the ohjects we have in view by a far more limited removal of bone than was formerly considered neeessary in most eases. Remembering that primary
osseous disease of this joint is always limited at first to the head or its epiphysary growing line (Figs III. and IV.), or to the epiphysary lines of the acetabulum, and, that having once started in either of these situations it cannot spread far without involving the whole joint in a very serious way, it ought to be our object to interfere at a very early stage. If this is done, it will never be necessary to undertake those ghastly operations in which in former days the whole acetabulum, with large portions of the ilium, ischinm, and pubes, together with the whole bead, neek, and trochanteric portions of the femur were removed at one or more sittings. In the future if we wateh the early development of hipdisease elosely, we ought never to find it necessary to remore more than the head and part of the neek of the femur, and in some cases, the central portion of the reetabulum. Hence the wide-reaching incisions of former days are no longer necessary as regards the soft parts, and the forcible dislucation of large portions of the femur out of the wound are quite mealled for. In every ease now considered suitable for excision, the head of the bone can be sawn off in situ, and the acetabulum be dealt with through rery limited incisions in the soft parts. Allow me to remind you again that 1 am referring now to cases in which no sinuses are present or lave only very recently formed. Where many sinuses exist and true suppuration has been present for some time I believe that a case has been made out fully agamst any formal excision and that such cases as a general rule stand a far better chanee when treated simply by rest and the laying open and washing out of abscesses with free drainge.

For excision of the hip, then as we hope to see it practised from
henceforth, very limited incisions are demanded, and there are now two such which appear to compete closely for the general favor, namely, that on the outside of the joint (Fig. 1X.) and that on its anterior aspeet (Fig. Yill.). The first of these, known throughout Germany as Langenbeck's operation, is notwithstanding acknowledged there to be merely a revival of the original procedure proposed by C. White, of Manchester, for the removal of the hip-joint, in the year 1769. The second, or anterior incision, was hirst adopted in Germany by C. Inueter in 1878 , but independently, l believe, a little later by Mr. R. T. Parker in this country, by whose name it is perhaps best known here.


Vig. VIII-Excision of the Hip-Joint by External Iacision. The incision runs in a line from the posterior superior iliac spine orer the middle of the trochanter, the limb being semiflexed and adducted.
In White's operation, the limb being semiflexed and adducted, a straight incision is made orer the head and neek of the bone in the direction of a line running from the posterior superior iliac spine to the middle of the trochanter (Fig. 1X.). This incision should commence fully two inches above the tip of the trochanter and be continued down on the outer aspect of the latter for an inch and a half. It should lay open the eapsule of the joint with one stroke, after which there is but little difliculty in dividing the neck of the femur with a narrow saw outside the focus of disease and removing the proximal portion of the head and acetabulum while the edges of the wound are held aside. Occasionally, however, there may be some difficulty in reaching all parts of the affected cavity through this single incision, in which case those operators who employ this method habitually are aecustomed to sphit the trochanter vertically for ahout an inch with a chisel, and then separate the two halves withont disturbing the tendons inserted into them. This method undoubtedly gires much freer access to the neck of the bone, nud indeed to all parts of the joint, and adds but little to the severity of the operation. Subsequently selves in their old trochanter fall together and adjust themBut though this operation has fourd united.
prienced surgeons, and has largely supplavour with many experienced surgeons, incision, it in its turn is likely suphed that by posterior of the method by anterior incision. Ilaving myself employed the latter almost exelusively for the last five or six rears I ain more and more inclined to prefer it to all other modes of excision, and shall now describe it in detail in the hope of inducing others to test its advantages.
The patient lies on his back with the limb as muels extended as possible. A single straiglat iucision is made from a point imme-
diately below the anterior superior spinous process of the ilium, downwards and slightly inwards for three or four inches. (Fig. VIII.). As the kuife sinks into the limb it passes between the tensor vagine femoris and glutei muscles on the outside and the sartorius and rectus on the inside.
The lower inch or so of this cut should only divide the skin; the upper two-thirds should reach the neck of the femur at once. In this way the capsule is laid open vertically, and this opening can be enlarged by a little further dissection with the knife, care being taken. however, that the $Y$ ligament is left as far as possible intact. The state of the joint having been now ascertained with the point of the index-finger a narrow-bladed saw is introduced along the latter and the neck of the femur is divided from above downwards. Then the head is extracted with a sequestrum forceps, and the acetabulum, if diseased, is carefully gouged out clean or scraped thoroughly with sharp spoons. Every trace of diseased synovial tissue discoverable is now remored with scissors,


Fig. IX.-Excision of Hip and Knee. 1. Anterior incision for removing the hip-joint (Hueter's and Parker's method). The incision runs downwards and a little inwards between the tensor vag. fem. (a) and glutei (b) externally and the sartorius (c), and rectus (d) internally. 2. Moreau's U -shaped incision for removing disease of the knee.
knife, and sharp spoon, special care being also taken to clear out any caseating abscesses communicating with the joint. All this should be done with as little violence to the tissues around as possible, so that none of the tubercular debris shall be forced into the fresh cut surfaces. When every portion of diseased tissue has been thoroughly removed, the cavity is freely flushed with our germicide solution until all loose particles bave been washed away. It is then sponged dry from the bottom and is immediately dusted with iodoform, which may be carried further into the ramifications of the cavity on the end of the finger. It is well, I think, after this agaiu to introduce a small sponge for the purpose not only of finally drying the part but also of wiping away any excess of iodoform which may be about. This sponge should be left in until the sutures which close the wound are in position and are ready to be tied. It is then removed and the
threads are knotted, a medium-sized drain-tube being carried down as far as the acetabulum. A thick dressing of salicylic wool, arranged in strips, so that interstices are left into which serum can escape, completes the operation.

At first, J think the patient is much better without a splint of any kind. He simply lies on his back in bed with the limb fully extended by pulley and weight; indeed, the latter may often be dispensed with altogether. The first dressing may usually remain undisturbed for some days, after which it is well to replace the serum-soaked wool by a fresh dressing of the same kind.

Except for the drain opening such wounds heal, in my experience, as a rule by first intention. The fluid, moreover, after the first day or $s 0$, which comes from the drain-tube, is little more than thick odourless serum. It exudes in very small quantity and ought never to become truly purulent. This is the reason why the opening, althongh anterior, is perfectly adequate for the drainage of the cavity left by the operation. I have often been asked, "Do you find this anterior incision gives sufficient drainage for the discharges?" My answer always is, "Certainly, for there are no discharges worth mentioning after the first oozing of blood and serum immediately following operation." Those who ask this question have doubtless in their eye the older experiences of excision of the hip, when the operation was usually undertaken in an advanced stage of the disease, when suppuration had already set in freely with ramifying sinuses. I am not alluding to such cases, believing as J do that experience shows, and especially Mr. Marsh's figures alluded to already, that, beyond aseptic drainage, they are best left to Nature and are unsuitable for excision But in relatively early cases treated carefully as just described we have usually, and ought always to have bealing without suppuration at all properly so called. I could produce a series of cases illustrating this fact from my own practice and from that of my colleague Mir. Bilton Pollard, who operates on exactly the same lines at the Children's Hospital, and J believe other surgeons have found the same thing. It must not be forgotten that when an excision is performed early and all tuberculised tissue is removed, a clean-walled cavity is left, most of which is quite capable of healing by first intention, when its different surfaces are brought into contact by firm pressure. And in these cases, the head of the bone being removed and the acetabulum quite clean, the cut surface of the neck of the femur can be brought close up to the latter, so that although there is potentially a large space in the field of operation, there ought to be actually little or no cavity left if pressure have been properly applied from the first. There is no need then in such cases after the first day or so for extensive drainage, if the wound be kept aseptic. If it is not so, of course the case is totally different, and drainage is absolutely necessary. For my own part 1 intend to try whether some of these early excisions cannot be left to heal absolntely by first intention without any drainage at all, just as in many cases tubes can be dispensed with altogether in analogous cases of operation on the knee.

All that has just been said about the details of operation applies with equal force to that by external incision. But the anterior method has several advantages that cannot be claimed for the latter. In the first place not a single muscle fibre need be divided in the anterior operation and consequently none of the support of the muscles is lost to the joint. Nor are any vessels of importance divided if the deeper part of the incision be not carried too low in the thigh, and the same may be said of the nerves. Finally, the very fact of the wound into the joint being an anterior one enables us to place the patient on a double Thomas's splint a week or so after operation, and to keep him on this without any need to move the limb for as long a time as is desired. He can also now be placed for part of the day either on his face or his side for change, and this is usually very much nppreciated. When supported with such a splint a patient can also be taken out of bed within ten days of the operation and can have all the benefits of the open air and change almost from the first. We are thus enabled to send our hospital patients home or to the country long before the wound is liealed, and without risk, if ordinary care as to antiseptic dressing be observed. In this part of the treatment the iodoform emulsion will be found very valuable. A little of this fluid injected daily into the drain-tube will sink into all the deeper parts of the wound, whether it is filled with blood or serum, or even pus, by virtue of its ligh specific gravity, and will not only prevent or check the growth of pyogenic micrococci, but also arrest the development of any bacilli tuberculosis accidentally scattered through the wound by the
operation. If in the intervals between these injections the hip bo kept well enveloped in alicylic wool there will be but little excision of tho lip it is well to have its rods made to diverge widely 80 that the affected limh shall be strongly abducted during convalescence. When the joint becomes firm in this position the effect is of course to cause tilting downwards of the pelvis on the affected side when the patient begins to walk. The result is that the limb is reatored almost or completely to the amme level as its fellow, and the actual ahortening is compensated for.

Tho absolute rest secured to the hip-joint from the first by the treatment just described does for it what the plaster-of-Paris does for the knee. Not only does it gave the patient from suffering, but it diminishes the hyperemia about the joint, and thus in all probability reduces the risk of a local or general apread of the disease after operation. At the same time the patient can cease to be confined to bed the moment it is applied.
I had hoped, Sir, to be able to consider the application of the principles of treatment we have been discussing to the removal of tubercular disease from the elbow and shoulder joints; time fails me, however. But I trust that in what I have said, however imperfectly, I have justified the remark made in the first of these lectures-namely, that the excision of scrofulous or tuhercular disease from a joint is no longer a mere mechanical problem; that it is no longer a mere question of removing a certain amount of dead or inflamed bone in the readiest manner, and drainage of the resulting wound until it heals. I hope that I have made good the claim of the operator in this field of surgery to be considered, not a mere skilful artificer, but a acientific worker, who brings a knowledge of anatomy, physiology, biology, and chemistry to a glorious task.
I trust, also, that what I have said may appear to others to justify that hopefulncss as regards our future success in the struggle against tubercular disease which 1 feel myself. If the affection is parasitic, as no doubt it is, we may expect to check ita spread in the future in ways never yet attempted, or, indeed, thought of. If the belief is warranted that tuberculosis is not inherited in the vast majority of cases, but acquired, how much more promising the outlook! If the disease be inoculable on any surface of the body, and if it is capable of being reinoculated from one part of an operation wound to another, we may hope to prevent its inroads by very simple precautions never taken before; and, when it has gained access to the body, and is making local ravages, our hopes of arresting them by operation are far greater now than heretofore. For now, relieved of the nightmare of the septic wound diseases, we can undertake operations at an early stage of the affection without fear, and remove all the local mischief without those wide-reaching resections of bone which brought shock and other attendant risks in their train; and we can do so with better prospects as regards the functions of the joint than formerly. The pain of the after-treatment has also been immensely reduced by the possihility with aseptic wounds of permanent dressings, and the patient may consequently be invited to face such an operation with far less fear than of old.
In conclusion, I should like to say that I have purposely abstained from troubling my audience by quoting either my own experiences or observations or the authorities in detail for all the observations alluded to in the course of these lectures. The subject is so large, and its literature so very extensive, that this would have been intolerably wearisome to you. I shall, however, append a list containing some of those sources of information which have appeared to me most reliable, on careful study, and to which reference can be made by those who desire to pursue the subject further.

I hope also before long to be able to collect a sufficiency of reliable statistics of recent experiences in this field of surgery to emphasiae more fully those conclusions I have ventured to put forward, to which you have listened with so much forbearance.
some of the works consulted on questions relating to Schüller, Untersuchungen iiber die Entstehungen und Ursache der scrofphalösen und tuberculösen Gelenkleiden, Stuttgart, 1880; W. Cheyne, Practitioner. 1883: Banmgarten, Centralblatt fiir die Med. Wissenschaften. 1883; Baumgarten, Zeitschrift. f. Klin. Med., Bd. 9 and 10; E. Klebs, Allgem. Pathologie, Theil. 1.. 1887 ; Treves, IIolmes's System of Surgery: Tscherning, Fortsch. d. Med., Bd. 3, p. 65, I885; Lelmann, Deutsch Med.. JVochens., 1856, No. 9-13; Middeldornf, Fortsch. d. Med., 1886, Bd. 4. p. 249 ; Fisenberg, Centrabl.f. Chir., 1887, pp. 52 and 651; Müllcr, Fortsch. $d$.

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Note-A typographical error was overlooked in Lecture I1, page 1253, by which 195 stands for 95 in Willemer's statistics (three lines from bottom of second column). These figures thus corrected show by incision and drainage be infavourable light. But if all cases treated by the mortality only 10 per cent. cluded the total number rises to 123 , mating excluded the percentage of and if the cases treated by primary amputation deaths further falls to 9.0 .

## REMARKS

 PAROXYSMAL SNEEZING.By SYDNEY RINGER, M.D., F.R.S., Holme Professor of Clinical Medicine, University College, London. WILLIAM MURRELL, M.D., F.R.C.P.,

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## Part II

The intimate relation existing between intermittent sneezing and asthma has already been referred to, and we might narrate many cases in which the symptoms of both hare been observed in the same person; but the following brief outline will serve equally well to illustrate the point. A patient for some years suffered from severe intermittent sneezing, which then became complicated with asthma, the asthma steadily increasing in severity, whilst the sneezing grew less and less, till at last it almost ceased. The asthma was of the peptic variety, and unassociated with bronchitis. Bed-dust always induced severe attacks, first of sneezing then of asthma. As bed-dust is insoluble, the part affected must have been either the mucous membrane or the terminations of the nerves, first of the mucous membrane of the nose, next of the lungs, whilst the change in the type of the disease from intermittent sneezing to well-marked peptic asthma favours the theory that the seat of the affection was in the nervous centres.
Our cases show that paroxysmal sneezing is related on one hand to bronchitic and peptic asthma, and on the other to hay fever. They are allied to the bronchitie form of asthma in being excited by dust, cold, and direct irritants, and to bronchitic asthma through those cases which commence with paroxysmal sneezing, and are subsequently complicated with bronchial asthma. To the peptic forms of asthma this paroxysmal sneezing is related through those cases in which the attack is excited by food.

In nearly all these cases, judging from the extent of the itching, a part or even the whole of the nasal passages is affected, and often the eyes, soft palate, and throat are also involved. In some instances, however, we have found that the nervous structures implicated aro much more limited; indeed, the nose may altogether fined to the inner canthus of the eve, whilst in another it involred the whole of an eyeball.

The following series of cases occurring in the course of three generations of the same family serves to demonstrate the hereditary connection existing between intermitteut sneezing and asthma.

The first member of the family, whom we will call the grandfather, was troubled with asthmi for years, in fact, up to the timo
of his death, which occurred at tho age of 80 . Ilis son. whom we will call the father, and who was under our care, suffered from hay-asthma from childhood, his attacks lasting for only about six weeks in the hay season. On going into a hayfield, or, indeed, near one, he is seized immediately with intense itching of the whole of the inside of the nose, and of the entire conjunctiva of both eyes and of the throat, accompanied by violent sneezing and profuse discharge from the eyes and nose. His eyes become bloodshot and the lids swell, often to such an extent that he can scarcely see. His breathing is rery difficult, but there is no expectoration. So intensely susceptible is he that a field a mile off will affect him, and if his children play in the field and then come indoors, he lias an attack. All flowers will at this particular time bring on an attack, but they do not do so at any other season. Strong sunlight will excite an attack, and he usually takes the precaution of wearing big blue spectacles when outdoors. Ilis sister, who is now 24 years of age, has had hay-asthma for about four years. His son, who represents the third generation, is aged 10, and has suffered severely from asthma since a sharp attack of bronchitis which he had when 3 years old. He suffers all the year round almost continuously from severe itching inside the nose, in the eyes, throat, and under the chin. When these symptoms are aggravated he has severe sneezing, with free discharge of a clear fluid from the nose. Any kind of dust aggravates the symptoma, pollen especially. He suffers also from wheezing, and, when the itching and sneezing are aggravated, from violent cough and difficulty of breathing. All these symptoms are influenced by food; thus, the itching and the dyspncea are always made worse by pastry, sweets, and especially by a heary meal taken in the evening or late at night. He has been much worse since an attack of measles three months ago, and now almost any food, even bread and butter, increases both the itching and difficulty of breathing.
In another case, a lady who suffered from bronchial asthma subsequently replaced by hay-fever, had two children, one of whom, the elder, has been subject to asthma and bronchitis since the age of 5 , whilst the younger is a paroxysmal sneezer. We have other cases which illustrate the intimate relation which exists between bronchitic asthma, peptic asthma, paroxysmal sneezing, and hay-fever, these varieties of the same complaint occurring in different members of the same family, either concurrently or in successive generations. In one case a lady who was an asthmatic for many years, had twelve children, all of whom, without exception, suffered from one or other form of this complaint.

The change in the type of a disease in its transmission from parent to child is frequently met with in asthmatics. For example, an asthmatic parent who suffers from peptic or bronchitic asthma may have children, one of whom has hay-fever, another intermittent sneezing, apparently independent of pollen, and a third who is the subject of simple peptic asthma. The influence of hereditary transmission is well illustrated by the following case.

A lady, aged about 60, suffers from sneezing, but only in the morning before breakfast. She is unable to assign any exciting cause for the attacks. Food, stimulants, dust, flowers, hay and smoke do not affect her. Damp places and damp weather farour the occurrence of the attacks, but will not excite them. Change of air gives relief for about a fortnight, but then loses its effect. Any change is temporarily beneficial, and it makes no difference where she goes. In former years she was always worse just before and during a period. She has intense itching in the right nostril under the bridge of the nose, and where the nasal bones join the cartilages. The itching extends to the right eye and the lower lid. During the attack the sneezing is rery violent, so that it exhausts her and strains her muscles. There is a profuse watery discharge from both eyes and from the nose during the attacks. When she catches a real cold, it runs its usual course, and the other symptoms cease. She has one son, who is a violent paroxysmal sneezer, another who is a hay-asthmatic, and a third who is a morning sneezer. This case also illustrates the influence of unilateral stimulation in inducing bilateral secretion.

A certain vague hereditary relationship can sometimes be traced between paroxysmal sneezing, asthma, migraine, and some forms of liysteria. For example, we had under treatment a young lady, aged 20 , who for many months persistently refused food, taking nourishment in the smallest possible quantity compatible with the maintenance of life. She lived in the country, and until she was nearly 19, was a hearty, well nourished woman, re-
nowned over the whole country side for her beauty and buoyancy of spirits. She was fond of riding, walking, tennis, and all outdoor sports, and was always the life of the party. Suddenly and without any assignable reason, and without the existence of organic disease as far as could be ascertained, she changed her habits, and spent the whole day moping about the house, taking no interest in anything. Her tastes were peculiar. She disliked peas and strawberries, ices, and many other articles of diet usually affected by ladies, and preferred castor oil to champagne. Her favourite dishes were slate-pencil, cinders, and sealing-wax. She rapidly lost weight, and when she came under our care turned the scale at very little over six stone. She speedily improved under massage, but it was no easy matter to get her to take a good meal. Her family history was peculiar. Ifer father auffered severely from neuralgia, and his mother was for years afflicted with migraine. The father's brother was a paroxysmal sneezer, whilst one of his daughters, until she married, had a great dialike for food of all kinds, and lived chiefly on sweets. Her brother, a young fellow of 30 , rarely or never eats meat. The patient's only aister is fastidious in her dietary, and suffers severely from asthma, but whether peptic or bronchitic we were unable to learn.
Sometimes both in asthma and bronchitis we meet with cases where irritation of some distant spot far remosed from the chest or seat of pain will induce an attack. In a case recorded by Anstie it is stated that irritation of a small spot at the back of the head, over the occipital nerve, would immediately induce an attack of supraorhital neuralgia, whilst in another instance the application of cold to one instep invariably induced a paroxysm of dyspncea. A clergyman assured us that he could at any time induce an attack of paroxysmal sneezing, lasting ten minutes, and accompanied by profuse running from the nose, by rubbing his tongue against the roof of the mouth, close to the teeth. He cannot discover that anything else brings on an attack, and he is quite unaffected by pollen or dust of any kind.
It is generally recognised that when attacks of sneezing and asthma both affect a patient, they do not, as a rule, occur at the same time; one form replacing the otber; in fact, local applications which arrest the sneezing sometimes induce an attack of dyspncea. It often happens that as the asthmatic paroxysms become more frequent and more prolonged, the attacks of sneezing temporarily cease.
In children sneezing is easily proroked, and their occurring frequently without assignable cause is not infrequently the first indication of an asthmatic tendency-a fact not generally recognised. Sometimes, however, both in children and adults asthma precedes the attacks of paroxysmal sneezing. The influence of locality in exciting or warding off attacks of asthma is wel known, and this applies equally to cases of sneezing. A patient who was under our care for hay-asthma was severely affected in his native county Sussex, but was quite free from his complaint, even when the grass was in full bloom, in Devonshire, at Windermere, and in Scotland. Another patient, a lady who, when at Hampstead, suffers from fits of sneezing alternating with attacks Hastinma, is perfectly free from both at Brighton, Eastbourne, Hastings, Bournemouth, and other seaside resorts. This immunity whether there be a the dion of the wind, for she is quite unaffected expression, the pla sea-breeze or a land-breeze. To use her own both.

Not uncommonly as the patient grows older, or as the bronchial attacks decrease in frequency and severity, they are replaced by sneezing or peptic asthma. Sometimes, too, as the attack of bronchitis or bronchial asthma subsides, it is followed by an attack of paroxysmal sneezing lasting for some days, with but slight intermission. This was observed in the case of a lady who uniformly had three or four bad attacks of bronchitis every year, each being followed by a week's sneezing.
We know that asthma, like many other neuroses, is greatly influenced through the emotional centres, that a sudden fright will sometimes at once cut short an attack of asthma, or may, on the other hand, induce a paroxysm. Salter relates the case of an asthmatic who was at once $r$ lieved of a severe attack by the occurrence of a fire in the opposite house. At the time the alarm was given he was in bed, breathing with the greatest difficulty, and unable to move. When the excitement was at its height he
was secn, to the astonishm winsecn, to the astonishment of his friends, standing at the open This is in his night-shirt, cheering the efforts of the firemen. This is equally true of paroyssmal eneezing, and it is a common
mode of treatment in a large number of cases, and with uniform success.

As an cxample of the rapidity with which cocainc acts in cutting short lay fever and paroxysmal sneezing, we may menticn that at a public dinner last summer we sat next to an American gentleman, well known on both sides of the Atlantic, whose misfortune it was to hare to deliver the speecly of the evening. The table was covered with flowers, and our friend, who was a hayasthmatic, soon commenced sneezing, and rapidly exhausted the resources not only of his pocket-lnandkerchief, but of the spare table napkins no orator It suddenly, and certainly for the mad a tube of cocaine tabloids in our waistcca pocket. We offered them to him, and, instantly recognising their usc, he plunged them up his nostrils. Almost immediately relief was obtained, and a few minutes later he was on his legs, speaking with that fluent ease and distinctness for which he is justly renownfd.

We bare prescribed these cocaine tabloids for many actors and reciters who have been subject to sneezing, and they have rarely other gelatine preparations ofect. Te pretcr them to bougies and topically applied, arrested the sneezing and irritability of the nose, but induced an attack of astbma. Iungent inhalations of all kinds are useful cutting short the

Pungent inhalations of all kinds are usefur by substituting for attacks of sneezing, and appather and an artificial form which is powerless to excite the paroxysm. Strong ammonia, carbolic acid, camphor, and iodine may all be employed for the purpose. The pungent smelling salts sold in the shops often answer admirably, but the palm, we think, must be given to iodinc. We usually order it in the form of the liniment, instructing the patient to carry a small bottle in his pocket, taking care, of course, that it does not escape, and to take a sniff or two on the onset of the symptoms. We have notes of many cases in which this simple method of treatment hascalyptine are useful to inhale, cious. Pure terebene, pinol, and eucalyptine are useful chloroform and are preferred by some patients. A placed in the palm of the band and inbaled during the at we have sometimes cut it short. found inhalations of creasote user. drops in a pint of hot water, the steam of camphor, a saturated minutes. A popular remed, is an solntion in alcohol, two or three drops being take useful.
ten minutes. Inlalations of camphor are also useful. ases we have known it fail. During the hay-astbma scason, from about the middle of May to the end of July, the sufferer should regularly smoke a good cigar as a preventive the last thing on going to bed, or, better still, when he is in bed. The sedative influence of the cigar will often ensure a good night's rest, but the powerful depressing action of strong tobacco may be necessary to cit short the paroxysm when once established. Sone patients prefer the Indian tobacco, lobelia inflata, to the ordinary cigar or pipe. Nitre papers burnt in the bedroom may prove usaful, but those commonly prepared are too weak nesses of hion We employ a nitre paper consisting of six thicknesses of hottine paper steeped in a saturated solution of hould be sprinkled with chlorate of potassium. When dry it should be sprinded tincture of essence of camphor, compound tincturenium, and birnt on a tin sumbul, or some preparatien of stramomod nowder is so cene plate at the bedside. The efticacy of it like its congeners, rally recognised as to call for no commen their numerous imitators, probably contaius nitre, lobelia, and stramonium. Coffee is not uncommonly employed to cut short attacks of hay-fever, but to be of use it must be black and strong, and should be taken quite at the onset of the parorysm. It is so valuable a remedr that the hay-asthmatic shonld neser drink it as a beverage, but should reserve it strictly as a medicine. We often prescribe the effervescing citrate of caffeinc with advantage

A nasal doucle or spray of sulphate of quinine is said to be useful in hay-fever, but in our hands it has not yieldcd good results in the treatment of paroxysmal smeezing. llazeline, an aqueous distillate prepared from the fresh bark of hamamelis virginica is a capital remedy both for hay-fever due to pollen and simple sneezing. When sumfted up the nostrinim azos three tacks, and when taken internally in trency of the mucons membranes of the nose aud respiratory tracts.

Foremost in our second category of remedies, that is to say, those which modify the condition of the mucous membranes, and prevent the occurrence of the attacks, we place the iodides. It matters littla, we think, whether the potassium, sodium, or ammonimm salt be given. We prescribe it either alone in water or in a mixture havoured with syrup of Firgiuian prune. The inlialation of iodine is indicated when there is itching of the nose or of the inner canthus of one or both eyes, sueezing, running at the nose of a clear watery fluid, weeping of the eyes, and severe frontal headache. Our plau is to warm a jug holding about a quart by rinsing it out with boiling water, theu partly to fill with ho: water, and add from trienty to thirty drops of tincture of iodine. The patient is directed to put his mouth over the jug and inhale the iolised steam, his head and the jug being covered with a large towel. This nethod will be found in many cases to be very successful.
One of our patients, in whom iodide of potassium and the other codides produced a rery disagreeable prickly seusation in the throat, experienced the same phenomenon after a trial of a preparation called "spirone," aud he was convinced that it contained iodine in some form. Mr. Martindale was good enough to analyse it for us in his laboratory, and found that it consisted essentially of a mixture of iodide of potassium and acetone. It was then submitted to Dr. Paul of the Pharmaceutical Society, who reports as follows:

It has a specific gravity of 1029 . Nearly half its volume consists of acetoue with a little water. It yields, on evaporation, about $2 f$ per cent. of glycerine, and about 2 per cent. of saline residue, which, when incinerated, is found to cousist of 1.7 per ceut. of iodide of potassium."

It is a somewhat curious coincidence that for some years we have employed with advantage a 2 per cent. aqueous solution of iodide of potassium in the treatment not only of sneezing but of chronic bronchitis and asthma. Our attention was directed to this remedy when making a series of experiments on the value of the ipecacuanha-wine spray in winter cough. We know that iodide of ethyl is useful in asthma, and it is probable that its beneficial effects are due to the iodine which it contains.

Arsenic is useful in many forms of paroxysmal sneezing, but we have found it of little or no value in true hay-fever, where the attacks are excited by pollen. It is indicated when the patient is weized sereral times a day, usually in the morning soon after rising, with profuse running from the eyes and nose, accompanied by frontal leadache. The attacks are excited by exposure to cold, by dust, and other causes, and are usually accompanied, or perhaps preceded, by itchiag at a small spot situated inside one or both nostrils, not far from the orifice. This complaint, unless actively treated, often persists for years. Arsenic is also useful when the attack is excited by food, and lasts for half an hour or so after the chief meal of the day. In children who after a severe attack of bronchitis catch cold on the slightest provocation, the same method of treatment may be employed, especially when there is much wheezing and embarrassment of breathing. Coryza sometimes precedes the dyspnoea for three or four days, the whole attack lasting a week or more. Sometimes we meet with cases where the patient suffers from asthma for several years, and is then seized with severe attacks of sneezing.

In many cases of sneezing the excitable or susceptible condition of the mucons membrane of the nose is due to the presence of a polypus, or some other similar morbid condition, and then operative procedures afford the best chance of relief. When there is much hypertrophied tissue the electrical cautery, after the application of a strong solution of cocaine or antipyrin as a local aniosthetic, is recommended.

When the attacks are attended with itching or irritation of some particular spot or region, the local application of aconite liniment or aconitia ointment may at once give relief. A lady, aged 22, who was under our care, suffered persistently for some years from sneezing. The fits occurred in the morning, lasted several hours, and were accompanied by considerable pain over the forelnead. The sneezing was of ten so violent as to exhaust her for the greater part of the day. She complained of intense itching, both of the insile and outside of the nose, and also of part of the face, the itcling lasting during the whole of the paroxysm of sneezing. Jier health had given way, and she was pale and thin. The free application of aconite liniment to the outside of the nose and part of the face, which was the seat of the itching, immediately gave relief, curing both the itching and the sneezing. The rttacks of sneezing returned once or twice in a mitigated form,
but a fortnight's persistence in the treatment effected a complete cure.

## ABSTRACT OF THE CROONIAN LECTURES

## ANTIPYRETICS.

Delivered before the Royal College of Physicians, June, 1888.
By DONALD MAC ALISTER, H.A., M.D., F.R.C.P., Fellow and Lecturer of St. John's College, Cambridge.

## Lecture 1

THE lecture began by explaining that the lectures he proposed to deliver were complementary to the Goulstomian Lectures of last year. In these the treatment of ferer had been intentionally passed over. But treatment could not long be absent from the thoughts of a physician, however theoretical the bent of his mind; and when rery unexpectedly he was offered another opportunity of addressing the College as Croonian Lecturer, he bad proposed, and the President and Censors had approved the choice, to deal with the practical bearing of the theory of fever. The regulations under the new scheme prescribed "lectures on one or more subjects in anatomy, physiology, and pathology, with a view to the prevention, control, and cure of diseases." "Though the subject of the lectures was for brevity given as "Antipyretics," he did not propose to limit himself to the drugs so called or their pharmacology. He would discuss rather (I) the light thrown on the nature of fever by the means employed successfully for its treatment, and (2) the lessons in the treatment of ferer which flow from a right understanding of its natnre.
The outlines of the theory presented last year were recalled. The nervons mechanisms of heat-loss or thermolysis, of heat-production or thermogenesis, of heat-balance or thermotaxis, constituted the thermal nervous system, and these mechanisms were in ascending order of complexity and of evolution. Fever was a dissolution beginning with thermotaxis and extending to the inhibitory mechanism of thermogenesis. Hyperpyrexia was a still deeper dissolution, and extended to thermolysis. Much still remained to render complete our knowledge of the anatomy and physiology of these several mechanisms, but contributions were constantly being made and obscurities cleared away. As he was anxious to strengthen in their minds the conviction of the objective reality of the thermal system, he wonld first call attention to certain recently-acquired anatomical and physiological facts which had not yet received sufficient notice.

First, as to the physiology of thermolysis.
The Harfeian Orator, Dr. Stone, had pressed on the College the importance of physical investigations in medicine, and regretted that they wers at present less regarded than researches in histology or bacteriology. A series of raluable experiments, involving high skill in physics and in mathematics, and therefore perhaps overlooked, had been made on the radiating power of the skin, by Dr. Masje, under Professor Eichhorst. of Zürich. Probably, sixty per cent. of the heat leaving the body did so by radiation. But the laws of this loss had not been inquired into, or had been assumed to be governed by physical analogies. At the Zürich Hospital, by the aid of an instrument of great delicacy and precision, on the principle of Langley's holometer, the true laws of skin-radiation had been worked out, and had proved to be strikingly suggestive.

A hot body radiates less as its temperature falls. This was the physical law, but not the physiological. A part of the skin suddenly uncovered naturally became cooler, but its radiation increased steadily as the temperature fell, until a certain limit was reached. Radiation was more intense in men than in women, in boys than in girls, in young persons than in old, in the vigorously healthy than in the feehle or convalescent. In other words, radiation was more active as the processes of nutrition and metabolism were more active.

Reasons were given for believing that the radiating power of the skin, which would be shown to depend on its physical and chemical constitution, was subject to nervous control; and thus, what was apparently the most purely physical of all the thermolytic processes was not outside the domain of the thermal nervous system. In discussing the value of an antipyretic method, in ex-

Now, in what ways may a fibroid or fibroids modify the course of pregnancy, labour, and the puerperium?

1. During pregnancy their presence may induce a premature termination, for a tumour in the nterine wall materially interferes with the regular development of that organ.
?. They may set up localised peritonitis, which will produce adbesions with various organs-that is, intestines, liver, and rectum. In addition, they are the cause of such intenee pain and distension as to necessitate operative interference during an early period of the pregnancy.
2. A tumour may meclanically obstruct the paseage of the fot us through the pelvic canal, and may thus even nccasion rosort to Cesarean eection or the Porro-Casarean operation.
3. Frequency of fuetal malposition is very common, and is a noteworthy fact as leading to increased infant mortality.
4. After birth of the child the flacenta may be found adherent to the tumour, rendering manual delivery necpasary, and consequent bruising of its substance. Placenta privia is certainly more frequently found as a concomitant of fibroids.
5. Uterine contraction after expulsion of the placenta may be more or less inefficient, owing to the presence of the tumour, and hamorrhage may result. Involution is also mucls delayed.
6. Morbid softening and disintcgration may take jlace either before or after labour, leading to peritonitis and its concomitant evils. Torsion of the pedicle and subsequent gangrene of the tumour have been noted.

It will be found conrenient, for the purposes of description, to divile the uterus into three divisions:

1. The superior or upper segment.
2. The inferior segment.
3. The cervix.

As a rule, fibroids of large size, or maltiple in character, arising in the superior segment gire trouble during pregnancy, while their presence in the two latter situations asually only becomes noticed from the pressure symptoms they may produce. or at labeur, when they form a more or less serinus obstacle to delirery. Althongh Te can with some propriety call these latter "dangerous maternal and fotal life
The line of demarcation between the upper and lower segmenta it is impossible to define clearly, for it must be remembered that a fibroid, which during the earlier months is ligh up, may descend as pregnancy ad rances, and not seldom it is fonnd that true interstitial fibroids split the uterine tissue in their descent, and penetrate into the thickness of the anterior or posterior lip of the cervix. Noreorer, peduncnlated subserous fibroids, by lengthening or stretching of their pedicles, may descend into the true pelris, form adhesions with adjacent organs, and practically act as if arising from the inferior segment or the cervix.
On the other hand, there is undouhted evilence to show that a fibroid in the inferior segment (provided it has not any cervical connections) may gradually ascend during pregnuncy, probably from the contraction of the longitulinal uterine mascular fibres. while the phenomenon becomes most marked (in some fortunate cases) during labour, where, as the os uteri dilates, so the apparently irresistible obstacle gradually asceuds, and the fotal presentation takes its place. Fibromyomata arising in the anterior or posterior cervical lip are, if they attain any size, most seriou* impediments to delivery. The difficulty is, however, to make an absolutely certain diagnosis that they are not pedunculated subserous fibroids which hare descended. The surrounding parts
are much distended and displaced, thus renderins a most important and vital point in the question of treatment in the degrec uncertain. Unlike pelvic bonv narrowing, it is dinicult to fix with any precision the size of a fibrous body which can be called an obstruction to labour; in fact, it is entirely arbitrary. Fibroids in the posterior wall are much more likely to lead to obstruction than those in the anterior, owing to the powerful retraction which takes place in this latter situation.

Altheugh fibroids underge a peculiar softening, so that during labour they can be flattened out somewhat, still it is far from a condition that ean be depended upon as likely to oceur. and should it do so, the effects of the bruising may be disastrous in the extreme. As a consequeuce, no definite rulea can be laid down, and cacli case must be, to a great extent. treated on its own merits.
The thesis by lefour ${ }^{\text {t }}$ supplies ini cases as occurring up to 1879-80, but $i$ of these ! found hat to be put asile from insuficient details, thus leaving 300 . These include those mentioned $\frac{\text { cient details, thus leaver Paris. lisu. With Bibliography. }}{\text { I Des Fibromes } \text { (lerins. Paris. }}$

Tres subject under consideration is of such vital importance to the obstetrician that there is ample reason for an inquiry into the present means at our disposal to cope with what is too often a formidable complication of childbirth. I have as far as possible examined all pamphlets and papers written on it during the past ten years, and have endeavoured to compare the treatment suggested or arlopted, and the results obtained, with those of past Jears.

Table 1.-Porro-Casarean Operations.


* Foctus dead, or clead and putrid hefore operation.
liy P'uchelt, Susserott, Nauss, Dubar, and Chahbazian, and may be cinsidered as a fairly comprehensive review of the subject up to the time stated. Since then I have collected 50 cases where some ditliculty occurred during various periods of pregnancy and lahour, but where the treatment by abdominal section was not ropuired, and 47 cases in which one or other of the varieties of alulominal section was performed. These I have tabulated under mparate heads.
(a) Treatment During the Early Months of Pregnancy, that is, before the Fotus is Iiable.-Under this heading are included assumption of genu-pectoral position, enucleation per raginam, induction of artificial abortion, and reposition of the tumour under an anæsthetic. These methods are well known, but I cannot pass them by without giving a word of warning before they are resorted to.
Artificial abortion was produced purposely 3 times, and once

Table II.-Cases of Milller's Ablation,
(i.e., Abdominal Section uith removal of Tumour and Uterus containing Non-viable Fictus.)


## Tamle 11.-(Continued.)

| \% | Author and lieference. | Parity: | Tumour. |  | Operation and Treatment of Pedicle. | Result. | Reason for Interference. | Remarhs, Condition at Time of Uperation, de. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 4t | Abrlominal section. At. | 12 | Pressure symptoms. As- | At first pregnancy tirmour |
|  |  | $11 . \mathrm{p}$ | mentous on left side. Weight 40 lls | mths. | tempted enucleation. severe hæmorrhage. 12astic ligature. Miiller's ablation; peritoneun! sewn over stump and dropped into cavity. Two drain tubes | D | cites, which was tapped: wound continued discharging | necessitated potalic version. Phlegnasia dolens in left leg slightly 30th day. Conditiou favourable. |
| 17 | Merilith; (private com-3s muni(ation) | I-p. | Tumnur size of infilt head. with thin pedicls attached to riglt uterine cornu | $\stackrel{2}{m i h s}$ | Tumour ligatured and removed. Then Muller's ablation. Stump in lower angle of wound with serre-ncud. Jodine to surface | $\stackrel{\text { nth day }}{ }$ | Increasing paio and rapid emariation cause of abdominal section | Ablation for fear ligature should give way, if miscarriage ocearred. Pregnancy not diagnosed before operation. Stump of niterus healthy. Post mortem. Death from double pulmonary congestion. |
| 18 | " $\quad$ ir | $\mathrm{II} \cdot \mathrm{p} .$ | Interstitial fibromyorma size of adult head, right side of uteras and lower sermeat. Twin pregnancy, and lydramnios | moths. | Whole mass constricted before uterus was opened. Serre-nœud extraperitoneal treatment of stump | $\frac{\mathrm{D}}{3 \mathrm{~d} d a y}$ | Severe abdominal pain with rapid increase in size | Uterine cavity contained six pints of hydramniotic: fluid. Death from septicxmia. Delivery wouli have been impossible at. t.erm. Condition favourable. |
| 19 | Welmer: \%eitschrift fur 32 Geburt. u. Gynäk., 15sĩ. Bil, xiv, 1). 116 | I-p. | Sessile and interstitial at cervico - corporeal junction | $\frac{5}{5}$ | Serre-naud, stump in lower angle of wound. Surface treated with $\mathrm{ZnCl}_{2}$ | $\mathbf{n}$ | Pressure symptoms urgent | Placenta inserted upon site of tumpur. Abscess in abdominal wall delayed recovery. Condition favourable. |

only by mistake in the 59 cases 1 have detailed, and all 4 recovered ; but on referring to Table 11, Case 10 (Etheridge), it will be seeu that an unusual complication occurred which is worthy of note, namely, elongation of the cervical canal to five inches and a half; this was produced by the fibroid in the anterior wall. Abortion was attempted and was thought to have succeeded, but the subsequent operation showed that the three months' orum was quite intact. The dangers of the other operations I shall allude to later.
Two other methods I must enter into in detail, as they are comparatively recent improvements in these cases; I allude to "myomotomy" and "Miller's ablation" (Table 11).
By " myomotomy," is meant abdominal section and removal of one or more fibroids by ligature and closure of the incision, in the hope that pregnaney may go on to term. 1t is manifestly only permissible:-1. When the fibroid is attached in an accessible situation. 2. When its presence is causing either intolerable pain or discomfort from distensiou.

Mr. Knowsley Thornton first performed it in $189^{3}$, but labour supervened, constant sickness and death followed, from intestiual obstruction; this also occurred in a case of Porro-Cessarean operation ly Klotz (Table 1, No. 11), which he removed by secondary abdominal section. Landau ${ }^{\text {s }}$ and Schrüder ${ }^{3}$ have published details of successful cases, labour occurring at term, while 11 artin's ${ }^{6}$ and Krukenberg's ${ }^{\top}$ both terminated fatally, in consequence of the occurrence of ahortion. So that we have as a result five cases with a favourable result in two, and a mortality of 60 per cent., almost 10 per cent. less than the statistics of Cuesarean and PorroCrsarean operations show.

I must now call your attention to Table 11. Niiller's ablation must not be confused with the Porro-Ciesarean operation, as is almost always the case. The latter is utero-ovarian amputation, as completive of the Ciesarean section, while the former may be defined as "abdominal section with removal of the tumour and the uterus containing the non-viable foetus." There is no question here of the life of the child, the maternal conditions being so grave as to preclude the pregnancy going to term.
The total number of cases on record is 19 , with 7 deaths, or a mortality of 36.8 per cent. The reasons for the performance of such an operation are naturally of the greatest importance; fortunately 1 have been enabled to obtain them in every instance, and they are given in the last column but one in Table Il. It

[^87]will be seen that the operation was performed for removal of a dead foetus twice, in one after a labour of five days (vii, xir). Yiolent pain is mentioned as occurring in ci cases, rapid increase in the size of the tumour in 10 was noticed, emaciation in 4 , wbile pressure symptoms demanded interference in 5 cases. In Case iii severe ante partum hemorrhage was the preponderating cause. Besides the above, in 4 cases other conditions were found during the operation, which not only showed its justifiability, but its absolute necessity for the saving of the mother's life. There was uterine strangulation with recent peritonitis in Case $i$; softening centres were found in the fibroids in Cases iii and xi, while in Case v, the right Fallopian tube and ovary were almost black from compression.
of the 19 cases, 13 were treated by the extraperitoneal method, with 9 recoveries, and 6 by the intraperitoneal method with : recoveries. Into the relative value of the two proceedings 1 do not here desire to enter.

It will be seen that in all the cases given, the likelihood of the patient going to term was untenable, and the question arose, what was the best mode of treatment to be adopted. All those already given would hare been useless or indeed impossible, excepting provocation of abortion, and the course to be adopted wonld therefore have heen this with its accompanying dangers and chance of repetition, or the unsexing of the patient, removal of a useless and dangerous complication and leaving no chance (in the event of recovery taking place) of further impregnation. No one who looks at the two figures in Hofmeier's work (Myomotomir) will doubt for an instant the wisdom of the step he took, and he is to be congratulated on the brilliant results lie obtained. The mortality is nearly half that obtained in the Porro-Cesarean and improved Cxsarean operations during the past nine years; hut, on the other hand, there is the counter-balance of saving of foetal life which must not be neglected. With the scanty records we have, 1 think it would be most unwise to lay down any rules concerning this operation; every case must be judged by itself, and it seems to be one which should not he undertaken without consultation.
( $\beta$ ) Treatment of Fibromyomata during. Fotal Tiahility, including Labour.-The question of the saving of the child's life will naturally somewhet modify the line of treatment. Labour was induced 6 times in Lefour's 300 cases, with the result of 1 maternal death and in the birth of 1 living ehild. Among the 59 collected cases this operation has been performed 3 times, with the cliscouraging result of 2 maternal deaths, and the survival of 1 child only. Two of them occurred in my own practice, both, unfortunately, ending fatally. The first is already described and figured in the Obstetrical Transactions for 1886, vol. xxviii, p. 138

1 saw her in consultation with her medical attendant in consequence of acutr pain, rapid pulse, with a teonperature of 101.4 F ., with a dry brown tonguc, and a purplish discoloration of the abdomen. The multiple tibroids were complicated by twins. This condition appears to add additional gravity to the case, for out of 7 cases 1 have met with no less than 5 were fatal. The second was unfortunately also fatal. I was asked to see her with regard to the question of interference at the seventh month, or the possibility of abdominal section at term. The obstacle to delivery was a lidney-shaped tumour at the junction of the cervix and lower uterine segment, and occupying nearly two-thirels of the pelvic inlet. There were, in addition, two large fundal abdominal tumours, which would have been serious complications in the Ciesarean section. Knowing the importance of handling tumours of this kind as little as possible, I attempted induction hy the snbcutaneous injection of pilocarpine four times, which, although productive of full constitutional effect, nevertheless failed to produce any labour pains. A bougie was passed, labour followed, and was very lingering in character. Death occurred on the eighth day from peritonitis, commencing over the larger nblominal tumour. My own experience, then, decidedly opposes this methoul, even when the alternative be the dreaded Ciesarean or Porro-Cæsartan section. By forcible reposition is meant the pushing up of the cumour during labour, and thas permitting the presenting part to occupy the inlet of the pelvis and delivery effected.
Dr. llayfair has strongly adrocated this plan of treatment in two papers rem hefore the Obstetrical Society. ${ }^{3}$ In three cases related by him the fibroid tumours occupied such a position in the pelvis, that had it not been possible to get them out of the way, the Ciesarean section would have been ineritable. In all three upsard pressure succeeded in dislodging them, so that delivery was effected per rias naturales, twice by turning and once by the lorceps. He concludes with these words: "These cases teach ns the hopefulness of such a procedure, and the adrisability of making a strong and persistent effort at reposition, in which an amount of force may be necessary which rrould be quite unjustitiable were there any less terrible alternative to be selected than the Cresarean section." In opposition to these conclusions 1 have lint few remarks to make.

Take for instance the case related by Knowsley Thornton already alluded to. After abdominal incision the tumour was lorcel up from the yelvis, and such furious bleeding occurred that for a moment the safety of the iliac ressels was feared. What a calamity would have been produced if this line of treatment had been adopted; uncontrollable hemorrhage would have taken place within the abdomen, and the patient have died probably in a few minutes.

Again, take the case which I had the opportunity of seeing with Dr. I1. Handfield-Jone's (Table 1, No. 8); there it was attempted with the greatest persistence but without success, and the postmortem examination showed the tumour to be much bruised, and perhaps partly the canse of death. 1 think that with two eases like the above, forcible rejosition should not be undertaken without considerable forethought, and should certainly not be too long continued.

In the Transactions of the American Cynacological Society for 1884, Dr. Aundé relates a very brilliant result from removal of an enormous cervical fibroid per vaginam during labour. Braxton llicks ${ }^{9}$ and Lomer ${ }^{10}$ also have performed this operation successfully. It is, however, only possible when the tumour is connected with some portion of the cerrix, and there is considerable difticulty in leing absolutely certain that this is the case, as the parts are always distorted anil much swollen. Doubtless in suitable cases it is inlinitely safer and preferable to the dreadecl alternative Cesarean seetion : while, on the other hand, the great liability to septic infection and the likelihood of the attempt failing must be borne in mind.
A case requiring the Cesarean section recently came under my notice, and details are fully given elsewhere (Lancet, 1888, vol. i. p. 919). The fibroid was firmly impacted in the pelvis, and the uterine body infiltrated with several smaller ones. Interference was necessary from serious pressure symptoms. The PorroCusarean operation was imposible, and it appears to have been a ease with which the resources we have at our disposal at present are unable to cope.

[^88]1 have been able to collect twelve other cases as having occurred during the past eight years, and I have tabulatrd the results below. They have heen selected from the papers by Baker." slavianski, ${ }^{12}$ Stinger. ${ }^{13}$ and l'arish. ${ }^{24}$
Lp, to the enl of lune, 187 t, when Spath oprated, every Cosarean case for a humlred years had yroved fatal in the Viennese Lying-in llospital, and from 168 to 189 a similar result occurred in the l'aris Maternite; nor were the results in England much better, as shown in Radforl's ${ }^{16}$ laborious and accurate tables on the subject.

In Table I are collected all the cases of Porro-Cesarean operation for this complication which have occurred since the introduction of the operation. They are, curiously enough, inlentical in number with those of Cesarean section for the past eight years, and, what is more remarkable still, the maternal mortality is the If we compare the dangers of the Porro-Cæsarean operation and Ciesarean section, we tind six chief ones noticeable as the cause of death in the latter: (1) peritonitis, (2) metritis, (3) hemorrhage, (t) septicrmia, (5) shock, and (6) intestinal ohstruction oceasionally; while in the former we have only peritonitis, septicamia. shock, and intestinal obstruction. In addition to the elimination of metritis and hæmorrhage as dangers in the I'orro-Cesarean nperation, the risk of septiciemia is much less. Moreover, the danger of peritonitis is much reduced also: for depending as it does in a great measure on the presence of irritating fluid in the peritoneal cavity, it is less likely to result where the nterus is removed than where, with often a gaping wound. it is left behind. These facts point to the necessity where possible of performing the Porro-Ciesarean section for preference; but somptimes, as in the case already alluded to, the formation of a pedicle may be a matter of impossibility.


On referring to Table 1 it will be seen that in 10 cases the extraperitoneal method of treatment of the stump was adopted. once frecoveries; while in 3 the intraperitoneal was used. once from necessity (Case iii), and twice from choice, with
one recovery only (xiii). In all the one recovery only (xiii). In all the cases I have as far as possible
taken note of the condition of the patient at the time of tion, and more especially as to whether there had been prexions obstetrical interference or not; in other words, whether the operation was selective or completive. In only 3 cases (Spencer Wells, Klotz, and Schrüder) was the condition of the woman favourable; $\because$ of these recorered, and the third committed suicide while doing well after secondary laparotomy for intestinal olstruction. By Miiller-Rein modification is meant the eventration of the whole mass before incision into the uterus. As far as my tables show, no increase of fotal mortality was the result of the procedure. In the romaining 10 cases the woman's condition was more or less unfavonralule, the patient being much exhausted by prolonged labour or repeated but futile attempts at delivery by ragina. I think nothing shows more deeidedly the
value of this operation being perform value of this operation being performed as a selective one. From the tables given it will be seen how extremely high the mortality any interference.

[^89]On reviewing Lefour's cases we find that, of 66 which terminated unassisted, 32 ented fatally, or a mortality of 48.4 per cent. Of 25 cases of version, 21 diel, or 60 per cent.; while the percentage mortality attached to forceps and embryotomy is 25.9 and fins respectively: Fotal mortality is also particularly high, being 77.7 per cent. in rersion. These figures amply prove the fact that fibromyomata are a most dangerous complication of pregnancy and labour, whether operative treatment be aulopted or not.

I have lwelt somewhat at length upon myomotomy, Cesarean section, the l'orro-C'esarean operation, and iliiller's ablation, because they are, comparatively speaking, modern improvements, and it is in the perfection of them, I think, that our great prospect lies of reducing the lideous mortality which I have shown exists in cases where they are rendered necessary.
firratum. - In Mr. Hurry Fenwick's paper on "The Value of Inspecting the Orifices of the Ureters by Electric Light, etc.," in the second sentence of the first paragraph (line 5), for "it " read " nethod."

## TOXICOLOGICAL MEMORANDA.

## ATTEMPTED SLICIDE BT SWALLOWING CARBOLIC ACID:

 RECOVERY.E. W.. female, aged 20 , on the morning of May 12th, 1888, purchased a ten-ounce bottle of carbolic acid from a neighbouring chem st, and drank three ounces of it. Three-quarters of an hour after she had taken it I found her lying on the floor in great agoay. Not having my stomach-pump with me, l gave her a hypodermic injection of one-tenth of a grain of apomorphine, and adm nistered olive oil and lime water freely. This was followed almest immerliately by copious romiting. At the expiration of half an hour 1 gave another injection of one-twentieth of a grain of apomorphine, and continued to give small quantities of lime water. Shortly after she became insensible, and remained in a comatose state for eight hours. When consciousness returned l had her removed to hospital, from which she was discharged on May 19th.
R. II. A. Ifunter, M.R.C.S., ete.

Clifton IIouse, Eattersea Park, S.W.

## CLINICAL MEMORANDA.

## A CASE OF PERNICIOUS ANEEMIA TREATED BY REI'EATED TRANSFUSION.

G. [', aged 58 , came under care on July 23 rd, suffering from intense anmmia; lie was very thin, with an anxious careworn expression. The skin was uniformly of a tawny colour, without any intensification in any locality, the mucous membranes were free from ligmentation, the sclera was pearly white, the ears thin, pointed, white, almost transparent. There was no splenic, hepatic, or glandular enlargement; no pulmonary disease. A hemic murmur was marked over the aortic and pulmonary orifices; the cardiac impulse was very feeble; there was no anasarca or chubbing of fingers or toes. Urine, specific gravity, 1010; no albumen. Dicroscopical examination of blood showed twenty or thirty white corpuscles in one-fifth field ; one or two nucleated red ones. Retina almost white; here and there some yellowish spots; on right one or two linear extravasations of a recent date in the vicinity of the macula (the sight of this eye lad been impaired for some time); over bath retinic there were some small extravasations in various stages of absorption. llistory: A butcher-an enormous worker-redncing sleep to meet his business requirements, eating largely, and abusing the nse of stimulants; had never lived in a malarious district, and bad not suffercd from syphilis.
lemares.-This was considered to be a case of pernicions ancmia or Addison's disease. Ile was treated by a continual recumbent position because of his dyspnca. Iron and arsenic in efferrescent form were given for some months. Peptonised fluid aliment and brandy were given with strict regularity. At one time more than four quarts of peptonised milk were consumed in twenty-four hours. After a few months it was apparent that the treatment was of no avail, so I resolved to transfuse as often as it might be neccssary. Mr. G. S. Watson kindly gave me his assistance, and on December 12th I injected about ten ounces of blood into bis left median basilic by A veling's apparatus, from a healthy strapping lad-lis nephew. The immediate effect was brilliant; a slight colour came into his cheeks and ears, and be expressed
himself as "expanded " by the dose. For a few hours he breathed 30 per minute. Temperature rose to 103 about six hours afterwards, lut no pulmonary trouble appeared, and the next tay he Was quite brisk. The improvement gradually waned, and by the 16th the operation was again necessary. The left arm could not again be utilized, because the use he had made of the veins had completely obliterated all the large ones on the surface, so the right median basilic was chosen, and ten ounces injected with the same train of symptoms as before. On the ond, the right median cephalic was used, and ten ounces injected. This last injection completely occluded the surface veins of the right arm, so that when on the 30th the transfusion was again necessary, the left external saphena was chosen, and ten ounces nsed. This was the last that was done, for, on January 11th, the attempt to open the lumen of veins in tither leg was impossible from their extreme tenuity.

He lingered a few days and then sank, without any evidence of organic disease sare pulmonary hypostasis. IVis existence simply abandoned him. No post-mortem was permitted.

Tunbridge Wells.
Cleland Lammiman, F.R.C.S.

## SURGICAL MEMORANDA.

## GUNSHOT TOOUND OF TIIE FACF.

W. L., when leading a horse and cart along the road, heard two shots in quick succession; the second struck him in the face. When he applied, his right cheek and lower lip were swollen. There was a roundish wound, with scooped-out and rather lacerated edges, large enough to admit a finger, to the right of the middle line and just below the lower half of the orbicularis; also a small wound on the cheek, which might have been made by a single pellet of shot. The right canine and central incisor, with their sockets, were gone; the intervening tooth, with its socket, was still held by the periosteum and gums of the inner aspect of the maxilla. The gums on the outer surface were lacerated and separated from the bone, which was roughened and scored, down to its lower border. No shot could be felt-only some bone-grit. The jaw was broken, but the structures on its inner aspect were uninjured. Some days afterwards there was a sinns from the wound on the cheek to that over the chin, and a cavity formed below the chin on the right side. Iere the probe detected some hard substance, which, after the sinus had been slit for some part of its length, was grasped by forceps, but crumbled under its grip. Withdrawal of the forceps was accompanied by a slower of shot falling to the floor. The blades beld a lump of four pellets firmly stuck together, and much of what was then and subsequently removed consisted of pellets in twos and threes. The amonnt of shot recovered was one-third of an ounce. Recovery was rapid. The shot was fired from the raised bank of the Trent across a field, the distance to the road being 133 yards. It was fred at and killed a pheasant. The shooter saw the cart, but said it was out of the line of fire. Ile was not seen by the wounded man till after the accident, but a lad leading another cart behind saw the shot fired.
The points worthy of notice are: I, the distance-133 yards; 2. the amount of shot recovered-one-third of an ounce; 3 , the statement that the man was out of the line of fire. In regard to point 3, I have been told of two other cases of stray pellets bitting persons quite out of the line of fire. As to 2 , the shot was carried in a hump, and this perhaps explains 1.
M. R. J. Behrendt, L.R.C.S. and P.Ed.

Burringham, Doncaster.

## CaSE OF FRACTURE OF Tlle BASE OF Tlle SkULL: PROLONGED INSENSIBILITY.

On December 30th, 1887, 1 was sent for early in the morning to see a gentleman who was thrown from his horse on the common. On reaching the spot 1 found Mr. F., aged 48, standing up talking incoherently, and not knowing of his accident; blood was flowing freely from his left ear, but there was no external wound. 1 got him home, and telegraphed for Mir. Edmund Owen. In the course of half an hour he romited at least half a pint of blood; he was very excited, and at times violent. Mr. Owen confirmed my opinion that he had fracture of the base of the skull, applied blisters behind the ear, and gave calomel and bromide of potassium. At 8 p.n. he had an epileptic convulsion; eyening temperature $101.2^{\circ}$. I passed the catheter, and emptied his bladder. The
low down as possible through the skin, the trachea was quickly
left eye was insensible to light, and pupil contracted to pin's point: the left side of face was paralysed.
Un Jamary lat he fell into a quiet, semi-comatose state, taking liquid nourishment freely: L'rine and fieces passed in the bed. Temperature $9 \overrightarrow{7} . i^{\circ}$. pulse 7 T. Ile remained in this state till the 12th, when he became violently excitet, talking, singing, and whistling; sensation returned to left eye and side of face; pupil of normal size, but not seusible to light. Temperature $97.6^{\circ}$; pulse 84, feeble. I gave beef-tea, and ailministered brandy and eggs treely. On the lith Dr. Buzzard saw him with me, and located the fracture as through the petrous portion of the temporal bone, with injury to the portio dura and anditory nerves; and that there had been effusion of blood round the fifth nerve, which was partially absorbed. He gave on the whole a favourable prognosis, and advised a continuance of the same treatment. On the etth the patient became more restless and trouhlesome. Temperature varicd in three hours from $100^{\circ}$ to $102^{\circ}$, and to $99.6^{\circ}$. He was freely purged with calomel. From the "ith to February Brd he lay in a quiet, unconscions state, occasiomally talking nonsense, but he took his nourishment-beel-tea, eggs, and brandy-well. On the 8th 1 gave him potass. iodi. gr. ij, twice a day. Ahout Vebruary 20th he began to be much tronbled with sleeplessness. I tried paraldehyde, urethran, and bromide of hyoscine, instead of the bromide, without much effect. On the 23 th he had a free discharge of purulent matter from lis left ear. Temperature $101.8^{\circ}$; returned to bromide and opium. On March 10th he was very stnpid and heavy, but could not get any real sleep. I tried paraldelyde again, and gave port-wine and syrup of iodide of iron. On the 18th there was decided improrement; he knew me, bnt was not conscious of where he was. On the 2.th he knew his wife and all around him, lint was very queer in his ideas. On the 30th he was quite unconscious again. l gave chloral and croton chloral freely till the evening of April $2 n d$, when he slept somdiy, and on the Sth became quite conscious. He got up on the luth, came downstairs on the 11th, on the 14 th went for a drive, and on the 10th went to the sea-side, and, with the exception of a slight epileptiform seizure on the $20 t h$, after a very indigestible meal, has gradually improved ever since. He returned to his business on the 14th, doing a little each day ; he has still some paralysis of the left side of the face, especially his eyelids.

Wimbledon. Thomas EDWard Parsong, M.R.C.S.Eng.

## REPORTS <br> or <br> HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUMS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

LIVERPOOL ROYAL INFIRMAKY.

a CASB Wherb a bamson-stone was longed in the rigit bronchis: trachnoromy : pecovery.
(Under the care of Mr. Reginald ILarrison.)
Jane S., aged 8, was ndmitted on April 4th, 18Rs. Ten days previously, while laughing when eating some damson jam, she thought she had swallowed a stone. This was immediately followed by a violent fit of coughing, for which medical aid was summonen. These paroxysms of coughing were repented at intervals. On admission there was slight flattening of the right side of the chest nosteriorly; with diminished expansion ; and a rhonchns was distinctlyaudible. Breath-sounds feeble towards base, the rhonclus increasing in loudness as the bronchus was approached opposite the fourth dorsal vertehra. where the sound was best heard. The rhonchus was twofold, inspiratory and expiratory; and there was sometimes a somm as if something fell between expiration and inspiration. Breath-sounds on left side normal, but with transmitted rhonchus: respirations 22: pulse 80. Whilst she was under ohservation in the intirmary she had screral attacks of violent paroxysmal cough, when various cxpedients, including inversion and slapping on the hack, were tried, with the view of favouring the expmlsion of the damson-stone, which evidently had fomed a resting-place in the right bronchus. On one occasion she expectorated a little blood, but as a rule she was going about the ward apparently well.
On April ᄅlst she was placed under chloroform, and Mr. Harrison performed trachentomy. An incision having heen made as
bared with a blunt director. A free incision into the trachea was then made, three or four rings being divided. Ju-t as the child was being inverted the stone was shot out into the wound. where it was easily seized with the fingers. A tracheotomy tube whe introduced and retained for a few hours, but proved useless. The patient breathed freely through the opening, and expectorated for the first four or five days a considorable amount of preumonic-looking spatum. Then convalescence rayidly took pace, and she left the infirmary fourteen days after the operation Mr. IIarrison observed that, from a perusal of Mr. Durbam's valuable article (Hlolmes's System of Surgery) on this snbject. it appeared that the mortality in cases of this kind where no operation was performed was rery considerable. In this instance the patient had most alarming symptoms of suffocation the night before tracheotomy was resorted to, which might have been immediately fatal had not assistance been at hand. The very free sion of the damson-stone withont favoured the immediate expulservice as a rent for the withont the least trouble, but proved of latter was prohably due to the inflammatory action whicit tha stone liad excited in its neighbourhood.
We are indebted to Mr. J. Teare for the notes of this case.
CIVIL IIOSPITAL, CALICCT, MADRAS PRESIDENCL.
WOLND OF LEFT WRIST AND RIGHT l:PPER ARM: bRACHIA, aneurysv, ligatcire: rbcoviry.
(Under the care of Surgeon-Major HI. D. Coor, M.B., Civil Surgeon, Calicut. ${ }^{1}$ )
T., aged 32, was admitted on June Sth, 1856, with a transverse wound over the anterior aspect of the left wrist, diviling the tendons of the flexor carpi radialis and palmaris longus, but without injuring the radial or ulnar arteries. The distal ends of the tendons coukd be easily seen; not so the proximal ends, which were drawn up by contraction of the muscles. He had also a punctured wound on the inner side of the right arm, middle third, from which renons blood was freely oozing. The blecding from the wrist was arrested, the edges of the wound brought together by sutures, cold water dressing applied, and the wrist kept in a flexed position. A cold compress was applied to the wound in the arm.

On the third day after admission the wound over the wrist assumed a rery unbealthy appearance, with offensive sanions discharge. Subsequently the distal end of the llexor carpi radialio sloughed off and the palm of the hand inflamed, becoming swollen, hot, and rery painful, with fingers flexed. The inllammation was accompanied by traumatic fever. The extremity was supported on a splint, and charcoal ponltices applied. The wound in the arm rapidly bealed. On account of the destruction of tissue at the wrist, the formation (frequent) of palmar abscesses, matting of the tendons, etc., and foreseeing the complete uselessness of the hand, he was advised to submit to amputation of the forearm in itslower third, but this he positively refused to do. The wound of the wrist has since healed up, but the hand is quite useless, and is a burden to the man.

On June e0th the patient drew attention to a pulsating swelling in the right arm. Its position corresponded to the course of the brachial artery and punctured wound already described. The had all thas sacculated with a slight depression to one side, and had all the appearance of an aneurysmal warix. Palpation showeil revealed a to be pulsatile with a distinct thrill. and anscaltation revealed a lond rasping bruit. Pressure over the axillary artery On July 25 th, with the assistonce of and the sac to collapse. incision three inche the assistance of surgeon Routh, M.S.. an incision three inches long was made over the axillary artery, as The putsation in the tumour ceased at once. The extremed wrapped in cotton-woal and flannel, and the patient put to ty was On Angust 10 th the ligature from hospital on the $20 t h$, the tume away. hard and small. pulsationabsent.

## 2 Communicated to tho Sunth Indian Branch of the Jritish Medical Associs.

 tion.The (ineat Northern Central Hospital- - In consequence Wale death of the German Emperor, the l'rince and Princess of Wales have postponed the ceremony of opening the Great Northern Central Llospital until the latter part of July.

## REPORTS OF SOCIETIES．

OPIHTHALMOLOGICAL SOCIFTV OF THF：じN゚IED K゙NGDOリ．

J．WF．llelke，F．R．S．，Presitlent，in the Chair．
Paralysis of the Fifth Nerve associated uith Catarnet．－Dr．W． J．CoLisis showed a case of paralysis of all parts sippliml hy the عensory branches of the right fifth nerve；muscles of mastication maffected．N゙o listory of syphilis and no cerebral symptoms． The patient had suffered from severe pain in the anasthetic parts for eight months aud the sight of the right eye had failed．＇There had been no herpes and no conjunctival or corneal affection what－ ever．There was diffuse opacity of the right lens；the left eye and side of face were normal，and vision was good．Ile considered that the lesion was located somewhere between the root of the uerve in the pons and the subdivision of the Gasserian ganglion． This case conflicted with the riews of Snellen and others re－ specting trophic nerves．Here the lens，non－innervated，and pro－ tected from foreign irritants，suffered，while the highly－inner－ rated and anesthetic cornes retained its pellucidity，notwith－ etanding eight months＇habitual exposure．－Mr．T．I＇ringin Tfale mentioned a case of cataract，in which puacture of one lens was followed by suppuration of the globe．The patient died shortly afterwards with aphasia，due to cerebral hemorrhage，which was not entirely recent but partly resulted from an accident many months previously．He suggested that the disastrous results to the eye might have been the resnlt of the nervous lesion．－Dr． Colsins briefly replied．

Exostosis of Frontal Bone and Orbit with an Intracranial Grouth．－Dr．EmRyS－Jones mentioned a case，and ahowed specimens，of a large orbital exostosis associated with a myxoma－ tous tumour in the anterior lobe of the brain．There had been some epileptiform attacks，the existence of which the patient denied on account of his anxiety to have the growth removed． The attempt at removal had to be abandoned and the patient died five days later from septic meningitis．－Mr．Jonathan Ilutchin－ sos had seen several cases of exostosis of the frontal bone．In one case of a young man the exostosis grew into the frontal sinus on the left side and was removed by trephining：later on there grew another exostosis from the right side which was early re－ moved，but septic intlammation and death followed．In another case of a young woman the exostosis was very large，and a loug time was spent and many saws were used in attempting to remove the growth，but only with partial success，a raw surface with bony base being left；this suppurated and remained open for twelve months，when further surgical interference led to the shelling out of the remainder of the exostosis，a deep cavity was left，at the hottom of which aome mucous material was seen，but the dura mater remained sound；the eye lad been previously lost；ulti－ mately the case did well and the wound healed．－The President said these cases pointed to the great risk of interfering when the cranial wall was perforated．Ile referred to two cases where the inner table only was involved，the roof of the orbit being free，in which remoral of the exostosis was quite easy．

Optic Atrophy in Three Brothers（Smokers）．－Mr．EDGAR Browne （Lirerpool）read a paper on this subject．In the tirst patient，aged 40， vision had failed at the age of 27 ．A diagnoais of tobacco－ambly－ opia was made．The patient reduced smoking gradually，but continued to chew．Fision had steadily failed to shadows，but the pupils were three millimetres diameter，acted to light，and the patellar reflexes were good．Previously，vision was good：general health always good．Optic dises，typical skim－milk atrophy， with attenuated vessels．ITe could see a tlame or bright reflection from white at periphery of fields．The second patient ras aged 33；sight became very bad six months before；he also both emoked and chewed tohacco；he could see a little in twilight．The knee－jerks were good．Pupils，three millimètres diameter，acted to light．The optic discs showed a general appearance of atrophy； ressels pervious，but rather small．IFe could see white paper test in lower temporal（right）and lower nasal（left）fields，but not at all centrally，In the third patient vision had falled for two years， patient beingr aged 23 ；could read J．16．This patient discontinued smoking when warned．Pupils sluggish，but acted to light．Peri－ pheral fields for white，both eyes normal：central scotoma for white and red in left eye，for red only in right：colour vision with wools good．Optic discs very white and smooth；veins perhaps a
little large．The original assumption that tobacco could cause atroply hal heen rather discredited since the signiticance of axial neurit is liad been understond．These cases were closely related to the hereditary optic atrophy of Leber（though occurring rather late），but the term hereditary should not be adopted till our iu－ formation was much more exact．In all three cases，tobacco was probably the determining cause of the atrophy．In all perception of light was better towards periphery than centre；none had visible neuritis；none had cerebral or spinal symptoms．The father，mother，and two sisters lad good sight；a collateral rela－ tion had suffered．These cases might be taken as types of one group－namely，those in which an axial neuritis being once estab－ Fished tended to spread to the periplueral fibres，involving both sets in the subsequent atroplyy．Exactly the opposite occurred in ordinary neuritis，in which the central fibres（and vision）might escape for a time．The following grouping of cases was sug－ gested：1．Ordinary tobacco－amblyopia，involving only central． fibres ：transient，and recovery on remoral of the cause．… A class beginning with central negative scotomata，which progressed lownwards till central defect became positive（or nearly so），and axial atrophy baight be assumed，peripheral vision being un－ affected．The part played by tobacco in these cases required investigation．3．Cases like those under consideration，where retro－bulhar neuritis，beginning centrally，spread peripherally，giv－ ing rise to more or less pronomed atrophy．Here the personat proclivity was shown in young persons，members of the same family．If similar groups were found among non－smokers，search would not be required to diacover the exciting agent．Beyond theae were（4）consecutive atrophy，and（5）atrophy accompanying spinal degeneration．At present the two last groups were well understood， but cases ilhstrating the second and third groups should be col－ lected．－Mr．HrtcinNson mentioned a gromp of three，consisting of two yonng males who smoked and the mother of one of them（and aunt of the other）who did not smoke，all affected with optic nerfeatrophy．In the case of the woman the inherited predis－ position to nerve lesion must lave been very strong．Eventually she became quite blind，but had very good health．Perhaps abuse－ of tea or coffee might have had a share in bringing about this effect：he was sure that they sometimes caused deafness．He thought the Society might investigate the rery rare group of women affected with this form of atrophy who did not smoke at all．Hr．Browne liad mentioned that his first patient was a total abstainer，this，in his experience，rather led to the production of the atrophy than the reverse；those who indulged in alcohol as well as tobacco were less liable to tobacco atrophy than were abstainers．These cases occurring in families were much more serere，more liable to end in blindness，and much less easily cured than the other forms．－Dr．Emrys－Jones mentioned the case of a family of nine children，but only five living，in which two children had atrophy of the optic disc without definite cause，the girl ast the age of seventeen and the boy aged nine；total blindness ensued．－Dr．IIabersinon referred to his paper read at a former meeting of the Society，dealing with hereditary cases of optic atrophy；in some a sexual cause appeared to operate．－Mr． WALKER thought that great losses of blood and a numerous family in the mother and grandmother might be sa cause of optic atrophy in children．－Mr．Browns hoped au investigation，as suggested by Ar．Hutchinson，would be umlertaken by the Society．Subjects of tobacco amblyopia had often been drinking heavily；if they left off alcohol and tohaceo they did well．

Card Specimens and Living Patients．－Mr．Sil．Cock．1，Sarcoma of Frontal Bone ：2，Sarenma of both Orbits．Mr．Jessop，Case of Symmetrical l＇igment Ring on Anterior Capsule of Lens．－Mr．J． Hetchinson，jun．，Two Cases of Cicatrices on Vitreons and Retinas．

Mr．G．E．Walker，Case of Recovery from Ueclusion of Pupil without Iridectomy．－Prof．Berger，1，Sarcoma of Cornea；2，a Refraction Uihthalmoscope．

## ROYAL ACADEJY OF MEDICINE IN IRELAND．

 SECtION OF＂Pathology．Fridaf，Jeng Ist， 1888.
C．D．Dall，M．D．，President，in the Chair．
Peritonitis from Perforation．－Mr．MARDLF communicated 8 case of peritonitis from perforation，and commented upon the cause of deatli in such cases．－Dr．James Litterf said that on more than one occasion in cases of the kind he had opened the abdomen rluring life；and when he alterwards opened the abdo－ meu in the same cases after death，most important appearances，

Microscopical Appearances in Locomotor Ataxy:-Dr. Finny communicated a case of locomotor ataxy. The patient had died in Sir l'atrick Dun's Ilospital, to which he was admitted as a pay pitient at the age of 34 , in December, lasis, of emphysema and eardiac dropsy, with a listory of tabes of some ten years' stand-

Ile had been under Dr. limny s olservation three years previously, and bad exhilited at that time the following features of disturbances. diminution of tactile sensibility in the legs and arms, but more particularly in the forearms. He was unable to state where his fett were, when in bed, until he struck the footboard with them; and on one occasion, whiie pinning on his left cuff, he passed the pin through the flesh of his wrist and was not aware of it, until finding the cuff was fixed, he tore away the flesh by pulling it down. He had some paresthesia of the fingers, and described a sensation of great heat in the tips of the right hand, and said that their moisture would at times rise as steam from them. Neuralgic pains were occasionally present in both legs and arms, but was not by any means a prominent symptom. Hotional disturlances: linsteadiness in walking and in turning round; difficulty in maintaining the equilibrium while standing with the eyes closed, or on looking up at a height. There was no ataric gait, the gait being that more of uncertainty and debility. He had great dilliculty in walking in the dusk. ILe experienced great difficulty in buttoning his clothes, more especially behind him. Retlexes: The patellar reflexes were absent, and the ArgyllRobertson phenomenon was sufficiently marked, though the pupilz were not markedly contracted. The sexual reflex: At the time of his last illness the sexual appetite was not inordinate, though early emission followed upon excitement; but for many years preceding it, as early as twelve years of age, the scxual desire was greatly increased, and renery and masturbation were immoderately practised. There was no cistinct syphilitic history. though he had venereal disease at the age of 18 , and there were no appearances of scars, or of tertiaries. The patient s whole hisfeatures in his case were: 1. Early and immoderate sexual appetite. 2. The slight amount of tabetic gait. 3. The greater implication of the cervical region of the cord.Dr. BEWLEY exhibited microzcopical specimens of the cord in the case brought forward by Dr. Finny, and mentioned that the dislumbar portions. There was another peculiarity which the the not seen in any drawings of cords affected by locomotor ataxynamely, that in the cervical region the posterior third of the internal part of the postero-internal column was sclerosed, the middle portion was not sclerosed, and the anterior portion was again sclerosed. The posterior third derived its ascending fibres from the lumbar region, in which there was some disease, and those fibres trere consequently degenerated. The dorsal region was not much diseased. The middle third, containing fibres from containing ascending fibres from the diseased cervical region, was mucli sclerosed.

Separation of the Coracoid Iipiphysis of the Scapula.-The Secretant read a paper ly Dr. E. HI. Bensett, who was absent, on a case of separation of the coracoid epiphysis of the scapula.
Cirrhosis of the Liver and Portal Thrombosis.-Dr. Bewlix submitted a case of cirrliosis of the liver and thrombnsis of the portal vein. The specimens were taken from a man, aged 60, who had enjoyed fairly good health, with the exception of occasional attacks of bronchitis, until the 18 th or $20 t h$ of last March. First piles came on and gave him considerable trouble. Then his feet swelled, and his legs became cedematous. Afterwards his abdomen
hegan to swell. Te lost Hesh, strength, and appetite abilomen and legs rapidly increased in size. After alout tro and a half weeks jaundice eame on, and on April th he was admitted into the Adclaide Hozpital, under the care of Dr. Wallace Beatty. $11 e$ was then extremely weak and emaciated. His ablomen measured fort $y$-four and a half inches round the umbilicus, and contained a zreat deal of ascitic flud. On account of the accumalation of thuid it was not possible to make a thorough examimation of the viscera: but it was apparent that the upper aud cowr borders of the liver were normal-at least nothing abnorma appear to he very large. The had slight brouchitic rales and not appar to he very large. Die had slight broncmolic ragos and also the veins of the neck. 1 lis urine had been very scanty for three weeks before his admission, and at the tine be came into
the losplital presented a slight amount of bile pigment. On May lith le was tapped. ly to that time it was uncertain whether it was cirrhosis or cancer of the liver that he had. When the tapping was performed the fluid that came away was ascitic and largely coloured with blood. A hard nodulated mass was theu felt under the right costal arch, extending out to the epigastrium. The diagnosis then arrived at was, that it was malignant disease of the liver. At the tapping, $1 \varepsilon \frac{1}{3}$ pints of thuid were withdrawn. Ilis abdomen refilled; he srew weaker and weaker, became unable to take food, and died on Jay 21 st. On post-mortem examination, his abdomen was found to be again immensely distended with fluid, the quantity being between two and three gallons. This fluid also was extremely bloody, and from the deeper portions of the peritoneal cavity large soft blood-clots came. The liver, which weighed 43 lbs ., was found to be in a curious condition. The left lobe presented very typically the characters of extreme cirrlosis, being extremely hard, and converted, for the most part, into bands of greyish dense fibrous tissue. The right lobe was largely increased in size from above downwards, and was bright yellow-coloured, the yellowcoloured part being marked off by a distinct line from the grey cirrhosis in the neighbourhood. This yellow part was perfectly soft, while the left lobe was like a mass of leather. About half of the right lobe was in this peculiar soft yellow condition. The trunk of the portal rein was filled for an inch or two with a soft clot; but the walls of the rein were perfectly healthy, and the rein at some distance from the liver was healthy also. The gallbladder and bile-duct were full of healthy bile, and were not diseased. The other riscera were healthy, except that there was some thickening of the mitral valve, and that the lungs were somewhat emphysematous. The idea they conceived was that there had been thrombosis of the portal vein, and that the blood passing slowly through the rein clotted for some distance back. The branch to the right was more firmly clotted than the branch to the left, and the tissue of the right lobe had become almost necrotic from the interference with the blood supply.

## BR.ADFORD MEDICO-CHIRURGICAL SOCIETY. Tuesdat, April 3rd, 1888.

## T. W. Mime, M.B., President, in the Chair.

Some Destructive Diseases of the Eye.-Dr. Bell read a paper on this subject, with special reference to glaucoma. He had in the course of his experience at the Bradford Lye and Ear Lospital seen no disease of the eye the nature of which seemed so easily to escape the notice of medical men until it was too late to repair the damage done, and this was especially the case in the more chronic forms of the affection.-Drs. Hime, Mayon, and Bell took part in the discussion.

Gonorrheal Ophthalmia.-Dr. Butwie read a note in which he said he wished it to be understood that he looked upon gonorrheal ophthalmia and purulent ophthalmia of infants as two distinct affections. The former only occurred in subjects suffering from gonorrhcea. It had never in his experience affected both eyes, but might do so. It was not caused by direct contagion, or it would be much more frequent; but was due to metastasis, similar to gonorrhceal synovitis. The appearance of the eye was also different from that presented by eyes which had been directly infected by means of towels, etc. The semi-ptosed condition of the eyelid was particularly characteristic. In purulent ophthalmia of infants the disease nsually attacked both eyes, and was caused by direct infection.-Drs. Bell, Woods, Hime, Goyder, aud Bronner took part in tlie discussion.

Acute Atrophy of Liver.-Dr. Woons related two cases of this condition. Case 1.-On January I1th, I887, a temperate man, aged 2, , who had never suffered from syphilis, and who had spent all his life in England, was admitted to hospital apparently suffering from a slight attack of jaundice. The skin was yellow, the urine saffron-coloured, and the patient was constipated. I'ulse 80, temperature $99^{\circ}$. No tenderness over the liver, but diminished area of dulness on percussion. The bowels were easily moved by aperient medicine, and no particular symptoms presented themselves till January 25th, when the bowels were relaxed and motions dark coloured. The urine was now of a dark-brown colour; it was tested for blood and bile acids with negative results. Pulse 88 , temperature $99.8^{\circ}$. The patient on this date (fourteen days in hospital) began to wander a little, becoming delirious on the 26 th, and graclually passing into a state of coma, well marked on the $28 t h$, which lasted till next day, when he died. On post-mortem
examination notling abnormal was found in the head or thorax; the liver was much reduced in size, specially the left lobe, the weight being only twenty-seven ounces. Thio spleen weighed seven ounces, and was normal in appearance. CASE II.-A man. aged 39, of intemperate habits, who had suffered from sypbilis and intermittent fever, and had served fourteen years in India in the army, was admitted February 28 th, 1888, suffering from jaundice. The skin was yellow, the urine dark coloured, the bowels obstinately confined; all food was romited as soon as taken; no tenderness over liver; area of dulness diminished. Pulse 68, temperature normal. Bowels remained contined until March 3rd, when a dark-coloured liquid motion was passed; vomiting was now very distressing, the romited matter being dark-coloured. The urine was brownish in colour, depositing brown sediment. It was tested for albumen, blood, and bile acids with negatire results. Pulse IIO, temperature $99.6^{\circ}$. Nive days after admission the patient became violently delirious, but lapsed into semi-unconsciousness in the afternoon, becoming comatose next morning, and remained in this condition until he died at noon on the 5tl. On post-mortem examination, nothing abnormal was found in the head or chest; the spleen weighed seven ounces. The intestines contained bile. The liver was small and shrunken, and weighed twenty-six ounces; it was of a deep yellow colour, passing here and there into dark red patches. Its tissue was very friable. On microscopic examination the liver-cells were entirely destroyed, only a few nuclei being left here and there. The liver was reduced to fibrous tissue radiating from the portal spaces, in which it was most abundant, and near which some agglomerations of nuclei were seen. Fat globules and granular debris were present in large amount. Leucin and trrosin conld easily be demonstrated. There were cases of jaundice without obstruction, and the clinical features were not unlike those present in cases of poisoning by alkaloids, curare, muscarin, etc. If the secreting portion of the liver was impaired, as in acute yellow atrophy, whatever bile was secreted was of inferior quality, and peptone, and leucomaines were allowed to enter the circulation. The bile itself was absorbed into the blood, and stained the tissues, never, however, to any great extent. In jaundice with obstruction of the bile-duct, bile did not enter the intestine, aud, therefore, did not act there on the peptones and leucomaines, but, being rapidly absorbed into the blood, acted there as an antidote to the leucomaines, preventing them from producing tlie alarming symptoms observed in cases of jaundice, where no obstruction existed, but where, owing to impaired action of the liver, bile, incapable of exercising its proper functions, was secreted.-Dr. A. Bronner, in the absence of Mr. J. Appleyard, with that gentleman's kind permission, recorded a similar case which he had seen by his courtesy. The patient, a remarkably tall and strong man, about 35 years of age, who had always lived a most temperate life, and had always been perfectly healthy (with the exception of a rery slight mitral bruit), had been very much depressed some weeks before the tirst definite symptoms. Ilaving receised a chill at a railway station, and the same evening having eaten some sausage, the next morning diarrhœa set in and slight jaundice, the urina also becoming distinctly tinged. This was looked upon as an ordinary case of jaundice consequent upon gastro-duodenal catarrh, and under treatment the bile-pigment disappeared from the urine, and the jaundice almost entirely disappeared. The patient got up, felt much better, and nothing whatever occurred to point to the true nature of the case. On the evening of the eighth day after the appearance of jaundice, the patient went to bed, complaining of very severe headache. In the morning he was in a state of excited delirium, tearing down the bed-curtains, etc., recognising nobody. In the course of the day he became quieter, lying in bed with his hand to his head, as though in great pain. There were no couvulsions. The pupils were dilated, and did not react to light. The urine became highly icteric, and there was a dirty-yellow deposit in it, which microscopically consisted of detritis of cells. No albumen. The urine was tested for leucin and tyrosin, but no crystals were found. The spleen was not found enlarged. There was no enlargement or diminution of the area of dulness of liver. No hamorrhages from stomach or bowels, and no petechia. The jaundice increased in the course of the day, and the patient gradnally became more comatose, and died at 4 A.an., thirty hours from the commencement of the headache. Only a partial necropsy was allowed. There were hemorrhages on the omentum and the bowels, also on the kidneys, where they presented the wedge shape of infarction on section. The liver was a soft, pulpy mass, which could be easily torn with the fingers. Under the microscope

The field of vision was the liver structure was almost oblitcratcd. The field of Mision withor Greenfield, of Edinburgh, who was kind enough to examine some of the liver and kidnes, pronounced the case to be one of undoubted acute atroply of the liver. There had neyer been any complaint of pain or uneasiness in the region of the liver.-A discussion followed, in which Drs. 11. Bions
LAMBERT took part, Dr. Woobs reply ing.

## REVIEVS AND NOTICES:

Techntcal School, and Colizge Building. Being a Treatise on the Design and Construction of Applied Science and Art Buildings, and their suitable Fittings and Sanitation, with a Chapter on Technical Education. By Enward Cookworthy Robins, F.S.A. 4to. London : Whittaker and Co.
Theres is probably no more important "question of the day" than that of technical education, and if evidence were needel of the satisfactory progress which we are making towards its practical development, it might surely be found in the appearance of this important rolume. At a time when our leading politicians and cconomists are unanimous in declaring that, if lingland is to maintain her position in the forefront of the great producing countries of the world it must be by the thorough technical $t$ aining of the "skilled artisan" section of her industrial population, it cannot but be regarded as a hopeful sign that one of our leading architects should have deroted so much study and attention to the construction and arrangement of the buildings necessary for this class of instruction, as must lave been required to produce the work before us.
Mr. Robins has produced a thoroughly practical book, which must prove of the greatest value to his professional confrères, who may be called upon to design technical science buildings, and which contains much that should be carelully studied by those who may have to take an active part in developing and guiding nical education lias lately received.
There is of course some difference of opinion as to what is rightly to be regarded as the scope and object of technical education, and in his opening chapter Mr. Robins discusses this question, and gives the views of rarious eminent authorities, amongst others those of Professor Ayrton, who says: " 1 by a technical school I understand not one in which the manipulation or routine of a trade is taught, but a school where a tad receives general instruction in the principles of applied science, and special instruction in the application of these principles to the particular trade he is following, or which he is about to follow," an opinion shared by l'rofessor Huxley, and lyy the late J'rofessor Fleming Jenkin, who characterised as a "misclievous delusion," the idea that the alject of techuical education is "to teach a man his business." Mr. Robins accompanied Professors Armstrong and Ayrton in a tour of inspection of the polytechuic schools of the German speaking countrice, in 1882, ani gives an interesting summary of the results. This is followed by an analysis of the second report of the Royal Commissioners on Teclinical Blucation which is of considerable ralue. as it is a brief but clear erpose of the sulject, and describes the different classes of techmical schools existing on the Continent, from the elementary seliools to the great universities. In the next chapter Mr. Robins somewhat briefly deals schools, pointing out thiat to be effectively taught, many subjects, such as chemistry ant physics, anatomy and physiology, botany, and forestry, etc., require specially designed buildings. In the examples of foreign buildings for technical instruction, which follow, a large proportion are chemical haloratories, and include those of Bonn and Berlin, of the \%urich Polytechmic School, the new University of Strasburg, Munich University, and others: there are also plans of the Academy of Sciences, Munich; the Berlin Physiological Institnte, the Physical institute, Hurzburg; the Chemnitz Royal Trade School. the Technicallligh selinol at tranover, hee hoyal Technical School, Stockholm, ete.. accompanied with descriptions whicl further elucidate the carefully figurcl phans, and merease their value for study and comparison. As we pointca out chemical the majority of the foreign buidings ithestrated are chemical laboratories, but as an exception, the Technical lighl School at Hanover may be noted, this being a remarkably complete scheme,
embracing well nigh all the subject which can le brought within the range of technical education. We have next plane and descriptions of some of the principal Vinglish tehmical buildings. commencing with Mr. Waterhouse's well considered and masnifiernt pile, erected for the City and Guilds of London Teclnical Institutr, at South Kensington, which it is to be regretted has not yet, probably owing to its situation, succered in attracting students in anything like the same proportion as the linslury building for the same institute, which is next illustrated, and the success of which, under I'rofessor Silvanus Thompen, is most gratifying. The other English buildings of which the plans are given, are the Yorkshire College, leeds: the Merchant Yenturefs Scliool, Bristol, a most succesfully designed building by Mr. Rohins, opened in 1885 ; the Oldham School of Science and Art: the Mason Science College, llirminglam: St. Thomas's Ho cpital Medical school: the Oxford Physiological Laloratory ; the Cambridge Lniversity Laboratory, and some half-a-dozen more, withcomplete. The following clapter deals would be by no means science instruction buildings, and is vers fully illustrated ly drawings, showing students working tables, sinks and drauglit closets, arrangements for carrying off noxious gases from the work table, and rarions details from some of the buildings alrealy mentioned, and others, including the College of Engineering. at Yeddo, in Japan. This is a very valuable section of the book, and the drawings are most carefully producel to scale. A valuable chapter on heating and ventilation, considered generally, is followed ly one dealing with the subject in special reference to applied science
instructer instruction buildings, the importance of which cannot be overmeans far as in addition to ordinam senerat intilion, special means for the remoral of noxious fumes generated in the labora-
tories have to be provided. Mr. Robins. describes the system. adopted at the Finsbury Technical College, the Central Institution, South Kensington; the lorkshire College, Leeds; and the Merchant Y'enturers' School, Bristol. Buildings for Secondary Educational Purposes, is the title of the next chapter, whicll is illustrated by views and plans of several buildings of this claz= designed by Mr. Robins, and includes the Sonth llampstead Higl School for Girls ; Mitton Mount college, Gravesend-a school for luo girls, and some other smaller buildings of this class. A chapter on Sanitary science in its relation to Civil Architecturc. this subject, that we commend it to all our readers who are interested in it, as sure to repay careful perusal. We have said enough to indicate the extent of the information which Mr. Robins liacollected together, and we think he deserves our thanks for giring this information to the public. His book contains upwards of sixty large liates, photolithogray hed from drawings. the preparation of which alone must hare entailed a considerable amount
of labour and expense. It is well printed and bound aul will of labour and expense. It is well printed and bound, and will
certainly be of much service in furthering the object its certainly be of much service in lating the object its author
olviously has at heart by facilitating obvious y has at heart br fachitating the design and construc-
tion of technical science buildingz, perfecty adapte pose they are required to fulfil.
Gimer to the Healtif Resorts in Atstrahia, Tasmaita, A.jn New Zelland. By Lưnwig Breck. 1?mo., pp. 183. Sydney, 1858. London: Baillière, Tindall, and Cox.
Trus book marks very strongly the progress of our Autralian colonies in European ways. It also forms an excellent and practi-
cal supplement to 4 . Bonwicks useful little works on the climate, etc., of the different southern settlements. It is diflicult to analyse a work, itself an ubstract of what lias been done by others. but a few general remarks occur to us. Seaside ressrts, winter resorts, high altitude resorts up to 3,500 feet are all to be foumb in the southern hemisphere, and arrangements for the accommodation of risitors seem to make great progress.
On the whole, while New \%ealand abounds in mineral watermost of them of a ligh temperature, the Australian continent appears to have singularly fews, fin thetoria there are pleasamt achulu
some iron springs, more or less of the character of seltzer, with ant a wealk bitter spring atse : good chalybeate at llepburn, New South Wales seems to have only two-Dubbo and Rockflat, both acidulous.
Queensland only boasts of one spring, Herlertson,' not very perfectly known, but undoultenly hot, which none of the other fectly known, but undoultenly hat, ware thers have made the
wonderful hot springs of New Zealand tolerably familiar to the public, and most of us have read of the baths which the Maoris use, and of those beautiful natural deposits, known as the white aud pink terraces, which are reported to have been unfortunately destroyed by the earthquakes of I886. The chief groups of hot springs appear to be:-
I. Uhinemutu, with Rotorna, has no fewer than 25 hot springs, that have been described as essentially sulphur with chloride of sodium. A powerful smell of sulphur pervades the atmosphere in their meightourhood. In one bath, Camerons (known as the laugh-ing-gas bath), the use of which is dangerous, the discharge of sulphuretted hydrogen is so strong as, when inlaled, to canse faintness, aud great excitement of the rascular and respiratory systems.
2. Taupo, with 23 springs, of high temperature, and low mineralisation. They are admirable specimens of indifferent waters, aud a vailable for a great rariety of purposes.
3. Te Arolna, a set of thermal alkaline baths, of which IS hare lreen described; 54.60 and 63 grains per pint of carbonate of soda are present in some of the waters, which are, therefore, more powerful than any of the known similar waters of Europe.
4. LIanmer has hot springs with strong escapes of sulphuretted hydrogen, and possessing similar curative effects to those at Rotorua.
5. Masterton, with fire principal springs, strange to say, cold. Most of them are of strong chloride of sodium, and one of the springs contains 2.127 of iodine free and combined, a very high figure indeed.

While New Zealand falls short in acidulous springs, it has abundance of those rich in alumina, in sulphuric, and hydrochloric acids.
It thus appears from this survey that New Zealand abounds in sulphur, alkaline, and indifferent thermal waters which can compare with any of their respective kinds in the world. Establishments have been already organised at most of these baths, and tbe acidulous waters of New South Wales are charged with carbonic acid, bottled, and exported, as in Europe. For further details, especially on climatic matters, on which we have no space to enter, we would refer to the capital guide-book of Mr. Bruck.

The Theryal Springs of Aix-la-Chapelle and Borcette. By Dr. Beissel. Sro., pp. I45. Aix la Chapelle: Mayer. IR27.
This appears to be a full and trustworthy guide to the waters of Aix-la-Chapelle and the neighbouring Borcette. Full details are given about the different springs and baths, also about the diseases most commonly treated at Aix-la-Chapelle. There is a chapter on Mercurial Inunction, in which Dr. Beissel discusses the theory of its mode of absorption, and how far the heat of the baths volatilises the mercury, which (as one channel) may be absorbed through the lungs.

## NOTES ON BOOKS.

The Treatment of Uterine Fibroids by Electrolysis. By W. E. Steaterson, M.D.Cantab., M.R.C.l..; in charge of the Electrical Department at St. Bartholomew's IIospital; Physician to the Grosvenor Hospital for Women and Children. (London: J, and A. Churchill.)-The author states that he has been so frequently asked for the details of the operation by electrolysis in the treatment of uterine tumours that he has published in adrance this part of a work which is in preparation on "The L'se of Electrolysis in Surgery." This first instalment is in the form of a pamphlet. The author gives very clear directions concerning the application of the electrodes. As must now be pretty generally known, Dr. Steavenson has contrived a new form of intra-uterine electrode, more flexible and therefore more introducible than Apostolis, and far cheaper on account of the smaller amount of platinum which is used in its manufacture. The author fully recognises the objectionable character of the external potter's clay electrode, and hopes for some better form which will diffuse the current equally over a large surface. There can be little doubt that patients object to the clammy poultice of potter's clay more than to any other feature of the new treatment of fibroids. There is little or no controversy in this pamphlet, but operators may
take exception to the manner in which abdominal section is condemned. Treatment by electrolysis "is not diflicult," we are told, "to those who understand the medical and surgical uses of electricity. It is not unduly painful. It is, if properly applied, practically free from danger." Dr. Steavenson's qualitications are sufficient to prove that electrolysis can hardly be trusted out of the hands of experts, else it will speedily be discredited. A tririal knowledge of gynecology, combined with an imperfect acquaintance with electricity, can only cause disaster.

Principles of Forensic Medicine. By the late Whlliam A. Guy, M.B., F.R.S., and David Ferrier, J.D., F.R.S. Sixth Edition. (London: Henry Renshaw. 1888. Pp. 600. Price, 12s. 6d.)That this well-known manual continues to hold its own in public estimation is abundantly evidenced by the appearance of a sixth edition. Owing to Dr. Guy's death a year or two back the preparation of this edition has devolved entirely upon Dr. Ferrier, who has made but rery slight changes in the text, recent isuportant cases such as the Pimlico chloroform poisoning case or the Lamson trial being briefly alluded to in a foot-note. The size of the page has been somewhat enlarged, thus making the book less bulky and far more handy, and the headings of the different subdivisions of each subject hare been bronght into prominence by being printed in thick black type, so that they catch the eye on the most cursory glance. This will greatly facilitate the finding of any particular subject, and consequently it will increase the value of the book as a work of reference.

# REPORTS AND ANALYSES 

DESCRIPTIONS OF NEW INVENTIONS, IN MEDICINE, SURGERY, DIETETICS, AND THE ALLIED SCLENCES.
MEDICINE AND POISON BOTTLE.
Carefle attention should always be paid to any suggestions made to lessen liability to accidental poisoning, and, although we think that precautions of a mechanical nature may be carried to an excess in the dispensing of medicine, so that intelligent watchfulness may relax, it is almost impossible to adopt the many safeguards when poisons are handed over to patients or attendants.

Mr. E. S. Hermes, of 6, Farleigh Road, Stoke Newington, N., has inrented a bottle for poisonous liniments and similar preparations, which would seem to preclude the possibility of an error being accidentally made. The bottle is hexagonal, with three sides ribbed, is of blue glass, and has the appearance of an ordinary poison bottle. But it is closed where the mouth of an ordinary bottle exists, and the contents are poured from an orifice placed in a depression at the bottom: bence the bottle must be actually reversed before the contents can be got at.

HARTMANS SANITARY WOOD-WOOL BAPKINS.
The Sanitary Wood-Wool Company, of Hatton Garden, have discorered still another way in which the wood-wool manufactured by them can be usefully employed.
The bapkins made by the Company are intended to supersede the linen napkin ordinarily used for children in arms. They are pads of wood-wool of a convenient size and thickness enclosed in gauze. Deing antiseptic and highly absorbent, they present obvious advantages orer the ordinary linen napkin. By their use the infant is less exposed to chill, and its skin is much less liable to become irritated, while the comfort of the mother or nurse is greatly increased. The bapkins are to be burnt after use, but, as their price is moderate, their employment only involves small expenditure.

Donation.-Mr. John Eric Erichsen, F.R.C.S.Eng., F.R.S., has giren $£ 200$ to the rebuilding fund of University College IIospital.

## BRITISH MEDICAL ASSOCIATION. SUDSCRIPTIONS FOR 1888.

Subscmiptions to the Assaciation for 1888 became due on January 1st. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Branches are requested to forward their remittances to the General Secretary, $4 \geq 3$, , Strand, London. Postoffice orders should be made payable at the Whest Central District Office, High Holbern.

## (1)e Britísi) ftediad fournal.

## SATURDAY, JUNE 2\%rゥ, 1888.

## THE DEATH OF THE GERMAN EMPEROR.

To medical men the long tragedy on which the curtain fell last week at Potsdam has been one of painful but absorbing interest thronghout its progress, ant to them, berond all others, it must have been a relief to know that an end had at length come to the last and most distressing stages of that protracted agony. None can realise as they do how true it is that, in such conditions, death should be welcomed as a deliverer; and precions ass was the lessom of meomplaining submission to the inevitable so grandly tanght by the stricken Emperor, no one could have wished his hapeless suffiering prolonged. It dues not fall within our prom vince to discuss the political consequences that may follow the death of Frederick the Third; but it may not be out of place to refer to some of the medical aspects of the case, which, it is generally allowed, presented many features of exceptional interest clinically as well as pathologically.

There can be no doubt that the diagnosis was for a long time surrounded with unusual difficulty. It is true that the disease was at a very carly period judged to be malignant by tho Gernan anthorities, but we cannot help thinking that this opinion was in part rather a suspicion bred by the over-anxiety naturally engendered by the transcendent importance of the case, than a logical conclusion hawn from the olserved facts. It is inevitable that regret should now be felt by many that an operation which offered the only chance of erardicating the disease was not attempted when possibly there was yet time: hot, taking all the circumstances into account. it is diflicult to see how any other course could properly have been adopted than that which was actually chosen. The diagnosis was at best doubtful, while the immediate rish was certain, and the prospect of permanent cure, if the suspicion as to the nature of the disease proved to be well founded, rery slight. Few medical men would, we imagine, care to mudergo in their own persons a dangerous and disabling operation, unless there wis the clearest evidence of its necessity. In the present case we mulerstand that the ilhustrious patient had thoroughly made up his mind not to submit to any operation that might shorten his life or destroy his voice. This decision was altogether independent of medical advice, though it was afterwards strengthened, as was natural, by the negative results of Sir Morell Mackenzie's clinical, and Professor Virchow's pathological, examinations.

At a later period, when the warst fears semol to le con-
firmed, there were still elemeuts of uncertainty in the caso which placed it outside common experience. The risiblo bealing of ulecrated surfaces, the widesuread inflammation, the exfoliation of cartilage, and the general predominance of necrotic processes over the formation of new growth, combined to make up a clinical pieture very unlike ordinary cancer of the larymx. The microscopic evidence was contradictory, or, tu sucak more accurately. was differently interpreted by equally competent authorities. On the whole the microscope gave little help, and one valuahle practical leason taught by this case is that it is a dangerous mistake to attach much importance to its testimony so long as it is merely negative. Part of the obscurity of the case was no cloulbt due to the difliculty of making satisfactory laryngoscopic examinations, and part also, as we hinted some time ago, to the unprecedented closeness with which the clinical phenomena were studied. It is tolerably obvious that our present knowledge of laryngeal growths, both benign and malignant, their life-history and mutual relations, is by no means so perfect as could bo wished; and it is to be hoped that this historic case, the derelopment of which has becn watched with so much anxionsness, and in the sight, as it were, of the whole medical world, may stimulate observation and research on these points.

We have dealt with the case thus far in its purely scientific aspects; but there is, of course, another side to the question. Even in the lowliest hospital patient, the expediency of interference, which may prove more rapidly fatal than the disease, is not to be determined solely from the surgical standpoint. In the case of the late Empcror there were other considerations which he himself looked upon as of far greater importance, and on these rather than on a regard for his own ultimate recorer he, with the full knowledge of what he was doing. elected to take his staud. From this point of riew it is sufficient to justify the course adopted if it can be said that it was not positively unsurgical. But it only requires a glance at the ghastly records of such operations on the larynx as were here in question to convince anyone that in the present case it would hare been an expcriment of the rashest kind to hare attempted such a thing. The "expectant" treatment was adopted in accordance with the expressed wish of the patient, which, morcover, caincided with the scientific opinion of his adriser. It is no secret that the result was considered by those most directly interested-including the Emperor himseli-fully to justify the comrse that was pursued.

The severe criticism to which Sir Morell Mackenzie has been subjected in rarious quarters was 110 doubt dietated by honest conviction, but it is nost minfortumate that a professional difference should have degenerated into a mere persmal squabble, and still more deplorable that the quarrel should have been carried on to so large an extent before the public. We do not wish to offer any opinion on the matters in controversy, or to pass judgment on tho conduct and motires of the disputants. We have not the least doubt that they all did, or tried to do, what they believed to he best in the interests of the angust sufferer. It was perhaps natural that a certain amount of national feeling should hare been aroused in Germany. lut it is one of the most legitimate boasts of the healing art that it is of no particular clime or country, and narrow jealousies are altogether unworthy of a profession
which is the most truly cosmopolitan of human institutions. We earnestly lope that the world has heard the last of these unseemly disputes, and that the medical advisers of the late Emperor will agree to bury their differences in the grave of their illustrious patient, who was, above everything, a lover of peace.

## NATIONAL PENSION FUND FOR NURSES.

As esteened provincial physician writes to point out that it is generally understood that the attacks upon this fund, which have appeared in one or two quarters, are inspired by personal pique. He refers to the article which appeared in the Jocrval on May 6th last, and asks us to restore confidence by proving that the rates are not excessively high, and to publish the opinion of an independent actuary upon them. We have already done this in the Jourval (pp. 811, 81.5, and $(923)$, where it is pointed out that this fund is managed gratuitously by some of the most able and representative City tuthorities, including Lord Rothschild, Mr. Henry Hucks (iiuhs (late (iovernor of the Bank of England), Mr. E. A. Hambro and Mr. Clifford Wigram (directors of the Bank of England), Mr. Walter H. Burns (of Messrs. J. S. Morgan and Co.), Mr. Alfred de Rothschild, and Mr. Edward Rawlings, as well as by eminent medical men and hospital managers, including Sir Edmund Currie, Major Ross, M.P., Dr. Bristowe, F.R.S., Mr. Thomas Bryant, Mr. R. Bradenell Carter, and Dr. Steele, of Guy's Hospital ; that the fund commences with a bonns income of about $£ 1,000$ per anmum ; that generons donors have provicled the deposit of $£ 20,000$; that the fund is a mutnal fund, and that, assuming the rates are ligher than necessary, which they are not, the full value of each nurse's money entrusted to the managers will be returned to her when her pension falls in, because the pensions stated are the lowest amourts payable irrespective of boms additions, whilst those quoted by insurance offices are the highest sums which will be paid mader any circmmstances. Indeed, the rates are from 7 to 10 per cent. lower, as we have already pointed out, than the Post Office rates, which will slortly be raised in consequence of the conversion of Consols from 3) to $2 ?^{3}$ per cent.

The unsoundness and absurdity of the comparisons made between the Pension Fund rates and those nominally offered hy a first-class office like the Prudentia! is well proved by Mr. Gieorge King, the actuary of the fund, who has ascertained from the actuary of the Prudential that his company has been duing business in inmediate annuities at a loss, and that the whole of the amnity tables of that office are about to be revised. The truth is that those who have criticised the rates offered to murses by the managers of this fund must be either ignorant or ill-disposed. As a matter of fact, no man of business dare advise a nurse to invest her small savings in any office which undertook to do deferred amuity business at lower rates than those offered by the Pension Fund.

The statements which have been published and are heing circulated, intimating that the payments required are, from an actuarial point of view, excessive, have also been effectually refuted by Mr. King, and by independent evidence, and the comparisons therein made are based upon palnable etror. This is admirably proved in the aldress of Dr.

Bristowe to the Members of the Hospitals Association, wherein he gives the opinions and verdict of an eminent and independent actuary, to whom he had referred the Pension Fund rates. Copies of Dr. Bristowe's address may be obtained on application to the Secretary of the Fund, 38, Old Jewry, E.C.

It is gratifying to read in the published statement that the success of this fund is now assured; 120 policies have already been accepted, 326 proposals have been received, and 1,600 nurses have applied at the office for forms of proposal to fill up, whilst similar applications are being made in increasing numbers every week. We congratulate the promoters upon this success, knowing as we do that the scheme is absolutely sound, that the bona fides of its promoters is unassailable and undoubted, and that the financial strength of the National Pension Fund can be classed with that offered by the British Funds and the Bank of England.

No such opportunity can again be anticipated by women of the nursing profession of providing for themselves by reasonable and moderate payments. The merlical profession will, therefore, we are convincel, not fail to impress upon those nurses with whom they come in contact the duty of self-help, and the importance of availing themselves of the thoughtful munificence and well-devised administration which are now provided by this fund on their belalf. The feeling of indignation against the reckless and unthinking opponents of this noble undertaking, to which our correspondent gives expression, is manifesting itself in many places thronghout the country; and medical officers-honorary and resident-as well as laymen and officials, are taking opportunities of bringing the matter under the notice of the nursing staff of the institution to which they are attached. Further, the responsible managers of the great London hospitals are arranging a conference to determine how they can best help their nurses to join the fund. They could render no greater service. In some instances inquiry will show that the net emoluments of the nurses do not amount to $£ 15$ per annum, as is the case at the London Hospital, the largest in the country, owing to the extra expenses devolving upon the nurses there, each of whom has to provide herself with washing and with other things which it should be the first duty of the managing borly to provide free of cost.

We cannot believe that the London Hospital Committee, the Chairman of which is also Chairman of the General Purposes Committee of this fund, will consent to permit the present unsatisfactory and unjust arrangement to continue. We trust that it will promptly consent to pay its murses at any rate as much as is paid to those who labour in poor-law infirmaries. In any case, it is the duty, as we feel sure it will be the pleasure, of medical men and hospital managers to interest themselves in the Pension Fund, and to use their ntmost endeavours to secure that every nurse with whom they come into communication shall at once, or as speedily as possible, avail berself of the great advantages and protection which this fund affords to the whole nursing body.

THE ARMY MEDICAL RESERVE OF OFFICERS. We publish elsewhere a letter from Dr. Baines-and we do so the more readily because no one can doubt his absolute honesty of intention, while he may also be fairly considered a representative man-first and generally of those
common sense ;" if he hat said "a reserve," we would readily agree with hirn; lut as he neans this particular reserve, we can only say we are not alone in differing from him.

Dr. Jaines does not see, or refuses to admit, the extremely anomalous position in which, as we and many others capable of judging consider, the acceptance of the Warrant puts him and his fellow reservists. The argment is this: The auxiliary forces exist and serve unter certain Acts of Parliament, supplemented by Orders in Council ; what, then, we want to know anthoritatively is the exact legal position which the medical reservists occupy under these Acts? Dr. Baines signs himself "Surgeon-Major, Army Medical Reserve of Ofticers, and lst Middlesex Engineer Voluntecrs, R.E." How, we would ask, can he be both? Lnder what authority can he hold at the same time two active conmissions in Her Majesty's forces? Can he fulfil simultaneously the duties pertaining to both? How can he be reckoned an efficient volunteer, earning a capitation grant for his corps, and at the same time hold a commission rendering him liable for military service, not only not connected with his corps, but not even connected with the volunteers? Did he seek or obtain the sanction of his immediate commanding officer in joining the reserve? We will not rashly assume that these questions cannot be answered in his favour, but as ordinary laymen we demand some elucidation.

But, outside the serious, we cren sce a comical side to the dual existence assumed or claimed by the medical reservists. Suppose the medical reserve from the auxiliary forces suddenly called out and mustered, in what uniform would they appear? Why, in erery shape and shade of red, blue, green, and grey -from Surgeon-Major Joncs, as a Royal Engincer, to Sur-geon-Major Mactarish, in the full war-paint of the "Stuart" Highlanders. Such a piebald gathering would no doubt be highly successful in a hurlesque, but we ean hardly afford to have a medical reserve laughed at.

Dr. Baines declares he does not want to $\cdot$ flutter under an army rank;" nevertheless, he expresses no little satisfaction in having received "army rank with all its privileges." Would that his brethren of the regular service thought likewise! But they persist in saying that their army rank is only a mockery, a delusion, and a snare. They, of course, have to bear it about with them every day of their lives: Dr. Buines puts it on and off at civilian convenience !

Dr. Macdonald, M.P., has been electel Coroner for the new division of East Middlesex.
The Mansion Ilouse Metropolitan llospital Sunday Fund amounted on Wednesday last to rather more than fioz,000.

In August, next year, an International Congress for Dermatology and Syplilography will he held in laris. It will be presided over by MM. Ricorl and lardy. Communications may be directed to M. Feulard, IIopital St. Louis, Paria.

Sir Robert Fawlinson, K.C.P., will give a lecture in the Theatre of the Chemical Socicty, Burlington llouse, on Wednesday uext, at 4 r.M., to the College of State Nedicine; the lecture is entitled "The Rise and Progress of Sanitary Fingineering within the presen: Century."

Two of the four foreign members elected into the Royal Society this year are physiologists; Professor Phtiger, of Bonn, and Professor Julius Sachs, of Würzburg; the name of the latter is as well known in vegetable as is that of the former in animal physiology.

## THE PREVENTION OF HYDROPHOBIA.

IT a meeting of the General Committee of the Society for the Prevention of Hydrophobia and Reform of the Dog Laws, held on June [3th, it was decided, in riew of the refusal of the Government to introduce a Bill for the suppression of rabies in dogs, that the Society would at once seek to promote its own Bill, for that object, in the IIouse of Lords. It was further decided to agitate for a repeal of all exemptions from the dog tax.

## PRIZE DISTRIBUTIONS.

Tur redals and prizes to the successful students at Guy's LIospita will be distributed on Wednesday, July 4th, at 4 P.M., by Mr. Cosmo Bonsor, M1.P. The Guy's Ilospital Biennial f'estival will be held on the eveuing of the same day, at the llolhorn Restaurant; and Dr. H. P. Pye-Smith, F.R.S., will be the Chairman. Mr. Davies-Colley is the Honorary Secretary for the Festival. The prizes to the students of the Medical schonl of St. Thomas's Mospital will be distributed by Professor feorge Gabriel Stokes, D.C.L., LL.D., M.P., etc., President of the Royal Society, in the Governors' Hall, on Thursday, July 5th. The prizes to the students of Charing Cross llospital Medical School will he distributed by the Master of Trinity College, Cambridge, on Friday, June 29th, at 3.30 .

## ASSOCIATION OF FELLOWS OF THE COLLEGE OF

## SURGEONS.

The members of this Association should bear in mind that, as has already been announced, a General Meeting will be held on Thurstay, July 5th, at 2 P.m. in the Arbitration Room at the Inns of Court IIotel, Lincoln's Inn Fields, where questions of importance will be considered. This Association has, it cannot be denied, rendered good service to the cause of College reform. Withont combination there can be no progress, and the necessary combination of individual Fellows for united action has been brought about mainly by the agency of the Association of Fellows, which, on the other hand, scrupulonsly avoids discouraging indepenlent action or dictating to those who hold the diploma of Fellow. The Association has studiously pursued certain aims from the very moment of its foundation; especially has it insisted that the President should be elected by the Fellows, that a true Annual Leport be presented to the Fellows and Members at every General Mreting of Fellows and Members, and that no alterations be made in the charter or by-laws without consulting the Fellows and Members. The entrance-fee to the Association is five shillings, the annual subscription half-a-crown. Fellows who desire to join the Issociation should communicate with the Monorary Secretaries, Mr. Bruce Clarke, 46, Marley Street, or Mr. Merbert Allingham, $\because$ firospenor Street, W.

## the college of surgeons.

As might he expected, there is little excitement about the coming plection, although the withdrawal of Sir Joscph Lister has created a stir unforeseen a fortnight ago. Still, as the modifications in the charter do not come into force this year, the Fellows and Members do not deem it adrisable to offer auy opposition to the obstructive policy of the Council. There can be little doubt that proxy-roting will greatly alter the character of the annual contest at the Callege. At present, the candidates from the larger medical schools in the metropolis have still a great advautage over their rivals from small schools and from the provinces, as each large school includes a number of young men living in London,
within walking distance of the College, who are certain to support their candidate, or, in default of a candidate, they will support one from another large achool, as experience has amply proved. With proxy-voting, the elections will certainly bring about the election of a more representative Council. For no Council can be termed representative if it fails to represent what it professea to represent. The Council may professedly represent the pick of Fellows of the College; at present it really represents the the large London schools-noble institutions, no doubt, but designed for the care of their patients and the education of their atudents, and not for rule over qualified surgeons.

## BEAUTIFYING AN INSANITARY CITY.

As is proved by the sanitary report for May, Prague still enjoys the unenviablo reputation of being one of the most unhealthy cities in the world, the mortality from April 29th to June 2nd being 47.90 per mille. Small-pox and typhus and measles have, a correspondent informs us , been raging for the last five or six months, killing a great number of children among the poor. There have been numerous cases of typhoid, scarlet fever, diphtheria, and croup. A large number of cases of typhus are and have been treated in the General Hospital, and two medical officers, two medical students, and three nurses have already died from it, not less than twenty-three nurses having caught the infection. Privat-Docent Dr. Haas, Physician to the Spital des Barmherziger Bruder, and one of the most respected medical men of the city, also died lately of typhus, which he had caught at his hospital. The Town Council havedone a great deal in the way of beautifying the town, but seems entirely callous to the claims for pure water and a proper drainage. Anything more abominable, aays our correspondent, than the stenches in the streets and the filthy state of the drinking-water cannot be imagined.

CULTURE, ART, AND SCIENCE, VERSUS DIRT.
The Rey. Prebendary Billing has made some remarks before the Select Committee of the House of Lords, which is now investigating what is known as the "sweating system," as to the hygienic and moral condition of the Jewish poor in East London, and thinks there is much need for strong and continuous effort for their improvement and the care and education of their children. As to the care of the children, it is satisfactory to know that the Jews' Free School provides for more than 5,000 of them within its walls, and thus prores an immense factor in Anglicising the children of those poor people who are mostly fugitives from oppression, and tries to make them respectable members of society. It must be horne in mind that most of the Jews in East London come from countries such as Russia and Poland, where there exist no such sanitary laws as we have in England, and if their habits are not in accord with our ideas of right living, the duty of helping to reform them presses upon us the more strongly. We have been told by many members of the profession practising in East London that most of the cases of diphtheria in children come from among this alien population, a fact which should stimulate efforta for their improved condition as a hygienic precaution. Many efforts are being successfully made to elevate the physical and moral tone of the East-ender. The Rev. S. A. Barnett has long laboured in thia direction, and has demonstrated by auccessful and highly appreciated art exhibitions that Whitechapel people are capable of culture, and of receiving pleasure from good pictures and refined society. In Toynbee Hall 1,000 learners are now assembled every week, and the principles of aanitation and good living, as well as some learning, are thus instilled into some of the mass of the population, helping to take them out of the narrow ruts of a drudgery life. Science in an attractive form is also being brought home to the East-ender in other ways. The East London Natural IIstory and Microscopical Society have inaugurated a
series of "exhibition nights" at the Bow Vestry Mall, which seem to be very popular. It is also satisfactory to hear that the Bethnal Green Board has been stirred up by the action taken by the lIome Office. The Commissioners, in their report, insist npon the reorganisation of the sanitary department of the parish, and the establishment of an adequate system of inspection, and the active interference of the Metropolitan Board of Works to compel the authorities to cause the necessary repairs to dilapidated property to he executed. It may thus be hoped that the combined effects of the many efforts now being made to improve the moral and physical condition of East London will lead to improved conditions of living among the population.

CALISTHENIC EXERCISES FOR GIRLS.
More general interest ought to be felt in the importance of physical training for girls. It is not enough that their mental powers should be trained, the general laws of hygiene obeyed, and their dress arranged so as not to be harmful. It is also necessary that seientific care should be used in aiding the regular and systematic development of their bodies. Scientific calisthenics should moreover have an aim beyond this, in exercising and training the nerve-centres. The work of the drill-sergeant may suffice for getting up the muscles, but in endeavouring to train the brain by use of calisthenies, it is necessary that the teacher should produce accurate, harmonious, and graceful movements, independent of the amount of muscular exertion. Last week the Princess of Wales took part in the Centenary of the Royal Masonic School for Girls, as celebrated at the Albert IIall, when a striking feature of the ceremony was the performance of some beautiful calisthenic exercises by the girls, with free movements, marching, and drill. Calisthenic exercises, when conducted on scientific principles, are of great value in regulating the nersecentres; well co-ordinated series of movements imitated from the teacher, or produced to the word of command, tend to produce a well-knit nerve and muscular system responding with ease and gracefulness to impressions received through the eye and the ear. The tendency to asymmetry of postures, and ill-balanced positions of the head and spine, with excess of movement, is often pronounced in growing girls, especially those of hysterical temperament; such conditions may be checked and brought under control through the eye and ear. Quickness of brain action, and of the interaction of the senses and the hands, may be cultivated by exercises with balls. There is another advantage in such exercises, as the ball is thrown or caught by the child the eyes follow the moving object as it recedes or advances towards her, and thus the power of accommodating the vision is brought into play. In young and delicate girls great care is necessary in using such exercises as throw great strain upon special groups of muscles, and in the use of exercises designed to regulate brain action fatigue should be carefully avoided, and throughout the lesson the signs of weakness and extaustion should be carefully looked for, so that the strain may not be injuriously prolonged. To conduct such exercises and training with success, especially in weakly children, requires special training and skill in the teacher.

## INVALID MONARCHS.

Tire sad case of the late Emperor Frederick 111. is without parallel in modern history. The partial invalidism of several European monarchs has influenced politics in a marked manner. William 111. of England suffered from bronchitis and emplyssema, and the condition of his health was a factor in the caleulations of politicians for years before his death, which, after all, was caused by accident. Louis XIlI. Was phthisical, and his ill-health to a great extent brought about the absolute rule of Nichelieu, but the king, though he succumbed to tubercular ulceration of the largo intes-
time, lived over his forty-second birthday. Putting aside oged popes; sultans, always under tutelage whether healthy or sickly ; nominal monarchs like Louis XVII. and Napoleon II., and two Czars said, on not suflicient grounds, to hare been insane when murdered, there remains the great historical case of King Charles 11. of Spain. LIe appears to have been of weak intellect and there is some record of congenital malformations, including deficient development of the losecr jaw. This natural mental weakness, however, was certainly aggravated by bad education and by the custom of his father's Court, which kept him from the wholesome society of youths of his own age; yet his mental weakness was not so great as to prevent him from feeling much irritation at the conduct of England, France, and Germany towards his country. He succeeded to the throne in 1665 and did not die till 1700 ; in 1668 when the Treaty of Aix-la-Chapelle was signed, his death was hourly expected, but his sickly existence was protracted for thirty-two years. After his death in 1700 the war of the Spanish Succession soon followed. IIs case, had it been properly reported, would be of high clinical interest. With the sole exception of the invalidism in both instances, the reigns of Frederick I11. of Germany and C'harles I1. of Spain stood in strong contrast. A medico-historical moral may be drawn therefrom. The short reign of a wise ruler, stricken with a deadly disease, is better than the long reign of a half imbecile monarch afflicted with a chronic disorder.

DR. GEORGE JOHNSON, F.R.S.
A numerols company of ladies, members of Council, colleagues, past and present students of King's College, assembled recently in the large theatre of that institution, to witness the presentation to Dr. George Johnson, F.R.S., of his portrait, painted by Mr. Frank lloll, R.A., subscribed for by his friends and pupils on his recent retirement from the Professorship of Clinical Jledicine, after pital. Sir Joseph Lister, F.R.S., in making the presentstion behalf of the subscribers, warmly referred to Dr. Johnsont on sonal character, the advantages of his teaching to many g pertions of students, and to the valuable researches by which generaadranced medical science; and, in thanking his friends and pud for their kind testimonial, Dr. Johnson gare an interesting summary of the circumstances which had determined him to becin the study of medicine, the incidents attending the publication of bis views on some disputed points of medical practice, and other features of interest connected with his long period of work at the College and Ilospital.

## ARSENICAL TISSUES.

Mr. F. E. Mattuews, of Cooper's Hill, who for some time past has been investigating the subject of arsenic poisoning by means of cretonnes, imitation Indian muslin, etc., gires the following results of his inquiries in the Daily Telegraph. Dr. Giffard, the Medical Officer at Cooper's 11ill, had brought him some cases in Which he thought he detected symptoms of arsenic poisoning; and in every case the source of the poisoning was traced either to a cretonne or to an imitation Indian muslin, used as a decoration by the student. The samples upon which the experiments have been performed were supplied by a local tradesman. The results obtained on analysis were as follows:-liorty-four samples of cretonne have been analysed, and of these none were found absolutely free from arsenic, three contained only the rery faiutest trace, and trenty-one contained larger traces. The remaining samples all contained arsenic in poisonous quantities. Eleren of them were grouped as "very bad," and the other nine as bad and distinetly dangerous. One of the worst specimens had been examined quantitatively, and yielded an amount of arsenic equiralent to rather more than $19{ }_{2}^{1}$ grains of white arsenic $\left[\mathrm{As}_{3} \mathrm{O}_{3}\right]$
per square yarl. Mr. Matthews adds: "It is quite a common occurrence to have enough of these substances in a room which would contain sufficient arsenic to give 100 people a Iatal dose. As far as the analyses have goue at present, they do not show that any one colour is more poisonous than another, as, strange to say, the greens and blues, that would be the first suspected, have until now proved purer than reds, browns, and blacks. In the case of imitation Indian muslins, five samples only have been analysed, but they all contained arsenic in poisonous quantities." The subject is one which has repentedly been brought to official and pullic notice. The National llealth Society carried out a very full investigation of the matter, and prepared a conclusive report, drafting also a Bill for Parliament. designed to avoid these dangers; but neither legislators nor officials were prepared to assent to such a measure. Perhaps in time and by frequently reading disclosures of the existing perils to health, public opinion may be ripened.

## the medical service and the interests of the PLANTERS AND COOLIES IN BRITISH GUIANA.

We have received from "The British Guiana Planters Association" a communication enclosing further documents with reference to the recent report of the Medical Inspector. The most important of these is the Report of the Immigration Agent General on the Report of the Medical Inspector. This Report deals at great length and in much detail with the various statements contained in Dr. Williams's Report, and cannot be analysed here within a reasonable space. Its general tenour is fairly indicated by the conclusion, which is, "that the irritation to which his report has given rise is due, not only to its exaggerated and misleading character, but also to the censorious spirit in which it is written and to the absence of any recognition or sign of appreciation of the readiness on the part of proprietors of estates to comply with all reasonable requisitions, and their desire to meet the wishes of the Government, in spite of the well-known difficulties with which they have had to contend during the last few years." As will be seen by the answer given by Baron de Worms to Dr. Farquharson which is published at p. 1363 , the Colonial Secretary does not think it desirable to send a Commission of Inquiry, and has determined on remoring Dr. Williams from the office of Medical Inspector of Hospitals. It is impossible to look upon this as a satisfactory termination of the difficulty. The intemperate articles which have appeared in the Colonial press appear to show that a certain section of the planters resent all criticism, and are ready rather than tolerate it to attempt to upset the present constitution of the Medical Service of the Colony. This intemperate attitude was also evilenced by a resolution proposed by one of the members of the Combined Court to the effect that the Governor should be requested to remove Dr. Grieve from the office of Surgeon-General to the Colony because he had forwarded his report-a printed public document-to this Journal.

## MEDICINE IN CEYLON.

Tire inaugural address of the President of the Ceylon Branch of the British Medical Association has been issued as a pamphlet; in it the IIon P. D. Anthonisz, M.D., sketched the progress of medicine and surgery in Ceylon during the last five-and-forty years. He instanced the greater precision in the diagnosis of the fevers prevalent in the island, the recognition of typhoid fever and its more rational treatment, as among the greatest advances of the period. The larger part of the address, however, was occupied with an able summary of the means of preventing the spread of small-pox, cholera, and other epidemic diseases. He strongly advocated the early and complete isolation of cases of cholera, all persons who had come in contact with patients being kept under obaervation for at least ten days; he laid stress on Dr. Koch's
observation that the comma bacillus grew readily in animal but not in vegetable media, observing that the last epidemic of cholera iu Colombo continued so long as the water of wells sunk in the midst of dirty little habitations with cesspits and cattle sheds all around them, and the soil saturated with the excreta of man and beast, was drunk; but when these wells were closed, and water from unaffected localities was supplied, the disease subsided, notwithstanding that the cakes and other farinaceous food which had been cooked in and were exposed to the air of the room where the sick person was, were freely used, thus showing that the bacillus could only be cultivated in animal matter, and that it would not grow on starch or fari aceous food. The flies would other wise, he thought, hare been a source of contagion, as they settled in draina full of the discharges of the patients and the washings from the rooms, and afterwards on the food. He also stated that Dr. Koch's opinion that the only way to destroy the bacillus was drying was confirmed by the oobservation that cholera never reappeared in huts with mud floors, where the ground was thoroughly baked by lighting fires on it; in former epidemics these huts had constantly afforded instances of recrudescence. The readiness to apply the latest results of scientific research to practice is in itself a striking proof that the medical profession in Ceylon has advanced with the rest of the world; further evidence of this enterprising spirit is afforded by the appearance of the Ceylon Medical Journal, published quarterly. The fourth number of this periodical, completing the first volume, was issued in May, and contains many excellent papers on topics of general or special interest. The first paper, by Assistant-Surgeon Gratiaen, on Some Cases of Anchylostomiasis, affords interesting confirmation of Dr. Kynsey's view, that these parasites are a frequent as well as a very effective cause of severe anæmia; in all cases of anæmia in hospital the freces are examined for the ova, and when these are discovered, a calomel purge (gr. vii in divided doses) is given at night, followed by senna mixture in the morning; then 30 grains of thymol is administered and repeated in tro hours. Iron and digitalis or strophanthus are given for a week or ten days, and the freces again searched; if ova are found the treatment is repeated; recoveries from "an almost hopeless condition" are reported under this line of treatment. The proceedings of the Ceylon Branch of the British Medical Association are reported in the Ceylon Medical Journal, and it is satisfactory to learn that the first year of the journal's existence has been successful.

## DISPENSING DEATH.

A lamentable case of gross negligence was disclosed at an inquest held on Wednesday on the body of an unfortunate man named Brewster, the proprietor of a public-house at Leewisham. It seems that a certain Mr. Malcolm Cowan, who said he was a medical student at King's College IIospital, and had been a dispenser for five years, prescribed for this unfortunate man, who "did not feel well and thought his liver was out of order," a seidlitz powder with five drops of liquor strychnix. Mr. Cowan seems to have gone into a chemist's shop kept by a Mr. Henry in the district, and asked Mr. Eugene Henry, aged $2=$-who said he had been apprentice to his father for three years and his assistant for three years-to make up a draught containing the alkaline part of a seidlitz powder in a two-ounce phial, and to add five drops of liquor strychniæ. Hereupon Mr. Ienry made up a draught containing not five drops of liquor strychnix but five grains of strychnine in solution. And this probably intensely poisonous solution he labelled "the draught," acting therein upon Mr. Cowan's suggestion; he did not mark it "poisonous," neither did he make any observation to Mr. Cowan, his excuse being that he allowed his judgment to be overweighted by the order of Mr. Cowan, whom he supposed to be a medical man. All partieg are alike blameable in this tragedy, Mr. Cowan for under-
a half. The second group (Soyka's Dauerplatter) is prepared in circular flasks flattened on two sides, with cylindrical necks, filled with gelatine or agar to abont two thirds. After liquifying these substances, and whilst they are cooling, six to seven dilutions of the materials to be inoculated are prepared in beef-tea; the first to sixth dilntion is inoculated, and after solidification has taken place, whilst the flask is lying on one of its flat sides, the mouth of the neck is dipped into paraffin and hermetically closed. The colonies grow isolated and energetically. The most important point is the finding of the right dilution in order to get only a small number of colonies, which can be examined ruicroscopically. Professor Soyka claims for his method the following advantages: 1. Possession of a mnseum for demonstrations; 2 , eristence for a long time of pure, unchangeable material for inoculations; 3, possibility of fixing the duration of the latent life of the organisms; 4 , possibility of creating the most intense processes of growing, and of obscrving the same for an indefinitely long period.

## TUBERCULOUS ULCERATION OF THE VULVA,

Dr. M. Zweigbaum, of Warshan, records a case of this rare manifestation of tuberculosis in the Berliner Klin. Wochenschrift, May 2sth, 1888. The patient came under his observation in 1885, but the year before had been treated for fungous ulceration of the raginal portion of the uterus. Paquelin's cautery was used, and the patient was discharged "cured." She was thirty-two years old, and had had five children. On admission under Dr. Zweigbaum's care there was a deep, painfnl ulcer just within the left. posterior vaginal wall, forming a cavity an inch and a half long and an inch deep, together with cauliflower excrescences of the portio vaginaliz. The left labium minus was almost destroyed by ulceration, and microscopic examination of a portion revealed abundant tubercle bacilli. The apex of the right lung showed obscure signs of phthisis on auscultation and percussion. The spleen was somewhat enlarged, and the patient was feverish. In five months death ensued from exhaustion, the lungs haring shown further alterations. There had been purulent expectoration, and towards the end œdema of the lower limbs. Syphilis was positively excluded in this case, which was examined by several culleagues. Dr. 7weigbaum has carefully examined the literature of the subject, and finds only tro cases of tuberculous ulceration of the vulva recorded (Deschamps, Chiari). Taking into account the vagina and cervix uteri, twenty-nine cases of primary disease are recorded by various observers, and a short synopsis of each case is here given. The disease is by no means rare in the course of general tuberculosis, but is rare when primary. Cohnheim gives one case, Fernet four cases, of infection by coitus. Others are ascribed to examinations, syringing by nurses who are fuberculous or much in contact with tuberculous patients. Numerous cases are recorded as having occurred immediately post partum. Intercourse with phthisical patients appears also to be more or less dangerons; for cxample, by the use of the same bedclothes, closets, or baths. Auto-infection may also occur from the sputa or fæces, and thus a secoudary tuberculosis may be set up. Frerichs disputes the possibility of infection from without, and argues that it takes place by conduction from the Fallopian tubes, more rarely the uterus. The stages successively occupied by infectious material are very difficult to make out, because each organ or part successively traversed may show no trace of the cirus afterwards, the nidus being unsuitable. We do not yet know the conditions which farour the establishment of the tuberculous process in a particular part. It is probable that certain pathological processes induce a predisposition for tuberculosis, as in the lungs. Thus comments Dr. Zweigbaum on his case, which teaches us above all the ralue of cleanliness. or rathor the great dangers which attend its absence.

## SCOTLAND.

## SMALL-POX IN KILMARNOCK.

A case of small-pox has been discovered in Kilmarnock. It was that of a football player of I'reston, who came to Glasgow on Saturlay, the ?nd inst, to play in a match, but was prevented by illness, which has since been found to be due to small-pox. He was remored to hospital, and all necessary precautions were taken.

VISIT OF THE QUEEN TO GLASGOW.
THE Queex has intimated her intention of visiting Glasgow in order to inspect the International Fxhibition, on August 23rd The arrangements for the visit have not yet been made public, but it is hoped that in addition to inspecting the exhibition, IIer Majesty may consent to open the New Municipal Buildings.

## VICTORIA INFIRMARY.

At a meeting of the executive committee of the Victoria Infirmary it was intimated that subscriptions to the building fund now amounted to $£ 55,000$. Estimates for the building were considered and accupted, and it was arranged that in view of the expected visit of the Queen to Glasgow an effort should be made to get Her Majesty to lay the foundation-stone.

## CHILDREN'S FRESH-AIR FORTNIGHT.

THE committee carrying out this scheme in Glasgow have, since May 15 th, sent 776 of the neediest children to the country for a fortnight, and marked success is attending the development of the scheme. The system of boarding out the children with respectable cottagers is succeeding admirably.

## THE UNIVERSITY OF BOLOGNA.

The delegates from Glasgow at the octo-centenary of the University of Bologna were Professors Ramsay, Ferguson, and Jebb, the last-named also representing the University of Cambridge. Professor Jebb, in honour of the event, has composed a very elaborate and beautiful Greek Pindaric ode, in which he eulogises the University of Bologna for the distinguished part it played in the revival of learning, law, and medicine. At the eud of the poem he makes graceful allusion to the connection of Glasgow with Bologna-the constitution of the former University being originally drawn by Pope Nicholas V.in 1451 on the model of that of Bologna. This fact is again referred to in a Latin address of congratulation sent by the Senate of the Unirersity of Glasgow to the Rector and Senate of the University of Bologna, and which concludes thus:"Liceat igitur Unirersitati nostre, ut, felicissimum hoc nancta gratulationis offerendæ tempus, simul gaudii quod omnibus commune est, se participem esse declaret, simul proprio quodam sensu arctioris instincta necessitudinis, tanquam matri venerandæ filia caritatem atque amorem testificetur."

## IRELAND.

THE LOCAL GOVERNMENT BOARD INSPECTORSHIP.
Dr. Robert Clements, medical oficer to No. 1 Dispensary, Belfast, has been appointed an inspertor under the Local Government Board, in room of Dr. E. Thompson, resigned.

## BELFAST WATER SUPPLY.

Thene has been a very copious rainfall in the neighbourhood of Belfast during the past two or three weeks, and some dissatisfaction has been expressed at a meeting of the Water Doard that measures have not been taken to store supplics in the new reservoirs at Stoneyford. Some difficulty regarding the report of the

Local Government arbitrator is the alleged cause of this apparent neglect.

## IRISH BRANCH OF THE BRITISH MEDICAL TEMPERANCE ASSOCIATION.

THE anmual meeting of the 1rish Branch of the British Medical Temperance Association was held at the Royal College of Surgeons of Ireland on June Sth. The report read by Dr. MacDowell Cosgrave, llonorary Secretary, stated that the number of member. and associates had increased during the year. The President (Deputy Surgeon-General Gunn) expressed a wish that more students would join as associates. The object of the Association is to promote investigation of the alcohol question, which was of great importance in its relation to the health of the nation, and of especial interest to members of the medical profession and students of medicine.

DR. MAGNER.
The Local Goverument Board having declined to sanction the appointment of Dr. Magner to the Timoleague Dispensary, the County and City of Cork Medical Protective Association have passed the following resolution: "That we regard any attempt by a public board to exact any pledges, political or otherwise, from a registered medical practitioner who is a candidate for a medical appointment as an undue interference with professional rights; that we believe the requirements of a pledge unconnected with the discharge of his professional duties not to be in the interests of the sick poor, and we feel confident no honourable member of our body would enter into an engagement that would subject him to civil disabilities; and we are further of opinion thit the acceptance of office uuder such conditions would be derogatory to the profession."

Kidderminster Ambulance Classes.-Dr. J. Lionel Stretton has recently conducted ambulance classes for men and women in Kidderminster with great success. The male class, numbering 72, of whom 63 went up for examination and 67 passed, expressed their gratitude by presenting Dr. Stretton with a pair of lironze trays. The female class, numbering 40 , presented 15 candidates for examination, of whom all passed.

Large Vesical Calculus.-At a recent meeting of the St. Petersburg Medical Society, Dr. H. J. Turner showed (Vratch, No. 15,1888, p. 998) an enormous ellipsoid stone weighing ten ounces, and consisting of urates and oxalates. It was remored from the bladder of a man, aged 32 , by suprapubic operation. The patient survired twenty-six days. At the post-mortem examination both kidneys were found full of pus, and disorganised by extensire cystic degeneration.

Sanitary Surveyons and Inspectors.-At the examinations held by the Sanitary Institute this month 10 candidates presented themselves for certificates of competence as local surveyors, of whom only 2 were successful; 65 candidates presented themselves for certificates of competence as inspectors of nuisances, of whom 46 were successful.

Death from Chloroform.-The death of a woman aged 35, when under the influence of chloroform, occurred last week at St. Bartholomew's Hospital. The deceased, the wife of a bricklayer, was suffering from an abscess in the neck. Chloroform was administered with every precaution, but the woman almost immediately died.

On the occasion of the presentation of medallions and certificates to the successful pupils of the St. John Ambulance Association class at Newark Dr. F. H. Appleby was presented with a silver tea-kettle and salver, as a token of appreciation of the services rendered by him in connection with ambulance work in Newark.
We understand that Mr. IIenry A. Allbutt, of Leeds, has initiated legal proceedings with the view of compelling the General Medical Council to restore his name to the Medical Register.

## THE LATE GERMAN EMPEROR.

clinical history of the case.
The first definite symptoms of the illness which, on June 15th, deprived Germany of a truly enlightened ruler and the world of a most noble-hearted man appear to have shown themselves in January, 1887 . There is said to be a some what remote history of
cancer in the family, and for many years the late Emperor suffered from a certain delicacy of the throat. In 1886 he had an attack of measles, from which he recovered without any bad after-effects, but it was noticed that he never quite regained the ligh spirits for which he had before been remarkable. In the latter part of the sameyear he suffered from a succession of obstinate colds," Which finally culminated in such extreme and persistent
hoarseness tlat his physician in ordinary, Dr. yon Wegner, called in Dr. Carl Gerhardt, Professor of Medicine in the University of Berlin and a recognised authority on diseases of the throat. On laryngoscopic examination a small growth was seen springing from the left vocal cord and interfering with its action. This was in great part destroyed by electric cautery, and in the spring the illustrious patient was sent to Ems, where it was hoped that the waters would complete the cure. The symptoms, however,
returned with
grcater severity, and so rapidy that suspicion of its being matignant was excited. Professor Ernst von Bergmann, the leading surgeon in Berlin, and soon afterwards Professor Tobold, one of the pioneers of laryngology, were consulted, and it was agreed that an operation was desirable in order to determine the nature of the dise to perform possible, extirpate it. With this view it was proposed to perform by such further surgical measures as the circumstances of the case might seem to call for. Before carrying this plan into execution, however, the medical attendants being fully alive to the vast responsibility of their position, were anxious to have the advice of some laryngoscopic authority whose opinion would command general respect. It was unanimously decided to call in Sir (then Dr.) Morell Mackenzie, who accordingly proceeded to Berlin on May 20th. He found a sessile growth about posterior extremity and inner surface of the left rocal cord, the mobility of which was distinctly impaired. There was general congestion of the mucous membrane of the larynx. Dr. Mackenzie did not consider the clinical evidence decisise one way or other as to the character of the affection, and suggested that before any further steps were taken a portion of the growth
should be cally. ITe succeeded in thus extracting two or three fragments, which were at once submitted to P'rofessor Rudolf Virchow. That eminent pathologist haring failed to find any trace of malignant
structure in them, it was unanimously agreed that Dr Mackenzie should take the case into his own hands for a time, and should attempt to eradicate the disease without external operation. In June the Emperor (then Crown Prince) came to England, and Dr. Mackenzie removed the remaining portion of the growth. Virchow to be a "hard compressed warty growth that has started from a moderately irritated and thickened surface, and the examination of its base has not afforded the least support for the idea of a new formation penetrating inwards." The roice was at this time so much improved that, on July 14th, the l'rince, in visiting the Throat Hospital, made a little speech to the patients in which he expressed a hope that they might be cured as quickly as he had been. The larynx, however, remained somewhat irritable, and the whole throat showed a tendency to become congested on very slight provocation.
At the beginning of August there were signs of recurrence of the growth, and Dr. Mackenzie applied the electric cautery on two occasions with the result of destroying it entircly. The Prince then went to the Isle of Wight, the climate of which, however, proved too relaxing, and his throat gave him ${ }^{\text {a }}$ good deal of
trouble. Dr. Norris Wolfenden, who attended him while there, olserved a sliglat thickening of the mucous nembrane at the tack of the larynx in the formof o rilige extending horizontally from the bnse of one arytenoid car ilnge to the other. The action of the vocal cord was still somewhat defective, as it had heen in Berlin. The lracing air of Braemar was next tried, and considerable improvement took place in the local condition; the thickening jnst mentioned was absorbci, the congestion of the larynx disappeared, and the affected cord moved more frecly. Early in

September, however, there was a relapse, and on the 18th of that month, while the Prince was at Toblach in the Tyrol, Mr. Mark Hovell, who had succeeded Dr. Wolfenden, noticed a swelling half-an-inch below the left cord and parallel with its free border. This increased in size; wdema of the left aryteno-epiglottic fold supervened, and there was some constitutional disturbance. The acute symptoms passed off in a lew days, and the Prince proceeded to taly. Towards the end of October, active hyperxmis
of the whole interior of swelling interior of the larynx came on somewhat suddenly; the swelling under the left cord increased in size and began to
ulcerate, and $\Omega$ reddish projection was noticed below the right cord. Farly in November the appearances were so ominous that it was thought expedient to have further advice, and l'rofessor Leopold von Schrötter of Vienna, Dr. Moritz Schmidt of Frankfort, and Dr. (now Professor) Hermann Krause were summoned to San Remo. After consultation the diagnosis of cancer of the larynx was arrived at, and the propriety of a radical operation was discussed. The illustrious patient having fully considered the question, decided not to submit himself to any procedure involring immediate risk to life, but to take his chance with treatment of a purely palliative kind. From this point onwards the disease made steady progress, with occasional exacerbations of the symptoms owing to the intercurrent development of inflammatory processes in various parts of the larynx. These, in the to mask the essential diseame so pronounced as almost entirely of the physicians that the affection might after all prove to some of perichondritis depending on chronic laryngitis of exceptional severity.

About the end of January the glottis began to be encroached on to a serious extent, and on February 9th, tracheotomy became necessary. Professor von Bergmann was telegraphed for, but be-
fore he could reach San Remo the dyspneaa became so urgent that the operation was performed by Dr. Bramann in the presence of sir Morell Mackenzie, Dr. Krause, Dr. Schrader, and Mr. Hovell. the Prince did not rally from the effects of the operation for some to give way. It was feared that secondary formations had dereloped in the lungs; but Professor Kussmaul, who was summoned, could find no evidence of such a complication. Soon afterwards, however, Professor Waldeyer, to whom in the absence torated matters had been entrusted, pronounced the laryngeal affection to be cancerous. The tracheotomy wound was for a few days in a very unhealthy state, and there was a good areat difficulty was experienced in
finding a tuppe to fit comforthbly in the wound, and finsly Morell Mackenzie was obliged to fashion one with his hands. The illustrious patient thereupon recorered his appetite, and was able to sleep; and he regained his strength to such a degree that when his father, the Emperor William, died on March 9th he insisted on returning at once to Germany, alheugh the weather was most inclement. At Charlottenhurg the new Emperor was able for a time to discharge many of the
duties of his exalted position, and he threw himself into the con duct of State affairs with such energy that his physicians were anxions to get him away from the neighbourhood of Berlin. On April 13th the tracheotomy tube became partially blocked by a
mass pro in replacing it into its lower end, and some difficulty occurred rhage, the blood a longer one. The into the lungs and setting bronchitis. Diffuse suppuratire inflammation of the loose tissue surrounding the trachea ensued, and for some days there was considerable pyrexia with occasional rigors. Apprehensions were feroved on the was setting in, but the general condition improved on the establishment of a profuse purulent disclange which
continued more or less till the end. In May the intlammory element in the case underwent a notable abatement was a pause in the procress of the disease for two or three weeks. At this time Professor Virchow again examined sone of the discharge, without finding in it anything that to his mind was a proof of caucer. On June Sth it was obvious that a fresh complication had occurred; difficulty of swallowing came on, and it was thought that perforation into the cesophagus had taken place. On June 9th Trendelenburg's tampon the view of preventing the food from escaping into the with passage. The Enperor meanwhile Tras losing ground rery fast, and on the 13 th Sir Morell Mackenzie had to feed him with the
cesophageal tube. On the evening of the 14 th pneumonia rapidly supervened and death took place on the forenoon of the 15th.
The medical men in attendance on His Imperial Majesty at the time of his death were Sir Morell Mackenzie, who had been constantly with him siuce the beginning of February, and who has throughout had the responsible management of the case with the exception of the period immediately following the operation of tracheotomy ; Professors von Bardeleben, Senator, Leyden, and Krause; Drs.von Wegner and Schrader, and Mr. Mark Hovell. During the last few months Sir Morell Mackenzie has been on duty during the day, while Mr. Hovell has watcled at night. In addition to the above-mentioned gentlemen, the following members of the profession have at one time or another been connected with the case: Professors Gerlhardt, von Bergmann, von Schrötter, Kussmaul, Firchow, Waldeyer, Drs. von Laver, Tohold, Bramann, Moritz Schmidt, Landgraf, and Norris Wolfenden. Dr. Robert C. Myles, an American physician, also examined the late Emperor's throat on one occasion when he was in England.
The post-mortem examination, which was made on June 16th by Professor Virchow and Dr. Langerhaus, in the presence of Sir M. Mackenzie, Drs. von Wegner, von Bardeleben, von Bergmann, Waldeyer, and Bramann, and Mr. Hovell, proved that the disease was cancer complicated by suppurative inflammation of such intensity that the whole structure of the larynx was destroyed, its place being taken by a large abscess-carity. Although a summary of the results of the post-mortem examination has already appeared in the daily newspapers, we regret that we are unable to give the full report, as orders were issued at the last moment that it should not be published.
Before the necropsy was made Sir Morell Mackenzie, at the request of Prince Bismarck, drew up the following report on the case, which he presented to the new Emperor, and which was deposited among the State archives:
"In my opinion the disease from which the Emperor died was cancer. The morbid process probably commenced in the deepest tissues of the cartilaginous structures of the larynx, and they became affected at a very early date. A small growth, which was present when 1 first examined the late Emperor, was removed by me by several operations, and all the portions taken away were submitted to Professor Virchow. ITe was unable to detect in them any evidence of the existence of cancer. Examinations made at the beginning of March by Professor Waldeyer, however, led to the belief that cancer was then present. Whether the disease was originally cancerous or assumed a malignant character some months after its first appearance it is impossible to state. The fact that perichrondritis and caries of the cartilages played an active and important part in the development of the disease no doubt largely contributed to make it impossille to form a decided opinion as to its nature till quite a recent date.

Moreli Mackenzie."
To this report was appended the following statement from Mr. Hovell:-
"In so far as my observations since last August permit me to form an opinion, il concur entirely with Sir Morell Mackenzie's view.
The subjoined account, which we have received from Sir Moreli Mackeazie, of the closing events of the late Emperor's illness will be read with particular interest:-
"A few days hefore the Emperor left Charlottenburg, he began to lose ground, a tendency which continued to show itself after His Majesty arrived at Potsdam. There was, however, nothing alarming in the symptoms until the early morning of June 8th, when Professor Krause (who in the absence of Mr. Hovell was sitting up with the Emperor) ohserved that, in drinking milk, some of it passed down the trachea into the lungs, prodncing violent coughing, whilst some came out directly through the tracheal wound. During the day IIs Majesty was able to swallow solids moderately well, but in taking liquids, the greater part was lost in the way already described. It was generally agreed that a fistula had developed, but Sir Morell Mackenzie suggested the possibility that the liquid might pass directly iuto the larynx througl the epiglottis not acting properly. ${ }^{.}$He, howverer, agreed with his colleagues that in all probability ulceration had taken place through the posterior surface of the larynx into the cesophagus. On the evening of the 9 th , in the presence of Trofessors Bardelehen, Leyden, and Krause, and Generalarzt ron Wegner, Sir Morell Mackenzie inserted a tampon cannula, which was immedi-
ately inflated. After this no fluid passed down the trachea, but in drinking, nearly all the liquid taken still passed into the larynx and escaped by the side of the cannula. On the loth the condition remained unchauged, and on the following morning it was unanimously agreed that Sir Morell Mackenzie should attempt to feed the Emperor with an cesophageal tube. A tendency of the posterior wall of the trachea to bulge forwards and thus obstruct the lower orifice of the cammula having been lately noticed it was believed that this structure was rery soft, and it was thought that a false passage might easily be made. Hence it was considered that the passing of an cesophageal tube would not be unattended with danger. ${ }^{2}$ Nevertheless, the operation was carried out with perfect success, and from Monday, June 11th, till Friday, June 15th, at 6.30 A.M., His Majesty was regularly fed with condensed milk, cream, heef-tea, eggs, and whisky.
On Tuesday, in the middle of the day, it was noticed that the Emperor's breathing became obstructed, and this difficulty gradually increased, till at 7 P.M. it became serious. It had been arranged in the morning that in the evening a longer tube, which had been prepared a day or two previously, should be inserted; and Sir Morell Mackenzie intended waiting till 10 P.m. in order that he might introduce it in the presence of Professor Bardeleben, who was expected at that hour. At 9 P..м., however, the breathing became so had that Sir Morell Mackenzie found it necessary to take immediate steps, without waiting for the Professor. Before changing the tube, Sir Morell Mackenzie determined to try if he could alter the position of the cannula after inserting a pilot through the tube. The attempt was perfectly successful. On inserting the pilot it was discovered that the posterior wall of the trachea projected against the lower end of the cannula and partially covered its orifice. By tilting the cannula forwards Sir Morell Mackenzie succeeded in releasing tho lower end of the tuhe from the projecting surface of the trachea, and the breathing at once became perfectly easy.
The pulse became very quick and the breathing rapid, and on the night of Wednesday, June 13th, it was evident that pneumonia had set in. The temperature on that evening was $103^{\circ}$, whifst on the two or three previous nights it had varied between $101^{\circ}$ and $102^{\circ}$. From this date it was only a question of struggling on for a day or two, and at a quarter past eleven on Friday morning the illustrious patient passed away.
During his long and tedious illness, in which the prospect of recovery was repeatedly darkened by sudden relapses, no word of complaint ever passed his lips, no sign of impatience was ever seen. His medical attendants and faithful serrants will always cherish the recollection of his grateful acknowledgment of services which ordinary patients exact as a right."

## A CENSUS OF REGISTERED MEDICAL PRACTITIONERS IN ENGLAND <br> AND WALES.

A report has recently been issued by the Statistical Committee of the General Medical Council which contains a great deal of curious information about the distribution of medical practitioners in Englaud. A comparison has been made between the census of the profession in 1881 and in 1886, and the preseut report contains the results for England and Wales; subsequent reports will deal with Scotland and Ireland.
Number of Practitioners and Proportion to Area and Population. -The number of registered practitioners increased from 15,022 in 1881 to 16,930 in 1886 , an increase of 21.7 per cent., or 2.42 per cent. per annum ; the population only increased at the rate of 1.40 per cent. per annum, so that whereas the average number of persons to each practitioner in 1881 was 1,747 , in 1886 it had sunk to 1,662 , and consequently each practitioner had on the average 85 potential patients less than in 1881. The same fact is expressed in another way by the statement that the net increase of the profession during the quinquennium was 826 beyond what was requisite to keep pace with the population; this is equal to an annual excess of 165 a year.
Distribution in Districts.-The first point to be settled is whether this increase is general or has been contined to certain districts. For this purpose the whole country has been divided into eleven districts: (1) London ; (2) Socth-Eastern Dismact

[^90] (Sussex, IIampshire, Berkshire, and the extra-metropolitan districts of Kent and Surrey); (3) South Midland (Ilerts, Bucks, Oxfordshire. Northamptonshire, Huntingdonshire, Bedtordshire, Cambridgeshire, and the extra-metropolitan portion of 3iddlesex); (4) Easrine (Essex, Suffolk, and Norfolk); (5) Soutir-W estern
(Wilts, Dorset, Devon, Cornwall, and Somerset); (6) West Mid(Wilts, Dorset, Devon, Cornwal, and Shropshire, Staffordshire, Worcestershire, and Warwickshire) ; ( 7 ) Nontu Midland (Leicestershire, Rutlandshire, Lincolnshire, Nattinghamshire, and Derbyshire) ; (8) North-Western (Cheshire and Lancashire); (9) Yorksmine; (10) Nortuers (Durham, Northumberland, Cumberland, and Westmoreland) ; (11) Wales. In only tro of these districts did the proportion of registered practitioners to the population decrease : these were the North Midland and the Noithern; in two, the South Midand and the Eastorn, the propertion was practically unaltered, though showing a slight dincrease rarying from the remaining nine the increase was most considerable in Yorkshire, and least, curionsly enough, in the neighbouring counties of Lancashire and Cheshire.
Relative propartion of Urban and Iiural Practitioners.-In 1881 there were 6,179 registered practitioners in the twenty-eight large towns, and 8,843 in the rural districts; in 1886 there were in the towns, 7,120 ; and in the rural districts, 9,810 . The proportion of the profession ( 41.14 per cent. in 1881, and 42.06 per cent. in 1886); during the quiquennium, however, the population had been gravitating towards the towns, but not quite so fast as the medical practitioners, the average number of persons in the towns to each practitioner having been 1,360 in 1831 , and 1,284 in 1880 . The population, from 1 to 2,017 in 1881, to 1 to 1,236 in 1886.

Urban Practitioners.-Brighton enjoys the doubtful bonour of possessing more medical practitioners, in proportion to its population, than any other town in England or Wales; ont of every 727 living souls in that salubrious town, one is a duly qualified and registered practitioner of medicine. It is probably to its very reputation for salubrity that Brighton own to be stated that it is dense population of "doctors," for it ought to be stated that it is Lhe only health-resort which appeari 1 registered practitioner to Levery 939 people; this is partly owing, no doubt, to the large floating population of nemly qualified men still engaged in study. The only towns in which the proportion of practitioners to the population has notably decreased are Manchester, Bradford, Preston, and Leicester. In Liverpool, Hull, Blackburn, and Sheffield, there has been a slight decrease; in all the other towns an increase. In connection with the decrease in manchester, it ought to be noted that thationers in Salford, which however still has fewer than any other large town ( 1 to 3,908 people).

Rural Practitioners.-As has been sail above, the increase in practitioners in rural districts has been, relatively to the population, slower than in the large towns; but an examination of the table in which the figures are set outfor en thus there has strange and apparently capricious variations. Thus there has been a natable decrease iu such apparenty Derby and NorthumMiddlesex and Surrey on the one hand, and Der, and Westmoreland berland on the other. Somerset, Devon, Hants, and westmoreland, are the connties most copiously supplied; Durham, Derby, Flint, and Stafforl, the least. During the five years, practitioners seemed to have flocked into Westmoreland, Cardiganshire, the Fast Riding, and Berks; while Derbyshire, Northamptonshire, Durham, Nottinghamshire, and Worcestershire, were apparentls out of favour.

Number and Source of the Qualifications keld.-This section of the report is of little or no value, owing chielly to the deliberate choice of the Council, which, though charged with tl e duty of insertion of a name for the first time in the Register, yet refuses to make the necessary additions to the Register unless an additional fee is paid. This unjust and impolitic exaction is resented, and consequently the Medical Register remains utterly valueless as a gange of the advance of the profession in this matter of qualifications and degrees. The mean and pettifogging spirit Which dictated this patry policy would be ridichious in it had luuches for the members of the Council (as though the councillors were vestrymen!) would more thau recoup any loss which might
be incurred if the Council thus fulfilled the spirit as well as the
letter of its statutory obligations. So far as the statistics on this head can be trusted to prove anything, they tend to show that double qualifications and treble qualifications had grown more common. There also appears an increased tendency to obtain qualifications north of the Tweed.

Death-Rate and Fluctuation in the Number of Practitioners.No direct relation could be traced between the death-rate of a district and the number of practitioners in it; the death-rate did vice versa, and the report contains an expression of the opinion that there is "a limit to the requisite number of practitioners to produce the most beneficial results.

Miscellaneous Sections.-The report also contains sections on practitioners holding foreign qualifications: on practitioners in practice before 1815 (only seven altogether, of whom three had no qualification); and on the circumstances in which the profession is placed as regards the financial condition of the several divisions, so far as this is indicated by the rateable value per head of the population. This last section is unfortunately very inconclusive; the valuation for poor-rate is given for each division, and an elaborate equation is ramed, bundiscorerable the equationactors no more practical valne than a chess-problem. Each divis of the subject is fully illnstrated in carefully prepared tables, and there are three coloured plates showing in a striking manner some of the facts above embodied in figures.
The report, reflects the greatest credit on the ability and industry of the Registrar, Mr. W. J. C. Millar, and his assistants. It may be obtained, together with Minutes of the Council and its Committees from January lst, to June 1st, 1838, from Messrs. Spottiswoode \& Co., publishers to the Council, or from the office, 299, Oxford Street.
ROYAL COLLEGE OF SURGEONS OF ENGLAND. An ordinary meeting of the Council was held at the College on Thursday, June 14th. The minutes of
on May loth were read and confirmed.
ou May at the receut examinations for the diplomas of Fellow and Nember of the College were read, and it was resolred to issue the diplomas to those gentlemen whose names were contained in the respective reports.
The report of the Museum Committee was received, and it Tras resolved, as recommended therein, that the Museum Committee be anthorised to employ persons specially qualified for the duty to complete the catalogues of the birds, reptiles, amphibia, and lish in the Museum.

A report was read from the Committee on the Extension of the College Premises, which was approved and adopted by the Council.
The Committee reported that a difficulty having arisen with the occupiers of No. 45 Lincoln's Inn Fields on the question orm ond light as affected by the building of the proposed sluseum on the site of houses Nos. 8 and 9, Portugal Street, at the rear of he Nos. 43 and 4, Lincolns 10,000 on February, 153\%, it became necessary to consider an alternative scheme for the erection of New Museums on the site occupied by No. 8 , lortugal Street and No. 43, Lincoln's lnn Fields: and the Committee, having examined those plans, recommended that two Huseums should be erected on the last-named site at an approximate cast of $£ 7,500$ for the smaller museum at the back of the premises and of $£ 1,000$ for Comminer museum, with its fhat, as it wolld probably not be possible to obtain possession of the front house, No. 43, Lincoln's Inn Fields until Michaelmas Day, 1889, the construction of the smaller museum ought first to be undertaken, whereb the cost of the whole undertaking would be spread over a longer period. The Committee further recommended the Council to authorise an expenditure for instaltation of electric light in the grouns and first floors of the main huilding and basement of new library. painting and decorating old libraries, and alteration of railing to library gallery, amounting altogether to $£ 83914 \mathrm{~s}$. Td.
The following gentlemen were nominated for election in July as professors and lecturers during the forthcoming year:- Present wood, Jessop, Sutton, Cheyne, Mr. Ballance (Erasmus Wilson Lecturer), Mr. Gunn (Arris and Gale Lecturer), of whom Professors

Bryant, Jessop, and Cheyne, and Mr. Gunn are not candidates for re-election, Mr. E. Hurry Fenwick and Mr. Priestley Smith were also nominated. It was referred to a committee, consisting of Messrs. Hutchinson and Ilill, together with the President and Vice-Presidents, to consider the appointment of professors and lecturess, and to report to the Council on the nominations.
A letter was read from Mr. Marshall, l'resident of the General Medical Council, reporting, as the representative of the College, the proceedings of that Council at its late session. The letter was received and ordered to be cutered on the minutes, and the best thanks of the Council were given to Mr. Marshall for his services as the representative of the College in the General Medical Council.
A letter was read from Mr. Marshall, Iresident of the General Medical Council, forwarding a memorandum prepared by him on the disciplinary or penal porers of the Qualifying Medical Authorities, and it was resolved to refer the memorandum to a committee, consisting of Messrs. Marshall, 1lulke, and Ileath, with the President and Vice-Presidents, to report thereon to the Council.
A letter was read from Mr. C. L. Peel, forwarding a copy of a Draft Supplemental College Charter, as revised by the law officers of the Iriry Council, and requesting to be favoured with any observations which the Council of the College may have to offer thereon before it is submitted to the Lords of the Council. The Council approved of the Draft Supplemental Charter as revised by the legal advisers of the Priry Council.
A letter was read from Surgeon-General Wm. Robert Cornish, F.R.C.S., IIon. Secretary and Treasurer of the College of State Medicine, requesting, by direction of the Council of that College, that the Council of this College will assist in procuring the insertion into the Local Government Bill of a clause requiring that all medical officers of health appointed after a certain time should be required to possess a diploma in public health.

THE PAY SYSTEM IN HOSPITALS.
A discussion on a paper recently read by Mr. Burdett-Coutts, M.P., on the advisability of introducing a system of small payments by patients in our great hospitals, in viem of the present serious tinancial difficulties of these institutions, took place on Wednesday last at St. Thomas's Mospital.-Dr. Steele, medical superintendent of Guy's Hospital, said this self-help system had worked most successfully at Guy's, and he could scarcely exaggerate the importance of the moral argument in favour of it. Indiscriminate medical relief had the same evil effect on a people as indiscriminate almsgiving.-Mr. J. Nrxon, Secretary of the London Hospital, said that his hospital had recently adopted a system of inspection of and inquiry into the means of patients attending the out-patients' department, in order to prevent abuse of the charity. From this department they kept out all who could afford to pay, but it was impossible to clear the in-wards of persons who were relatively well-to-do.Prebendary Barnes thought that a Commission should be appointed to decide what steps should be taken. He believed that some degree of payment, as advocated by Mr. Burdett-Coutts, would then be recognised as a necessity.-Dr. George Stoker recommended that patients should be charged a sum proportioned to their means; this cast the onus of proving inability to pay on the patient himself, and not on the hospital.-Sir S. Waterlow said all agreed that none should receive charitable medical relief who could afford to pay for it, but he thought there should be separate institutions, one for the reception of paying patients and
 at St. Helen's, Lancashire. Of an income of $£ 1,206$, working men combined to contribute $£ 800$ by weekly payments, and he held it was equally possible for men to combine ib London for the same purpose. -Mr. II. C. Burdett said the London hospitals now derived $£ 41,000$ a year from patients' payments; but there were still between three and four thousand beds which were perforce unoccupied in London. IIe strongly urged the systematic collection of weekly subscriptions from workmen.-Dr. WALsk opposed the system as a general practitioner.-Dr. Bristowe coincided in the view of Sir S. Waterlow.-Mr. Bembett-Coutts, M.P., said the system prevailed everywhere thronghout the civilised world ex ept in England, and he denied that the pay system would injure the gencral practitioner. Any general hospital which confined itself to the poor patient, exclnding others, was adopting a form of the pay system: but one person in fonr in London received hospital treatment, and could it be maintained they were
all really destitute, and, as such, proper objects of charity? Ile asked whether hospitals were to remain pauperising institutions, dependent on the adventitious aid of charity.

ASSOCIATION INTELLIGENCE.

## COUNCIL. <br> NOTICE OF MEETING.

A meeting of the Council will be held at the Offices of the Association, No. 429, Strand (corner of Agər Street), London, on Wednesday, the 18th day of July next, at $20^{\prime}$ clock in the afternoon.

Francis Fowie, General Secretary.
June 14tli, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. ELECTION OF MEMBERS.

ANY qualified medical practitioner, not disqualified by any by-law of the Association, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.

Meetings of the Council will be held on July 18th, and October 17th, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27 th, September 26 th, and December 28th, 1888.

Candidates seeking election by a Branch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Council unless his name has been inserted in the circular summoning the meeting at which he seeks election.

Francis Fowke, General Secretary.

## GRANTS FOR SCIENTIFIC RESEARCH.

The Scientific Grants Committee of the British Medical Association desire to remind members of the profession engaged in researches for the advancement of medicine and the allied sciences, that they are empowered to receive applications for grants in aid of such research. Applications for sums to be granted at the next annual meeting should be made without delay to the General Secretary, at the office of the Association, 420, Strand, W.C. Applications must include details of the precise character and objects of the research which is proposed.

Reports of work done by the assistance of Association grants belong to the Association.
Instruments purchased by means of grants must be returned to the General Secretary on the conclusiou of the research in furtherance of which the grant was made.

## COLLECTIVE INVESTIGATION OF DISEASE.

Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Geographicat Distribution of CERTAIN Diseases, are in preparation, and will be published as soon as ready.

The following inquiry only of the first series remains open, namely, that on the Etiology of Phthisis.

A fresh inquiry into the Origin and Mode of Propagation of Epidemics of Diphtheria has been issued.

Mremoranda upon these subjects, and forms for recording obseroations, may be had on application to the Secretary of the Collective Investigation Committee, 429, Strand, IF.C.

## BRANCH MEETINGS TO BE HELD.

Borner Counties Braxch. - The twentr-first annual meeting of this Brancb will be held at Penrith on Friday, July 13th. The chair will be taken by Dr. IcLeod at 1.30 P.M. The usual election of office bearers for the year will be held. Dr. Robertson, Penrith, will deliver his presidential address. Intimations of papers for reading or communications of any kind should be sent. to the Secretary as saom as possible.-H. A. LfDiArd, 11, Lowther Street, Carlisle, Ifonorary Secretary.

Bath ann Bqistof. Braxch.-The annual meeting of the Branch will be held on Thursday. Jume 2ath, at the Royal Mineral Water Hospital, Rath, at 4.30 I'M., when G. F. Burder, M.D., will resiun the chair to Jos. Hinton, Esg.. President-elect. The lmsiness of the mecting will be to receive the report of the Council; to elect the Officers of the Branch; to transaret the necessary business; and to discuss such subjects connected with the interest of the Brancla and of the profession as may be brought before it. The Ifonorary

Secretaries will feel much oldigell if members will kimily aend theos notiee of
 paid their sutheriptions are requestal tu dosolmandere the anniversary meret pand fies order that the accounts may tu mate up before the anniversary more taries, in orter that the accomtsmer will he held ot the Granhl 1'ump loon



Cambhidgabitbe ayd hustiminovshibf Braxct.-The ammusi meeting Canskingat animinted in be held at lify on Friday, July bih. Members wishing to make colnmminations, to exlithit Ryecimeng, or
 members are requame order of proccedings.-Bushell Avsindison, lionorary for inserti.
annual menting will the helal in the Town Hall.


 1.uncheon in Town lall. byinvitation of the Presitent Mall. Agemda: 1. Address hy Cieneral Meetimg in Conmeil M, Marrintt. 2. Business. 3. President's Addrest, retiring Prafident. Mr. 11. 13. Marrinet. Donald Campleell. M.A. Viear of Eyr. On the litiology of Diphtherin. ${ }^{4}$. Rev, Collequ. London, will read Notes on formerly Chaplain arnl Consor of King © Collegr. (London), will open a diacus-
 sion on the Surgiual Treatnemt of Whpyrna. T. W. Cresse, Firh): Ohscure Cace will take part in the diachasion. B. F. Hatemanh. A.D. (Norw. M. R.: C.MI. (Eye), of CEdematons Larsmpitis: Tracheutomy, T. M. Dickman, C.S. (Norwich), will will read Notes on I'lacenta I'ravia. 9. The Mresident will show a Case illusreard Notes of a Cabe of Ovariotany. 9. The President will 10 . Mr. G. B. Mear rating the Spoutaneous Cure of an Lixtensive Xecrus. 10 . Mr. (Viwnuarket): Farts wating to the Present Position of the will read a Case of (Newnarket): Farts ma11. Hickman. M.B., C.M. (kye), will read a Case of tion to Bone-setting. 11. M. Bickom Commudication between Liver and lang. Phthisis conphicated whina ristutons cometion of Ancient Documents, etc. in $5.30 \mathrm{P} . \mathrm{m}$. . Fisit to Fir Clurch and insprementhers in the Chorch. 6P.3.. Tea Festry. The Vicar of kye will meet the menlmetel tickets. 5s. each.-W. A. (with Hot Fish, Joints. ete.) at White lion M, Jorwich; C. K. Abuott, Brain BLLtatens, M.D. Ipswich;
 Metropolitax Coustirs Brace- Jhestaurant on Wednesdar, June gith. Branch will he held at the Homihnr J. Durhanı, Esq., F.R.C.S. ; President1888, at 6.30 P.M. President, Arthnr . elect. C. Brodie Sewell, M.D. An alldress will At 7 P.M. precisely the members will dine 6onether exclusive of wine.-G EordiE, MI.D., Presilent, in the chair: tickets, 7s. 6d, each. exith F.1R.C.S. Fd., 24,Queta Ausfas, M.B.. 69, Connanght Street,
Nortr of Irflan Braxch. -The annmal meeting of this Branch will be
 1. To receive the Secretsry's report and the Ireasirers So elect two members ypar. 2. To elect offie-hearers fon the entiog year. 3. To elect the and also the as representative of the Branh on the Commoin of the Assochat President (1)r as representives on the P'arliamentary Bills Cmmitiee. 4. The Presidemt (ient represematives) will deliver an Adiress. 5. H). O'Neill will show ated an fo noerated on fur Extensive Disease of Font, and alao A Patient operated ond nperated on for Cl antate, and will real motes of earls case. 6. Dr W. A. Mrkeown will show Cleft Palate, and will rean motes of earigation in the Jixtraction of Cataract. Sl a New Apparatus for Intra-ocular inficmile Cataract has befu extracted withom will slso show some cased in which Senide catit on whom he recently performed lridectomy. F. Mr. Fagall will show al hatient an Portion of Bowel, the Seat of Resection of the Wrist-Joint, Ife will alsoahowatretion, and give notes of the Cancorous Stricture rebuwed for intestinal obstrachan, and hing some feature case; and a fortion of the Saphena heill remord and instruments employed for of pithological interest. Dr. Byers will show the listruments ehe Method of the Eleetrical Treatment of Fibroid Tumnurs of the same evening at $7.30 \mathrm{P} . \mathrm{M}$. in Apostoli. The anumal dinner will the beld on the same ereming at W. Byers, Ahe Roval Avenue Jntel: tickets, s. Bi. (exclusive
M.D., Lower Cresceut, Belfast, Honorary Secretary

Nobta Wales Rrascit. - The ammal meeting will be held at Dolgelly on or bout July loth. Memters having any communications to briog before the meeting arc regneted to intimate lis same beforv Jume 30th to W. JurfisMonks, Honorary Secertarv, Durtmadoe.

Vorthery Confthes nf Scothand Branch. -The annual meeting of this Branch will be held at the Spa Hotel. Strathpeffer, on Tharsiay. July sthe st $1.50 \mathrm{p} . \mathrm{M}$. Hapers will be read liy 1)r. Furtescut Fox, Strathieffer, Cases of Fent gection, and Dr. Leslie 11. Milne. Forre. Notew Nathe Mackar, M.D.. Monorary A visit will also tu
Seccretary, EIgin.

Reanisg and Uppfr Tinampy Brachi. - The ammal mecting of this Branch fill he held in the Libmary of the loynl herkshire hospital, Headme. on wr will be hela intho at 4.15 P . as. The chair will he taken ly the Presulent (br neaday, Jnly 1th, at tis paco C. H. Tench), who will introduce the Prestake the chair. Members willing Holderness. Fisq., of Windsor), who will then take the interest are requested to to read short papers or bring forward cascs of chmital ing. The annual dinner communicate with the Honorary Secretary withont lhe Queen's Hotel. Resding

 from the honorary secrctary, on or helwre sarmery Secretary.
mecting of this Bmanch will the South.Wfatern Bhanch. - The amman mector on Tuesiay. June 2bth, held at the beron and Kxeter Hospital, Fater. F.j.C.S. Notices of motion noder the presidency of Br. Jntimated to the Hommary Seeretary withont or communications to be intimatent of me mhers will inform the Honorirs delay, and it will facilitate arringements if members whent at the noeting. The
folloming motion was pasem at the Conncil Mpring no May end:- That inat
 fuch as the annual meetmy ensouraging the distrin muetings. the business in ecreation, and with a view of enfouraging bereinlent's adelres. The husiness he anmal methig shatl be confined to the fresimen: with notes and the of the Branch. the exhihition of casma or cif kprohmane, Exeter, lionorary annmal dinuer.
Secretary.
SoyTH Way.Fa and Moswoth Brancht. The cighteenth annual meating of thia Brauch will he hede ar the Infirmary. Cardiff. on Wedneslay. June 2;ith.

 Darifs, M.B., Swansed, honorary Secretarits.

Simopsitif: and Min-Wales libaxchs-The annual gemeral meming of the


 guested

Whst Somerami Brascit. -The anmual meeting of this Branch will be held
 Abrallam Colles, Esq., M.D.. Yresident-elect, "itl take the ber at 6 oolock vacated by Fisward Stpphens, Esq. Making a communication to the raeet. Members desirous of realling a paper or mak hores Secretary ; they are alon ing are requested to give early notice to the notice of their intentiou of alteuling the - W. M. Kelly, M.D., Honorary Secretary.
 a in the Maseum of the Yorkshire Phinsophical Society st York on Wed egay June 2th, at 3 P.M., when the following business will be tranactext mesdidres iv the Jrewident-elect. 2. Election of officers. 3. Addition to rules. And the following papers real:-br. Churton: A Case of sirriun inglylorua with lixcessive Vumiting ; repeated Saliuc Transfasimas. Dr. Jamea liduck Hewetsom; Jecent Precautions in Cataract Operations. Dr. Jame Mraithwaite: The Treatment of liscentiomal Ca-es of letroflexion of the Hierne Braithwaite: The Ireament Elestrolysi- in the Treatment of Lteribe Disaze. Mir. A. W. Mayo Ronson: Elystrix of the Tungue. Mr. Draper: Supiuratiah 3Ir. Atkinsou: Ichthyesis Ovary: Ovariotomy; Recovery, Dr
Larynreal Ňeuroses.-Arthír Jachson, Secretary, Sheflield.
MIDLAND BRANCII
The annual meeting was held at the Masonic Ifall, Nottingham, on Thursday, June 14th, under the presidency of Mr. Hathebly About fifty nuembers were present.

Officers and Council.-Mr. Sympon and Dr. Webh were clected as the Branch representatives on the General Conncil. In the Branch Council Dr. Pratt and Mr. Frankliu replaced Mr. Willan and Dr. Pope for Leicestershire, and Mr. Shipman and Dr. Fawsett replaced Dr. Hlarrison and Mr. Pilden for Lincolnshire. Mr. Willan (Nelton Mowbray) was chosen as President-elect. The IIonorary Secretaries and Treasurers were re-elected, with the exception of Mr. llodges, who retires, and is replaced by Dr. Pope (Leicest+r).

Neư Members.-Mr. W. 11. B. Brook, Mr. 11. Child, Mr. G. N. Robins, Mr. C. Bernard Daiton, Dr. Lamb, Dr. l'egler, Mr. J. F. Finight, and Dr. Rothera were elected members of the Branch.

Alteration of Rule.-On the proposition of Mr. Matherle, seconded by Dr. llasoforn, hute io was amended as follows, uamely. "The Vice-presidents shall be elected annually for each county not already represented by tor reselection." elect, and they slall not be eligible formey gave an address on President's Addre
Abdominal Surgery wing were brought before the meeting:-Papers.-The following Were brough on the Alleged Origin of l'rofessor EbGar $M$. Croonshank, Case of Dialuetes, probably of Trammatic Origin." Mr. R. C. Chichex. "New Form of Bone Forcels for Sequestrotomy:" 11r. George Elder, "Remarks nu Cases of leritonitis Trented by Ablominal Section." Dr. I1. Hasiveonl), "The lnfluence of Position on Cardiac Myrmurs, and on the Treatment of Heart Disease."

Iuncheon and Dimer. - The Presilent entertained the members at luncheon, and after the meeting about twenty-two dine ${ }^{-\frac{1}{2} \text { at the Masonic Mall. }}$

SOUTII MHLAND BRINCLI
Tue anumal moting was held at bletchley on Jume T tho under the presideney of Mr. II. Veases, hiriy-two members and visitors heing present, who were entertainel at luncheon by the l'resident before the meeting.

Sew Members--5ight mentlenuen were proposed and electerl members of the Asociation and branch, namels. Arthur Lacas, Wohurn: T. G. l'arrott, Ayleshury (branch only: J. II. Idoyde.


Whitfleh, Northampton ; A. L. Godfrey and A. J. Weatherley, The Intrmary, Northampton.

Blection of Officers. Mr. Crew, Higham Ferrers, was appointed I'resident for $1 \times \sim 9-90$; Dr. Bryan was phaced on the Committee of Mamagement in the room of M1. Crew, all the other members of the Committee, as well as the Hon. Treasurer and Hon. Secretary, being re-elected; Mr. J. Ilughes llemming, Kimbolton, was uppointed representative of the Branch on the General Council and on the larliamentary Bills Committee.
Combined Meeting.-The Cambs and IIunts Branch proposed a rombined meeting this year, but declined to meet at Bletchley as bing an inconvenient place, suggesting at the same time that a united gathering of the two Branches be held in the near future aither at Bedford or l'eterborough. a The matter was referred to the Committee of Management.

Dinations to British Medical Benevolent Fund and Royal Medical Benerolent College.-The sum of $£ 5$ from the Branch funds was roted, to be equally divided between these two institutions.

Lunacy Acts Amendment Bill.-- Ifter some discussion the following resolution was carried, on the motion of the Branch representative, and the Secretary was directed to convey the sense of the meeting to the Chairman of the Parliamentary Bills Com-mittee:-(1)"That the South Midland Branch in annual meeting assernbled, having full confidence in the members of the Parliamentary Bills Committee, and believing that their efforts are directed to the benefit of the medical profession in general, and that of the British Medical Association in particular, endorses their action in the matter of the Luuacy Acts Amendment Bill, 1838, and hereby pledges itself to try aud secure the support of the local members to the same in its passage through Parliament."

Autumnal and Annual Meetings.- It was resolved that the autumnal meeting be held at Oundle on October 4th ; and that the next annual meeting take place at Northampton.
President's Aldress.-The Prestdent delivered a short extempore address, alluding in the course of it to his having previously occupied the presidential chair.

Papers and Cases.-Mr. Milligan read a case of Strangulated Umbilical Hernia, with recovery after operation for radical cure, and exhibited a large mass of omentum he had removed from the sac.-Dr. Goldsmith read a short paper on a Question as to the Etiology ef some Nervous Diseases of Children, suggesting the idea of instability of the nerrous system in such cases, arising from great inequality in the ages of the parents.-Many members joine in the discussion, pointing out the possibility of a lyssterical element, of mimicry, and of the influence produced by syphilitic taint and alcoholism.-Dr. Golosmith, in his reply, stated that in none of his cases was there a trace of syphilis or alco-holism.-Dr. Jones read a paper on Physical Indications in Heart Affections, dwelling particularly on diagnosis and treatment. Under the latter head, he said that the value of rest was not to be over-rated, and recommended in certain cases the hypodermic injection of liquor strychniæ, in two-minim doses.-Mr. Buls read in interesting case of Obscure Abdominal Tumour: Abdominal Section: Recovery, He mentioned the great difficulty of diagnosis in the case. In this and Mr. Milligan's case, the members Jliscussed the question of the danger or otherwise of opening the abdomen; also the use of antiseptics in such operations.- Mr. Percival related two cases of Removal of Tumour; one of Sarcoma in the parotid region, on which three successive operations had lieen performed; the other a case of Fibro-Sarcoma in the popliteal space. In the latter case, the connections of the diseased mass with the blood-vessels and nerves running through it were of the most intimate character.

Fotes of Thanks.-Cordial votes of thanks were passed to the retiring lresident for his services during the past year; to the President for his address and his conduct in the chair, and also for his hospitality; and to the readers of papers,

Surgical Instruments.-A large selection of surgical instruments Was displajed by Messrs. Lynch and Co. of London ; a case of Mypodermic Syringe and Solutions, by Messrs. Green and Co.; Eclectic Medicines, by Messrs. Hockin, Wilson, and Co.; and various Eisences, by the "Viking" lood Company.

Tea and coffee were served, and a successful meeting brought to a close.

The death is announced, at the early age of 37 , of Dr, Ross, for eleven years the highly respected Medical Officer for Blackpool.

## SOUTIIERN BRANCH.

The fifteeuth annual meeting of this Branch took place at the Grosvenor Hotel, Southsea, on Thursday, Juue 15th, when there was a large attendance of members. Before the commencement of the business, the Presideut-Elect, Mr. 11. Burford Norman, entertained those present at luncheon. At the general metting which followed the chair was taken by Surgeon-General Sir Thomas bongmore, C.B., F.R.C.S., of Netley.

Election of Officers.-Dr. J. Ward Cousins (Hon. Secretary) having read the minutes of the last meeting, Dr. J. Watson, of Southsea, mored that the following gentlemen, nominated by the respective districts, should be elected as officers of the Branch for the ensuing year, namely :- Vice-Presidents: Brigade-Surgeon C. 1I. Godwin, Netley; and Dr. 11. P. Blackmore, Salisbury. Wembers of Council: Dr. W. 11. Axford, Southsea; Dr. C. G. Beaumout, Shirley; Mr. F. R. F. Darke, Salisbury ; Dr. J. Neal, Sandown; Mr. G. H. Snowden, Mr. 11. Hemsted. Dr. Ward Cousins was mnanimously re-elected Honorary Secretary and Treasurer. The motion was seconded and carried.

Representative on General Council, etc.-Dr. Nicholson, of Broadmoor, was re-elected representative of the Branch on the Parliamentary Bills Committee, and Drs. Trend, of Southampton, and J. Ward Cousins were again chosen representatives on the Council of the Association.

The Late Professor de Chaumont.-Dr. Trend moved a resolution deeply deploring the death of their much beloved member and rice-president, the late Professor de Chaumont, whose singularly high intellectnal powers, versatility of genius, and practical skill were blended with a keen sense of humour, which made him in any society a host in himself, and recording deep sympathy with Mrs. de Chaumout in her bereavement.-Dr. AxFord seconded the motion.

Cases, etc.-Brigade-Surgeon Harman, of Winchester, gave particulars of the rapid healing of a gunshot wound. A small revolver accidentally went off, and the left hand was pierced by the bullet.-Dr. Ward Cousiss also mentioned a new apparatus of his invention for dealing with of the lower jaw.

The New President.-The President then left the chair, and introduced his successor, Mr. Burford Nozman.

Next Meeting.-It was resolved on the motion of Brigade-Surgeon Godwin, seconded by Dr. Kesly, that the meeting of 1889 should take place at Salisbury.

The President's -1ddress,-The President then delivered an address on the progress of the medical profession during his own time, and from his own standpoint of ohservation. The British, originally the Pr vincial, Medical Association was founded in 1832 in the city of Worcester, and he recollected something about it as early as 1836, when a Brauch was formed in the district of West Somerset, where his lot theu lay. The Association then published an annual rolume of transactions, but had no journal. From being provincial the Association became British, and its progress had been very marked. In welding into one fellowship the members of their profession scattered throughout the whole British Empire and its dependencies, it had added immensely to the influence of the profession both socially and politically, while doing much to promote science and practical medicine. His own connection with the protession dated from Michaelmas, 1835. When he began his apprenticeship the stethoscope was but little used except by hospital physicians and newly educated men just fresh from the schools. About that time, when Dr. Hope was making his elaborate studies in heart disease, aided by its nse, the editor of a then influential medical review nicknamed it the "conjuring stick." Auesthetics were not known, and sanitary science almost unthought of. He did not think there was mnch cause to complain of the moral tone of the profession or the lack of kindly feeling and mutual respect of its members. In that large town he believed there were scarcely auy two men who were not on friendly terms with each other, and ready to render mutual assistance. The local hospital had recently undergone great and important alterations well calculated to promote its efficiency, both in the treatment of diseases and as an educational institution.

Fote of Thanks to President.-Sir Tromas Lovgmore, in moving a rote of thanks to the President for his address, said he recollected a physician of one of the large London hospitals carrying a stethoscope round the wards as a bouquet-holder for the purpose of depreciating and ridiculing the instrument.Dr. Kealy seconded the resolution, which was carried, and the President, in reply, said that it was a great satisfaction to

Dr. Frederick loateman, Dr. C. R. Drysciale, and Dr. C. W. Suckling will take part in the discussion.
On the third day of the sectional proceedings, the Value of Iuhalations in the Treatment of Jung Disease is set down for discussion, to be opened by Ir. C. Theorhre Williams. The following gentlemen hare already indicated their intention to engage in this discussion: Dr. Burney Yeo. Dr. W. WV. Irelamd, Dr. C. F. Kinight, Dr. J. A. Lindeay, Dr. J. G. Sinclair Coghill, and Dr. E. Markham skerritt.

Drs. Byrom Bramwell and Milne Murray will give a demonstration of their Method of Craphically Recording the Exact Time Relations of Cardiac Sounds and Dlurmurs.

The following papers have been promised.
Cocrinl, J. G. S. MLII, Vent nor. The Tratment of Phthisical Pstexia. Cobrmil, d. .i. M. M. A cate of subphrenic Abzerss.
CoLplaxp, Fislar,
Drainage.
Drainage.
Frew, W., M.D., Kilmarnock. Prevalence of Cerebro-spinal Fever in Scotland. Gneexe, G. E. F. L.K.Q.C.P. A Yote on allecent Epilemic nf Erysipelas.
IIANDEORD, H., M.D. The lufnence amd Position on Cardiac Murmurs aut the
Condition of the lifart in Anamia (Chlorosis),
Itabrisox, A. J., M.B. Further liesearches on the Treatment of Tinea Tonfarans. Hilustrated with photograpls.
Joses, A. Orlando. M.B. A New Remedy for Ifeart Disease. Jowes, A. Orlando. N. Harrogate. Neurasthenia, True and Foa
Mirtle, A.S..
Stranasi, Jolm, M.D. (Title not receired.)
 SECHLIAG, C. W
Brassworkers.
Tonosy, J. K., M.B. Knst, Arrican Fever, with special reference to Climatic
Conditions. Methorls of Studving anal Fxamining the Nerse WarNer, Francis, M.D. 1. Methons ot Chronic Menangitis.
system. ${ }^{2}$ I Imbecilit $S$ in Childreu froman, Dr. Hussell Reynolds, and Dr.
W. Pavy have also intimated their intention to take part in the proceedings of the Section.

## Section B.-Sungert. <br> Chemistry Class Room.

B. Surgery- - President, George Buchanan, M.D. Iice-Prestdents, James Dunlnp, ML.D.; Charles Robert Bell Keetley, F.R.C.S. Honorary Secretaries, David Teilson Knox. M.B., 8, ludia Street, Glasgor: Walter I'Je, F.R.C.S., 4, Sackrille Street, Piccadilly, London, W.

As already announced, in this Section discussions have been arranged for on the following subjects:

1. The Surgieal Treatment of Abseess of the Lnng and of Empyema. To be introduced and supported by Mr. T. Pridgin Teale (Leeds), Sir Spencer Wells (Londlon), Mr. A. Pearce Gould (London), 3r. R. J. Godlee (London), Dr. J. Ward Cousins, Portemouth, and Mr. W. Thomas (Birmingham).
$\therefore$ The Operative Treatment of Club-Foot. To be introluced and supported hy Sir William Stokes (Dublin), Mr. E. Lund (Manchester), Dr. Alexander Ogston (Aberdeen), Mr. R. W. Parker (London), Mr. E. M. Little (London), Mr. Joha Chiene (Edinburgh), Mr. W. J. Walsham (London), and others.

The following papers have also been promised. Bentos, Samuel, Esq. London. On the Treatment of Stri
by Flectrolysis. Brigop, E. Stanmore, Esq. Manchester. Sof Division of the Bones.
Apparatus for fixing the Lower Limbs aft Explanation of the way in which

Calculi in the Male (rimary Bladace some but Tustrment.
Sound, with a deseription of a New Form of that instrum
Browne, Lennox, Esq., London. Tubage of the Larsinx.

Clark, Sir Andrew, Lobqu. Ioudon. Proslatic Jbscessand its Consequences. Cousins, J. Wart, M.i). Portsmouth. (1) Lew Aphantis for vig and other Fractures of Lower
Blader Operations
Fenwick, E. ILarry. Isq. London. Notes Irom the Experience ol too Cases of Fentick, Stricture of the L'rethri.
Flemisg, W. J.. M.D.. Glasgow. i. On Continnons Extension in \$plnal Cura-
FLemisg, W. Jine Treatment of Periueal fistula.
 IIARRISOB Berths, relative to the Ireatmeut of some Surgical Iujuries aut Diseases at Sea (with moriels).
eases at sea (with mmels. Plastic Imputations of the Font.
KifeTher. C. B., Esq.. Borminghmm. Intammuatory Disease of the Seminal
LLeyD, Jordan, Lesicles.
Ves. MClxTPRE
the Bonly. Owen, Fimund. Fisq. London. A C.
I.ocalisation; Treghininy : Iecovers. Prarse, T. Frelerick. Esq., K. W.. Louken. RAKE, Beaven, IL.D. Trinidad. The Falte of Neres of Rake, based on One II undred Cases.
Textos, J. Crawfonl. Fisq.. M.D.. Ghasiow, A Case of Severe Deformizy of

Lower Lip restored Kotu, Bernari, Esq-. Ling Cases of Lateral Curvature of the Epine.

Sbirit, Noble, Fisq. Demonstration of the Eciluction of Fractured Vertelrar. and the application of Apparatus to ('ontrol the Sjuate.
Stokfs, Sir William, Dublin. Modification of Grittis Areputation: and will show Casts of Stmmus.
TA1T, Lawson. Esq.. Birmingham. A Secomal Srifies of One Thousamil Cousecutive Andominal suctiona.
THovar, W'm., Ésq., M.1)., Detble. On Excision of the Knee-joint.


 St'rufulous Disense.

## Section C.-Onstetric Memene.

 Medical Jurisprudence Class Room.C. Onstetric Medicine.-- Iresident, Thomas More Madden, M.D. Fice-Presidents, William Leishman, M.D.; J. Halliday Croom, M.D. Honorary Secretaries, William Walter, M.D., 20, st. John Street, Manclester: W, L, Reid, M.D., 7, Royal Crescent, Glasgow.
The following two special discussions will take place:-

1. On Intra-nterine Death ; its Pathology and l'reventive Treatment. To be opened by Professor Supson. The following gentlemen will take part in the discussion:-Drs. R. Barnes, Graily Hewitt, More Madden, W. O. Priestley:
2. On Obstructive Dysmenorrhoea and Sterility. To he opened by Dr. IIalliday Croom. The following gentlemen will take part in the discussion:-Drs, Aveling, Bantock, F. Larnes, R. Larnes, Cranny, Duke, Edis, Graily IIewitt. Macan, More Madden, Professor Stephenson, J. W. Taylor, IV. Walter,

Dr. Samuel Sloan (Glasgow) will show his Antero-posterior Compression Forceps, and will explain their use in Flat Pelres.

Wm. Walter, M.D., Manchester, will exhibit his instruments for Secnring the Broad Ligaments during Extirpation of the Uterus per Vaginam.

The following papers are promised.
AFRLING, J., M.D. The Treatment of U'terice Tumours liv Electricity
Haryes, R., M.D. ADalogies betmeen Menstruation anll Gestation and Puerpery in their Physiolouical aud Pathological IRelatious.
CАmehox. Murdoch, M.D., Glasgow. I. On Cæssrean Spction, with Notes of a Camerox, Murdoch, M. On the Thermostatic Nurse, with Cases.
Drem, A., F.h.Q.C.P., Dublin. On the Rapid Expansion of the Cervical Canal by a New Method.
Hart, D. Berry, M.D.. Elinburgh. SuccessfuI Case of Casarean Section (Porro's modification).
ImLach, Francis, M.D., Liverpont. The Function of Anamia in Gyngealogy. Kкysfur, Iugh, M.D., Dublin. Sotes on the Treitment of Lacerations of the Cervix Üleri.
MadDen, More, M.D., Dublin. On the Causes ani Treatment of Prendocyesis, Routh, A., M.D. Headaches of Pelvic Origin.
Sperphesison, William, M.D., Aterdeen. On the Influence of Permanganate of Potass on Merstrnation.
Talt, Lawson, Esq., Birmingham. The Treat nent of Uterine Myoma.

## Section D.-Public Medicine. <br> Greek Class Rom.

D. Peblig Medicine.- President, Henry Duncan Littlejohn, M.D. Vice-Presidents, James Christie, M.D.; D. Page, M, D. Honorary Secretaries, Ebenezer Duncan, M.D., 4, Royal Crescent, Crosshill, Glasgow ; John C. McYail, M.D., Jlolmhead, Kilmarnock.
I. Sanitary Legislation. This discussion will be introduced by the Opening Address of the President of the Section.
2. The Communicable Diseases Common to Man and Animals, and their Relationships. Discussion to be opened on the second day of the sectional meetings by George Fleming, LL.D., F,R.C.Y.S., Chief of the Veterinary Department of the Army. Professor Edgar Crookshank, King's College, will take part in the discussion.
3. The Disposal of Sewage (a) in Large Towns; (b) in Small Towns and Country Districts, Discussiou will be opened on the third day by Dr. James B. Russell, Medical Officer of Health, Glasgow.
The following papers are promised.
Drtsdalp, Charles R., M. D. I. On Fndigence as a Main Cause of High Deathrates. 2. The Berlin and I'arisian Sewage Farms.
HIME, T. W., M.B. Milk Scarlet Fever.
herr, Norman. M.D. Some Lisks of Sanitation.
Nasnyth, T. G., F.R.S. A Report on the Chemical and Biological Conditions of the Air of Coal Mines, together with Mortality Statistics of a Mining District, being a report to the Scientific Graats Comanittee of the British Medi-
(al Association.
Sivpson. - M.D., Mefical Officer of Ifealth, Caicuita, - On Cholera and ita $F$ sstering Conditions in the Endemic Area.
Suruerland. J. Francis, M.D. National Sanatoria.

## Section E.-Pspchology.

Natural History Class Raon.
E. Psycholony,-President, James C. llowden, M.D. Tice-Presidents, James Rutherford, M.D.: Julins Mickle, M.D. IIunorary Secretaries, A. R. Urquhart, M.D., Murray House, Perth; Alex. Newington, M.D., Ticehurst, Sussex.

Dr. J. C. Howden, the President of the Section, will deliver au Address.
Dr, C, M. Campbell will introduce a discussion on the Uniform Recording of Port-Mortem Examinations in Asylum Reports.
Drs. A. Yellowlees and A. Campbell Clark will introduce the following subject: The Sexual and Reproductive Functions-Normal and Yerverted-in Relation to Insauity, 1, Menstrnation: its Commencement, Irregularities, and Cessation; 2. The Sexual Instinct and its Abuse; 3. Pregnancy, Parturition, the J'uerperal Period, and Lactation.
Dr. Clouston will initiate a discussion on the Principle of Construction and Arrangement of an Asylum for Private I'atients of the Richer Classes.
The following have promised papers: Drs. Savage, Hack Tuke, Fletcher Beach, Charles Mercier, W., J. Mickle, and Turnbull.

## Section F.-Anatomy and Physiology. Anctomy Class Room.

F. Anatomy and Physiology.-President, John Cleland, M.D., LL.D., F.R.S. Fice-Presidents, R. J. Anderson, M.D.; Henry Edward Clark, F.F.P.S.G. Honorary Secretaries, John Barlow, M.D., 27. Elmbank Crescent, Glasgow; Charles Barrett Lockwood, F.R.C.S., 19, Upper Derkeley Street, Portman Square, W.
C. B. Lockwood, F.R.C.S., will introduce a discussion on the Teaching of Anatomy; and will show sections illustrating the Developinent of the Organs of Circulation and Respiration.

The following papers are promised.
Brooks, Henry St. John, M.D. On the Morylhology of the Epitrochleo-anconens or Anconeus Sextus (Gruber).
Brown, J. Macdonald, M.B., F.R.C.S. The Construction of the Cardiac Ventricles in the Mammalia.
Clicles in the Mammahia. Professor, M.D., F.R.S. On the Nature of Certain Forms of Douhle CleLasd, Profe
Monstrosity.
Collier, Mark P. Maso, M.B., F.R.C.S. On the Mechanism of the Heart and Pulse.
Lave, W. Arbuthnot, M.B., F.R.C.S. The Influence Produced by Excessive Struin upon Muscles and Liqaments (to lic illustrated by specimens).
PATERsor. A. M., M.D. Co the Position of the Vertelarate Limb, considered in the Light of its Inuervation and Develop nont.

## Section G.-Pathology. <br> Law Class Room.

G. Pathology.-President, Sir William Aitken, M.D., LL.D., F.R.S. Vice-Presidents, Alexander Davidson, M.D.; Joseph Coats, M.D.; Charles Roy, 11.D., F.R.S. Honorary Secretaries, G. Sims Woodhead, M.D., 6, Marchhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34 , Lerkeley Terrace, Glasgow.

Arrangements are being made to hold a discussion on Cancer originating apart from Epitnelial Structures, in which Mr, Lawson Tait (Birmingham), Dr. Joseph Coats, Dr. John Carlyle (Greenock), and others are expected to take part.

The following papers have been promised.
Bruce, Alex., M B., F.R.C.P.Edia. On Disseminated Sclerosis.
COATs. Joseph, M.D. On a Case of Lipemia in Diahetes, with Suggestions as CosTs. Joseph, M.D. On
to the Source of the Fat.
to the source of the Fat.
Croome, G. F., M.D... Birmingham. (Title not received.)
Gurres, E. Hyla, M.D., Bournemouth. Notes on the Pathology of a case of P'seudohypertrophic Paralysis.
Dedefine, Sheridan, Esq. A Few Lncommon Fonns of Sarcoma. (Specimens to be shown.)
IItextra, W., M.D. On the Pathology of Pernicinus Anæmia
Fexyeny, -. On Case of Cystic Kidneys and Liver.
Mapozher, E. D., M.D., Duhlin. An Anomalons Form of Eczema.
MAYLARD, A. E., M.B., B.S.Lond. The Results of some Bacteriological Cultivation Experiments will Iodoform.
O'Comxor, Bernard, M.D.. M.R.C.F. Hydatids of the Spine. Liver, and Braia. RakF, Beaven, M.D.Lond., Mediral[Superintendent of the Trioidad Leper AsyRake, Beaven, M.D.Lond., Mediraisuperintendent of the
lum. The Percentace of Fibrin in the Blond of Lepers.
lom. The Percentage of Fibrin in the Blood of Leters.
Russels, William, M.D. The Pathology of Pernicinis Anrmia.
The following gentlemen have also intimated their intention of contributing to the business of the Section by reading papers or otherwise: Professor Greeufield, Professor Roy, Professor D. J, Hamilton, Dr. William Mnnter, Dr. Barrett (Edinburgh), Dr. McFadyean (Edinburgh), Alex, Edington, M.B. (Edinburgh), etc.
Demonstrations.-Dr. Alexander Bruce (Edinburgh) will give a Magic Lantern Demonstration on Diseases of the Spinal Cord; and Alexander Edington, M.B. (Ldinburgh), a Bacteriological Demonstration. Arrangements are also being made for a series of Microscopical Demonstrations illustrative of Tumours, Tuberculosis etc.
Pathological Section of the Anmual Museum.-Intimation has been received of the following exhibits for this Section of the Annual Iluseum: I. Calculi removed by Lithotomy, Ly Professor George Luchanan. 2. Calculi removed by Lithotrity or hy Scoop, by Professor George Buchanan. 3. Miscellaneous Objects remored from the Body, by Irofessor George Luchanan, namely; Bullets,

Diseases, and to othur Corms of Sore Throat; Occurrence on Open Wounds and on Muenus Membranes ot her than those of the Throat. (c) Diagnosis. What are the Distinctive Features, especially those Distinguishing the Lesion in the Throat from other Forms of Sore Throat? Does Membranous Croup oceur apart from Diphtheria? (d) Pathology and Sequelx. (e) Mediral Treatment. ( $f$ ) Surgieal Treatment; Tracleotomy; Tuhage. The medical and general aspects of the subject will be introduced by Dr. A. Jacobi (New York), and the surgical aspect by Btr. R. W. l'arker (London), Hessrs. E. Owen, II. R. IIutton, Lennox Browne, R. N. I'ughe, and Drs. W. T. Fiairdner, Cenrge Buchanan, James Finlayson, Henry Ashby, II. C. Cameron, D. Vewman, Thos. Buzzard, John Macintyre, and J. S. Cameron will take part in the discussion.
2. Rickets: (a) Etiology and J'revention. (b) Its Connection with Syphilis and Scurry. Is Fnlargement of the Liver and the Spleen always present, more or less, in lickets; or only in Cases of Syphilitic Origin? (c) Medical Treatment. (d) Surgical Treatment; at what Stage, and in what Way? Drs. Macewen, A. Ogston, L. W. Marshall, 11. Ranke (Munich), Thos, Buzzard, Ilenry Asbby, and Messrs. 12. W. I'arker. I1. R. IIutton, R. Ilagvard, E. L. Freer, John fordon, R. N. l'ughe, and IV. A. Lane will take part in the diseussion.
1rs. Jacobi (New York), Keating (l'hiladelphia), Ranke (Munich), and Sanne (Paris), and other members of the profession on the Continent have been invited.
The following have promised papers.
Browse. Lennox, F.R.C.S. Anatomical Fath in sugport of Jutnbation in Diphtheria.
Camernox. J. S.. M.D. Eriology of Diphtheria. (1) Prelisposition Irom Recent or Existing Distase, esperially, marlet Ferer: (2) Induence of Iusauitary Sur-
ormanos, especially Kise and Fatl of Sulsoil Water.
IIAGYARD, Robert. MI.K.C's. The Effects of Sunlight ou Rickets in Children and in the Lower Animals.
LANE. W. A., F.lR.C.S. The Deformity of lickets.

## Section K.-Pharmacology and Therapeltics. Conveyancing Class Room.

K. Pharmacology and Therapectics. - President, James Morton, M.D. Iice-Presidents, John Dougall, M.D.; Theodore Cash, M.D., F.R.S. Honorary Secretaries, Alexander Napier, M.D., 3. Royal Terrace. Crosshill, Glasgow; Sidney llarris Cox Martin, M.D., 60, Gower Street, London, W.C.

A special diselssion will be opened by Professor Theodore Cash, M.D., F.R.S., on Carbolie Aeil, Antipyrin, Antifebrin, and their Allies, especially as regards their Antipyretic, Analgesic, and Antiseptic Actions. Drs. Walter (i. Smith (Dublin), A. D. Macdonaid, and Prosser James will take part in the discussion.
Dr. W. Allan Jamieson (Edinburgh) will show tiro cases of Xeroterma Pigmentosum.
It is expected that l'rofessors Liebreich and Dujardin-Beaumetz will be present at the meeting. Dr. Dujardin-Beaumetz will contribute a paper on l'henacetin.
The following have promised papers.
Dafison. James, M.D. The l'ine Treatment.
Doveall, J. M.D. Glasgow. (7itle not recented.)
Dovesk, J. F. ir D. On the Therameutic Value of Alcohol. ?. The socalled Abortive Treatment of Syphilis.
called Abortive reatment Scasies and its Treatment.
Jamgs. J. Brindley, Isq. Scavies athtits Treatme
KERR, J. C. Douglas, M.B. Thathe Cises of l'bisouing.

P\&susF, T. F., H.D. The Truatment of Eczena.

## SECTION L.-I.ARYNGOLOGY AND RIINNOLOGY.

## Divinity Class Room.

L. Laryngology and Rhinologr:-President, Felix Semon, M.D. Vice-Presilents, George Hunter Mackenzie, M.D.; Peter MeBride, M.D. Honorary Secretaries, D. Nermman, M.D., 18, Woodside Place, Glasgow ; A. E. Garrod, M.D., 9, Chandos Street, Cavendish Square.

The following subjests are proposed for special discussion:

1. The Use and Abuse of To be onened by Dr. de Havilland Hall (LonUpper Air Passages. To be ope
don) and Mr. stoker (heondand Treatment of Nasal Stenosis. To be opened by Dr. Maciutyre (Glasgow) and Mr. Creswell Baber (Brighton).
2. Hemorrhages from the lharynx and Larynx, and other Itemorrhages which simmate inese. To be opened by Dr. Perey Kidd (London) and Dr. Hodykinson (Manchester) (probably).

The following geutlemen hope to take part in the discussions: Dr. Prosser James (London), 1r. MelBride (Edinburgh), Dr. Charles Warden (Birmingham), Dr. Cartaz Pariz) and Mr. Richard Ellis (Newcastle-on-Tyne).

The following papers have been promised.
Johsatonf, R. Mackenzie, M.1). Account of a Case of Tumour of the NasoPharytix.
Mcharyini, P. M.D., Edinburgh. On Mar-Fever and Allied Conditions. MAchytikf, J.. M.D. Anatonical Demonstration of the Laryna. NAmNar, D., M.D. Two Cases of Complete Laryngeal Stenosis groduced by Woumis of the Larrnx in Attempted Suicides.
His muta), C. M. M. (Fitle of paper not yet recewed.)
Members desirous of reading papers, or joining in the discussions, are earnestly requested to communicate without delay with the Secretaries of the respeetive Sections.

Francls FowLe, General Secretary.

## SPECIAL CORRESPONDENCE.

## PARIS.

[FROM OUR OWN CORRESPONDENT.]
Antıpyrin in Eye Surgery.-Balsam of Tolu as an Adjuvant to C'reasote.-Carelessness in Prescribing.-Epidemic of Pelada. At the meeting of the Académie de Médecine on May 8th, ग. (Grand Clement (of Lyons) communicated the results of his experiments witli injections of antipyrin in the temporal region in affections of the eye. lIe found that this acted rapidly and certainly in reliering oeular pain, especially peri-orbital pain, and to a less extent in ocular spasm. Speedy relief was also given in many cases of keratitis, iritis, and glaucomatous irilo-choroiditis; the injections were also useful in a case of old-standing hemicrania: of monocular hemeralopia, and in several cases of tics in the orbicularis palpebarum, of anterior scleritis and sclero-choroiditis, and of Hoating bodies in the vitreous humour. M. Clément has made over 800 injections in the temporal region of twentyfive centigrammes of antipyrin, and half a centigramme of cocaine, mixed with ten drops of distilled water. These injections were never followed by abscess, but they always cansed slight swelling at the seat of injection, whicll remained tender for eight or ten days. Occasionally slight cedema of the eyelids was observed. M. Clénent attributes the successful results of the injections in part to this subcutaneons derivation.
In the L'nion Médicale of April 22ud, Dr. Lasniée pointed out the advantage of combining beech creasote with toln balsam and Sorway piteh. Creasote, which is 80 useful in pulmonary and laryngeal affections, is not always easily tolerated, sometimes causing nausea and romiting. It was therefore necessary to find some means of neutralising these inconveniences. This has been found in tolu balsam, the antispasmodie and anticatarrlal properties of which are well known, and which, together with Norway pitch. forms an excellent and reliable remedy. After numerous experiments the following formula has been adopted by MDI. Tronette and Peret, pharmaceutical ehemists, in their capsules, called by them "gouttes livoniennes." 1 n 5 centigrammes of pure leech crcasote, $7 \frac{1}{2}$ centigrammes of puritied Norway pitch. $\mathrm{T}_{2}^{2}$ centigrammes of tolu balsam, to make one capsule. In cases of little gravity, and when used as a prophylactic, two capsules morning and evening are sufficient. In more serious cases, one should begin with four capsules morning and evening, increa-ing the dose if necessary up to trelve capsules a day; After taking the capsules a little water or other liquid should be swallowed, and it is adrisable to take them at meal times. When the disorder is relieved, the use of the capsules should not be suddenly abandoned, and it is also good to take some at the commencement of winter, and at any clange of season accompanied hy damp weather.

Dr. Plocken, of Strasbourg, has lately been sentenced to nine months imprisonment, Greiner, a chemist, to two weeks, and his assiztant to tiro months. The latter was conricted of manslanghter through imprudence. IIe had made up a prescription of Dr. Flocken's for two patients, but owing to the doses not having been clearly indieated, death from poisoning occurred in both cases. The twofold aceident coming to the knowledge of the authorities of the town, the matter was thoroughly investigated and the bodies exhumed. A post-mortem examination showed that death had occurred through poisoning caused by overdoses of the medicine prescribed.

An epidemic of pelada lias recently broken out among the men of the different fire-brigades in Paris. As many as 130 firemen
are at the present time attacked by the disease, but energetic measures are being takeu to quell it. All the bedding is to be renewed in the various firemen's barracks.

## VIENNA.

[FROM OUR OWN CORRESPONDENT.]
Professor rom Schrötter's Opinion on the Case of the Late Emperor. -Letter from Professor Billroth on Sir Morell Macken:ie.
The Neue Freie Presse, of the 15 th current, publishes at full length the opinion which Professor von Scliritter gave as to the case when he saw the ilhustrious patient at San Remo on November 9th. The following is a translation of the text:-" Professor von Schrötter declares that, in his opinion, the new regetation (Spriessüng) is cancer, and that there is no doubt about it; he, therefore, recommends complete removal of the whole of the larynx. He, moreover, holds that an immediate operation would be the most useful. He would, hotrever, also consent to the operation being postponed, as the life of the Crown Prince could perhaps be prolonged for some time by the application of ather remedies, and especially by tracheotomy. By complete removal of the larynx the life of the Crown Prinee may perhaps be saved, but the operation is most dangerous. By means of other methods, particularly tracheotomy, ife could only be prolonged."

The Neue Freie Presse of the same date also publishes the following letter, addressed to it, by special request, by l'rofessor Dillroth:-

## " Vienna, Marcl 27th, 1888

"With reference to your request for my opinion on Mackenzie, I can only reply that I have always warned people against passing a judgment on a man who, as a physician, occupies so difticult a position. I have never doubted the correctness of the diagnosis of my Berlin colleagues, but I have also never been able to understand what political reasons had made it necessary to commnnicate this diagnosis to the whole worid. It cannot be admitted that Mackenzie with his rast experience has ever doubted the correctness of this diagnosis. If he behared in such a way as to imply that he had some doubt about the correctness of this diagnosis, this could only be owing to pressure from above or from motives of humanity. I know such situations from my own experience. One is not inclined to disapprove the statements of one's confrires, but at the same time one is not inclined to tell the patient that his malady is incurable, for the known want of infallibility in medical diagnosis is aimost the sole ray of hope to the unfortmante incurables. Falsehood in such cases becomes a moral act. The entire behariour of Mackenzie must, no doubt, be judged from this point of view. He did as a man and a plysician what was still possible to be done when the unfortunate word 'cancer' had already been pronounced.
"In much the same terms as these I lave on different nccasions expressed myself as to Mackenzie's conduct. I ask you to consider this as a private communication, at least until the sad catastrophe has occurred in Berlin.-Yours most respectfully,
"Itr. Te. Billeoti."

## CORRESPONDENCE.

## ARMY MEDICAL RESERTE OF OFFICERS.

Sir,-I think that your remarks in respect to the Army Medical Reserve of Officers are calculated to spread erroneous ideas as to the causes of the formation of this particular class of officers. It may be true that the necessity of this class has been hastened by the late cry of retrenchment, and by the opportunity of using volunteer medical officers for home service it necessary, and so freeing the Medical Staff of the army for more active service. In doing so the anthorities have obviated the necessity of establishing a large medieal department, which would be uselessly large, expensive, and over-numbered in time of peace. All they do is to be prepared for times of emergency, and to hare the Medical Department ready in its effectiveness for any necessities which may arise. Surely it is not unfair to ask the volunteer surgeons to help their Govermment, should national emergencies arise, especially as the Royal Warrant tends to hend together the medical officers of the army with those in the new reserve, in the same way as the reserve of combatant officers are associated with the regular officers of the army. Volunteer medical officers have undoubtedly gained by the step accorded to them,
and in no way do the oflicers of the Bledical Staff lose any privileges by those granted to us.
As you olserve, in case of invasion, the regimental medical officers wonld be required to attend their regiments in the field; but this applies only to a very limiterl extent, since all volunteer regiments have several medical officers, and most two at the least; consequently, in case of need, there would be sufficient officers ready to do regimental tield work, and a surplus number who would lairly he employed at the departmental centres where most work and attention is required. Without some such supplemental work as is proposed, the buitk of the medical service would be from necessity ineflective from paucity of the number of those officers who could be sparel from the army staff, and it behoves us all, as a prolession, to ber jealous of our honour, and to show to the puhlic at least that the part of the army whiclu affects our interests is ready and prepared in its details should any grave emergency arise.
To my mind, the idea of the reserve is the offepring of common sense, and is conceired in the true desire to render the defences of the country efficient in their medical arrangements, and it would be well if the country could be as well assured of the efficiency of the commissariat and transport departments as it may hope to expect from its Medical Reserve of officers. Such a reserve of officers whas shadowed out by myself three or four years ago, and was farourably received by the press and commended by the Volunteer Review: hut it fell through until its promulgation last month under the Royal Warrant.
We volunteer medical officers do not want to flutter under an army rank; but we have asked for our position to be recognised, and this the authorities have graciously accorded, though in a different way to that which the Volunteer Medical Association asked. We have, howerer, received army rank with all its privileges, but we hare saddled ourselves with certain duties which doubtless would be so arranged, slould the time of such a neeessity for service ever arise, to meet each medical oficer's convenience. as far as would he consistent with the exigency of the need, as would also be the distribution of the volunteers generally throughout the country:
If wanted, let ns medical officers of the volunteer force do the work which may be required of us rather than introduce into the medical service of the country so large an intux of civilian element as occurred during the last Crimean war; and it would be as well if the present volunteer medical officers entered into the present reserve with the same patriotic spirit as that which attracted
us when, durin Lord Beaconsfield's ministry a possine war hinteered to supplement the Medical Statf, should Government require our services during its continuance.- 1 am , etc., M. BaINEs, M.D.Lond., Surgeon-Major Aruy Medical Reserve of Olf cers, and $1=t$ Middlesex and Engineer Tolunteers, R.E. Junior Athenienm Club.
Srr,- When the hoyal Warrant was first issued, 1 was much disposed to join the new reserve; but a little consideration, and consultation with several officers of large experience in my district, caused me to pause and to ask some questions before taking so important and. I may now add, so serious a step. Now, nearly two months ago 1 applied to the officer commanding my, regiment for a detinition of the term, "great national emergency;" referred to in paragraph 4 of the Secretary of State's instructions on the Warrunt. The question in due conrse gravitated to the Horse Guarls, to the Director-General of the Army Medical Department, and finally to His lioyal llighmess the Commander-in-Chief.
After mueh delay and more than one reminder, 1 have, by request of If.E.11. the Commander-in-Chief, heen honoured with the following reply from the Director-Gieneral:
"It has been theciled that, if the National Defence Bill (read a first time in the 1tnuse of Commons) lecomes law, the criterion of a 'great matioual emergency' will bo the embodiment of the militia..
This information may, I think, be of no small importance and interest to brother medteal ollicers who have joined or who contemplate joining the new Army Medical Reserve of officers. To my mind the telinition is a most dangerous and serions one for civil practitioners having large professional and domestic responsibilities. Army Medical lisserve serrice might posibly suit a few junior practitioners who have but little to risk, either professionally or domestically, and who long for military fame at any
price: but even they, 1 think, would do better to join the regular medical staff out and out than to place themselves in a position so uncertain and so insecure. It is, howeror, I take it, the services of experienced nedical oflicurs of auxiliary forces that the Gorernment wish to secure (as evidenced by the proliciency examination certificate being a necessary qualification). and it is tn such men, I repeat, that the terms of the Royal liarrant, as at present defined, might prove not ouly most disastrous, but eren ruinous.
lor example, if some colonial war, or eren the scare of a Continental war, were to occur, and a few hattallions of militia were embodied, no other legal anthority would be required to enable the Government to at once call out nflicers of the Army Nedical Reserse, and to send them to any duty, or to any place or profght deem fit, utterly regardless, of course, of all private or professional inconvenience or sacritice to them.
he fact is, Government are endeavonring to provide for a pon-sible great emergency withont any cost to themselves. They seek
to reduce the medical personnel of the army lelow an efticient standard, regardless of the hardship of entailing an extra ampunt of foreign duty on those who are now serving in the regular forces. But, lest their device should be too transparent, Government cover their claims on the Medical leserve by the ambiguous and comprehensive expressinn, "great national emergency, perfectly well aware that. shonld pressure arise, those who had unwarily enrolled themselves must obey orders, at whatever cost to themselves. It will be dificult to unlerstand how, after their declaration as to the with their great national emergency has lieen made, men can. beedless eyes wide open, rush headlong into such needless and Nor ought we
or military we, 1 hold, as a medical body, either on professional officers, to help Government in opposing the reasonable claims of the regular Army Jedical Staff to have their rank and status definitely established and recognised in Her Majesty ${ }^{\circ} \mathrm{S}$ Army, in which they should always consider it an honour and a privilege to serve.
1 will only add that this letter is not written withont much consideration and careful investigation, and that in enunciating my views I have had accorded to me the advantage of large and eminent military experience.-1 am, etc.
June 5 th.
STRGEON ATHILIAIES FORC1:.

## ASSOCIATION OF MEMBERS OF THE ROYAL COLLEGE OF

Sin, - We enclose herewith the reply received br us to the letter addressed by our Committee to the Lord President of the Council.

We mar add that Lord Randolph Churchill has consented to receive on Thursday moning, June 21 ist, a small deputation of our Committee, in order to hear their views as to the position of the Dembers of the Royal College of surgeons.- We are, etc.,

> Warwick C. Stelele,
> WM. Ashtos Ellis.

June 20th. Honorary Secretaries, Association of M.R.C.S.

## [60,981.]

## - Council Office. Whitehall.

+ I6th lune, 158 s .
"SIR, - In reply to your letter of the 12 th instant, on the suliject of the petition of certain Pembers of the Roval College of Surgeons, with reference to the constitution of that College (lnuged at this oflice on the 3 rd May, 188\%). 1 am directed by the Lordl'resident of the Council to inform you that it is not neual to semil a written reply to petitions nin the sulject of a question which is before the Privy Council. The petitions or statements in such cases are fully considered before any decision is arrived at, and the result is that ller llajesty is advised either to grant, to refuse. or to modify the proposed charter.-1 am, Sir, your obediant servant.


## SELF-IHELIP FOR HOSPITALS

Sir,--I would ask space for a few words with reference to your article of June 1 bith, on this subject.
It is not altogether against the abuse of charity that 1 am writing, but chiefly on account of the comparative costlines: in many instances which attendance in out-patient wards involves, as well as the risk to health and even to life.
liegarding the expense, poor persons often pay, especially in
country elistricts, much more for travelling backwards and forwards to a hospital than ellicient attendance at their own homes would cost. Is for the risks, I need only instance a case where a child with chest affection travelled seven miles to a hospital in an open conreyance during inclement weather, and died in consequeuce of the exposure; all this distance was traversed for the sake of a few grains of a hypophosphite in powder. Under such circumstances as these 1 consider it nothing less then homicidal to encourage attendance, and the medical ofticers would best show their lumanity by directing such poor persons to any efficient self-supporting dispensary in their own neighbourhood; it wonld be better, by the bye, if the amount of the subscriptions to these institutions were increased, and if no unqualified person were allowed to be in any way connected with them, muless it were such medical students as had progressed well with their studies and examinations.

Then the scale of payment to poor-law medical officers is very inadequate; this is surely a fitting subject for some of the labour representatives in the Commons to take up. The annual drink bill is still far too large, and I think a small portion of the amount might be worthily diverted for the purpose of medical relief.-I am, etc.,
W. L.

THE TREATMENT OF AURAL EXOSTOSES.
Sir,- In justice to Sir William Dalby, I feel it my duty to state that on January 9 th, 185, I was present with him at an operation for the removal of an exostosis from the ear.
The instrument he used was my dental eugine, and I furnished him with the drills employed ou that occasion.

1 have since assisted him in a similar manner ou several acca-sions.-I am, etc.,

Thomas Edgelow, M.R.C.S.,
Late Dental Surgeon, St. George's Hospital.
Savile Row, June 16th.
SETTING-UP DRILL AND IIEART DISEASE.
SIR,-It is with much satisfaction I see that a more rational system of "setting up" young recruits is about to be introduced into the army. Colonel Onslow, who has worked hard in this direction, is entitled to much credit for his zeal; but J hope the labours of Surgeon- Ilajor F. Arthur Dary will not be orerlooked. Some years ago this officer wrote a pamphlet on the prevalence of heart disease in the army, to which his attention had been called at Netley. Dr. Dary made the system of "setting-11p drill" the subject of careful study, and in the brochure above referred to demonstrated, on pliysiological data, the fact that this most mischierous system was one of the chief factors in bringing about first functional and then organic disease of the heart. As I have elsewhere shown, Dr. Davy's observations failed to impress the anthorities with their importance. The late Dr. Fagge was one of the first men of eminence in the profession who appreciated their value. The military authorities are now, it would appear, a wake on the subject, but there is reason to fear that in this, as in so many other examples, the seed sown by one man is likely to be reaped by another. To prevent this injustice, if this be possible, is the object of this letter.-I am, etc.,

## W. Canpbell Maclean, M.D., Surgeon-General.

## Woolston.

## ESGLISII MEDICAL PRACTITIONERS IN TIIE GRISONS.

Sir, - I wrote last month to the proprietors of a large hotel at Davos-Platz (to which I hall been in the habit of recommending patients), protesting against the prolibition of English practitinners in the Swiss Cantons. Since you have taken up the suliject, I thought the enclosed reply might interest you.-I am, etc.,

> stratford Place, W.

Grand llôtel Delvedere, Daros-Platz, Canton des Grisons, Suisse,

June I3th, 1888.
Sir,-We beg to apologise for the delay in answering your Eavour of the 21st nltimo; a short absence from home having loeen the cause of it.

We deeply regret the action taken against your English collwarues in this country, and assure yon the great majority of the swi-s penple disapprove of this slortsighted persecution, which is caused entirely by the opposition the practice of English medical men meets with on the part of some of the Swiss doctors. It
seem ${ }^{\text {a }}$, howerer, that you are not quite correctly informed with regard to this place (Davos-llatz), and we therefore take the liberty of submitting to you the real state of matters, hoping that we may succeed to make you change your views to some extent.
There are three English doctors practising in this Canton-the Canton des Grisons-namely, Dr, IIuggard, in Davos-Platz; Dr. Holland, in St. Moritz; and Dr. Wise, iu Maloja. Dr. Huggard (see Medical Directory, London), now in practice here for the last two years, has passed the Swiss medical examination at Geneva in 1885, and possesses the Swiss diploma, and, consequently, the recent action taken by the Swiss authorities does not concern him. But we are sorry to say, though he has fulfilled all that they required of him for free practice in Switzerland, he was looked at as an intruder, and was slandered in the most shameful manner, with a riew and intention to prevent his getting on in the place. Ilowever, his English colleagues sent their patients to him with letters addressed to him, and so Dr. Huggard got on very well in Davos-Platz, in spite of the shameful persecution. You will see clearly that, should you and all other English medical men send no longer any English patients to Davos, Dr. Huggard would be forced to give up his practice there, on account of his colleagues in England, who would have just reached the contrary result of what they wished.
Dr. Holland and Dr. Wise both did not pass the Swiss medical examination, and, consequently, do not possess a Swiss diploma for practice; the persecution of them was therefore directed in another line; they were denounced by Swiss doctors for illegal practice, with a view of getting altogether rid of their competition. But you will be interested to hear that the highest anthorities of the Canton des Grisons, that is, the "Cantonal Grosse Rath" (to whom, quite recently, when they were assembled in Chur, Dr. Holland and Dr. Wise submitted their cases), did not adopt the view of the Swiss medical profession, but granted the right to practise to both the abore-named doctors, without demanding of them to pass the Swiss examination.
Hoping you will pardon this long intrusion on your valuable time, we have the honour to remain, Sir, yours rery obediently,

Cefster Brothers.
** The matter is, as this letter states, now happily settled for the moment in this locality by the judicious action of the Grosse Rath, and we trust it will not arise again. There is at present no established reciprocity between the English and Swiss registration of duly qualified practitioners, but the legal machinery exists under the Medical Amendment Act, 1886, and as a preliminary to further action it might be well to put it in motion.

DR. APOSTOLIS TREATMENT OF L'TERINE FIBROIDS.
Sir,-There is such an amount of erilence in favour of Dr. Apostoli's method of treating uterine tibroids that, after hearing that gentleman at Dublin last summer, and reading an account of his process by Dr. Keith, of Edinburgh, 1 sent the latter gentleman a lady whose case I had laid belore sir Spencer Wells, and before Dr. Apostoli himself before lie went to America. The case was a well-marked one of interstitial hibroid, the uterus being much enlarged, or about the size of a small cocoa-nut or large orange. The patient was under treatment in Edinburgh for about six montlis, and puncture was made use of frequently. The result has been some slight change for the better in the symptoma, but I cannot say that the size of the tumour has been lessened.

Of course, this is only one case, and I merely give it because experiense is what is wanted, and I know the result in this case.-I am, etc.,
C. R. Drysdale, M.D.,

June I4th.
Senior l'hysician Metropolitan Hospital.

## NAVAL AND MILITARY MEDICAL SERVICES.

## COMMITTEE ON ARMY ESTIMATES.

THE third report of the Select Committee on Army Estimates issued this week as a Parliamentary paper, deals entirnly with Vote 4. which provides for the medical extablishment, [xy, etc., of the Army. The charge for non-effective services paid ont of Imperial funds reaches $£ 1 \times 2.574$. The Committee point out. that there has been au enormous increase of clarge for the metical service of the Army since the year 18:2. This increas is mainly accounted for by improved rates of pay and by a large addition to the numbers of the Mediral Staff Corjs. In conclusion the report says:-" It wonld appear from tbe evidence given to vour committee hy sir Thomas Crawford that the civil aud nilitary authorities at the War Office recognise how very lifavily $t$ his enormous

## MEDICO-PARLIAMENTARY.

HOUSE OF LORDS.-Tuesday, June 19th. Universities (Scotland) Bill.- The report of amendments was received. Several further amendments, proposed by the Marquis of Lothiss, were agreed to.-Lord Watson moved that the number of the representatires of afmiated not exceed four. The serve upon a Lniversity. The Earl of Rosebeny, on Clause 15, moved to insert a new subsection giving porser to the Commissioners to make arrangements where it shall seem requisite for the due representation of the University Court in the gorerning body of affiliated colleges and of the governing body of affiliated colleges in the Unirersity Court, having regard to the circumstances of each particular case, to the relative numbers in the University and the college of the teaching staff and of students proceeding to graduation, to the nature of the connection proposed to be established, and to the purposes for which such representation is desirable.-The amendment was agreed to.-The Marquis of Lothian moved the insertion in Clause 16, page 13, after line 24 , of the following new subsection: "(3) In the erent of the said University college being affiliated to the said University, to regulate the time, place, and manner of the first election of the assessors to be elected for the Lniversity Court by the General Council and by the Senatus Academicus of the said University after such affiliation, which election the Commissioners shall appoint to take place as soon as conreniently may be after such affiliation, and the assessors then in office shall demit office on the date of such election." The amendment was agreed to.After some further verbal amendments had been inserted in the Bill, the report was agreed to.

## HOUSE OF COMMONS.-Monday, June 1sth. $\quad$, M of the

 Magisterial Fisitations of Lunatic Asylums.-On Clause Visiting Local Government Bill (Powers ored an amendment retaining Lunatic Asyle magistrates the powers they now possessed in respect to visiting lunatic asylums.-Mr. Ritchire thought it would be extremely likely to lead to friction if every magistrate of a county had a right to visit the lunatic asylums. They thought it adrisable that a judicial body like quarter sessions should hare the power of visiting the asylums and reporting whether any abuses existed; but it would be inadvisable to allow a magistrate as an individual, and not as a member of the committee, to risit the asylums. Guardians had a locus standi for visiting paupers from their own unions which magistrates did not possess. The matter was further discussed with the result that the amendment was withdrawn and the clause negatived without discussion.The Medical Service of British Guiana.-Dr. Fargeharson asked the Under-Secretary of State for the Colonies whether it was the case that the Court of Policy of the Colony of British Guiana had passed u resolution requesting the Secretary of State for the Colonies to remove the Medical Inspector of Estates Hospitals from his office; whether this action of the Court of Policy was traceable to a report made by that officer in"the course of his duties which was considered to have "injuriously retlected on the planters;" and whether it was the intention of the Colonial Secretary to comply with this demand at present without investigating the correctness or otherwise of the allegations contained in the report.-Baron II. De Worus said that the combined Court had passed a resolution of the nature indicated. The action of the Court ras understood to be the result of dissatisfaction on the part of the members with the manner in which the officer had discharged the duties of his oftice, and particularly with certain statements in an official report made by him which they considered to hare reffected unjustly on the employers of immigrant labour. The, Secretary of State had receired such conflicting statements supporting and contradicting the allegations in the report that he would be unable to arrire at a conclusion as to their correctness without a commission of inquiry, and he had not considered the question to be of sufficient importance to justify the expense of such a commission. He had already decided, before receiving this resolution of the Court. to thal service
in question to ancsday, June 19th.
Folkestone Jubilee Hospital.-Sir H. Maxtrell, in reply to Sir E. Watinin as to whether the Government would at once decide
whether it would sell the site of the disused battery on the Layle at Folkestone for the jubilee hospital, said the matter was not yet decided; if sold it rould be sold by auction.

British Medical Practitioners in Suitzerland. - In the unavoidable absence of Dr. FanQuHanson, Mr. Causton asked the Under-Secretary of State for Foreign Affairs whether he had any further information to give the llouse as to the result of the negotiations lie had been carrying on with the Swiss Government regarding the rights of English doctors to practise in that country.-Sir J. Ferausson said he was glad to say that matters had assumed a more hopeful appearance. There was reason to expect that temporary measures would be adopted by certain cantonal authorities by which British physicians would be enabled to practise, and he hoped that a permanent and reciprocal arrangement might be arrired at.-Mr. Causton asked whether it was probable that the more farourable arrangements would apply to the whole of Switzerland.-Sir J. Frngusson said there were considerable dificulties in the way, but no possible effort would be spared to procure such a satisfactory arrangement.

## OBITUARY.

THOMAS HARRINGTON TUKE, M.D., F.R.C.J., ETc.
Thomas Harmington Ture, whose death we announced last week, was the son of Edward Francis Tuke, M.D., of Bristol, whose professional life was devoted to the treatment of lunacy. He was boru on June 13th, 1826. Ile studied medicine at St. George's Hospital and at Edinburgh, and also visited Paris, becoming Member of the Royal College of Surgeans in 1817, M.D. of St. Andrems in 1849, and Fellow of the Royal College of Physicians of Edinburgh in 1858. Ife was elected Fellow of the Royal College of Physicians, London, in 1878.

Dr. Tuke has throughout lis career been identified with the treatment of insanity. In 1846 he took charge of the Manor House, Chiswick, founded by his father, and by successive enlargements and alterations much improved it, adding nearly cighteen acres to the original grounds.
In January, 1852, he married Sophia Jane, second danghter of Dr. John Conolly, of The Lawn, Hanwell, his distinguished teacher and kind friend. His professional career was in every way a highly successful one, his practice being large both as a consulting physician and at Manor House, which became well known as one of the leading private asylums in this country, and almays maintained a very high repntation. Active, public-spirited, and full of interest in professional and public questions, Dr. Tuke took a leading part in the organisation and scientific progress of his department of medicine. He was a member of many foreign societies, and was for several years secretary of the Medico-Psychological Society. He was a prominent witness before the Select Committees of the House of Commons on amendment of the Lunacy Law. He was the author of several papers on general paralysis and on criminal responsibility, and otherwise a frequent contributor to the Journal of Mental Science, as well as to the Brimish Medical Journal, in which his last contribution was published, being a very interesting paper on the trial of the Rev. Gilbert Cooper, and the question of criminal responsibility involved therein (JOURNAL, November 26th, 1887; January 14th, 1888).

He took a prominent part in most of the causes célèbres in lunacy which have been tried during the last thirty years, especially in the Windham case, the case of Lady Mordaunt, the Braro, the Townley, and the OConnor cases. In the last case, it will be especially remembered that his foresight and prudent warnings after the release of this boy from prison put the authorities on their guard against a probable renewal of his insane wanderings to Buckingham Palace, and brought to Dr. Tuke the honour of a letter of thanks from the Home Secretary for the public service which he had rendered. Dr. Tuke was the first to introduce nasal feeding of the insane. Ilis contributions to the literature of psychology and his general attitude in courts of law and in communications with leading officials before the committees of the House of Commons were always of a kind honourable to himself and his profession, humane in the protection which they suggested to the insane, and calculated to bring the law into better accord with the advancing knowledge of psychological physicians.

In private life his marked amiability of character, gentleness,
and generosity secured for him the affection of a wide circle of friends. In the board-room of St. George's and at the hospital he was always a welcome figure. His annual reunions of the old students and staff of the hospital on the eve of the opening of each snccessive session liad become a sort of social institution, and afforded an annual meeting-ground for old friends and early associates, of whicll a large number of old St. George's men did not fail annually to avail themselves. His death leaves a roid which will not easily be filled, and he will long be mourned by a large circle of professional friends, to whom throughout life he had greatly endeared himself. Few men have made so many friends in the course of a long professional life, and it may be said of him that, having made many friends, he never lost them.

He was buried at Chiswick on June 13th. His health had been failing for some weeks before his death, which was due to pulmonary disease. His end was quiet and peaceful. He leaves seren sons-two of whom follow in the same department in the medical profession-and a daughter.

## MISS ALTCE FISHER.

Many members of the profession will have heard with deep regret of the death of Jiss Alice Fisher, which occurred on June 3rd, at the Pliladelphia Hospital, U.S.A., of which institution she had been for nearly four years Lady Superintendent of Nurses.

Iliss Fisher entered the Nightingale Home, St. Thomas's Hospital, as a probationer, in January, 1875 , and after a year's training was sent as home sister to take temporary charge of the nurses at the Royal Infirmary, Edinburgh.
In the following year Diss Fisher was appointed matron of the Fever Hospital, Newcastle-on-Tyne, and held that post until her election in 1878 as matron of Addenbrooke's Ilospital, Cambridge. There she remained four years, during which time the nursing of the hospital was completely remodelled, a training school established, and nurses supplied to the members of the Unirersity and residents in the town. The advantages, alike to the hospitaj, the nurses, and the public which followed the adoption of the latter plan, were so great that it has been indirectly the canse of the foundation of institutes for the supply of nurses to the public in connection with many of the metropolitan hospitals.

Feeling that her special work at Addenbrooke's was done, and that the system which she had introduced could well be carried on by others, Miss Fisher accepted an invitation from the governors of the Radcliffe Infirmary, at Oxford, and subsequently another from the committee of the Birmingham General Hospital, to take charge of the nursing departments there.

At both places the same untiring energy, which was one of her chief characteristics, led to important improvements being effected in the system of nursing.

In October, I884, Miss Fisher left England to undertake the duties of superintendent of nurses at the Philadelphia Hospital. In America, owing to the greater publicity of official life in any sphere, Miss Fisher's work soon attracted general attention. This was at first due to her calmness and heroism in saving the lives of many of the inmates of the lunatic wing of the hospital during a fire which occurred shortly after her arrisal there.

Subsequently she succeeded, as she had previonsly done at Cambridge, in interesting all classes in the work of the hospital, which became almost a popular resort with the ladies of Philadelphia, who attended her lectures on nursing in large numbers. In the few years she was there a large training-school for nurses sprang up, and an impetus was given to the improvement of nursing which has been felt almost throughout the United States. The American papers were enthnsiastic in her praise, and she received applications from all parts for admission to the nursing home.

In the midst of ber work she has been cut off by death, due to an affection of the heart which had troubled ber for some time, and for which, as one of her physicians said, "she had morn out all power of compensation by orerwork." Her interest in the hospital was maintained to the last, and when too ill to walk, she was wheeled through the wards in a Bath chair.

Miss Fisher was in many respects a remarkable woman ; of commanding presence, sympathetic in manner, widely read, especially in the best English literature, and herself the author of several works of fiction showing much insight into human motives. She exercised a great influence for good over all with whom she was brought into contact. As a lospital administrator she had few equals, and every institution with which she was connected still
four preceding weeks from 18.9 to 16.2 per 1,000 , was again 16.2 during the week under notice. The rates in the several towns ranged from 9.9 in Birkenhead, 10.3 in Derby, 10.7 in Leicester, and 12.1 in Plymouth to 23.4 in Ilalifax, 23.7 in P'reston, 24.6 in Newcastle-upon-Tyne, and 27.9 in Manchester. In the twentyseveu provincial towns the mean death-rate was 17.9 per 1,000 , and exceeded by as much as 3.7 the rate recorded in London, which was only $1+2$ per 1,000 , and lower than in any week since September, 1885. The 2,923 deaths registered during the week under notice in the twenty-eight towns included to scarlet fever, referred to whooping-cough, to to diarraea, "(principally enteric), 30 to measles, 25 to diphtheria, 259 deatha resulted from these and 13 to small-pox; in all, against numbers declining from 330 to ${ }_{205}$ prin in the four preceding weeks. These 259 deaths were equal to an annual rate of 1.4 per 1,000 ; in London the zymotic rate was I.4, and corresponded with the mean rate in the twentyseven provincial towns, among which the zymotic death-rates ranged from 0.4 in Brighton and in Sunderland to 2.9 in Cardiff, 4.0 in Blackburn, and 4.1 in Manchester. Whooping-cough caused the highest proportional fatality in Cardiff, Blackburn, and Manchester; measles in Bradford; and scarlet fever in Cardiff. Of the 25 deaths from diphtheria recorded during the week under notice in the twenty-eight towns, 18 occurred in London, 2 in Liverpool, and 2 in Manckester. The 13 fatal cases of amallpox inclnded 6 in Preston, 2 in Sheffield, 2 in IIull, 1 in Leeds, 1 in Sanchester, and in bristol. There were no small-pox patienta on Satreatment in ant These hospitals contained 830 acarlet ferer patients on the same date, ahowing a further decline from recent weekly numbers; 61 cases were admitted during the week, against 66,78 , and 89 in the three preceding weeks. The deathrate from diseases of the respiratory organs in London was equal to 2.6 per 1,000 , and was slightly below the average.

## BURIAL REFORM.

IT a meeting of the Glasgow Committee on Health, on June 4th, the following letter from Dr. J. B. Russell, on the subject of burial reform, was read :-" 1 have considered Mr. Fatlock's letter regarding the disposal of the dead, remitted to me to adrise upon. No one can deny the enormous abuses of earth-burial by violation of all the laws and conditions which would render it a safe method of disposing of the dead. Mr. Fatlock rests his case in favour of rapid dissolution of the body by caustic alkalies paced in the organisms. The tendency of experiment has been to show that acids or acid salts, and not alkalies, are the most trustworthy disinfectants, and in the present state of my information I have at least as much faith in the destruction of disease germs by decomposition in porous earth as by caustic alkalies. Cremation is theoretically perfect for all purposes, but, as Mr. Fatlock says, sentiment is against it. The same obstacle will oppose the use of alkalies, and only education will remove this obstacle. I do not think we are yet at that stage of public opinion when it would be advisable to promote legislation for any other purpose than the proper regulation of earth burial."
PROVISION FOR INEECTIOUS DISEASES IN LIYERIOOL. The Liverpool City Council may be congratulated on having solved the problem of proriding hospital accommodation for infectious diseases. It is stated that the hospital in Netherfield hoad, together with the one nearly finished in Grafton Street, will suffice for the wants of the city at ordinary times, and when to these are added the temporary buildings on the Parkhill Estate, the prorision will be largely in excess of what has been needed at any time during the last three years. To meet the possibility of of the Edge Lane IIall Estate, on which extensive temporary buildings, similar to to those in use at Parkhill, could be erected at little expense and in a short time, while the existing Hall would be utilized for the administratire department and the resident staff. The hospital at l'arkhill, on the model of which the buildings will be designed, was erected about three years ago, and has proved eminently successful both in point of durability and sanitation. It is much to be desired that the poor were made more fully a ware of the adrantages of hospitals of this class, as there is no doubt that diseases such as measles and whooping-cough, occurring in crowded neighbourloods, cannot receive proper attention at home, and consequently often prove fatal or lead to permanent English towns, including London, which have an estimated population of $0,308,273$ persons, 5,461 births and 2,923 deaths were registered during the week ending Satnrday, June 16 th. The annual rate of mortality, which had steadily declined in the
impnirmeut of health, misfortuues that might be averted by early removal to healthy surroundings.

## MEDICAL NEWS,

## MEDICAL VACANCIES.

The following Vacancies are announced
BOROUGH OF BRADFORD.-Medical Officer of Health. Salary, £500 per annum. Applications by June 30th to the Chairman of the Sanitary Committee.
CHELSEA HOSPITAL FOR WOMEN, Fulham Road, S.W..-Resident Medical Officer. Salary. £60 per annum, with board and residence. Applications by July 4 th to the Secretary.
CITY OF LONDON EIOSPITAL FOR DISEASES OF THE CHEST, Victoria Park, E.-Assistant-Physician. Applications by July 12th to the Secretary.
CITY OF LONDON IIOSPITAL FOR DISEASES OF THE CHEST, Victoria Park, E.-Pathologist. Salary, 100 guineas per annum. Applications by July I2th to the Secretary.
CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEST, Victoria Park, F.-Resident Clinical Assistant. Applications by July 12 th to the Secretary.
DONCASTER GENERAL INFIRMARY AND DISPENSARY.-Honse-Surgeon. Salary, £100 per annum, with board and residence. Applications by Juif 5th to the Honorary Secretary.
DUFEUS PAROCHIAL BOARD.-Medical Officer. Salary, £35. Applicationa by June 23 rd to John Nicoll, Esq., Inspector of Poor, Hopeman, N.B.
DUNDEE ROYAL INFIRMARY.-Resident Assistant House-Surgeon. Salary, f60 per annum. Applications by June 27th to D. Gordon Stewart, Esq., Solicitor, Dundee.
EAST LONDON HOSPITAL FOR CHILDREN, Shadwell, E.-Resident Clinjcal Assistant. Board and lodging. Applications by June $28 t h$ to the Secretary.
EAST SUFFOLK AND IPSWICH HOSPITAL.-IIouse-Surgeon. Salary, £80 per anoum, with hoard, lodging, etc. Appllcations by July loth to the Secretary.
EDINBURGH CITY POOR HOUSE, Craiglockhart.-Resident Medical Officer. Salary, £s0 per ancum, with board. Applications by June 25th to Mr. G. Greig. Inspector, City Parish Chambers, 2, Forrest Road, Ediohurgh.

EVELINA IIOSPITAL FOR SICK CHILDREN, Southwark Bridge Road, Surgeon to Out-patientr. Applications by June 25th to the Committee of Management.
GLASGOW HOSPITAL FOR SICK CHILDREN.-Assistant Honse-Surgeon Applicationa to M. P. Fraser, Esq., 91, West Regent Street, Glasgow.
KENT COUNTY ASYLUM, Barming Heath, Naidstone. - Third Assistant Medical Officer. Salary, £120 per annum, with apartments, etc. Applications by June 30th to the Superintendent.
LONDON THROAT HOSPITAL, 204, Great Portland Street, W.-HonseSurgeon. Applications by June 27th to the Secretary of the Medical Committee.
PARISH OF EDDRACIIILLIS, Sutherland.-Salary, fl50 per annum, with Iree house. Applications by July 15th to Mr. A. R. Cowie, Inspector, Scourie by Larg, N.B.
PARISH OF KIRKMABRECK, Kirkeudbrightshire.-Medlcal Officer for the Poor. Salary. £35 per annum. Applications by July I4th to Mr. J. Carson, Inspector of Poor, Creetown, N.B.
PARISH OF LOCHS, Stornoway.-Medical Officer. Salary, £140, house and rates free. Applications by June 23 rd to H. McL. Ross, Inspector of the Poor, Lochs, Stornoway.
PARISHES OF PENNYGOWN AND TOROSAY.-Medical Officer. Salary, £100 per annum. Applications by July 3rd to Mr. A. McDougalt, Inspector of Poor, Auchnacraig, Oban, N.B.
PRISON COMMISSIONERS, SCOTLAND.-Resident Surgeon for one of Her Majesty's prisons in Scotland. Salary, $£ 200$ per annum, with residence or allowance. Applications by June 25th to the Secretary, Prison Commission for Scotland, 130, George Street, Edinburgh.
RAMSGATE AND ST. LAWRENCE ROYAL DISPENSARY AND SEAMEN'S INFIRMARY.-Resident Medical Officer. Salary, £l20 per annum, with furnished apartments, etc. Applications by June 23rd to the Secretary.
SURREY DISPENSARY, Great Dover Street, Sonthwark.-House-Surgeon. Salary, £120, and furuished apartments. Election on June 26 th .
WESTPORT UNION.-Medical Officer, Westport No. 2 and Loulsburgh No. 2 Districts. Salary, £39 per anoum, and fees. Election on June 24th.
WEST SUSSEX, EAST HANTS, AND CHICHESTER INFIRMARY-HouseSurgeon. Salary, £100, with board and lodging. Applications by June 30th to the Honorary Secretary, E. Arnold, Esq., White Hall, Chichester.
WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL. Resident Assistant. Board and lodging, etc. Applicatlons by June 25th to the Chairman of the Medical Committee.
WORCESTER GENERAL INFIRIIARY.-House-Surgeon. Salary, 2100 per annum, board and residence. Applications by July 9th to the Secretary, Worcester Chamber, Pierpoint Street, Worcester.

## MEDICAL APPOINTMENTS.

Anderson, W. A., M.B., C.M.Edin., appointed Assistant Medical Officer to the Bucks County Lunatic Asylum, vice H. L. Grant, M.B., C.M.Edin., re signed.
Brown, John, M.D.(Glasgow), appointed Physician to the Anderson's College Dispensary, Glasgow

Campbelle, S. G., M.D.Edin., M.R.C.S.Eng., appointed Surgeon to the Ander soд's College Dispensary, Glasgow.
Jones, Hugh R., M.A., M.B., B.C.(Cantab.), B Sc.(Lond.), appointed Surgeon to the Liverpool Corporation Waterworks, Llanwddyn.
Kennedy, John, L.R.C.P., L.R.C.S.Ed., appointed Physician to the Aaderson's College Dispensary, Glasgow.
Macaar. Allan J., M.R.C.S., L.R.C.P., appointed Ophthalmic Clinical Assistant to Kiag's College Hospital.
Manby, E. P., M.B., M.R.C.S., appointed Resident Medical Officer to the Chelsea'Hospital for Women, vice E. G. Peck, M.R.C.S., resigned.
Martin, Sidney, M.D.Lond., M.R.C.P., Pathologist to the City of Loodon Hospital for Diseases of the Chest, Victoria Park, appointed Assistant-Physician to the Hospital.
PENNY, W. J., F.R.C.S.Eng., L.R.C.P.Lond., appointed Assistant-Surgeon to King's College Hospital, vice W. Rose, M.B., F.R.C.S., resigned.
Ritchie, John, M.B., C.M.(Glasgow), appointed Consulting Surgeon to the West of Scotland Convalescent Sea-side Home, Dunoon, N.B., vice James Denniston, M.D., resigned.
Rose, W., M.B.Lond., F.R.C.S., appointed Surgeon to King's College Hospital. Seal, C. E., M.R.C.S., L.R.C.P., appointed Clinical Assistant to the Western Fever Hospital, Fulhata.
SHaw, P. F., L.R.C.P.Ed. L.F.P.S., L.M., appointed Surgeon to the Anderson's College Dispensary, Glasgow.
Stark, J. Nigel, M.B., C.M.Edin., appointed Surgeon to the Anderson's College Dispeusary, Glasgow.
Sideneam, G. F., M.R.C.S., L.S.A., appointed Medical Officer to the Dulverton Union (No. 1 District) and Workhouse, Somerset.

Death of Miss Clugston,-Miss Beatrice Clugston, so well known in Glasgow and the West of Scotland for her philanthropic efforts on behalf of the sick poor, died at Ardrossan on June 4 th, at the age of 61. From early womanhood her life was wholly spent in devising means to relieve and comfort the suffering, and her name will always be identified with the institutions ahe founded and the successful hazaars she promoted to provide funds for their maintenance. Miss Clugston was the originator of the Dorcas Society in connection with the Royal Infirmary. She founded the Convalescent Home at Lenzie, and by a bazaar raised $£ 6,750$ for its maintenance. By a second bazaar she raised $£ 5,000$, of which $£ 3,000$ were giren to the Sick Children's Hospital, and the balance is now held by the Glasgow magistrates and council in trust for the Dorcas Societies in connection with the Belvidere, Knightswood, and Govan Fever Hospitals. Miss Clugston's third great bazaar realised $£ 8,500$ to establish a convalescent bome at Dunoon. Her fourth bazaar was for the Broomhill Home for Incurables, and realised $£ 14,000$; while by her latest effort she raised over $£ 16,000$ for the benefit of these two homes. In Norember, 1876 , Miss Clugston was presented with $£ 3,000$ as a mark of the esteem and honour in which she was held by the community, and recently some of her friends purchased an annuity for her by which, her private means being exhausted, she was enabled to live in comparative comfort. Although she had been for some time in failing health she continued to take a keen interest in the welfare of the various institutions organised under her superintendence.

Presentation to Dr. Talfourd Jones.-After being connected with the Breconshire Infirmary for twenty-two years, first as House-Surgeon for six years, and then as Physician for aixteen years, Dr. T'alfourd Jones recently resigned his appointment there, and removed to Eastbourne for the benefit of his health. The committee of the infirmary appointed Dr. Talfourd Jones consulting physician, and passed a resolution of thanks in recognition of his "very valuable and efficient professional services" rendered to the hospital and the public. The governors and subscribers to the Breconshire Infirmary, and other friends, subsequently raised a testimonial, which was presented to Dr. Talfourd Jones early this month. We may add the expression of our hope that in the more genial climate of the South Coast, Dr. Jones, who is a pastpresident of the South Wales and Monmouthshire Bransh, may shortly be completely restored to health.

Threatened Water Famine at Liverpool.-In consequence of the scanty rainfall during the last twelve months, the water in store in the Liverpool reservoir at Rivington Pike is less than half the usual amount, and the supply to the city is turned off for eighteen hours out of the twenty-four. The usual quantity of water is, however, expended for flushing the sewers and other sanitary purposes, water from the Mersey being employed to aome extent. To this must be attributed the fact that the dearth of water geems to have no ill effect on the public health. The deathrate for the week ending June 9 th was 14.7 per 1,000 , being 1.9 below the rate recorded a fortnight before, and which was atated to be the lowest on record.

University College llospital.- $\Lambda$ public dinner in aid of the funds of this charity was held on Tuesday last at the Ifotel Métropole, Lord Iferschell presiding. Lord Ilersehell, in speaking of the claims of this hospital, said that a scheme was on foot for rebuilding the hospital, and he trusted that when this was done, which must be before long, they would, with the aid of the public, have a building which would befit the great work which the institution was doing for the people of London. The total amount of donations in connectiou with the festival was announced to be upwards of $£ 1,900$.
A Centenarian.-The death of a veteran Polish officer named Kurkovski is reported from Makoff. It is said that it can be clearly proved that he was born in 1732, and fought under Kesciuszzo.
In consequence of the death of the German Emperor, the laying of the foundation stone of the new hospital, to be built in West Ham, by the Duke of Cambridge, arranged for June 23 rd, has been postponed.

The Sheffield guardians have unanimously voted $£ 25$ to Dr. G. P. Godfrey, medical officer to the workhouse, for extra services during the epidemic of small-pox.

## DIARY FOR NEXT WEEK.

## TUESDAY.

Rotal Coliege of Phisictans of London, 5 p.m.-Dr. Donald Macalister: The Croonian Lectures on Antipyretics.

## WEDNESDAY.

College of State Medicine, Burlington lIonse, 4 P.M. - Sir Robert Raw linson, K.C.B.: The Rise and Progress of Sanitary Engineering within the Present Centary.
British Gys.ecolonral Society, 8.30 p.n.-Specimens will be exhibited by Dr. Fancourt Barves, Dr. Granville Bantock, MIr. Lawson Tait, Dr. Jichard Smith, Dr. Mansell-Moullin, and others. Dr. IIenry T. Rutherford: Case of Uterine Fihroid successfully treated by Electricity. Dr. C. D. Sherrard: Retroversion of the Gravid Uterus at the Fourth Month. Council, 8 1.m.

## TBURSDAY.

Purlic IIfalth Medical Society, 6.45 P.m.-Council's Report and Balance Sheet. Election of Óficers. Election of Council. Dinner.
Neurological Socrety of London, National Hospital for the Paralysed and Epileptic, Queen Square, Bloomsbury, 8.30 P.M.-W. H. Gaskell, M.D., F.il.S.: On the plan of formation of the Spinal and Crauial Nerves, together with suggestions on the origin of the Cranial Nerves, together with suggestions on the origin of exCentral Nervous system. Professor schaiter, recently shown to the Society.

FRIDAY.
Botal College of Physicians of London, 5 p.m.-Dr. Donald MacAlister : The Croonian Lectures on Antipyretics.

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserting announcements of Burths, Marriages, and Deaths is 3s. 6d., which should be forwarded in stamps with the announcement. BIRTHS,
Hoets,-On May 3rd, at Yass, New South Wales, the wife of Alton Kingsley Hoets, M.n.C.S.Eng., of a daughter.
Parkhill.-Ou June 13 th , at Charch Gresley, Borton-on-Trent, the wife of Saml. J. Parkhill, M.D., of a daughter (premature and stillborn).

## DEATH.

Brickwerl-At Sapbridgeworth, where he commenced practice in 1829. John Brick rell, M.R.C.S.E., aged 80. Friends please accept this Intimation.

## LETTERS, NOTES, AND ANSWERS T0 CORRESPONDENTS.

Commoncatrons respecting editorial matters should be addressed to the Editor, 49 Stmad, W London; those concerning business matters, non-delivery 129, stand, Strand. W.C., London.
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Corrand, wicist who wish netice to be taken of their communications, should anthentieate them with their names-of course not necessarily for pablicatien. Cormespondents not answred are requested to look to the Notices to Correspondents of the following week.
spondents of the following week. Office of teis Jourial cavnot under ant MANUSCRIPTS FORTARMED TRMED.
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of Health if they will, on forwarding their Annual and othor Reports, favour us with Duplinate Copies.

## QCEIIES

## Artiseptic for Minwivas.

Drapersaby Subogor asks: Wonlel any of your readera tell me what is the best antiseptic to recommend for the use of milwives to a dispensary? Besides being efficiert it should be safe and not unpleasant for common use, and inexpeusive. Creoline has beed suggested.

Medical Practice in ltaliz.
F.R.M.S. wites: I receutly saw a letter in the Jourral stating that medical mon with British qualifications are permitted to attend profesaionally their mon with British qualin itas without holdiog any Italian qualification. Is conotrymen residing in Italy without homen required, and, if so, how is it any permission obtained? Conld a medical man accompanled by damp, and who has a private moderate heat or cold when not accompanled by damp, and who has a private income of $£ 350$ to $£ 400$ a year, add a few hundreds a year to his income by practislag iu Florence, or Milan, or some other suitable town where Eaglish sojonrn? Which would be the hest place? Coast towns do cot suit thmowing to the damp. Are there any works on the cllmatology of the European conntries (or any of them) bordering on the Mediterranean, giviog minoto conntries (or auy of them) borded minirunan temperatures, relative humidity particalars as to the maximumaudmine privileges of practising in Continental etc.? The advantage of reciprocal paveur of State examinations which would be matually recognised by the States as conferring these privileges.

## ANSWERS.

Trfatmeyt of Wound of Leg.
Mr. Augustus Clax (Senior Casualty Surgeon, Queen's Hospital, sod Assistant Surgeon, Orthopedic and Spinal Hospital, Birmingham) writes: In answer to the query put by "S. H. J." as to the treatment of a wound of the answer to lane contidently recommend strappiog as ordioarily applied to ukers of the leg. The strappiog should exteud at least three inches above and of the leg. The strappiog shound and the leg should then be bandaged over the strapping as below the wound, and the teg shoun not have the desired effect quickly, the high up as the knould he dasted with powdered boracic acid, and the strapping applied as above.

## Treatment of Webbed Fingers.

Ma. Augustus Cisy also writes:-In auswer to the question as to the best operation for webbed fingers, may I say that where the webbed condition is not due to any osseous or deeper tissue coalescence bat merely s prolongais not due to and osslieve Didot's operation is undoubtedly the best, judging tlon of the skin, by its ultimate results. This, as your correspoal surlace of one finger, and by making two Haps, one from hali the dorsal surface These flaps are then by the second from halsal flap ralsed from one finger fits on to the palmar surface of its neighbour and vice versá.

## Lectures.

In answer to several correspondents, we may stato that Sir Janes Paget's address to the students of the London Society for the Exteusion of Uiversity Teaching bas been publisbel by the Society, and mar be obtained from the Teaching in the Cbarterhouse, E.C., price bd. Mr. Murray's lecture on the Physical Training of the Greeks and Rowans, given at the Parkes Museum of Hygiene, has not, so far as we are aware, been published in foll.

## Wicker Coffins.

Mr. William Kirby, basket maker, 40, St. Peter's Street, Derhy, writes to say that he is the inventor of wieker coffins, which are, be considers, better uamed grave baskets, such as were shown at Stafford House some years since. The London Necropolis Company, Lancaster Place, Strand, hare miven up the use of wicker coffins, which they consider unsnitable, and now employ speeial "earth-to earth" coffins, for which they claim the same advanhages.

## TREATMENT OF ABOBTION.

Surgeon writes. I was asked to attend a Mrs. -, who was threstened with a miscriage. She was between three and four months pregnant. I did all I miscarrage. She this occurring, but the event came off, and I delivered her of could to prevent a fatus about the age above stated, ater consequence of great a lhesions, I tried to remove the after-birth, but, in consequence of great ansesions, in could only remore a small quantity. Acting upon the instructions given in Churchill's Midwifery. I decided it was better to try the result of ergot, and wait for eveuts; this I did, and, upon the afternoon of the same day, a large clot and another portion of placenta came away, and the hamorrbago decidedly abated. I continued in attendance upoin her daily for nearly ted decidelly abated. I conance she seemed to be nearly well. I cautioned her doys, when to all appearance she seemedy period, and ro do very little work to keep very quiet until her nextice of my request, and fooding again comor walking. She took no hotice of my request, rest and treatment ; and, menced in three weeks, Which again yo go with some friends to spend the when nearly well, she intimated a wish to go with some then only upon the day a distance off. I rery reluctantly consentedram. instead of which she understanding that she went and returned by tram. instear of "hich the drove over rongh roads, and in a very shaks reliscle. Finog her, I found the amenight more violently than ever, and, upon examiniog her, I found the os dilated to the size of one shilling, and, passing ny tingers through, detected a piece of placenta firmly attached to the middle part of the uterus. and extending beyond the reach of my finger: and as I coald not get nore than onefinger into the uterus, I plagged, and waited for three hours, and gase erget, the flomiag still continaing in spite of the plugging. I removed gave ergot, ric foonag ater, and again made amamation, and with very hard work removed the latter, and again made an oxam on mok me quite half an hour to carefully the portion of placenta left. It took me quite dation of the os uteri.
detach this, in consequence of the unditatabe Did I do right in following out Now, sir, the poins in question are : portion of placenta; or weuld it Churchill's instructions, and leaving the portion ofo it, runnjug the risk of have been better to forcibly dilate the os, and remowo it, runnug the risk on phlehitis and buerperal septicania? 1 am very maxions to have a reply on this point, as I havo been greatly blawed by the frienuls for not doind io at the time, and threateved with all sorts of calamities in consequence. inay say that three medical men of noto and standing in the neiglibourhood say I did quite the correct thing. One will nut give an opinion, snd one or two
ot hera are trying to make capltal out of it. 1 shall fecl obliged if you will give me your opinlon, is all books I lave referred to aty the conrse I took whe ibe correct onk.
-. In certaln conditions, such as the case related presents, it is not wise to perserere too forclbly to detach the whole phacenta at once. The very cireumstanoed that leal to the alourtion are likely to be attended by undue atheslon. Waltand watch should be the rule. If hamorthage recur, ergot may the trial acconliag to routine rule; if not stopping, injeetions of hot water and diatation to faclitate detachment of phacenta come into use. But oolong as any placenta renaine, rest should be ohservel. This the patient oeglectuvl.

## (NOTES, LETTELE, ETC.

## Income Tax.

Tei Txonme Tax Repatmext Agency ( 2 i , Colville Terrace, W.) write: In consmuctice of the numerous questivas which have been asked us, directly or indlrectly, after each litter of ours that you have published. Mr. Chapinan has, in his now edition of Income Tiur, and how to get it Refunded, added (page 29) a special soction for doctors, telling them what deductions they are aloweit to make from their gross income. It is a nuost important addition, for our expertence has shown us that there is scarcely a medical man who is not greatly overtaxed and does not pay considerably nore than he would do if he went the right way to matie out his returns. We can boast that scarcely one of our clients in the professlon has not cither obtained a refuod or got a reduction in asseasment; often they get both. We know as a fact that, in the month of May alonc, the Inland lievenuc issuct upwards of 20,000 post office orders for refunds, and wo take credit to oursclves for a goodly number of orders for refunds, and wo take credit oo ourscives for a goonyy number of those, either directly or indirectly. Another little look we strongly recommend is Lawrio's Ilow to -Appeal against your Rintes. Armed with these two books no person should be over-taxed or vier-rated. Mr. Cliapman has also published auother useful handbook, Inhabited House Duty.

## Ax Appeal.

Wre desire again to call attention to the arpeal printed on April 14th (p. 817) to enable a medical man of good position, who has been reduced to destitution throngh no fault of his own, to buy a small practice and make a living for himself and wile. Contributious may be sent to Dr. Farquharson, M.P., Migvie Loige, Porchester Gardens, W., or to Mr. Marmaduke Sheild, F.R.C.S., 20, Stratford Phace. Subscriptions have been receired from Sir William Jenner, Sir James Paget, Sir Joseph Lister, Sir Andrew Clark, Sir Prescott Jenner, Sir James Paget, Sir Joseph Lister, Sir Andrew Clark, Sir Prescott llewitt, Sir Speucer Wells, aud ot hers, biuce the last insertion of thins appeal, the lollowing subscriptions have been received: Dr. Francis Waring needed.

A Source of Infection.
M.D. Writes: Although my notes upon "A Source of Infection" were not intended to initiate a discussion upon antiseptics in midwifery, but to point to a possible hidden source of infection, 1 see, from the Journal of June 16th, Dr. A. D. Macdonald has adversely criticised my remarks. My answers to his strictures are: first, when I say I used the "strictest antiseptic treatment," I mean it. Although I do not happen to prefer your correspondent's favourite drug (iodine), and although my conception of antisentic midwifery is not embodied even in the free use of any single antiseptic, yet. I flatter myself I carry out in every labour case the strictest antiseptic treatment. I do not feel myself called upon to state seriatim what these are, but 1 may mention the methods I adopt are partly those I carried out when resident accoucheur the methods I adopt are partly those I carried out when resident accoucheur in a large maternity hospital, and partly those gained by experience and a
careful atudy, not only of new drugs, but new methods. Secondly, your correspondent attempts almost t point the finger of acorn when he insists that, had the syringe been disinfec il, there would have been no case of puerperal septicxmia, that the space, the Jovrxal would not have been uselessly occupied, and that he would, thave had to write pointing out my waywardness. To this I reply that the yringe was disinfected thoroughly before using it. Moreover, I did not begin intra-uterine irrigations until the disease had commenced. Thirdly, Dr. Macdonald advocates the return of the syringe to the chemist, to be given out on loan to other women in childbed, and says: " The syringe, 1 hold, should have been purified by jodine and perhaps also by corrosive sublimate." Why also by corrosive sublimate if iodine is the antlseptic? If Dr. Macdonald has not faith in iodine alone, why does he advise me to trust it? An antiseptic is either effective or it is a sham. Fourthly, I Irankly aulmit I would rather expose myself to the charge of insisting upon even a working man spending la. tid. or 2 s . in purchasing a syriuge for no other purpose than destroying it, than burden my conscience with the doubtful economy of sending out on loan any instrument which has been used in a case of puerperal septicamia washed with two separate antiseptics, evidently suggesting my taith in neitber.

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## BOOKS, ETC. RECEIVED.

Saggio Sulla Scienza della Patolngia Generale osull' Accordo della Speculazione col Naturalismo. per 12. Tornatora. Parte Prima. Napoli. 1888.
Igiene degli Organi Vocali. Ai Sir Morell Mackenzic. Traduzione Italiana. del Dr. F. Massei. Napoli. 1888.
The Textbook on Surgery-General, Operative, and Mechanical. By John A Wyeth, M.D. London : Swan Sonnenscheiu, and Co. 1888.
On Diabetes and its connection with Heart-disease. By Jacques Mayer, M.D. London: J. and A. Churchill. 1888.
Ilome Nursing. By E. II. Margery Ilomersham. London: A. S. Mallett, Allen and Co.
Nerve Prostration and other Functional Disorders of Daily Life. By Robson Roose, M.D., F.C.S. London: IF. Ki. Lewis: Is88.
On the Treatment of Acute Rheumatisn with special references to the Use of the Salicylates. By Donald W. C. Hood, M.D. London: Karrison and Sons. 1888.

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## REMARKS

## ON MYELITIS

Read Lefore the North Iondon District of the Metropolitan Counties Branch of the British Medical Association.

By J. S. BR1STOWE, M.D., LL.D., F.l.S., Sentor Physilclan to St. Thomas's Hospitat.

Acute inflammation of the spinal cord is always a serious discase, generally attended with grave danger, nnd in a large proportion of cases fatal. Dut it varies so much in its symptome, in dependence partly on the seat and extent of inflammation, partly on its intensity, that its diagnosis is often very obscure, and it is consequently liable to be confounded with other affections of the cord, or with diseases of the peripheral nervous system.

As a contribution to an exceedingly interesting subject I propose to narrate, and comment briefly on, several cases of what were, or on good grounds were believed to be, cases of acute myelitis, but which yet differed so much from one another in their severity, in their symptome, and in their event, that they might well seem to have little or no pathological connection with one another.

The first case 1 shall quote is a typical example of severe myelitis ending in incomplete recovery.

Case r.-The patient was a rural postman, 19 years of age, who was sent to me on May 17th, 1886, by Mr. Alfred Wright of Romford. On May 9 h, while going his usual rounds lie felt hot, for the day was sultry, and to cool himself walked into a brook with his boots on, and then lay on the grass and fell asleep. After he had thus rested for a time he walked home, feeling perfectly well, and he remained well during the rest of the day. Shortly after going to bed, however, he experienced some numbness and tingling in his arms and lege, and observed that he liad a little dificulty in moving them. These symptoms had become much aggravated by the next morning; when he was found to be suffering from incomplete but well-marked paralysis of the arms and legs, with numbness of the lower extremities. The paraplegic symptoms increased upon him during the ensuing week, at the end of which time he was admitted into St. Thomas's. He had, up to the onset of his illness, almays enjoyed excellent bealth, and had never had syphilis or rheumatism. IIe was a spare, healthy-looking youth, suffering from paralysis of his limbs and trunk, difficulty of breathing, and want of control over the rectum and bladder. He had absolute motor paralysis of the lower extremities, of the intercostal muscles, and of the other musclea of the walls of the trunk; so that he was quite unable to move any part of the legs, or to shift the position of his body as he lay in bed. The upper extremitics were partially paralysed. He could not move his fingers or thumbs in the least degree; he could flex and extend the hands on the forearms slightly, and could also pronate and supinate the forearms. The triceps muscles were nlmost absolutely powerless ; but the flexors of the forearms on the upper arms retained some power, and the arms conscquently tended to become tlexcd at the elhows. IIe could use the muscles about the shoulder-joints fairly well. Ilis breathing was entirely diaphragmatic ; and, though he seemed to breathe without particular difficulty while making no effort, he soon became breathless when speaking or coughing. There was no paralysis of the muscles of the head and neek or face. The paralysed muscles were flably but not tender. Sensation was impairal, hut nowhere absolutely lost, throughont the lower extremities, and the lower part of the trunk to the level of the fifth dorsal vertebra behind and the ensiform cartilage in front. The anesthesia extended a little higher on the right than on the left side. The tendon reflexes at the knees and ankles were wholly absent. The plantar reflexes was brisk on the lefl side. fecble on the right. The rremasteric and abdominal relleses were absent: tho scapular well-marked. The scratcle of a pin on any part of the body was followed in a few seconds in factitious urticaria. The bladder was distended, the urine dribhling away. This fluid was slightly ammoniacal and cloudy with mucus. Bowels confined; but the facees had escaped unconsciously. The skin over the sacrum was reddened, but as yet frec from bed-sore. There was no affection of the organs of aense, and the pupils and optic disca were normal. Teuperature, 09.8 ; pulse, 7 ;- respiration 16.
For aome tro or tirce weeks' aftar admission the pationt re-
mained very ill, eufering much from inflammation of the bladder, occasional dyspnea connected with the paralysis of his intercostals, and loss of appetite, and sickness. Moreover the anesthesia became more pronounced and extended a little further upwards; and the paralysis of the arms, and more especially of the left arm, increased; the arms, too, became rigidly flexed at the elbows, owing apparently to the combination of nbsolute paralysis of the triceps muscles, with the retention of comparatively considerable power in the Hexors; and bed-sores formed. Eren during this period, however, there was some return of power to the left lower extremity.

After this there ensned a perion of two or three months, in the course of which there was, on the whole, conciderable improvement; but during which certain phenomena remained with little change or even underwent aggravation. The anæsthesia gradually disappeared. Its upper limit descended slowly; and recovery advanced more rapidly in the legs and feet than in the thighs and lower part of the abdomen. By the end of August sensation was completely restored. The arms never lost feeling.

The improvement in the voluntary power over the lower extremities was uniform though slow. The left recovered the more rapidly; but slight return of movement was noted in the right as early as June 10th. A week later feeble knee-jerks were for the first time obtained. They were well-marked a few days later, and soon became unduly brisk: and early in July ankleclonus was elicited on both sides. At this time ho was able to move his legs, ankles, nnd toes freely as he lay in bed, the movements on the right side being feeble, those on the left of considerable power, the muscles of his trunk had all become stronger, and he was consequently able to move himself freely in bed. ly the middle of August he could stand with assistance, and early in September he conld walk across the Tard by himself. At this time the lower limbs were small, having emaciated in some degree during his illness, but there had been no disproportionate wasting of muscles, and the knee-jerks continued excessive and ankle-cloni well-marked.

The recovery of the intercostal muscles was extremely slow: nor was it ensy to say when improvement began in them. Early in September, however, it was noted that the lower intercostal muscles acted fairly, although the upper ones seemed still powerless. Not long afterwards the chest moved freely.
As before remarked, the upper extremities, and more especially the left, continued to fail after the patient's admission, 80 that at the end of a few weeks he lad no power whaterer in the forearms or hands or in the triceps muscles, though the flexors of the forearms on the upper arms still retained some power, and the muscles about the shoulders, though extremely weak, remained relatively strong. These muscles, moreover, wasted very rapidly. The deltoids became small and the muscles of the upper arms shrank almost to nothing. But the most remarkable attenuation was shown in the forearms and hands. The former became little more than skin and bone, and presented concave depressions before and behind, between radius and ulna in their whole length, the thenar and hypothenar eminences wholly disappeared, and the spaces between the metacarpal bones were deeply depressed. But long before the emaciation of the forearms and hands had attained its extreme point, the museles about the shoulders and those of the upper arms liad begnn to improve; so that about the middle of July he could raise his upper arms freely and could extend the forearms. This improvement continued up to the time of his leaving the hospital. But little or no change took place in the condition of the forenrma and hands; and the ruscles of these parts, for the most part. refused to respond to galvanism. On the right side, however (which hatl always been somewhat less affected than the left), ther patient could adduet the thasb slightly: and the extensors of the wist and of the fingers showed a trace of galvanic irritubility.
The bed-sores, which were in process of fornation at the time of admission, were slow iu healing. They finalls got well during the month of September. It was long also before he obtained complete power over the bladier: the urine up to a late period running away from him involuntarily as he lay in bed. It was long also before the inllammation of the bladder, which pres.nted occasional relapses, wholly subsided, and the urine hecame absolutely healthy:
He was discharged from the hospital on the lsi January, 18:\%, being at that time in excellent bodily health. Ilo was very thin: his legs were small, and there was oxagguration of tendon reflexes with ankle-elonus, but be could walk well ; bis trunk muscles
had recovered perfectly; he had the use of the muscles of the ahoulders and upper arm, which, howerer, were small and weak; bus there was scarcely any amendment in the forearms and hands, which still presented no visible trace of muscle, and the latter of which were without power of voluntary motion, and bent inta the form of claws.

The treatnent consisted mainly in rest, in sedulous attention to the condition of the skin and bladder, in the endearour to improve the general health with tonics, etc., and for some months in the daily use of the constant current.

There cau be no doubt that the case just narrated was a typical case of myelitis, brought on by exposure to cold and wet, affecting mainly the cervical and upper dorsal portions of the cord, and resulting (as so often happens in cases in which the inflammation is extensire and severe) in permanent disorganisation of certain tracts of the cord, and permanent paralysis with nutritive lesions in the peripheral organs innervated from these disarganised tracts. I may add that I have seen the patient at intervals since he left the hospital, and that the condition of his upper extremities remains unchanged, while in all other respects his health has improved.

It is interesting to compare with this case another which has recently been under my care, in which the affection was extremely slight (so slight indeed that possibly some may be inclined to dispute the accuracy of my diagnosis), and from which recovery was comparatively rapid and complete.
CASE II.-A healthy young man of nineteen, a clerk on the Stock Exchange, went on Sunday, December I9th, 1886, for a walk from the West End of London to Hampstead IJeath. The day was extremely cold, and he sat and sauntered about on the heath for aome time. Ne walked home, and on his way complained that his legs were cold, and that he could not make them warm. The next day he went to the city as usual, and continued to go backwards and forwards until Christmas Day. During this period the sense of coldness in his legs continned; and accasionally he complained of numbness in them; and of pins and needles, especially when they were touched. On one occasion he went to the closet, and got up after a time, thinking he had gone ineffectually, but found to his surprise that he had passed a large stool. This was the anly occasion on which anything definitely amiss was noticed in regard to his emunctories. His brother, who was a medical student, found out also during this week that there was impairment, but not actual loss of feeling, in the feet, ankles, and along the front of the legs, and that his tendon and superficial reflexes were normal. I did not see him professionally until the 25 th, when there was already some improvement. At that time he still complained of coldness, with pins and needles, in the legs ; and there was marked impairment of sensibility in the regions before named. But his reflexes were normal, and he was healthy in all other respecta. In the course of the next ten days the condition of his right leg becarme normal ; but the left leg from the knee downwards still felt slightly numb; and tactile sensibility was obviously impaired in the feet and ankles. At the end of a fortnight from that time le waa perfectly well. On subsequently making minute inquiries I learnt, in addition to what is stated above, that while at his warst the passage of his mations was scarcely perceived by him, and that on several occasions he dropped a slipper and walked about without knowing it. IIis general health throughout was perfectly good; his tendon reflexes remained unaltered, and the muscular strength appeared to be unimpaired. He never had tenderness or pain in the muscles ar nerres. Ile has continued well ever since.

There is no reason to doult, I think, that this was a slight case of myelitis. The apparent cause, the symptoms, and the result, are all compatible with this view. The ouly reasonable alternative suggestion is, that it may hare been a case of multiple neuritis. Whichever hypothesia, however, be accepted, it is abvious that the sensory region was alone or mainly involved.

In contrast with the last, the next case presented impairment of the motor functions only.
CAse III. -The patient was a married woman, aged 49, who had onjoyed excellent health. She had been nursing her mother, night after night, for some time; going to the house (which was about a mile from her own) every evening. On the evening of January 9 th, 1887, which was exceeding cold, she was kept standing outside her mother's house for a considerable time, and she recollects that while waiting ahe had slight aching throughout the left leg. She sat up as usual, the room being very cold, and her legs feeling very cold. About 3 A.M. she tried to rise from
her chair, and found to her surprise she had lost all power in her legs. She had to be taken home in a cab, and remained paralysed, and with little or no control over her evacuations, until her admission on January 20 th. She said that her legs had felt numb for a day or two at the beginning, but that this condition had disappeared.

On admission she had a few small bed-sores; she was unable to stand, but cauld move her legs feebly in bed; there was no pain or loss of sensation; the knee-jerks and plantar reflexes were present; she could not sit up without assistance; the urine dribbled away and the mations escaped without cantrol; she presented some tenderness along the dorsal spine, and the left lower extremity was somewhat cedennatous. It may be added that she had bad œedema of the left leg off and on during the last two or three years. With the exception that her bed-sores troubled her for some time, and that for some time her urine was ammoniacal and affensive, she improved rapidly during the early part of her atay in the hoapital. The right leg had recovered completely by the end of three or four weeks, and the left leg had improved so much, that with assistance she could walk a little; also she re-acquired control over the rectum and bladder. Then the œedema in the left leg increased, and this limb consequently became weak, and she continued with little change for two or three montho. Subsequently the cedema diminished, and the left leg improved again; but when she left the hospital, nearly five manths after admission, the left leg was still somewhat cedematous, and was still 8o, weak that (though she could move it freely) she was unable to stand upon it. It was supposed that the odema was connected with some old plngging of the veins. At any rate, no disease within the abdomen that might account for it could be discovered. I may here mention that the tendon reflexes became unduly brisk.

In this case, as in the last, there is roam for difference of apinion with regard to the nature of the disease. It is obvious, however, that the lesion occupied the motor region of the cord, and unly a limited extent of it in the dorsal region. There was certainly no evidence of vertebral disease; there was no history of syphilis, nor was she treated for syphilis; there could not have been a tumour. Indeed, the anly alternative suggestion is that there may have been sudden hæmorrhage into the substance of the cord. This explanation, howerer, is for many reasons unlikely.

I pass from these to the consideration of two other cases in which fatal myelitis was associated with similar affection of limited regions of the nervons organs within the skull; cases which seem to show that, just as the more chronic inflammatory condition, commonly called sclerosis, has a tendency to attack at the same time, or in sequence, different parts of the nervous centres, so the mare acute form of inflammation may occasionally become disseminated. At any rate they show that inflammatory softening at first limited to the brain or cord is apt to become complicated by inflammatary saftening of other parts of thase organs which have no direct or apparent connection with the regions affected in the first instance.

CASE IV. -The first of these cares was published in detail in the fourth volume of the Ophthalmological Society's Transactions by my calleagues Dr. Sharkey and Mr, Lawford. It was that of a girl, aged 17, who was admitted into the Royal London Ophthalmic Haspital on November 22nd, I883. She had had fairly good health up to November 9th. On that day her eyesight began to fail, and by the l3th she was quite blind. She had had neither headache, aickness, paralysis, nor fits. On admission she was well nourished bnt somewhat anæmic. She had slight enlargement of the thyroid bady, which had existed as long as she could recollect, but her only complaint was of blindness. The pupils were dilated and inactive to light, but there was no ocular paralyais. Well marked optic neuritis was discorered in both eyes. In every other respect she seemed healthy.

She continued in the aame state until December 8th, when ahe observed a little weakness in the left leg; this rapidly increased, so that on the 12th, when she first complained of it, ahe could not walk; the leg was powerless and slightly rigid; sensation was impaired in it, and the knee-jerk was excessive. On the 13th the paralysis of the left leg had advanced, and there was also slight loss of power in the right. On the 14 th there was absolute lass of power in the left lower extremity, and anæsthesia extended on the same side as ligh as the nipple; the right leg was partially paralysed and anæsthetic, and she passed urine into the bed for the first time. In the conrse of the morning she had a fit lasting for about ten minutea, and unattended with unconsciousness, in which the right arm and leg were convulsed. Her tem-
sores extended in area and depth ; the hladder (varying a lith from time to time) continued inflamerl; he lost flesh and strength: and he suffered so much and so constantly from pain in the loias, hips, and back of the thighs, that (although no tumour could-ke. felt) it led me to suspect that he was suffering from malignant diseare about the lumbar vertebræーa suspicion which I entertained to the last.

On January Cth it was noted that sensation had become impaired in the left lower extremity, as high as the knee in front and the buttock behind, that both knee-jerks were now absent, as also the cremasteric and lower abdominal reflexes. Farly in February it was observed that his legs were apt to beceme atiff and drawn up involuntarily; but, excepting that he was weaker and more emaciated, no change of importance hall taken place. The plantar reflexes were present, hut feeble.
During the afternoon of Webruary th it was found that the patient had almost suddenly lost the use of his left arm; be conld not lift it from the bed. He had no power of flexion at the clbow, and very little power of flexion or extension at the wrist er finger-joints. The hand felt numb, but there was no discernible anosthesia. The elbow-jerk was diminished on this side. No pain, giddiness, or fit of any kind attended or had preceded this paralytic attack. Ou the Gth the loss of power in the arm (which was kept rigidly ex-
tended) was absolute, but there was still no anresthesia in it the tongue was protruded to thas still no anasthesia in it; also ness of the lower part of the feft, and the foce some weakwere important, for they shewed that the paralysis of these facts not spinal, as had been at first suspected, but cerebral. time it was noted that painful impressions made on the left were referred by the patient to the right leg; but be was apathetic, aud always disinclined to concentrate attention or to answer.
Very little further clange occurred. A day or two after the last ebservation was made the paralysis seemed to have disappeared from the face and tongue, and the patient was able to nove his thumb and fingers slightly; but shortly afterwards the weakness of the lower part of the face and tongue had returned. His bed-sores, which had improved, began to extend, his urine was ammoniacal, loaded with ropy mucus, and highly offensive; he grew more and mare apathetic and drowss, though still wearing the aspect of much suffering; his pulse lecame rapid, he perspired profusely, and evidently the end was fast approaching. He died at noon on Fehruary 18th, his death being preceded by drowsiness, profuse swad way, reat rapidity of pulse, and rising temperature. This $101^{\circ}$, but on the evening of the since admission between $27^{\circ}$ am. 16 th and 1 Sth it varied betw $95^{\circ}$ it rose to 100 ; during the 18 th had risen to $10.56^{\circ}$, $10^{\circ} 30^{\circ}$ and $10^{-}-6^{\circ}$, and immediately after death was found to be 109.4.

It need only be stated, as respects treatment, that having regrard to his syphilitic history he was put on a conrse of iodide of porassium and mercury, that morphine was employed to relieve lis distress, and that his bladder was systematically emptied and washed cut with antiseptic solutions.

Necropsy.-The body was much emaciated, and there was a lons and deep bed-sore orer the sacrum. There were no syphilitic lesions anywhere, and, with the exceptions to which special attention will be drawin, the riscera were healthy. Membranes of braiu heaithy. A few patches of thickening were observed in the arteries at the base of the hrain, but the vessels were all pervious. In the centre of the right centrum ovale minus was a patch of yellow softening, in which were a few small hemorrhages. It was oral, about three-quarters of an inch in its long diameter, and only a few lines thich. Another patch of softening, about the same eize as the last, and also on the right side, involved the posterior third of the lenticulo-striate prortiou of the interual capsule, and thi coutiguous parts of the candate and lenticnala nulel. The two paects there quite independent of one another. In all other respects the brain was healthy.
wards the cord was extremely soft, in fact almost rertebra lowncrey and white matter could scarcely be distinguished in the lumbar region. To the naked eye all other parts of the cord seemed healthy:

There was no disease of the bones of the skull or cpine.
The hadde $r$ was inflamed; the ureters and pelres of the kidneys Were dilated and intlamed, and the substance of the kidneys was congested, and jresented a few minute abscesses.

The last case I slall quote is ene concerning the nature of
which there may reasonably be, as in regard to my third case, some difference of opinion. On the whole I believe the case to have ben one of myelitis; and partly for this reason, but more on account of its clinical interest, venture to include it in the present paper.

Cass vi.-IV. J., a carpenter, aged 27 , was admitted under my caro on March 25th, 1886. His health had been excellent, but he said that he had had local venereal sores, though never secondary symptoms. In the previous November, he was struck in the right flank by a lift, which came down suddenly upon him, and squeezed him against a table over which he was leaning. He was laid up for ncarly six weeks, not on account of any spinal symptoms, but mainly because of pain and swelling of the right knee. At the ond of that time, though still weak, he resumed his work. His present illness dated from early in Jannary, when he began to suffer from pain in the part of the back where he had been struck. This was followed by numbness and weakness in the left foot, which, in the course of a day or two, extended up to the knee. A fortnight later be began to lose feeling in the right leg. The anesthesia in his right leg and the loss of muscular power in his left had progressively increased, but he had never had incontinence of urine or freces.
State on Admission.- A healthy-looking, well-developed man. He had complete anæesthesia and analgesia of the right lower extremity and right side of the trunk, as high as the sixth rib in front and tenth dorsal vertebra behind. There was also a belt of anasthesia and analgesia, abont four inches wide, encircling the left half of the trunk, the upper level of which corresponded to the upper level of the anæsthesia on the right side. There was no impairment of sensation on the left side, excepting in the belt above described. There was considerable loss of power in the left lower extremity. IIe could move all parts of it in all directions, but the movements were very feeble, and could be arrested by the finger. The right leg, he said, was as strong as ever it had been, and it appeared to be normally powerful. He could walk when supported on the left side, but he moved his left leg feebly, and, at the same time, its movements were ataxic. The superficial reflexes were much exaggerated on the right side brisk, but normal, on the left side. On the right side the tendon reflexes rere feeble, but on the left they were excessive, and there were both ankle- and knee-clonus. Moreover, the testing for reflexes in the left leg bronght on violent tremors in it, lasting for some time. The abdominal reflex was absent on both sides. There was no loss of control over the rectum or bladder, and no bed-sores, and no affection whatever of arms, head or neck, or organs of sense. There was no pain, tenderness, or curvature in the course of the spine.

It is needless to gire details as to the progress of this case. It is sufficient to say that the account above given was fully confirmed by repeated observation; that he complained for some time of more or less uneasiness, pain, and sense of constriction about the loins and upper part of the abdomen; that gradually, in the course of months, sensation returned in great measure to the anæsthetic regions, and the left leg regained power; that after a white (although still the tendon reflexes remained more brisk on the one side, and the superficial reflexes more brisk on the other), the superficial reflexes became nearly equal on the two sides, while some excess of knee-jerk and ankle-clonus became developed on the right side; that delayed sensation was observed on the anæsthetic side as sensibility returned; that no evidence of spinal disease, or of tumour, or of extension of nerrons lesion ever appeared, that his muscles had not wasted, and his general health remained good; and that, when he left the hospital on August Iltli, although much improved, sensation on the right side was not restored absolutely, and his left leg was so weak that he could only walk with the aid of two sticks. But improvement was still in jrogress.
lior a time the patient was treated (in the hope that his disease was sypliilitic) with iodide of potassium and mercury; also an issue was mate near the spine, in the neighbourhood of the part on which the blow had been inflicted; and, latterly, the constant current was applied systematically:
In introducing this ease I said that there was room for difference of opinion in regard to diagnosis. The accident to which he naturally attributed his paralysis occurred eight or nine weeks before the onset of paralytic symptoms, and, although he was laid 11) after it for six neeks, this was mainly, if not solely, due to the injured knee : moreover, the blow he received from the lift was nis the right side just above the erest of the ilenm, and did not
he had vertelral caries; nor can I ba sure that this was not the case, for I have not infrequently known paraplegia to be due to vertehral caries, when there has been not only no spinal curvature, but no pain or tenderness whatever. But there was no direct evidence of caries, and the fact that he continued to improve, although allowed to get up, is opposed to this explanation. Whether the disease was syphilitic remains an open question. The patient seems to have had syphilis, hut had never question. any signs of secondary or tertiary disease. The belief that the symptoms were due to inflammatory softening of the cord-which, on the whole, is the view of the nature of the case which I am now disposed to adopt-is not, of course, incompatible with the syphilitic origin of the disease. The case is the most striking example I have ever seen of the limitation, in disease of the cord, of anesthesia to one side of the hody and of motor paralysis to the other side. It is clear that the lesion, whatever it was, in volyed only a short length of the left half of the mid~dorsal region of the cord.

I have little to add by way of comment on the above series of cases. There are a few points, however, which they seem to illustrate, and to which I may direct attention. In the first place, they show how widely cases of myelitis may differ from one a nother in degree of intensity and prospect of recovery. In the second place, they show that the inflammation may attack any region of the cord and any extent of it; and that the lesion may be multiple, and (as in disseminated sclerosis) affect at the same time or in sequence different parts, not only of the cord, but of the cord and brain. And, in the third place, they seem to show that, while in some cases the affection comes on immediately after its apparent cause, and rapidly attains its full development, in other cases its onset is insidious and its course progressive.

That myelitis is often attributed to exposure to cold or wet, or to both, is undoubted, and some of my cases are typical examples of this fact. It is probably in such cases that the onset is sudden, and the affection of the cord attains its highest point in a short time; but in some cases there is no evidence that temperature or allied conditions have had any cansative relation to the attack. In my last three cases no such explanation was suggested. In two of them there was a history of syphilis, but there is no sufficient reason to assume that in either of them syphilis was the cause of the myelitis. In one of these two the patient had received an injury, but so long an interval had elapsed between the accident and the coming on of paraplegia, that it seems scarcely likely that this was the actual cause In the remaining case, that of the girl of 17 , there was no hint of syphilis or injury, and the girl had been a healthy girl up to the very moment at which failing sight gave the first indication of
cerebral mischief. In her case, as also in my fifth case, the disease cerebral mischief. In her case, as also in my fifth case, the disease was prolonged and rendered fatal by secondary extension or dissemination of softening; but this extension would seem to imply the persistence and widening operation of the cause on Which the primary lesion itself depended, and would suggest, therefore, either the presence of infective organisms or some constitutional defect, such as tendency (from whatever cause) to olistructive disease of small arteries, and consequent nutritive changes in the part to which the obstructed vessels are distributed. I am inclined, arguing from the facts of certain cases of softening of the pons Varolii and other parts of the brain which I have met with, and some of which I have published, to believe that in many cases of softening of the cord the softening is immediately due to olstruction (thrombotic or other) of the smaller arteries. And I may point out that the strict limitation of the lesion to the lateral half of the cord, as occurred in my last case, is best explained by this hypothesis. Such obstructions, as I have already hinted, might of course be syphilitic.

[^91]powerful a remedy. The body would be consumed before its parasite. THE CROONIAN LECTURES

## ANTIPYRETICS.

Delivered before the Royal College of Physicians, June, 18ss,
By DONALD MAC ALISTER, M.A., M.D., F.R.C.l'., Fellow and Lecturer of St. John's College, Cambridge.

## Lecture 11.

In the first lecture the anatomy and physiology of the thermal ncrrous system was dealt with, in order, among other things, to show that, in the minds of those who are most actively engaged in experimental inquiry, the conviction of its existence is a guiding principle, and no longer a plansible speculation only. Without a sufficient belief in the definite character of tlse apparatus of thermal nerres and centres, some of what was about to follow would appear more theoretical than it really was.
In the second lecture, partly by way of relief, certain questions would be discussed connected with what might be termed the teleological pathology of pyrexia. It was admitted that fever is a sign of disorder, of disturbance, of a physiological function or functions. But in all ages some had maintained, and the propogition was now being revived, that this disorder is not wholly or not in itself injurions. It was regarded as a wholesome reaction against a materies morbi, a manifestation of the vis medicatrix. Cohnheim had asked: "What is the decper meaning, the true significance nondcrlying the febrile process? Does the organism gain any advantage from the rise of temperature which characterises pyrexia?" He had answered that it might plausibly be maintained that in febrile heat we should recognise a sanative power, by which the body consumed and deatroyed a virus it could not directly eliminate. From a practical point of view it might be more urgent to appraise the dangers which menace the body in ferer, and, before a conclusion was reached, it would be necessary to distinguish with certainty and precision between the parts played by the specific febrile disease and the disorder of the body-heat which accompanied it. "But," added Cohnheim, "when that time comes, I anticipate that plysicians will more and more regard fever, not, indeed, as a condition free from danger, but as, on the whole, a wise prorision of Nature."

Milton Fagge was inclined to take a like view, but had given few reasons other than those based on a possible explanation of the phenomena of relapsing fever and ague. It would be well to examine more closely the grounds of this view that fever serves a salutary purpose.
After the long prevalence, especially on the Continent, of the idea that the dangers of fever are primarily due to the high temperature, and that to reduce the latter is the chief end of treatment, the reaction is remarkable. It was due, to some extent, to disappointment with the effects of vigorous antipyretic treatment, external and internal, on the course of the specific fevers. Expectations had been exaggerated because based on a one-sided theory, and they had not been fulfilled.

Another factor in the reaction was the growth of the germtheory. The thesis of those who extended their bacteriological speculations to fever appeared to be-the specific fevers are due to the intrusion into the body of certain specific living cells or microphytes. These engage in a struggle for subsistence with the tissue-cells of the body. Pyrexia is a reaction brought about, by matural selection, to favour the latter in the struggle, and to hamper or disable the former. The result is, or should be, that the microphytes are overcome, consumed, and thus through fever the body is restored to health.

It was true that some of the bust known microphytes were checked in their growth or multiplication by ligh temiperatures. Gaffley showed that typhoid bacilli formed spores with difficulty at $107.5^{\circ} \mathrm{F} \cdot:$ Koch, that tubercle bacilli ceased to grow after being kept for some weeks at a like temperature. The lacillus anthracis continucs to grow, but loses in virulence if kept for some weeks at $108.5^{\circ} \mathrm{F}$., or for some days at $10 \% .0^{\circ} \mathrm{F}$. Surely it could not be held that such facts were really relewnt, A body-temperature of $103^{\circ}$ to $109^{\circ}$, kept up for days or weeks, was too

A less direct explanation was suggested in a recent lecture by Von Ziemssen, namely, that the pyrexia so alters the constitation of the tissues, that the microphytes no longer find in them a suitable soil and so perish. But ngainst this was the fact that the exanthemata tended strongly to run a definite course, whether the fever were ligh or low. The gravity of the infection stood in no proportion to the less or greater intensity of the pyrexia. Rather was it the case that the highest fevers were the moat enduring, the slighter forms the briefest.
The cases cited by Hilton Fagge, by Murri, by Finkler and others. in which the febrile paroxysm seemed to have a destructive effect on the living virus of relapsing and of intermittent ferers wre then discussed, and were shown to admit of a simpler explamation, one applieable to all the specific diseases attributed to microparasites. These parasites seem, like other living creatures, to have a definite life-period, in which they grow, multiply, ofert their special action, and decay. This period is independent
of pyrexia, indenendentof antinyretic ternal conditions. The definite duration of ita virulencendent of exmeasles, small-nox. etc., the sudden extinction of its vitality at the crisis in cronpous pnenmonia bespoke a normal biological property in the virus, a law of its life which forbade it to endure longer than a certain time.
It had shrewdly been asked (by Goldscheider): If pyrexial temperatures are not in themselyes dangerons, but merely serve to purify the body without injuring it, why are they in ordinary cases confined within such narrow limits? If fever be a process with a purpose, would it not be better to nip the growth of the microphrte in the bud by a prompt and intense rise of temperaIn concluding this of the illness? a question of those who relis the argument, the lecturer asked a question of those who relied on the all-embracing doctrine fever following on bacterial invasion could only in the cours of ages. he dereloped if it conveyed some advantage in the struggle for existence. Were not the bacterial plants also engaged in a like struggle? Had they not, too, in the course of ages, acquired properties which helped them to grow and bacteria? He laid no stress on sucli an argu be salutary-to the bacteria? He laid no stress on sucli an argument, but adduced it to show that the reasoning of the germ-theorists on fever was two-edged, and could be turned against themselves.

A general fallacy underlay many speculations of this kind. In speaking of fever generally, of its treatment, of antipyretics and antipyresis, the febrile process had been too much regarded as a single entity. There were many morbid processes having fever as a ronconitant: some one or other of these was stndicd, and the laws arrived at for its causation, pathologr, and treatment were too hastily generalised, so as to apply to other and widely different morbid processes. if re rere to admit it possible that, in relapeit would be rasll to infer at once that all pyrevia is some benefit. apply the law to corer at romate 1 yrexia is beneficial, and fever was at best a symptom, and a symptom whose significance was very different in different cases. Parallel illustrations from the phenomena of cough and of pain were given. The only sonnd therapeutic method was to study the particular circumstances in which the symptom arose. let theremere two extreme schools-one insisting that all pyrexia is dangerous, and that high temperature must be lowered at any cost; the other, whose headquarters were at Vienua, maintaining that. as fever is salutary, it should not be meddled with-the school of pure expectancy.
The postulate of the latter liad been dealt with; it was worth while to examine the postulate of the former: that high temperature is purely mischierous, and the eflicient cause of all the dangers that threaten a fever-patient's life. Dr. Cayley, in a pre-
vious course vious courso of Croonian Lectures ( 1880 ), had dealt with this thought it decisively proved that the view in question was onty in part enrrect, and that many of the morbid phenomena accomponying ferer occurred independently of it. The lecturer would not go over the same ground, but adduced new considerations bearing out and strengthening Dr. Cayley's conclusions. In the first place, he referred to his Gulstonian lectures in illustration of the point that "high temperature" was an ambiguous term. and raised in marious ways, some of them harmless. In thermal atavia raised in rarious mays, some of them harmless. In thermal ataxia,
in disurdered thermolyeis without other change, the temperature might rine and remain high. But there was good ground for the beliff that such non-pyrexial eleration of temperature was not in itself dangerous. Tuke, for example, the cases of aseptic operation, described by Volkmann and other surgeons, in which a temperature of $104^{\circ}$ or $105^{\circ}$ was accompanied by no loss of appetite, no distress, no symptom such as could be called characteristically felmile.
Many of the current beliefs as to the beneficial effects, functional and textural, of mere high temperature were based on experiments in which animals were forcibly overheated. These experiments were examined critically, and in the light of fresh researches, such as those of Naunyn, and Welch of Baltimore, shown to be capable of other interpretation: With due precautions, such animals could be kept in comfort and without permunent damage for days or weeks, their rectal temperature being, on the average, $106^{\circ} \mathrm{F}$. Danger did not arise till a much higher point was reached; and then the evidence proved that the overstrain on the thermal system broke down the regulating mechanism, and complete thermal dissolution or hyperpyrexia set in.
The phenomena of relapsing fever were adduced as bearing in the sume dircction. In this disease, the subjects of whieh were often weak and anæmic, temperatures of $100^{\circ}$, enduring for five or six days, were common, and were tolerated well, as was shown by, auong other things, the small mortality ( 4 or 5 per cent.):
The conclusion ultimately reached was: That high temperature in itself was not proven to be salutary, neither was it in itself the efficient cause of all the morlid phenomena commonly described
as felrile.

## ON RARE DISEASES AND EXCEPTIONAL SYMPTOMS.

## BE JONATHAN HUTCHINSON, F.R.C.S., F.R.S., LL.D., <br> Emeritns Professor of Surgery at the Loudon Hospital!

## (Continued from page 1115.)

XxXill.-On the Smolation of Obstruction of the Bowels by Attacks ef Gall-Stone Colic.
AT the Association Meeting at Brighton, Dr. Ord gave a valuithle address on some of the rarer symptoms produced by gallstones. The diagnosis of hepatic (or cystic) colic is of much intereot for surgeons, on account of the frequency, with which the passage of a gall-stone simulates abdominal obstruction. I am not thinking of cases of real obstruction by the impaction of a gall-stone in the bowel, but of cases in which constipation and romiting are due to a stone of small size impacted in the neck of the gall-bladder or its duct. I can fully support Dr. Ord's statement that attacks of gall-stone are often not attended by jaundice. I well remember many years ago meeting two physicians, together with the family surgeon, at the bedside of a gentleman Who was supposed to be the subject of acute internal strangulation. There had been much vomiting, and forty-eight hours constipation. The way in which the pain had begun, and the patient's distinct reference of it to the region of the gall-bladder, with other symptoms, made me think that it must be a case of gall-stoue. On expressing that opinion I was met by the rejoinder that there was no jaundice. The discussion was vigorous, and the family surgeon, taking the matter up warmly, had the motions carefully stranned, with the resulc that three days afterwards a gall-stone as hig as a horse-bean came away. Dr. Ord states that gall-stones are often present, and may eren pass into the bowel, without there ever having been present any of the symptoms usually supposed to indicate them. If by this statement is meant only the alssence of severe attacks of colic with vomiting and jaundice, then I can quite agree with it. I believe, howerer, that almost always minor attacks of pain, more or less sudden, such as are often called "spasm of the stomach," have been present. It is difficult to accept the statement that gallstones may leave their location and escape by the howel, there having beeu from first to last no symptoms of their presence IIepatic colic is a far more common event than it is generally supposed to be, and many cases escape recognition because there is a general belief that jaundice ought to be present.
We whelly absebted to Dr. Ord for showing that this symptom may With wholly abscnt, even in severe cases and where the stone is large. With Dr, Ord'a second proposition I can also fully agree. It is
that gall-stones, far too big to pass through the common duct, and which can, therefore, only: get into the bowel by the formation of an ulcer of communication, do escape by that process without producing any very severe symptoms, either general or local.

I have several times known stones of very large size, big enough to quite plug the bowel for a time, to be got rid of by patients who had never been seriously ill. I do not say that they had never had tenderness over the part, nor that slight paroxysms had been wholly absent, but these had been sn unimportant as to attract but little notice. In cases in which in reference to proposed operative measures is is necessary for the surgeon to diagnose as to gall-stones, it is of great importance to take cognisance of these slight attacks of colie. They may bave been very transitory, but if they have been present they count for much in helping us to an opinion.

The ise of anæsthetics to full insensibility, kept up for a long time, and both preceded and followed by opiates, is, I suppose, the best treatment for all forms of gall-stone colic. It does not matter whether the atone is impacted in the common duct or in the bowel, we can scarcely do better than prevent spasm and favour relaxation of the parts concerned. By these measures I have, in several cases in which 1 had been called in with a view to operation, succeeded in quite removing symptoms which were very urgent.

It is of interest to know that attacks referred to stomach dis, order from indigestible food are often really hepatic colic due to the presence of gall-stones. By the patient I have no doubt that this mistake is constantly made, and the surgeon must be cautious of taking the lead suggested. A gentleman was liable to attachs of pain which he referred exactly to the site of the gall-bladder, but which, he said, were produced by certain articles of food, sueh as carrots, broad beans, etc. The pain, he said, was of ten terribly severe, and might last a whole night, and even on one recent occasion for three days. It almays left a sense of soreness over the whole region. He had never had jaundice. "I told him that, in spite of his impressions as to the influence of food, I had no doubt that his attacks were due to gall-stones. He corroborated my diagnosis by at once telling me that his father and a sister were known to have roided them.
XXXIV.-On the Acete Bronchocele of Adolescents. An Aunt and Nephew Affected at Corresponding Ages. Complete Recovery of the Former.
There is a variety of bronchocele which, as far as my experience has gone, is almost peculiar to adolescents, which increases very rapidly, and is sometimes attended by urgent symptoms of tracheal compression. It is worth study as a form of constitutional disease, and the following narrative affords two good examples of it.
M. P., aged 18, was brought to me by Dr. Greenwood, of Dalston, for a very large, soft bronchocele which embraced the whole front of his neck and was already causing aome difficulty of breathing. He did not know how long it had existed, but thought that it had been there only a few weeks. He was a tall lad, of rather dark complexion. His pulse was soft, and his hands chilly and rather dusky. He considered himself in good health, and there were no indications of Graves's disease excepting a certain degree of irritability of the heart. I inquired carefully as to family history, and was told, that the disease had never ofcurred in the family before, and that none of his predecessors bad lived in Derbyshire. A month later M. P.'s mother came with him, and 1 then got a fresh fact as to the family history. She said that her eldest sister had, when about our patient's age, suffered from an exactly similar affection to that which her son now had. This sister was now 60 years of age, very thin, but in tolerably good health. When adolescent she was much out of health, and was for two years under treatment for "Derbyshire neck." The bronchocele at length entirely disappeared, and at the present time her neck is thin rather than otherwise. No other relative was known to have had bronchocele, but my patient's mother, Who was a very intelligent woman, said that it was the rule with all her relatives to be delicate from the ages of 16 to 25 ; several had been seriously ill, and two or three had died (of phthisis?). Those who survived became stronger as, years adranced.

## XXIV.-Ophthalmoplegia Externa mithott Assionablé

 Causes.The late Dr. Moxon was kind enough to send to me a very in.
teresting example of ophthalmoplegia externa, for which no eauso could be assigned. The patient was a florid, healthy-looking lady, aged 33. Her features, teeth, and complexion were as far as possible removed from those suggestive of inherited syphilis, She was single, and there was not the slightest reason for suspeceing that she had erer suffered from the acquired diseasto Her father came with her, and in answer to a direct question assured me that he had never had any suspicious disease. He had a targe, healthy family.

Hiss -'s symptoms were remarkable for their symmetry aud evenness. Bothe eyelids drooped so as to almost cover the pupils. Squally in move both eyeballs a very little in all directions and almost squint, and she had seldono or never been tronbled with diplonia A very remarkable point was that her pupils acted fairly well, and that she could still use her accommodation. Her pupils were of normal size and equal. As she was myopic there was a fallacy as to the accommodatiou, but with glasses which enahled her to see well in the distance she could still see to read. I had not time to test this in detail. She was accustomed to read a good deal, and was alle to see downwards well in spite of the drooping lids. Two photographs produced showed that the ptosis was commencing three yeurs ago, and that it was quite absent ten years ago. She believed that from girlhood she had been accustomed to turn her head when others would turn their eyes. It had been, she sail, a matter of remark by her companions. Her father did not, however, know anything of this.
Miss - had no other symptoms of nervous disorder. Dr. Moxon informed me that her knee-jump was good. She had never had any lightning pains. The only ailment which she would confess to was occasional Tery severe headaches. To these she had been liable from childhood, and ras sometimes laid up for a day by them.
I do not think that $]$ have ever seen a syphilitic case of ophthalmoplegia externa in which the symptoms were so regular. Almost al ways one or more of the ocular muscles escapes paralysis to a large extent.
(I know nothing as to the sequel of this case. I never sam one quite like it, and should be very glad to know the result if any of my readers can give the information.)
XXXYI.-Diphtheritic Paralssis of Accommodation after a Sore Throat so Shight that th had been forootten.
I beliere that it is well known that paralysis of the muscle of accommodation, such as is usually descrihed as "diphtheritic," may occur after very slight forms of sure throat. I have myself seen and recorded several such cases, in which the sore throat had been so slight and transitory that it lad been forgotten, and one such is at present under my obserration. A healthy-looking girl ten years old was brought to me ou account of failure of sight, which 1 at once found to be paralysis of accommodation. I inquired as to the sore throat, and was told hy her mother that the child had not been ill in any way. At the sccond risit, however, two facte were remembered which had been at first forgotten. One month hefore coming to me the child had been in company with a little boy who had been sufferiug from a bad sore throat, and some time ago had had diphtheria. Three weeks prior to this, howerer, the child herself, while staying at Sandown, had had a three days' sore thront; it had not been bad enough to necessitate medical advice. Such were the very trivial, but 1 have no doubt really important, facts. The cliild, under treatment, recovered perfectly in about three weeks, and had no other symptoms of paralysis. I cannot doubt that the failure of sight was of the nature of diphtheritic paralysis. Docs the case prove that true diphtheria may occasionally he so slight as to be overlooken, and yet he efficient to the production of paralysis as a sequela? This is my own belief, and it seems to me to establish a rery import ant fact with reference to the natural history of the disease. I believe that it is generally acknowledged that the sererity of diphtheritic paralysis is not usually in ratio with the seserity of the throat affection. I have never, however, nyself sech general paralysis after a slight form of soro throat like that described above; but, on the other hand, I have seen many in which the eyc only, or the eye and palate only, have been affected.

[^92]NOTES ON THREE YEARS OVARIOTODF TORK IN THE SAMARITAN FREE HOSPITAL: ELGHTY-TWO CASEA WITHOUT a maath
DY GEORGE (iFLISYILLF. MANTUCK, M.I., F.R.C.S.ED., Surgeon to the samaritan Frev: Iluyital. On March $\quad 3 \mathrm{st}$, IRS5, a widow, aged 5, the mother of geven children, was admitted under my care into the Samaritan Free Thespital: She was rery thin, and had lost flesh rapidy of late. The abdumen was considerably distended: and this distension, addet a tronhe chronic bronchitis, caund difficnlty of breathing and a troublesorne courb. On the preming of admission the tem-
perature was $99.4^{\circ}$, and was probally due to the mechanical irritation of the numerous adhesions which were subsequently fourd tation of the numerous adhesions whech were sunsequently found.
With the view of reliering the breathing and congh, and of giving the patient some slcep by enabling her to lie down, I removed twelve pints and a half of a dark-coloured fluid by aspiration on the 23rd, and on April lst I performed double ovariotomy, remoring a tumour of the right orary weighing thirteen pounds, and the left orary, which was as large as a lien's egg. The pedicle twas twisted until its ressels were strangulated, and subsequent or consequent hæmorrhage into the large cyst accounted for the dark colour of its contents. There were very extensive adlesions inrolving the parietes wherever the tumour came into tures and them, the omentum, thres, and about two feet of small ineuty ligatures beeding points in omentum, mesentery, intestinc. back of uterus, and in the parienwhere the bleeding points were so numerous, and the difficulty of applying ligatures or even pressure forceps so great, that I was induced to try the thermo-cautery of Paquelin, but without. suecess. Finally, I mashed out the peritoneal carity with warm water, inserted a drainage-tube, and closed the wound. After the operation there was an aggravation of the bronchial symptoms and cough, and the patient died on the sisth day. Pust-mortem examination revealed some peritonitis and extensive pulmonary a half and it will re gathered for operation lasted an hour and a half, and it will be gathered from the foregoing that the case cessful result.
From the middle of April, 1885, to the corresponding date this year I have performed 82 orariotomies in the Samaritan Free In oppital, and all the patients have recovered.
On the whole the cases have been of a rather severe character, as the following details will show. Thns, in more than one-half-4- -there were adhesions properly so called; in small propor-
tion the adhesions involved the parictes only or omentum only in large proportion both these structures were involred only; in same time; in considerable number the tumour was adtierent ${ }^{\text {s }}$ to the pelvic organs to a varying extent, and in a few instancea to the intestines also. In one of parietal ndhesions only the patient haul just completed seren wonths of her first pregnancy, in the course of Which she had been twice tapped." "This case
was published in the Jotranal, February IIth, Isze, Excluding all these cases of adhesions proper, there were 6 cases in which there was no pedicle, and the tumour had to be enucleated. In one of these the erst was in a state of suppuration; in another nine stout ligatures were required to arrest the bleeding from the torn structures left after removal of a tumour inrolving the left broad ligament and left side of the uterus, and in series, the operation was operated upon, the last hut one of this into bed, the pulse could scarcely that when the patient was put another the tumour apparently invelved both oraries, In yet the enucleation was completed the uterus was so bereft of cupport, in addition to heing extensively injured, that I was compelled to remove it also at the level of the internal os in my usual way. Thus, of the S2 cases there were adhesions or their equivalent in ahout two-thirds or 54, leaving 28 in which there were no adhesions and there was a pedicle capable of heing treated by liga-
tures. In one of these 2 eases in the form of a large umbilical hernia, measuring orer 4 inches across. After removing an ovarian tumour of tell pounds (right. side., I shit open the hernial sae by continuing the ahdominal incision. applied sereral ligatures io, divided the acherent omen-
tum, and then dissected off the peritoneum from the various pouches, cutting away the redundant and thinned skin and peritoneum. In closing the wound 1 first brought the peritoneal edges together in the region of the hernia by closely applied silkworm gut sutures, of which the ends were cut off short, and then the skin and intervening tissues by deep sutures running along under the raw surface, and not going through the peritoneum. The remainder of the wound, in which the fatty layer measured nearly two inches in depth, midway between the umbilicus and pubes, was clos in the usual way. Convalescence was uninterrupted, and the hernial sac was completely obliterated.
As further evidence of the severity of the cases 1 may point out that the drainage-tube was used in more than one-half, or 45 , and in these, with few exceptions, the peritoneum was washed out
with warm water. with warm water.
In 34 cases the second ovary was more or less diseased, and was accordingly removed. It is sometimes very difficult to decide whether the ovary is sufficiently diseased to justify its remoral. In a large majority of the cases there was no difficulty whatever, and a very recent case induces me to believe that I shall find less difficulty in the future by requiring less distinct evidence than hitherto. 1 removed au ovarian tumour of $9 \frac{1}{2}$ lbs. eleven years ago. The other (left) ovary appeared to be quite healthy, and this view may be said to have been confirmed by the fact that within two years the patient gave birth to twins (one of each sex). But there is pretty conclusive evidence that it did not long remain healthy, for there is a history of gradual increase in the size of the abdomen for several years, and I have recently removed this second ovary, forming a tumour of 18 lhs. In this instance 1 was asked why I had not removed the second ovary at the first
operation.
In all there were 9 cases of dermoid tumours, and in one of these both ovaries were diseased, the one containing, skin and hair, and the other containing teeth. This is the second instance of double dermoid disease I have seen. The other was a private case. In only 4 of these cases were there adhesions; the remaining 5 were free, though in one the pedicle was twisted. The absence of adhesions in this instance was to be explained by the fact that the circulation through the pedicle bad not heen sufficiently interfered with to set up degeneratire changes in the tumours.
In 8 cases the pedicle was twisted, and 3 of these belonged to the dermoid rariety. In all but one there were more or less extensive adhesions, and in these $\mathbf{7}$ the peritoneum was washed out
and drained.

There were 5 cases of ruptured cyst, in all of which the whole peritoneal cavity was tro:oughly washed out and a drainage-tube
was used.

In 3 cases the disease was malignant, and in 2 of these the malignancy was recognised at the time of the operation. In the first case the patient died in about fourteen months with extensively disseminated cancer. In the second the patient made a rapid and uninterrupted recovery, leaving the hospital on the thentieth day. In a few weeks more a small tumour formed in the region of the pedicle, painful and tender, without any rise of
temperature or increase of pulse, and accompanied with rapid temperature or incrense of pulse, and accompanied with rapid emaciation, and she died on July 6th. In the third case there
was great cetdema of the lower extremities, gastric irritation with Was great cedema of the lower extremities, gastric irritation with
frequent vomiting, and considerable distension of the abdomen by free fluid. At the operation twenty-five pints of free fluid were removed together with a sarcoma of the left ovary weighing 6 lbs ., and another of the right ovary weighing about $\frac{3}{4} \mathrm{Ib} .$, and the pelvic and lumbar glands were already infected. The peritoneum was well washed out and drained, and she recovered without a bad symptom. The disease, however, made rapid progress, though there was no more ascites; the gastric irritation, relieved by the operation, retnrned in a few weeks along with the cedema of the lower extremities, and she died in seren weeks.
All these 82 operations were done, without the use of any socalled antiseptic substance. Warm water-not specially prepared -Was freely employed in washing out the peritoneal cavity whenever the contents of the cyst had escaped into it, either by spon-
taneous rupture before operation, or when, through the hreakintaneous rupture before operation, or when, through the hreaking
down of extensive adhesions, there was any effusion of blood and serum smongst the intestines, rendering the "toilet of the peritoneum " very difficult by any other method. In all these cases the drainage-tube was alse employed. In not one single instance was any opium or alcohol administered.
In the year 1882 a comparison was instituted between the results obtained in the Samaritan Free Hospital under the Listerian
and non-Listerian methods, the latter being wholly confined to my practice. That comparison was very much to my disadvantage, and deductions were drawn which even the results of the following year tended to upset, and which those of succeeding years have actually tended to reverse. Again, that comparison was made on the results of only one year. A comparison of results extending over several years will be a more reliable guide,
and I now present those for the three years 1885, 1886, and 1887, and I now present those for the three years 1885, 1886, and 1887,
in the following tables: in the following tables:


But in September, I887, Mr. Doran abandoned the Listerian and adopted my method of practice, and if his 3 cases be added in the one table, and subtracted in the other, the foliowing result is ob-
taiued: taiued:


Giving 86 cases without a death, as against 116 cases with 12 deaths, or a mortality of 10.34 per cent.

## NOTES ON THREE CASES OF UTERINE FIBROIDS UNDER TREATMENT BY APOSTOLI'S ELECTRICAL METHOD. <br> By W. J. TIYY, F.R.C.P.E., F.R.C.S.E., Clifton.

CASE I.-S. W., unmarried, aged 40, consulted me first in 1884 for an abdominal swelling.and metrorrhagia. She was a tall, slight, rery anæmic woman; she said her abdomen had been increasing in size for two years; her menses were most profuse, lasting ten
or twelve days; she suffered no pain. At this time (1884) 1 deor tweve days; she suffered no pain. At this time (1884) 1 detected three separate, hard, solid tumours; the largest and hardest nearly filled the right side of the abdomen, was freely movable, and extended to the umbilicus; the smallest was in the centre, and on the left side was a third tumour nearly as large as the right one, and also movable. By modified diet, rest, and the use of ergot, the growth of the tumours seemed checked for a time. In 1887, however, in spite of this treatment, I found that the abdomen measured forty inches and a half in circumference, a much larger size than it had been in 1884 , and that the tumours were
also iarger.
In October I commenced Apostoli's treatment, applying the positive pole to the interior of the uterus, which was five inches in depth. By using at first twenty ceils of Coxeter's battery I obtained eighty milliampères: little pain was felt, and the patient Was about the next day and after each subsequent electrisation. I gradually increased the strength to twenty-five cells, and 140 to I60 milliamperes, and after each application found the abdomen smaller and the tumours reduced. After eleven electrisations the abdomen measures only thirty-four inches in circumference, the tumours are reduced by fully one-half, and the last four menstrual periods have been quite normal.

Casfa Ir.-Mrs. J., aged 53, past menopause two years. She has never been pregnant. Sle consulted me June, 1857, for a large abdominal tumour nearly filling the whole abdomen; it arose in the right side, was rery movable, and extended three inches to the left of the umbilicus; the tumour was solid, round, and very hard. The patient suffered no actual pain, and her menses had always been normal. The tumour was evidently a pedunculated sub-peritoneal fibroid.
On December 1st, 1887, her abdomen measured forty-one inches and a half in circumference. The sound passed five and a half inches in depth. I applied the negative pole internally for ten minutes, and obtained 80 to 90 milliamperes, using trenty cells; this process I repeated every ten or twelve days, gradually increasing the strength to 140 milliamperes. After eight applications the circumference of the abdomen is thirty-five inches; the
tumour is materially reducel, and does not extend two inches to the left of the umbilicus; it is also softer in structure; the patient feels well.
Cass. IIT. - K, agel 2 , a slight, healthy, unmarried girl, noticed a swelling of her abdomen four years ago, which has steadily increased; she had no profuse menstruation at any time. saw her lirst in Marcl, 1887, and she was then seen by two London specialists, who ayreed that she had a fast-growing, peduncuIn Movenber, lisi7, when I began Apy.
the aldomen was thirty-four inches and a half in circumfer her, and the tumour, a very movable one, filled the right side of the abdomen, and extended two inches and a half to the left of the umbilicus. I applied the negative electrode to the interior of the nterns, which was four ineles in depth. 1 commenced with 20 cells (Coxcter), and outained 1 (OU milliamperes; this strength on subsequent occasions I gradually increased to 25 cells and 145 milliamperes; each application lasted ten miuntes, and ten or twelve days clapsed between each. There was inpurovement after each electrisation, and now, after eight applications, the abdomen measures thirty-tro inches, and the tumour caunot be felt to the left of the umbilicus.

Remarks.-I applied the electricity to the patients placed in the obstetrical position; and, having passed a Fergusson's speculum, I carefully syriaged the ragina with an antiseptic solution before inserting the internal electrode, and again after the operation was conpleted. The internal electrode was steeped before usimg in 1 in -0 carbolic lotion. 1 did no electrisation within ten patients twice daily in the antiseptic syringing was done by the electricity was never applied for more than ten minntes, and cell after cell was gradually added, up to the strength determined upon, and again slowly diminished in the same way. 1 use Apostoli's wet clay abdominal electrole, a water rheostat, and a Gaiffe's galvanometer; also flexible platinum electrodes for the to two inches crampe, made for me by coxeter, and insulated up to two inches from the point. Owing to the energetic action of milliamperes of electricity to the uterus.

## PREVENTIVE SURGERY, AS ILLUSTRATED IN KNOCK-KNEE AND FLAT-FOOT. ${ }^{1}$

By T. S. ELLIS, M.R.C.S.,<br>Consulting Surgeon (late Surgeou and Ophthalmic Surgeon) to the Infirmary at Gloucester.

l'RENENTIVE Surgery, though it sounds unfamiliar, is, I submit, a legitimate expression. Is I'reventive Medicine sometimes teaches how to cure diseases by presenting, in specially pronounced form, the conditions under which they do not occur, so a stady of the means by which deformities are prevented may teach us how to cleal with them when actually existing. Let me illustrate this by two kindred deformities having much in common, knock-knee and flat-foot, as acquired independently of paralysis and of bone discasc. ljoth are exaggerations of naturally existing curves. In each the sequence of erents is the same-failure of muscular support, yielding of liganents, altered contour of bone surface. And $1 n$ each case, also, the leading indication for treatment is the same-to strengthen, by action, the muscles which, in the full exercise of their functions, prevent these deformities.

In the case of linock-knee, the direct influence of nuscular action, in curc or prevention, does not seem to be recognised at all by writers. Of the two most rccent known to me, Mr. Owren (Dictionary of Suryery, Genu Valgum) refers to exercise only to forbid it ; and Mr. Arbuthnot Lane (Cuy's Mospital Reports, 18xi) advises it only hecause ly this means "the tirmness of the joints and ligaments, and the density and resistance of the osseous system, Will be improved." That spontaneous recoreries do sometimes occur is well known, and that muscular exercise will completely remore the deformity I hare myself seen, althongh unable until recently to explain how. This I will now endenvour to show. Accorling to the parallelogram of forces, a well known law, if a force acting in the line $a$ to $b$ (Fig. 1) be opposed by a force acting in the line a to $c$, the resnltant will be in the diagonal of the completed parallelogram, or towards $d$. Fut all the muscles attached to the leg bones below and to the pelvis abore slo act in the line
bied before the Glowsestershive Branch.
$a$ to $b$, While the mi•ight of the body acts in the line $a$ to $c$. Thuse museles draw the linee towards a straight line between tise foot and the pelvis, when, as in the erect position, the foot is a fixed point. It is important, also, to realise that the yeroneut longis, which abducts the foot when free to move, can only abluct the knee when the joot is lixed; $\mathrm{SO}_{\mathrm{a}}$ also, the gluteus mmline, which abducts thigh and leg together, can only act on the knee when the foot is fixed. 'lhese ellects are fully seen in a worden model (shown), where the jart representing the borly is kupt upright by fixed guides, as it moves up and down, when the effect of the varions muscles in correcting knock-knee is demonstrated. This
is done by means of is done means of strong elastic loanls, the prarts of the model representing the thigh and leg being united by hingos.
I an fully mindful that in the body, the muscles attached to thi. leg and to the pelvis are attached also to the thigh, but this does not affect the result described. I recugnise, also, that the downward hrust on the knee acts in the line $b$ to $a$. This, too, is im-
material, the miscular force being strons enour to materal, the miscular force being strons enough to overcome it. to contention is that the muscles concerned in raising the borly sition to resistance from above, pull the knee towards a line between the foot and the pelvis, and tlat their agency ought to be utilised in correcting knock-knec. In actual practice I have


Fig. 1.
found the treatment thas indicated to be highly satisfactory, sh much so as to justify a conficlent opinion that it would be fomud to be sufficient even for the worst cases. And ineleed, as appears to me, if it he admitted that fuilure of muscular support leads to yielding of ligaments and altered bony surfaces in joints; that Vigorous nse of muscles makes them stroug and taut, even when only in passive contraction : that, in this condition, they not only relax, and thus renew the orer-stretched ligaments but also, by excrting constant pressure on the bony surfaces of the joints, re-
modify their altered contours-if this be admitted, and if the explanation of linock-knec which I lave given be accepted, then I claim that such success accords with reasonable probability.

This riew of knock-knee, its prevention and cure-never, so far as 1 lnow, given before-I offer now with the more confinence and the more pleasure because it was at a meeting of this Branch, nearly fourteen years ago, that I first pointed out that the arch of the foot is formed, is maintained, and may, when destroyed, be restored, by muscular action. I then narrated how, after an accidrnt whicli had torn througl the calcaneo-scaphoid ligament in my or:n font, I had myself been the subject of flat-foot in the Worst form for more than six years; that, in seeking to discover by what means Hat-foot is in Nature prevented, I had, by an obserration on a horse, been induced to regard it as a universal law that ligaments liable to great strain are supported by muscles, and from that law had deduced the probability that, if I could only reners the function of the flexor longus pollicis, I might restore my flattened foot. I then described how, after six months, perserering application of the principle involved, a foot which for six jears had never risca to tiptoe had become able to bear the stwin of hopping over a footstool. To this I may now add that it has nerer since giren me serious trouble, although the original displacements are still evident. I did not, however, at that time couvince anyone that my recovery was wholly due to


Fig. 2.
exercise, and I had not the boldness to send my paper to a medical jonrnal. Three years later I restated my views in a pampllet of which Mr. Holmes gave a favourable notice in his Principles of Surgery on the first appearance of that book. To those views I have ever since adhered, maintaining, as leading principles in relation to flat-foot: "For prevention promote, for restoration renew, the functions of the flexor longus pollicis." This being done, action of the other important muscles will be attendant. Not so the converse. Distortion of the great toe may suspend the action of its flexor alone. I find it difficult to understand how anyone can consider the position of the tendon (depicted in Fig. 2), liaving the same relation to the arch as a bowstring to a bow, without recognising that so strong a muscle mnst exercise a most important influence on the Hexible arch, or arc which its tendon subtends. Ind yet, in all the writings I know where flat-foot and the construction of the plantar arch is discussed - the list is a long one ${ }^{3}$-there is not one

[^93]where the writer has regarded this muscle as of sufficient ir portance eren to call for special mention. Perhaps, if the pla of the tendon could be occupied by the fleshy mass of the muse, and the tendon inserted in the leg, the effect of action on the ari
would be better realised, We call it the flexor of the great toe would be better realised. We call it the flexor of the great toe. Tl far more important and far more common action is to assist
raising the body, acting from the straight toe as the fixed poin Thising the body, acting irom the straight toe as the fixed poin
The tendon is, in effect, the most important of those forming ti counterpart of the single tendon, which in the horse passes roun the hock (the true heel), and is inserted at the toe. Tilt the sketc (Fig. 2) on one side, imagine an exaggerated toe-nail, a much-elo gated metatarsal bone, and the tibia inclined at a less angle, and have a horse's leg., Just as the tightening of the tendon of th "flexor perforans" in the rearing position of the horse, the tipto of man, relieves the enormons strain on the ligaments binding tc gether the bones between the hock and the hoof, so do the col responding tendons relieve the ligaments of the liuman foot a the heel is raised in every step. And, further, insufticient suppor of these ligaments will lead to "straight joints" in one case, as i does to the counterpart, flat-foot, in the other. 1 cannot describ how much 1 owe to this bit of comparative physiology applied t.
surgery. surgery.
1 have recorded in the Iancet of February 9th, 188t, with my own case, that of a farrier's apprentice, who was under my car in the Gloucester Infirmary some fifteen years ago, with feet si flat and so painful that he conld not wall across the ward. 114
was put in the way of proper exercises, and ultimately became was put in the way of proper exercises, and ultimately became distinguighed dancer in the 2nd Life Guards, I have also thert
described (September 25th, 1886) the best exercise I know for pro. ducing a speedy result in a bad case of flat-foot, and I now say the same in regard to knock-knee. lt consists in raising a weight by means of a cord running over pulleys. The object is to bring the foot to extreme tiptoe, the knee and hip to full extensior (this with the inspiration, so as to get the benefit of the Silresten method of artificial respiration added to natural breathing); then, after a pause, to suddenly and vigorously draw downwards. Turning a wheel, placed so high that the handle is with difficulty reached when at the highest part of the cycle is a similar movement, a arailable if the patient be strong enough, and having the adrantage of being less irksome. Indeed it may be made to combine useful Work. So also may pumping, if the handle be placed higb enough. Bell-ringing is also an excellent exercis. 1 cannot imagine it to be possible that persons labitually engaged in
such strictly natnral occupation as reacling up to and drawing such strictly natnral occupation as reaching up to and drawing
dowa the boughs of trees would be knock-kneed or flat footed. It is remarkable that no such movement exists in the ordinary occupation of life; it has no place in ordinary gymnastic exercises, and, so far as the book of the Zander Institute shows, is not used even there. On its ralue in stimulating functional actirity tbis is not the time to insist. Everything, however, which promotes the general health is important; so is everything which promotes nutrition of the mnscles, dry friction, massage, and so on. Still, I would insist, on muscular action reliance must after all be mainly placed. In those forms of it described, especially in the first, that great impediment to exercise in these cases, the weight of the body, is partially counter-balanced; but good walking must be the aim, in riew of a permanent cure, and should as soon as possible be practised in moderation. Let the toes be pointed domnnards and forwards-the position of strength and therefore of activity; not outwards-the position of relaxed ligaments and, therefore, of rest. Let the heel be rigorously raised at every step, the knee being fully straightened. There is nothing strained in this, it is simply good walking. Standing should of conrse be avoiled uuless it be with constant springing up on the toes, an excellent exercise. As far as possible, especially in the early stages of treatment, all exercises should be done with bare feet. Remember that the natural plane of movement of the great toe is olliqne, downwards and inwards, and take care that neither boots nor socks interfere with it, as will probably lave been the case. Of the great importance of this point t have spoken in an article on Deformities of the Great Toe, in the Journal of May $20 t h, 1887$. In the treatment of flat-foot I nerer nse supports of any kind. I believe that they do more lharm in preventing free action of the short flexor muscles than they do good in propping up the arch. During many years I have seen the worst of cases recover without them. I am equally certain that for knock-knee
Arluthnot Lane, Guy's Hospital Reports, 1887; Hancock, Anatomy and Surgery of Foot: Noble Smith. British Medical Joursai, Jume gth, 18s3, "Surgery of Ueformities ; and Mr. Mayo Collier, Lancet, Sept. Stlı, 1886.
they are in principle wrong, and in practice unnecessary. So also of tenotomies in either deformity. Osteotomies and resections 1 can ouly regard as unwarrantable inutilations.

TIMES OF SOLDIERS' MEALS.
By J. HICKMAN,
Army Medical Staff.
AT present the usual hours for soldiers' meals are: breakfast, 8 A.M.; linner, 1 P.M.; tea, 4.30 or 5 P.M. The early morning parates are generally about 6 or 6 .30, or in summer mayy be at that is, men without having had anything to eat. Eiven considered from the point of view of discipline this practice is to le deprecated; men having partaken of some nourishment, any way a cup of coffee, are in a better humour with themselves and their superiors, and insulordination, absence, and lateness at parades will be fonnd to scusibly diminish. Many go so far as to adrocate a regular meal at the time of rising, but it is generally accepted that light refreshment is sufficient to maintain the equilibrium till the breakfast time; lot coffee wihh plenty of milk may be advised: it is a stimulant to the system, invigorating without depressing. The cooking to provide a full meal could hardly be managed. two good meals are sufficient in the day, and if a hearty breakfast were taken too soon, the interval between it and the other meal would be too great: the work intervening is only an hour's parade, after
which breakfast can he taken with leisure and appetite. The which breakfast can he taken with leisure and appetite. The morning parade works be undertaken, as much unaccustomed exercise is likely to be followed by languor through the day. In cold or rainy weather this food before leaving the barrack-room should be specially insisterl on. In every campaign, before starting the day's work or march, the rules lay down that soup, erbswurst. or coffee is to be issued. In India early rising is universal, and the habitit is generally adopted; on the marcla the coffee-shop is an institution, and the men avail themselves engerly of it. It is the universal opinion of medical men abroait that in places where malarious fevers are prevalent the susceptibility to their iulluence is much increased by starting for the day without fool.
In the Aldershot cavalry barracks the men can get a good cup of coffee and a bun for a penny, and a cup of Moore's cacoa and milk, or a tumbler of milk and a hiscuit, could be sold for less probally.

This early issue of refreshment should not be dependent on the caprice or wish of the regimental authorities, or on the pocket of the soldier; ; it should he embodied in the Queen's Regulations that no morning work should le commenced without an attempt to restore the waste of the bady during fasting and sleep.

Breakfast only wants a fere words; no alteration in the hour can be suggesteil. According to Dr. Fdward Smith the daily distriluation of food, supprasing a physiological diet of 4,300 grains of carbon with 200 grains of nitrogen he taken, should be :

or the total daily food should be distributed amongst them by allatting three parts to the first, four to the second, and two to the third. When dinner is eaten late $4-9$ ths of the supply may be eaten therr and half that quantity at huncheon.
This division would assume that the system requires meat twice a day, to cover the wear and tear and to supply nitrngen, and to $\underset{\text { produce the lighest state of health in the adult. In the recruit }}{\text { whose }}$ whose muscles are dereloping, and whose actual and reserved energy it is proposed to inerense, the bodily waste is far more active, and he requires nitrogenous food twice a day, at breakfast and at midday dinner, and on no account in the after part of the day. In nitrogenons food is comprised fisll. baconl, sausage, eggs, etc., with any of which breakfast can be varied.
It need hardly be said that breakfast should be a substantinl meal; the digestion carly in the day is active, and the work of the day is to follors. Coeoa, milk, hominy, or oatmeal porridge are amongst the best articles; the unsuceessful efforts io intruduce into household use "wholemenl" (not simply bran) bread might be renewed and enforced in soldiers" di-t.

N゙Jw, as to the time for dinner. It is generally assumen that an
ordinary meal is, in a healthy man, completeiy digested and passed out of the stomach in about four liours. Then, if we add a period of two linurs for rest to the stomach, food would appear to he required at intervals of six hours. This is what experience teaches, and what is practically adopted. Sleep means a great diminution of botily activity, and this greater interval can be accounted for. 1 reak fust being tuken at 8 , the midday meal should he ready at about 1, the time closen by working men and the middle class generally, in scliols, prisons, and all institutions. It is laid down that the chief meal of the day, the full meal (by whatever mame it is called) should be taken at any honr wheu actire occupation, bodily and mental, can be suspended for from one hour and a half to two hours; in other wards, it is not found conducive to bealth to take a full meal in the midst of the day's work. This does not seem to agree with the popular halit. If soldiers had their dinners late, aiter they had finished their duties, they would probably remain more in barracks. The question of late dinnerz tor shop-people and clerks has been elaborately argued by Dr. Dobell in a circular addressed to employers of labour, $185^{\circ} \%$. In the case of the soldier the suggestion may raise a smile, but is worthy of consideration.
Fxcept fatigues, punishment drills, or guard occurring at intervals, the duty of the foot soldier after dinner consists of only an hour's parade, and old soldiers are even exempt from this. In the mountell brancles, stables hare to be attended, and many other duties may present themselves. If the present agitation for the "square " meal in the afternoon can he justified by the proportion of afternoon work, the mounted corps will surely have a primary claim to this indulgence. The thing to be remembered is to allow time for rest before and after the meal, and the afternoon drill should be delayed to further this object. To recapitulate: to those whose physical powers have been taxed the short perfect rest before is to be recommended; and wheu the dinner is finished at least an hour should be given to physical tranquillity. After this hour gastric digestion will he established, and the blood and nervous energy employed in the process will no longer be required, and can be derated to another form of animal force.
In practice, no doubt, work immediately after a meal interfere ${ }^{3}$ with digestion, but this only applies to hard work, and most of the working classes can secure a quiet hour for the enjorment of their dinner. Tea is taken at from 4 to 5 P...r. It really requires little comment. Perhaps the hour is too earls, and makes it woulrval between it and breakfast too long. If delayed later, it would leprive the soldier of his evening walk, and the change
wauld be received with soldier ce received with grumbling. It can be urged, while the soldier carries into the army the hours of eating of the working
classes in his other former balits by severnh hours it really adds to the necesses his further nourishmeut before turning in, as going to bed with an empty stomach is to be avoided. Coffee or tea, with bread and butter, lettuce, onions, watercress, or other light things, which are wholesome, and are better and more coonomical than meat: this is merely added in case the purchase of meat slould be made by the soldier. Meat teas are not to be commended; tea is not adapted to accompany meat in the digestion, and is rery likely to cause dyspeptic troubles. In many instances the hungry recruit has eaten lis portion of leread for his breakfast, and there is absolutely nothing left for his supper. A macification of the rules for issuing l,read seems imperatively required. We are led to conclude that the hour of dinner is, like the laws of the Medes and Persians, nnalterable, thongh it might be a little later. As regards supper, in an economic and scientitic point of riew, it certainly should be postponed for another hour or two. On service, inc camps of exercise, or foreign statious generally, where the outside armusements of the soldier are few, the clange could be made with adrantage.
After $50^{\circ}$ clock meal the regulations do not provile any more for the soldier, who, as long as he las money in his pocket, generally gets something at the regimental canteen or recreation room bar; this is merely private expenditure. wiell which nointerference can be made. The question naturally arises whet her this alsolutely necessary amount of nourisbment should be dependent on snch fleeting and precarious finances.
In the beginning of this paper the dangers of a long fast were insisted on, especially in the case of growing lads. They are too exhansted to sleep comfortably, to rise with vigour, or to enjoy breakfast. The system is weakened and the digestive porvers not realy when called upon, or there is a temptation to ravenous haste. The remely for this is the issue of soup from the cookliouse tetweaz ceetuia houls in: fle evening. Thus basiu of soup
and a piece of bread is a sulficient menl in itself, and should be available for nothing to every man who applies for it. The soup can be made from the large lones of the rations: the sale of the refuse will generally be found to cover the cost of the vegetables, split peas, and flour required to complete the soup. This has been adopted in some regiments, and it is found that the applicants for the soup are usually those whose finauces are low, and on the days immediately hefore the pay-day, there is often a difficulty in supplying the numbers. There is naturally a greater demand in the winter. The unirersal adoption of this pian caunot be too strongly recommended.
A few words as to the times spirit rations should be issued; they are best taken with meals-at dinner time preferably, never before. This is not the place to discuss the merits or the action of alcohol; in small quantities it increases the secretion of the gastric juice and the movements of the stomach, and thus aids digestion. Alcohol should be taken, largely diluted with water, with, or rather at the close of, a meal. In Queen's Regulations, Sect. xr, Para. 103, it is laid down that malt liquor may be taken from the canteen to the larrack rooms for the men's consumption at dinner: this privilege is, however, not acknowledged by all commanding officers and its observance should be universally insisted on.

## AFTER-HISTORY OF PNEUMONIA THE GUIDE TO ITS TREATMENT.

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1 WISH in this paper to give my experience of the imperfect as well as the complete recoveries of my cases of pneumonia during a period of over twenty years. I hare never seen its therapeutics discussed from the consideration of the after-history of cases of this disease. I will not, therefore, in this paper discuss the lessons taught me by my fatal cases, hut confine my remarks to those that recorered. These observations are founded on 213 cases of all grades of sererity of single and double pneumonia, at ages rarying from 15 to 73 ; and by pneumonia I mean croupous pneumonia, characterised by rusty sputa and consolidation afterwards. I was able to trace the after-history of 155 of my cases. Most of them were of the artisan chass; some came under my care subsequently for other ailments, some for entrance examination into benefit societies, and I always made it a routine rule to examine the chests of all my cases whenever I could afterwards. Of these 155 cases, I found rather above half-namely, 81 -free from any traces of their pneumonia on examination at periods not under two years afterwards. The other 74 had traces left discoverable by finding dulness of the affected region of greater or less extent and degree, indicating impaired lung, and were very frequently ill; 13 of them died of phthisis after wards.

During my first years of practice my treatment was mainly expectant. I thought and had been taught that pneumonia had a definite course: that drugs could not alter its natural history, and, beyond stimulating the old, rest in bed, a warm poultice, and auy sort of a placelo mixture was treatment enough. Symptoms, on an arerage, subsided on the eleventh day; convalescence seemed establislied, and expectancy triumphant. Any prolonged debility afterwards was put down to insufficient means, imperfect hygieuic surroundings, or to the generally below-par state of health of many operatives living in towns. But I began to wonder if expectancy were the best treatment when I found so many whom I had so treated so frequently ill afterwards. The eliief symptoms were slight cough and expectoration, inability to work as well as formeriy, a constant sense of slight weariness, and in nearly every case a feeling of flatulent distension and weight after meats, and a varying amount of anorexia. Though the body might he fairly well nourished, yet the face was too thin proportionately to the body, and wore an expression of considerahle depression; the bowels usuaily torpid; the tongue furred, and especially indented with teethmarks. On closer inquiry 1 found that for three or four months following the attack of pueumonia these patients got on fairly well, but after then began to droop and never felt up to the mark; and with this chain of symptoms I always found evidences of unresolved pneumonia. I then began to try other measures to prerent these after-consequences if 1 could. With this riew some were treated by quinine in large doses-now we would say in antipyretic doses-by aconite, by ammonia, and by antimony.

Thus, of the 74 cases of unresolved consolidation, 29 were treated by pure expectancs, 20 by ammonia, 10 by quinine in full doses, 7 by aconite, and 8 by antimony in largish doses of its tartrate.

1 wish to say a few words on each of these methods of treatment. My experience of aconite in doses to produce any effect is against its use at all in pneumonia, as I feel sure it increases the danger of, and often actually causes, cardiac collapse. The ammonia treatment seemed much the same as the expectant, except that I thought there was more pain in the side during its use. Quinine appeared not so risky as aconite, but just as inetticient to control the disease, eren in doses large enough to lower the tcmperature for a time. My limited experience of it only corrohorates the American estimate of its value. On the other side of the Atlantic it lias beem most extensively used, and last year there was a discussion in the New York Academy of Medicine on the subject. There was a general consensus of opinion upon the inutility of quinine as an antipyretic in the treatment of pneumonia. It was considered useless in small doses, and dangerous in large ones, producing cardiac and nervous depression. My impression very strongly is that any treatment directed to lorer the temperature only is bad. But if a remedy is to be had that is able to lower the temperature for a time in a marked degree. surely some will say it must do good. Well, kairin is able to do this; and in the Jourbnal for January 28 th there is a record of the antipyretic treatment in excelsis so instructive that $J$ wish to quote it before leaving this portion of my subject:
'At first kairin was used in 10 -grain doses, and it was always given when the temperature was $104^{\circ}$ and over. After each dose the temperature fell rapidly; observations made every quarter of an hour showed that the fall was continuous for about two hours, the total fall being from $3^{\circ}$ to $5^{\circ}$. There was a striking constancy in the effects produced by a given dose of kairin, whether the dose was 5,10 or 15 grains. A dose of 10 grains always gave the best results; 15 grains did no more than 5 grains, and neither did so much good as 10 grains. The stationary period varied, but at most it lasted only a few hours; the longest time recorded was ten hours. The subsequent rise of temperature was as rapid usually as the decline. Each dose of kairin was followed within half an hour by profuse sweating and symptoms of depression, and when two doses were given in close succession (the interval being three hours and a half) marked cyanosis and collapse occurred. Kairin was exhibited twice daily for ten days; on the fourteenth day of the disease the maximun temperature was still $105^{\circ}$."
I wonder how many of us on reading this report of a case of pneumonia rubbed our eyes and thought what blowsthe pyrexia got even till the patient was black in the face. I wonder also how many were surprised to read further on t'at the patient died of phthisis ten months afterwards. My opinion is that he treats pneumonix best who, after having the lowest percentage of deaths, has the fewest cases of consolidation afterwards. First, because it dimiuishes the risk of tuberculosis. Observers like von Brunn, Siegel, and many others make it apparent that the tubercle bacillus finds its best nidus in old inflammatory products. Secondly, the conditiou of impaired health that too ofteu follows even apparently good recoreries from pneumonia and the dyspepsia which, I beliere, is constantly associated with and evidence of incompletely resolved pneumonias, press home this view of the aim of treatment.
My first cases treated with antimony gave better results proportionately than by the other plans of treatment, so that I was led to continue its use further. After a while many reasons led me to prefer small doses frequently repeated to the larger, more knock-down doses recommended by the older writers. These small doses are well borne even by the old. 1 found $a^{3} \mathrm{~g}^{3}$ grain given every hour for young adults, less frequently for older people, a dose quite large enongh. When pain, cough, and chest oppression are relieved, the remedy may be given less often. I
continued the the ted the use of the drug for several days, often a week, after the temperature had falleu to normal, to ensure removal of the inflammatory products remaining behind. There were no ill efiects from the drug used in this dosage, no sickness, no diar-
rhoas; its action seemed to be simply that of a respiratory sedative. Generally a little tincture of camphor was given witl it to ease pain.
Of the 81 cases in which no traces of mischief were to be detected afterwards, no fewer than 65 were treated in this manuer. At first I had a dread of cardiac failure, but this, as time went our, grew less and less, as I found these small doses, hy easing the strain of respiration, seemed to diminish the danger of sulders strain of respiration, semed to
heart failure. Moreover, the recoveries seemed, as it were, to be
so pathologically complete, to coin a phrase, that I hare not felt disposed to try uny other remedy. What I wish to insist upon is this, that in frequently repeated smal doses of antimony we distress of the acutestage, but one which is superior to anyother in indueing the greatest amount of resolution as tested by the condition of the lung afterwards.
The dyspepsia and general want of tone of the system, as well as the subseguent consolidation itself in imperfect recoreries, are best treatod by mineral acids in addition to the most careful attention to every hygieuic detail. Some I know prefer hydrochloric acid in an aromatic bitter, but nitric acid has appeared to me to be of.greater beneffit. The acids have always seemed to me to harc as great au effect in improving crippled lungs as they have in benefiting atonic dyspepsia. Indeed, 1 suspect the inmonary cause.

## ON THE VARIETIES OF HEPATIC CLRRHOSIS. <br> By GEORGE MUNTO SMITII, L.R.C.P.Lonl., M.I.C.S. <br> Lectnrer on Physiology, Bristol Medical Schook; Demonstrator of Morbid Anatomy, Bristol Royal Infirmary.

Vartors attempts have been made from time to time to classify the different kinds of general interstitial hepatitis, either in aecordance with the microscopic appearances of the organ after death, or according to the supposed cansation of inasmuch as Ziegler doubts the nsefulness of such an undertaking, inasmor the
the types pass ono into another. ITe says": "It is enough for present to distinguish the hypertrophic conditions from the atrophic, and even then it must he borne in mind that these conditions merely represent different degrees or different stages of what is essentially oue and the same process." Dr. Saundby, on the other hand, ${ }^{2}$ enumerates seven varieties-namely, alcoholic, cardiac or cyanotic, biliary, syphilitic, tuhercular, malarial, and scarlatinal. Charcot and llanot have, moreorer, described a "hypertrophic cirrhosis of diabetes," and Cornil and Ranvier a "fatty hypertrophic cirrhosis.". My object in this paper is to suggest a grouping of these morbid processes that mas, perhaps, serve for a working classification.

After studying the chief literature on the subject, and comparing various sections of diseased liver, it appenrs to me that confusion has arisen, in the first place, from confounding the cause with the morbid anatomy; secondly, from deseribing partial cirrhosis' as general ; and, thirdly, from considering post-mortem appearances in early and late epochs of the same disease as two distinct varieties.

For example, Chareot described a coudition elaracterised by considerable enlargement of the liver, jaundice, not usually much ascites, and a rapid course, After desth was lound a general and mniform inerease of connective tissue in the organ, with proliferation of the smallest bile-ducts and eapillaries. To this disease he gare the name "biliary cirrhosis," indicating thereby its mode of origin from bloeking of the bile-ducts. This term "biliary" has, howewer, benn trausferred from its etiological sense, and made to the least characteristic of this form of cirrhosis, hut existing in quito as markeil a decree in alcoholic and in eyanotic, as the cramination of a ferv reetions will satisfy anyone.
As an example of the sceond source of error, namely, the confounding together of partial and general fibrosis, two so-ealled "rarieties"may be given, "tubercular" and "hypertrophic diahetie" ally in or near the capsule ; but occasionally there is found an inflltration in the interior of the gland in the interlobular spaces. If tho patient lives long enough, this is sure to learl to patches of seldrosed tissue aud new formation, probably, of bile-duets. Yet this certainly should not be looked upon as a rariety of cirrhosis: it is a localised inflammation round the irritating masses of tubercle.

As a rule, no lesion of the liver is found in diabetes unless the subject also happens to be an alcoholic; and although Charcot and IIanot hare described two eases of enlarged liver with sclerosis in non-alcololic patients, yet in both these eases distinet
D. A'Text binok of Pathologral Anatomy. Hy Eraest Ziegler. Translated by D. HacAlister. M.D.

Duitish Mruicat, Jourxat., Jume 21 th, 1850.
but long use has manctioned it. Sclerosis is, of courso, o wotter word.
tuberculosis existed in the lungs; hence the appearances found in the liver may, perhaps, hare been also due to this cause, and the evidence in favour of a distinct rariety is not, 1 think, clear. "Tubercular cirrhosis" may, I think, be struck off from the list, inasmueh as it is partial and not universal, and, for practical purposes, "hypertrophic cirrhosis of diabetes" may also he omitted.

Again, the period in the course of the disease affecting the liver at which the patient dies must always le taken into consideration. So-called "monololular cirrhosis" becomes indistingaishablo microscopically from "multilobular," and an enlarged liver
may slrink until it is exceedingly small. Moreover, morbid may slarink until it is exceedingline divorced from clinical history, and a morbid tion of tissue change alone is sure to lead to confusion classification I suggest is as follows:-(a) Obstructive cirrhosis due to either (l) some impediment to the flow of bile, "biliary," or (2) to the flow of blood from the liver (as in pulmonary or heart disease), "eyanotic." (b) Irritative cirrhosis caused hy the irritation (and chronic interstitial inflammation which follows) of some poison urought to the liver by the portal rein or hepatic artery. Under this heading come (1) "alcoholie," (") "malarial," and (3) tinal cirrhosis," undoubtedly well-mame come this group, but the evidence of its existence is not very almudant.,
The obstructive are always "monolobular," that is, the connectire tissue grotrs uniformly, not necessarily round the lobules, but round the hepatic zone as well. In the irritative forms tho connective tissue grows irregularly; some lobules are dirided up by septa, whilst others escape altogether. The "syphilitic" is found ouly in children; aequired syphilis appears never to produce general cirrhosis. The "malarial" is also chiefly seen in children. In "alcoholic " the disease probably begins (Sabourin) both round the portal and hepatic systems of vessels; it is more distinctly multilobular than any other variety.

In the irritative lesions there is often thiekening of the small arteries (peri-arteritis and endo-arteritis). I do not think this is common in the obstructive varieties.
As to the distinction into "hypertrophic" and "atrophic" types, it must be remembered that the liver very readily enlarges; a rich and copious dinuer, especially when combined with wine mal.4 W'e may increase its size to one-third greater than the norstages of interstitial hepatitis; but, in the irritative forms, this subsides much more rapidly than in the obstructive, and the latter terminate more swiftly than the former, otherwise the gland would probably dwindle and atrophy. Both forms may be complicated by adenomatous growths, and, when these are multiple, an otherwise atrophied liver appears to be abnormally large.

1 ofter the above classification in the hope that it may simplify a subject that has, I believe, hitherto been somerhat in confusion,

## SURGICAL MEMORANDA.

OSTEOPLASTIC OPERATIONS ON THE FOOT.
Ir was with the greatest interest that I perused in the Jolrwal of May 5th the report by Sir William Mac Cormac of an osteoplastic operation on the toot, which generally bears the name of Bikulicz, of Prague, although in the abore-mentioned report the credit of first devising and performing the operation is giren to hy Skleffasowsky and in this country Sir Willian yerformed by looks upon himself as the first to do it.
My own interest in it is due partly to the fact that, in 18S3, in the presence of Dr. Merson and Mr. Macnab of this tomn, I went through all the steps of the operation in a case of disease of the tarsus, but unfortunately I found, after removing the posterior half of the tarsus, that the other bones were involved, and I was obliged to amputate in the position of an ordinary Syme, taking a flap from the dorsum of the foot. In addition to this, however, I have for the past feff weeks Leeu trying to fix the date of operation in a case of the late Professor Symes, Which, as far as I can see, must have been performed even before Madimiroft's first
case, and which las every appearance of being an identical operntion, the foot and lea exretly resembling that figured by Sir William Mac Cormac in the Jocrnal of May 5 th.
The pntient, a roung woman, frequently appeared in the outpatient room at IItudersfield infirmary when I was house-sur-

[^94]geon there, to be treatel for a small sore in the foot, dne to slight deficiencr of skin, and recently Dr. Irvine, of Huddersfield, at my request, searched out her abode again, hat she caunot herself remember any particulars. She has, however, communicated with a sister, who, 1 lope, will he nhle to help us.

Mr. Nacnab, of liuli, tells me he remembers a case of Syme's resembling this in every way, and therefore probably the one to which 1 refer. It aroused a great amonut of interest at the time, and he assigns as the date the years 1860 or $\mathbf{1 8 0 6 .}$ Donbtless some of Syme's din pupils of that clate will remember the case, and 1 hope some of them will be able to give a description of the operation as done ly Mr. Syme.

If J am successful in getting the date from the sister, some old case-book may give the required information. In any case, howerer, if Sir Williann Mac Cormac is correct in saying tliat Wladimiroff first performed the operation in $18 \%$, Syme's claim to priority is established, for I think I am correct in placing the date of his death in the summer of 1870. Of course, 1 am arrare it has been the custom to award the honours of priority to the man who publishes first, a method not withont its faults, tending to induce premature publication, and perhaps an erroneous estimate of the value of what has been done. Why should the published evidence of a professional jourmal be preferred to the testimony of living and credible witnesses? I hope to give full particulars soon.
D. Lowsor, 11.D.,

Hull. Examiner in Surgery to the Aberdeen University.

## a curious case of foreiga body in the male BLADDER.

A gentleman was sent to me by Dr. Miller on May 19th, 1857, with the following history: The patient assured me that, sereral jears ago, he had been told by a medical man that, if there was ever any difficulty in micturition, a paraffin candle was to be warmed, moulded into the form of a bougie, and passed into the urethra. Six weeks before seeing me, having some slight irritation, these mancurres were practised; but, on attempting to remore the parafin bougie from the body, little more came away than was actually held between the fingers. Since then he had become more and more uncomfortable; the morements of a cab or carriage conld not be borne, and he could only walk very slowly. Ile felt as if "he had a marble in lis bladder." The bladder had been sounded and nothing found, and he complained that several surgeons had been incredulous of his story.

He was nervous, and in so much pain, that I declined to do anything until he was in bed. Mr. Charles Moss administered ether, and Mr. H. S. Byam, of Chester Square, kindly assisted me. A wax-like body was at once found in the bladder, and seized by a lithotrite with some hesitation, because there was no means of knowing exactly what had to be dealt with, and I was anxious not to bite into a sticky mass from which the jaws of the instrument might not readily be extricated. However, during its six weeks' sojourn in the bladder, the war had become incorporated with a good deal of phospliatic matter; it crumbled rather than broke, and rery soon nothing of any size remained to be seized by the lithotrite. An ordinary lithotrity evacuating tube was then introduced, but only a small amount of débris could be extracted, for it was so light that the bulk of it refused to be drawn into the aspirator. The lithotrite was therefore again introduced into an almost empty bladder; and a good deal of waxy matter, which burnt with a flame when applied to a lighted candle, was withdrawn letween the blades of the instrument; the rest was well broken up, and the operation completed. The patient being $\Omega$ comparatively young man, it was thought that almost all might now be left to Nature, and for about tro or three weeks not a day passed without some paraffin coming away, either naturally or by the use of a soft catheter and an india-rubier washing bottle. On June 19th, 1887 , he passed the last piece, and on the same day was the winner at putting the shot and throwing the hammer at some athletic sports. He has continued perfectly well ever since.
The case is wortly of being put on record, because, as far as I know, it is unirune.
Wimpole Street, W
Dacteriolonical courses of study will be held in the Berlin Ilygienic Institute during each of the two months, August and November, of this year. Inyone who desires to attend the courses should write early to Dr. C. Fränkel, assistant at the Institute.

## THERAPEUTIC MEMORANDA.

## ON THE USE OF CODEINE.

I Was a little surprised in reading Dr. Lauder Brunton's most interesting paper in the Journal of June 9th to find him state that codeine is "rarely employed for other purposes than the treatment of diabetes, cough, and irritation of the throat."

For some few years past 1 have found that in nearly all cases where morphine or opium was indicated for the relief of pain, but contra-indicated from any cause, the desired effect was readily obtained from codeine.
In this way gastralgia in aged patients is easily relieved without risk, and all forms of neuralgic and muscular pain are soon conquered.
I also frequently use codeine for threatened abortion, where opium cannot safely be prescribed, and my friend, Dr. McIntosh, tells me that quite recently he found codeine act splendidly in a case of asthma, where injections of morphine failed.
Though there is much that is instructive in Dr. Brunton's paper, I fancy the use of codeine is more general than he thinks; if not, I hope his paper will induce those who are not familiar with the drug to give it a trial.

Geo. C. Kingsbury, M.A., M.D.
Blackpool.

## PATHOLOGICAL MEMORANDA.

## SARCOMA OF SUPRARETAL CAPSULES SIMULATING ADDISON'S DISEASE.

The following case, which I am enabled to publish through the courtesy of Brigade-Surgeon Warren and Surgeon-Major Steele, is an instance of the truth of the statement made by Dr. MacMunn (Jocrial, February th, 1888). "Many believe with Virchow that the train of symptoms, with bronzing of the skin, which are characteristic of Addison's disease, may be brought about by various morbid conditions of the adrenals."
A soldier, aged 23 , was admitted into hospital on June 4th, 1887. He liad for some months complained of what was called dyspepsia; his skin was muddy, although there was no distinct bronzing; he complained of great pain in the abdomen, which he referred to the region of the gall-bladder and to the pit of the stomach; there was distinct tenderness over the lower dorsal vertebre; he had constant vomiting, occasional diarrhoea, and profuse perspiration. His temperature was slightly raised for about ten days, when it became normal, and continued so until death. His symptoms increased in sererity, and, with the exception of sedatires, no treatment appeared to be of any use. He had attacks of extreme collapse towards the end, during which his pulse was very feehle, and the skin clammy. He died in a delirious condition on July 13th.

At the post-mortem examination no diseased condition was discovered, but enlargement of the suprarenal capsules; the right weighed a quarter of an ounce, the left one ounce; the structure was firm; the cut surface presented a number of yellowish nodules, varying in size from a millet-seed to a small nut; those in the left adrenal were largest, and in this there was a starshaped opening on the anterior surface, about the size of a sixpence, which appeared to be the result of the breaking down of one of these nodules. The contiguous lymphatic glands were not enlarged, nor were there any secondary deposits in lungs, liver, or elsewhere. Microscopic sections made through these nodules showed them to be made up of spindle-celled sarcoma.

Mr. C. Mansell-Moullin very kindly examined the sections, and considered there was no doubt as to their being sarcomatous; saying of the history" of the case that the disease "must hare prored fatal, not because of the sarcoma, but because of the place in which it occurred before it could effect any general change, which is very unusual."

Allan Perny, Surgeon Medical Staff.
Gibraltar.
Medical Entcation in Spain.-On Sunday, May 27th, the first stone of the new buildings of the Faculty of Medicine was laid at Barcelona. In addition to liberal accommodation for teaching and original scientific work, they will include a hospital expressly designed for clinical instruction. The site has been given by the town, and the Spanish Government has made a grant of one million dollars for building purposes.

## REPORTS <br> HOSPITAL AND SURGICAL PRACTICE IN THE HOSPITALS AND ASYLUNS OF GREAT BRITAIN, IRELAND, AND THE COLONIES.

## NORTIIAMPTON GENERAL INEIRMARY.

COMPOUND DISLOCATION OF BOTII ANKLE AND KNEE OF THE 8dMe leg: exctsion of astragalous: ricolery.
(Under the care of Mr: ${ }^{\text {P }}$ G. Il. Percival.) [For the report of the case we are indebted to JIr. W. E. Acdlasid, late 1 [ouse-Surgeon.] C. B., aged 45, a narry, was admitted into the infirmary at 9 A.m. on May 18th, 1857. The history of the accident was that he was working in a railway cutting, when a fall of earth occurred, and he, while trying to throw himself flat down-seeing that he could not escape-was caught by the falling mass, and his right leg was crushed.
On admission, it was found that he had sustained a compound dislocation of his right knee inwards, his leg being at righttibia protruding through a lacerated wound on the inner side of the knee. Ile also had a compound dislocation of the ankle of the came leg outwards, the foot being bent inwards at rightangles to his leg, and the superior articular surface of the astragalus protruding through a large irregular wound on the outer side of the ankle. Both the malleoli were broken off; neither of the tibial arteries was wounded. The patient was in great pain, but not much collapsed. Mr. Percival, having examined the injuries, directed the House-Surgeon (Mr. Audland) to reduce the dislocations as completely as tras possible, and to make an attempt to save the limb. Ether, therefore, having been administered, the knee-joint was easily reduced, but he found it impossible to get the foot into good position until the tendo Achillis had been divided, and the whole of the astracalus, with both of the malleoli (which were lying nearly loose in the wound), had been remored. The wounds were then well syringed out with carbolic lotion, the edges brought together with silk sutures, and dressed with iodoform and carbolic ganze. Tro drainage-tuhes were placed in the wound of the knee, and one into each side of the ankle. Carbolic spray was used. The limb was then put on a back splint with a foot-piece and two sidesplints. After the operation, the man soon recovered from collapse, and said he felt much more comfortable and in less pain.

At 6 P.M. the wound was dressed on account of some oozing. At 8 p.m. he was given injection of morphine, one-third of a grain: ordered low diet, beef-tea, and milk.
Nlay 19th. The patient slept well; took food well; complained of some pain in the ankle; ordered pil. morph. $\frac{1}{6}$ gr. h. n.
May 2.2 . The wounds were dressed for the first time since the day of the accident. That of the knee looked well; one drainagetube was left out. Some sloughing of the edges of the ankle wound; not much suppuration.
May 25 th. The wounds were dressed and looked well. The patient's general condition was much better; ordered half diet.

May 28th. A large, deeply-seated abscess was discovered and opened, about four inches above the internal malleolus: a drainage-tube was introdnced and the cavity washed out with carbolic lotion.

May 29th. Another small abscess nearer the ankle was opened. The wound of the kuee had nearly liealed; the drainage-tule was left out: no suppuration.

May 31st. Dressed and splint clanged.
June 3ril. All the wounds were dressed and gning on well; ordered full diet and a pint of porter.
June 33 rd . The back splint was changed for a side splint owing to a slight sore of the heel.
Iuly 15th. The patient got up and went 'out in the grounds in a carriage.
August 3 rd . The patient went about on crutches. The wounds of the ankle were mearly healed: that of the knee quite well. IIe could nearly bear his oivn weight on the foot. There was considerable movement in the knee-joint.
In October the patient left the infirmary and went to a con-
ralescent home for six weeks. Ife was then again in the infirmary for a few days, as a small piece of neerosed hone was exfoliated from the lower end of the tibia. Ile finally left the infirmary in December.

The temperature chart of this case was unfortumately lost, but. after rising in the evening during the first ten days to $101^{3}$ or $102^{\circ} \mathrm{F}$., it remained normal.

In Fehruary, 184, , the patient was seen. Then there was it reequarters of an inch shortening of the right leg; the knee coull be bent nearly to a right angle: patella freely morable : there was no roughness or grating. ITe could bear his whole weight on theleg. The ankle was firmly, fixed; free movement in the tarsal joint. There was a small sinus over the inner side of the ande, which discharged slightly.

I think the interest of this case is in the fact of a man being able to retain such a usefnl limb after so severe an injury. The good result in the case of the knee-joint is especially noticeable, the morements of that joint being almost entirely regained.

## HOSPITAL FOR TOMEN, SOHO SQUARE.

AMENORRHCEA ASSOCRATED "WITH ALCOHOLISM
(Under the care of Dr. C. II. Carter.)
[Reported by G. H. Burford, M.B., Ilouse-Physician.]
E. B., aged 26 , married three years and haring two children, came into hospital with a history of ten months' amenorrhoea, interrupted once only by a three days' metrorrhagia some six monthsi before admission.
Two years ago the patient became profoundly melancholic, ensuing upon the death of a child. Habituation to the free use of alcohol was then begun, and continued up to date, when her daily quantum was about sir glasses of neat brandy:
On examination nothing was detected in the condition of the: reproductive organs as accounting for the amenorrhoea. "The uterus was high in the pelris, the cervix small and not lacerated, the os uteri patulous: no pain or tenderness erinced on examination."

General examination showed that the first cardiac sound was feeble, and less marked than the second; the lungs somerrhat cedematous; the abdomen tumid, but with no free fluid discoverable. Subretinal effusion was present in both eyes.
The urine was highly albuminous, containing also bile pigment and bile acids; specifie gravity, 1025. No incontinence at first. but this symptom developed afterwards.
After a fortnight in hospital, she died with symptoms of cerebral effusion. Post-mortem examination by Dr. Dalton showed. in addition to appearances of hepatic and splenic cirrhosis, whito patches on the cardiac ralves and on the peritoneum. The renal changes were confined to a slight general enlargement of both kidneys, with a clondy granular appearance of the tubular epithelium. But the ovaries were white and shrivelled, like those of an old roman, and under the microscope fihroid changes trere apparent in them. The uterus was apparently normal in character.
Remarks.-The amenorrhoer in this case seems ascribable in marked degree to the alcoholism, while associated with melancholia and renal lesion also. I can find no recorded instance of melancholia alone causing protracted and continuous amenorrhoa. The renal changes were by no means advanced: whilst the shrivelled ovaries, cirrhotic liver, and fibroid patches on serous merabranes are quite in keeping with the climieal history of alcoholism. The uterus, singularly, had undergone nostructural lesion. That cluronic nephritis will induce secondary amenorrhea is a well known fact; yet the persistence of the amenorrhcea, with the non-detection of albuminuria until admission into hospital, indicates the commencement of ovarian change prior to any results accruing from the renal lesion. The solitary break in the otherwise continuous amenorrhoa is wortly of note; profuze disof a reproductive system whose functionse been the final eftort annulled.
Mrlena Vera Nibnnatorlar.-Dr. Utto Tross, of Curlsruhe, has described (Deutsche Med. Woch.) a case of the disease, which first showed itself twenty-four hours after birth, by exirente sudden collapse. Camphor-henzole and ergotin were injected, the limbs were bandaged, and an ice-bag was appierl to the abdocovered perfectly.

## REPORTS OF SOCIETIES,

OBSTETRICAL SOCIETY OF LONDON. Thursday, June 21st, 1888.
Join Williams, M.D., President, in the Chair. Electrolisis in the Treatment of Diseases of Women. Adjourned Debate. The debate on the papers on Electrolysis in the Treatment of Diseases of Women, read at the last ordinary meeting by Drs. Stearenson, Lovell Drage, Gibbons, and Shaw, was resumed.
Dr. Playfair declared that those who had really mastered the technical details of electrolysis had never found that method useless. It must be justly tried, and then established or condemned, as results might prove. Dr. Playfair, through personal experience, hed sufficient evidence to satisfy himself that the agent had great power, but tiat much was yet to he learnt. Cases should be treated by gynecologists, and not left to professional electricians and to managers of the electrical department of bospitals; as well leare ovariotomy to the cutlers who made the instruments used in that operation. Passing sounds and electrodes required special knowledge of the diseases of women, and the electrician might not necessarily possess that knowledge. Dr. Stearenson did possess it, but he and others similarly circumstanced must treat their cases as gynecologists, not as electricians. Turning to his own clinical experience, Dr. Playfair believed in the hæmostatic effect of the positive pole in the treatment of fibroids and other forms of uterine hæmorrhage. It sometimes acted most powerfully and, as far as he conld ascertain, permanently, in arresting hæmorrhage. In other cases it did good for a time; in only one case had he found it worthless. Dr. Playfair then described some of his own cases. He noted that in none had the patient been laid up, so that the good results could not be attributed to rest. As to the treatment of non-hæmorrhagic fibroids by puncture and the negative current, he had only experience through two cases. He believed this variety of treatment to be the most questionable and dangerous manner of applying electricity : besides, very fexs such fibroids required any kind of treatment. In both of Dr. Playfair's cases a large mass was impacted in the pelris, causing severe pressure-symptoms. In the first the tumour had practically disappeared, but there was great constitutional disturbance. In the second, where the pressure had rendered voluntary micturition impossible for a long time, the tumour was mucli lessened; the patient no longer required the catheter, and felt quite well and comfortable. Dr. Playfair then described some cases which tended to prove that the negative current was of great value in the treatment of severe dysmenorrhoa, membranous dysmenorrhea, and aggravated uterine catarrh. Time did not allow him to dwell on the use of electricity in promoting the absorption of inflammatory deposit, and on the use of the interrupted current to relieve pain or to cure amenorrhcea. After three uterine faradisations, a patient commenced to menstruate after seren years of amenorrhcea, and had continued regular ever since. In other cases of like nature, electricity had failed to do good. Dr. Playfair, in conclusion, declared that his clinical experience proved that electrolysis was an agent occasionally capable of doing much good. It might do much harm if injudiciously and unskilfully used, but that truth furnished no argument for rejecting electrolysis as a therapeutic agent, but rather demonstrated that the effects of the new method must lie carefully studied, its indications noted, and its dangers detected and avoided.

Dr. Inglis Parsons said that in the case of uterine fibroids, the results of electrolysis would vary according to the position and structure of the tumour. He had found by experiment that electrolysis occurred only at the poles, and the free acids and alkalies resulting from it also acted locally. When fibrous tissue predominated very little reduction in size was possible, eren by puncture, whereas a soft myoma could be disintegrated by puncture. In one case he passed a small platinum needle, insulated to within one quarter of an inch from the end, through the anterior vaginal wall and one inch into the substance of the tumour. The current only came off in the tumour, the vaginal wall remained intact; no sinus was left, as would have been the case had the actual cautery been used, but the puncture closed up at once, whilst at each sitting a large piece of the tumour was destroyed.

By February last the tumour was reduced to one third its original size, and had since remained unaltered. What was left appeared to be fibrous tissue. When the electrode could not be bronght into contact with the tumour it might clieck farther growth, and thus prove of value in the earlier stages of uterine fibroid disense. Family plysicians often let the disease advance throngh dread of advising so serions a step as abdominal section, except as a last resource. Dr. Parsons believed that electrolysis would prove successful in hemorrhagic cases whenever the electrode could be made to touch the whole of the bleeding surface. He had sent out of hospital a few weeks ago a case where bleeding had been incessant for two years; after twelre applications it stopped, and since then the patient had had two normal periods with only slight show.
Dr. Bantoce could not express himself in favour of electrolysis. There had been much assertion as to what this treatment was going to do, but little evidence of what it had done. Dr. Playfair's cases failed to convince him of the special adrantages of the method. A year ago Dr. Woodham Webb stated that while one of the electrodes was applied over the hypogastrium by means of a filthy mess of potter's clay, the other electrode was always applied within the uterine cavity, This practice was based on an alleged electrolytic action, very beneficial for uterine fibroid disease. Dr. Bantock did not believe there was a tittle of evidence in support of the idea of clectrolytic action extending betreen the poles. Apostoli himself and some of his followers had acknowledged the correctness of this opinion. Through the failure of the supposed electrolytic method they land taken to the totally different practice of thrusting one of the electrodes into the substance of the tumour. This resembled Dr. Greenhalgh's way of treating fibroids by thrusting the actual cautery into their substance-a practice which had fallen into well-merited neglect on account of unfarourable results. Both methods sought to bring about the destruction of the integrity of the tumour, it being supposed that if once the degenerative process were started it continued till the fibroid tumour entirely disappeared, leaving, contrary to Dr. Parsons's evidence, not a trace behind. The caustic action at the poles Dr. Bantock admitted, but he thought that this method offered no adrantages over other practices in the treatment of those granulations on which uterine hemorrlage so often depended. The alleged diminution in the size of the tumour was due rather to a change in the condition of the uterus itself. Seven years ago he removed the appendages of a patient subject to a uterine fibroid; three weeks later the whole mass had diminished by nearly one-half. Within two months, on the return of menstruation, it became as large as hefore operation, and three years later he had to perform supravaginal hysterectomy. It was the hypertrophied nterine walls which had diminished in size. The statement that althongh the tumours became smaller after a course of electrolysis, they did not disappear, was astonishing;" after the removal of the appendages, if the tumour itself became smaller at all, the process. Went on to complete disappearance. Dr. Apostoli had insisted that a profound lmowledge of gynæcology was necessary for the successful application of his method. Dr. Bantock referred to two cases recently published by Dr. Apostoli, where it really appeared that there was a collection of fluid in the pelvis, and the use of a trocar and cannula would have finished the matter in five minutes instead of several days. It was evident that ${ }^{\prime}$ Dr. Apostoli had no idea of the exact nature of the conditions in these two cases. Dr. Bantock did not oppose the method itself, but rather the exaggerated claims which had been set up for it. Nobody could be convinced, either hy the cases selected by Dr. Webb from Dr. Apostoli's records of fire years' experience, nor by Dr. Playfair's cases. On moral grounds, Dr. Bantock opposed the manner in which this system of treatment by electricity had become a fashion of the day. Dr. Bantock here expressed regret that a Fellow took these remarks to himself. On reading the list of the rarious and opposite diseases for which the treatment was recommended, we were reminded of the rannted virtues of patent medicines, such as Holloway's, Beecham's, Cockle's, or Widow Welch's pills. Dr. Bantock concluded by saying that his mind was still open to conviction, and he was content to allow others to pursue the electrical treatment, provided it was done in a truly scientific spirit, free from that empiricism and imposture which at present characterised it.

Dr. Routh compared the opposition to the electrical trentment of women's diseases to the similar opposition to the sound and to orariotomy in past days. Only those who had some experience
of the method could judge of its merits. He believed that it was efficient in many cases. Thus, the negative pole cansed dilatation of the contracted passages, as in stenosis of the uterine canal: the extent of its dilating power in this respect had not been sufficiently dwelt npon. In one extreme case he could introduce two or three fingers into the uterine cavity after employing electricity. Hoping to dilate the cavity further, he gave ergot, when, to his surprise, he found that the drng closed the os. Frrors of diagnosis had discredited electricity, as in one case of a tumour impacted in the peliad dre. Bantock had exhibited elsewhere a uterus removed for The case recovered but bity were found a number been firat dilated and the tumours removed one by one, the patient would have retained her sexual organs. In 1872 Dr. Routh cured two casea of large fibroid tumour by the electrical cautery, but the wounds made by the electrical agents then in use proved very troublesome to heal. This disadvantage was overcome by Dr. Apostoli's appliances. Dr. Routh stated that elinical experience showed the necessity of antiseptic injections after the application of electricity to fibroids, especially when rise of temperature occurred. The electric wire allowed the operator to limit the application of his remedy, both
as to as to place and time with great exactness. This was a great discharge of tenacious mucus or pus. An ordinary canstic could not be applied with the same precision. Lastly, though hysterectomy was often justifiable, we must not forget that it unsexed a woman-a serious effect indeed; so that, if electricity could also cure a fibroid, it would be far preferable to a mutilating operation.
Dr. Champners considered that discnssion on the subject, especially as to permanency of success, was premature. Those rant, prejudiced in the method were not necessarily either ignolish their successes might be perfectly capable of forming a judgment. He had given the method a trial, but did not consider that the time had arrived for the publication of his results. As to the assertion of Dr. Playfair that reat had nothing to do with the cure of his cases of fibroids, his hospital patients being kept out of bed, pital wne rememberes that, or did not keep to her bed. Fibroids, again, were liable to extraordinary spontaneous variations in aize: this must be remembered in cases where the tumour became markedly amaller after electrolyais; canse and effect might be of the cases reported in the papers wader discussion In Dr. Shaw's communication decidedly facts scientific were to be found, but the double electro-puncture as carried out in his experiments did not necessarily illustrate what happened in ordinary clinical cases. Finally, Dr. Champneys had heard of widespread suppuration, of aepticæmia, and of death after the employ-
ment of this method, and regretted that these cases had not becn reported,

Dr. Galabin wished to know if electrolysis and consequent absorption of the cells of the tissues or tumour took place midway bet ween the positive and negative poles, or only at the poles. He criticised the former opinion very strongly on phetric grounds, and was inclined to bel:cve that the effects of electric treatment in cases of fibroid were dne to caustic action. Dr. Galabin fibroids had bee little satisfactory evidence on tic, electricity was valuable when the interior of the uterus required treatment and the cervix was narrow; in other respects it was hardly guperior to otherr caustic agents.
Dr. Heywood Smith was averse to allowing prejudice and inexperience to shelve the electrical question, but at the same time he thought that the present discussion would be fruitless. The natural fluctuations in the size of fibroids muat be more accurately studied. He believed that electrolysis was of value in promoting the absorption of inflammatory deposits in the pelvis Parsons had already demonstrated. The methoda ahould be systematically tried in intractable cases of obscure orarian pain. A good handbook, indicating the right line of investigation as well his the use of instruments, was much needed.
The President did not object to Dr. Playfair's claim that electricity should be placed on its trial. It had been already tried in the treatment of women's diseasea for aome time. The literature of the subject was not inconsiderable, but it was very disappoint-
ing. for it mainly consisted in the description of instruments and
the mode of using them. Dr. Apostoli, in particular, had published little elae, except a series of general assertions and sweeping atatements. Now, in estimating the value of the published work of an author not personally known to the reader, and whose powers of observation could not be tested personally, the reader should be aequanited with more than one of that author's published writings. much light upon the author's record, for one work might throw before the International Medical Congress, a paper wherein he proposed to treat the uterus during the lying-in period by faradisation, with a riew to prevent aubinvolution, metritis, and other evil. The Fellows of the Society might form everyone his own
estimate of that proposal. In a later work by Dr chronic metritis and its treatment by electricity, there was much about instruments, and many sweeping assertions, but not a single ease in support of the latter. Dr. Steavenson's paper was not free from similar atatements. He said that the contracted cervix could be dilated by electricity, with results more permanent than after dilatation by other means. We had, however, no data which made it possible to form any valid conclusion on the permanency of the effecta of tenta, bougies, etc. How, again, could Dr. Steareneon justify his assertion that electricity cured the stenosis of the cervical canal caused by amputation of the cervix by the galvano-cantery? The President severely criticised the statementa of Dr. Carlet, a pupil of Dr.Apostoli, in a work on the treatDr. Carlet fibids by electricity after the methoid tumours mere often regarded as ehronic metritis, engorgement of the uterus, ulceration of the neck, anteflexion, anteversion, and especially retroftexion and retroversion. Such was the dominant idea in Dr. Caribed. Fifty-ninealed by the ninety-four cases which he de-
sol four cases only did the canal of the uterus measure orer 4 inches, the greatest length being $5 \frac{2}{2}$ inches. In twenty-five it measurech lesa than 3 incheal Together with the slight elongation of the canal there was enlargement and induration of the uterus, with hemorrhage. The President was not ashamed of the ignorance which re-
garded these cases, with two or three exceptions, as cases, not of garred these cases, wat of aubinvolution or chronic metritis. These cases were treated for hæmorrhage for periods varyiug from two months to a year ; yet in none did the diminution in the length of the canal exceed 1.5 centimètre. They could have been effectually treated in a ahorter time by other means. The President then slowed that treated by negative galvano-caustic was equally unsatisfactory. Five cases were treated by puncture, mostly large fibroids, but iu only one could Dr. Apostoli introduce the sound. The canal measured 15 centimètres before and $11 \frac{1}{2}$ after treatment. This decrease known to occur as a part of the cyelical changes of fibroids. Inconclusive, in a similar manner, was the record of nine cases treated by positive and negative galvano-eaustic. In none out of all these cases did any alteration in size take place The method had thus been put to the test by its founder at all. very unsatisfactory results. There might be a place for the ployment of electricity in the treatment of diseases of women, but as yet no case had been made out for it.
Dr. Sreaverson felt some dificulty in replying to all the questions included in the discussion. He hoped that it would be remembered that he wrote his paper more than a year ago. The method had since undergone moditications. He had not admitted cauterising properties, but advocated a more extensive use of electrolysis in those diseases of women where caustics were mo:t usually employed. The apparatus was cumbersome and its management difticult, so that the new method manage the appantus, electrolysis would prove, as Dr. Horrocks had said else where, a more efficient and elegant way of applying caustic than any other that we possessed. In reply to Dr. Bantock, he maintained that this canstic action was true electrolytic action. Flectrolysis whanly not settled, Dre Steavenson helie though this inportant point the tissue between the poles, as, for example, in the substance of a tumour. The science of electricity faroured this view, especially when the electric aflinities of animal tissues were considerel: and
respect. Turning to the treatment of erosions and catarrh, lie
brought forward evidence to prove that electrolysis, instead of being a longer, was really a shorter, method of cure than any other, for it was a better local remedy than any caustic. Some of his eases certainly required, there or four months', treatment, by electrolysis; but they had mostly undergone, without benefit, prolonged application of mineral caustics, in some instances for one or two years. Urethral caruncle, was best treated by galranocantery, with cauterisation of the raw surface left after remoral of the growth.. T'urning to Dr. Playfair's remarks, Dr, Steavenson said that gynecologists should not attempt, this treatment without some knowledge of electricity, nor electricians without some knowledge of gynecology. Dr. Playfair had urged that cases suitable for treatment could only he selected by men who had a superior knowledge of diseases of women. Dr. Steavenson had enjoyed that privilege at St. Bartholomew's Hospital. In reply to the President, he thonght it premature to say that the enlargement of the cervical canal for dysmenorrhoea produced by electrclysis was more permanent than when it was effected by mechanical dilatation or by incisions; but the President admitted that some contractionoccurred at once after the canal had beenstretched to a large size by dilatation. Dr. Steayenson declared that the case was different after electrolysis. There was no ipmediate contraction, and certainly none for a month or sin weeks; but for how long the enlargement of the canal was maintained he had not sufficient experience to prove. As to the taunt that; if cicatricial tissue out of sight in the pelric carity could be made to disappear by electrolysis, cicatricial tissue on the surface of the body might be and ought to be removed by the same method, though the advocates of electrolysis shirked that test, Dr. Steayenson saicl that; on the contrary, he had tried electrolysis with success on cicatrices at the meatus of the urethra, and on the brawny tissue around old perineal and scrotal fistule. The dense tissue had visibly softened down.

Dr. Grbbons admitted, tlat some of his cases might have been cured by other means, but maintained that the results seemed more satisfactory, and, where be could trace the history, the patients seemed more thoroughly cured by electrolysis than by other methods. The caruncle case, criticised by Dr. Herman, required two applications for a special reason, which be explained. He further admitted that the method was very unsuitable for private and general practice, yet, with all its present disadvantages, it was a means of treatment well worthy of prolonged trial by those who had patience and material at their disposal. He admitted again that, as Dr. Playfair, had insisted, clinical facts must be sought and recorded ; yet already: he had known of great temporary benefit from electrolysis in a case of bleeding fibroid. Dr. Bantock was clearly prejudiced against electrolysis. Dr. Gibbons, while insisting that electrolysis as a means of curing fibroids deserved more trial, and would be better, if successful, than oüphorectomy or hysterectomy, wished it to be remembered that the method gave promise in other directions, as his awn paper demonstrated. Electrolysis should be curefully applied in obstinate, intractable affections like chronic metritis, 1 and not rejecter until wide experience had proved it to be unworthy of support.

Dr. SHaw believed that an increase of arterial tension really took place, and contimed after the application of the current, and had no doubt that what was understood by electrolysis really took place, for, at the positive and negative poles, together with acids and alkaline bases respectirely, there were 'acid'and alkali albumens. Some of the cases of failure were due to localirritation, the result of a too early or too vigorous use of the hemostatic action of the positive pole. A preliminary or occasional resort to the derivative action of the negative pole appeared advisable. The negative pole acted, he believed, in a twofold manner on a stricture or a closed cerrix. First, it caused the swelling up of capillary granulations; secondly, it exercised a directly solvent action on the fibrous tissue. Dr. Shaw had, satisfied himself by a series of experiments, a description of which was appended to his paper, that electrolysis went on between, as well as at, the poles.

## BRITISH GYNECOLOGICAL SOCIETY. <br> Wednesnay; June 13th, 1838.

Arthler W. Edis, M.D., F.R.C.P., President, in the Chair Supravaginal IIysterectomy.-Dr. G, Granville Bantock exhibited a multiple fibroid tumour of the uterns, Weighing 1 lh. 9 ozs., removed from a single woman, aged 27. The sym-
ptoms were severe dysmenorrhea and menorrhagia, obliging the patient to relinquish her occupation. She was very anæmic from loss of blood. The thmour was removed on May 9th, and the patient was convalescent. A, Tery small portion of the cervix was left, and for some time there wha a free communication between the ragina and the stump-hole along what remained of the canal of the cerrix. He had observed this in several cases, but in all the fistulous track had closed, and hejregarded it as a mattel of no importance. In aldition to the tumour in the fundus, forming the bulk of the mass, there were numerous small fibroids scattered through the organ, and at least five small fibroids pedunculated in the cavity; also a large single fibroid of the soft œedematous variety, situated in the right wall of the uterus, and Treighing $4 \frac{1}{2}$ lbs., which he had removed from a widow, aged 40. The tumour had grown rapidly. Up to six months prerionsly menstruation had been regular and quite moderate, bit since then had become more and more abundant, until in the last two periods the flow was excessivé. Supravaginal hysterectomy was performerl on May 2Sth, and the patient was doing well. In both cases he used his new serre-noud and wire of Delta metal. There was a marked absence of any blackening of the stump, and of that disagreeable odour which was so inseparable from the use of the iron instrument and wire. If properly treated it would stand any strain that was required.-Dr. Rocth, in reference to the first case, remarked that removal of the tubes, expecting, thereby to effect.a cure, would have failed. Electricity, also would have been, useless... He maintained that if the uterns had been well dilated, it would have been possible to find ont the presence and to remove the uterine tumours, and so stop the hemorrhage.The President exhibited, a large fibroid similar to the one exhibited by Dr. Bantock, It was very large, and occurred in a young widow, aged 23 . The prominent appearance, of her abdomen seriously interfered with uer prospects. Two and a half years before she had given birth to a living child" the confinement being followed by some trouhle. Trio years later she again became pregnant, but miscarried at an early date. Shortly after this hæmorrhage declared itself, and was so severe she almost sank. She rallied, however, and was enabled to resinme her duties. He thought that by removing the oraries the bulk of the tumour might diminish, but the operation had proved so difficult that he determined to remove the growth in its entirety This he effected in the usual way, and the patient recovered without a bad symptom. Ife also exhibited the ovaries, one of which was very much enlarged and the otler shored signs of commencing cystic disease, Which he had removed from a patient with a fibroid not, larger than the double tist. In that case the hæmorrhage, was the reason for surgical interference. IIydrastis canadensis had checked it for a time, but the following period was again profuse. The patient had made a good recorery. In reference, to exploring the carvity of the uterus beforehand, he observed that, the result was very often to set up some cellulitis. In the first case it was the size of the tumour, and not the hæmorrhage, which necessitated the, interference, the converse being the case-in the latter instance. In neither patient would dilatation of the cerrix and exploration of the uterine carity have been a prudent plan. Nothing could have been gained ly it in the first, and distinct risk to the patient would have followed in the latter case, - Mr. Iawson Tart, said that, if one believed the descriptions published, it was just in such a case as the first exhibited by Dr. Bantock that electricity should prove useful, otherwise it was of no use at all. It was a pity it had not been tried, but, of course the actual condition of things was, not known. Dilatation in nineteen cases out of twenty did no good, and in such a case its risks would be nearly as great as hysterectomy. They were beginning now to hear the other side of the story of electrolysis, and a death had occurred at Liverpool. He, had that day operated upon a lady who liad been treated by electricity for months, not only without benefit, but with absolute detriment.-Dr. ROGERS agreed that such a fibroid had far better be removed: He had, however, seen electricity do a great deal in the removal of these fibroids, both small and large. Deaths had occurred in London as well as Liverpool, but the success had been great in other
Ruptured Tubat Pregnancy.-Mr. La mison TaIt brought before the Society a case of, this nature. The patient was brought two weeks ago with a history of having just recovered from a severe attack of ovaritis. She was 28 years of age, had been married nine years, and had three children, the last ten months ago. She had been ill ten months, losing a good deal of blood, with pain in the
lower part of the abdomen, and was really very ill. A large cystic mass could be felt in the pelvis, rising three inches above the brim. He considcred that it turned out to be nothing of the kind. The broad ligament on the left side was distended with a large quantity of blood-clot, and it was very difficult to ascertain What the condition really was. In the Fallopian tube, which he had laid open, the orum was found. The patient was not very to lead one to suspect pre was obtainable. There had been nothing the parts made it clear that it was a case of tubal pregnancy which had ruptured into the broad ligament. Had he known he might, of course, have operated from the ragina; but eren then he would have done exactly the same thing. There were evidences of great recent bleeding into the cavity, and that might have continued unless the broad ligament had been tied.

Extra-Peritoneal Cysts.-Mr. Lawson Tait had had two of these rare cases within a week. The first was in a child of 14 , and he had at first taken it for a parovarian cyst. On the operating table an alteration in the zone of resonance and dulness was rather puzzling. On opening the abdomen, he found it was one of those extra-peritoneal cysts, lined with the usual amuiotic membrane. Bearing in mind the unsatisfactory results of drainage in these cases, he acraped the wall, washed the cavity well out, and then flled it with water, hermetically closing the wound. The high temperature at once subsided, and there was no appearance of the sac refilling. If it refilled, he meant to tap it and inject iodine. In future he would do this at the time of operation. In the second case, there were rery acute symptoms. The patient, a woman, aged 21, looked rery ill. He recognised the condition at once, but, in addition, he found the two Fallopian tubes greatly distended, covered with granulations, and full of a cheesy material, being the second case in which he had met with tubercular disease of the tubes occurring in the cysts. The first patient recovered, and had since continued quite well; and so far this young woman had done well also. The stuff was undoubtedly tubercular. If the patient continued to go on well, it would go far to render necessary a revision of the views on the pathology of tubercle, which might, after all, prove to be a merely local disense.

The Influence of Removal of the Uterus and its Appendages on the Sexual Appetite.-Mr. Lawson Tait read this paper. He said that the popular belief on many points was aingularly erroneous. For instance, it is believed that removal of bath testicles in a male
deprives him not only of the power of impregnating the female, but also of the power of engeging in sexual intercourse. The only ground for thia belief, freely asserted in many published authoriated seemed to be a hastily constructed conclusion not substantiated by facts. Granted that the remoral of both testicles from aff animal before it had reached puberty would have such an effect, it, by no means followed that removal of the testicles in an
adult would do more than prevent him procreating. He had the evidence of a patient in whom one testicle had been removed at the age of 19 for scrofulous disease, and the other at 39 years of age for some growth which wes stated at the time to be cancer. Intercourse had been subsequently as aatisfactory as when first married. From extended inquiries in cases where both ovaries had been removed for many and various reasons, and at all ages from 17 to 60, he was aatisfied that the ovaries had nothing to do with the sexual appetite. The teat cases were not those where the operation had been performed after marriage or other experience of sexual intercourse. Evidence of the retention of the sexual appe-tite-in such cases would mean nothing at all. But the evidence of of ascertained virginits, who have married afterwards, and yet in whom a sexual appetite had been developed, was absolutely unanswerable. He had had the opportunity of making inquiries in seven such.cases, where the ovaries had been remored, and in three cases where the uterus as well as its appendages had been removed
for fibro-myoma. The evideuce given was always that of the husband, for many reasons a better witness than the patient herself. -Mr. Marvey agreed as to the general result of the remoral of the ovaries, but he had met with one case where the loss of sexual appetite had followed their removal.-Dr. Mansfll.-Mocllin said that the popular impression was largely ahared by the profession: where they weritate now to remove che obvious appendares of women whose sufferings were undoubted, but in whom no manifeat disease could be detected. The fear of "unsexing" the patient had acted as a restraining influence, and such cases were allowed
to drift on indefinitely. The evidence which Mr. Tait had brought before them would materially strengthen their hands in dealing with such cases.-Dr. Granyille Bantock, Dr. Fievwood SMrit, Dr. F'axcourt Barnes, Dr. Roctu, and others took part in the discussion.-Mr. Latson Tart replied.

## CEYLON BRATCII.

Saturdat, March 3rd, 1888.
Dr. Van Dont, Vice-President, in the Chair.
Anchylostomiasis.-Mr. Fernando, at the request ol the Honorary Secretary, read, on behalf of Mr. Gratiazan, his paper entitled "- -ates on some Cases of Anchylostomiasis."-Dc. ATTYthat the disease was directly caused by the presence of the anchylostoma in the duodenum. No doubt it was fonnd in some persons who died of anæmia, but so were the round worms, and if the disease was caused by the former, why not equally by the latter? ILe had before him the result of serenty-eight post-mortem examinations, in which diligent search Tas made for anchylostoma in the intestines both by himself and ly his house-surgeon, Mr. Rosairo, when he was in charge of the Kandy Hospital some time ago. Of these, sixty-eight were well marked cases of anæmia, in all of whom, if the theory put forward by Dr. Lutz and others were correct, he ought to hare found the parasite in question in
the intestines. But he found it only in thirtr-six of the casen in thirty-two, or 47.05 per cent., it. was absent; but were observed in most of the cases, both in those in which the anchylostoma duodenale was present, and in others in which it was absent. The remaining ten patients were all plethoric subjects; of these, nine died of acute diseases, such as pneumonia and continued fever, and one from injury to the spine. In these, the anchylostoma was present in five, that is, in three cases of pneumonia, in one of continued ferer, and in the case of injury to the spine. Of course, it might be said that had these persons lived were they absent in thirty-tro of anæmic after a time, but why the disease was really caused by its presence in the intestines? Might it not be considered with greater reason that whatever induced the disease in the latter, that is, in cases in which the anchylostoma was absent, was also the cause of the former, and that the presence of anchylostoma in these was of no more import in its carsation than that of the lumbrici found in common with it in a by no means difficult to cure, and he had treated successfnlly the Kandy Hospital records would show, scores of cases among estate Nalabars as well as Singhalese villagers, without thymol or any other specific treatment, and only with good nourishing food and remedies calculated to improve the general health; and the success which attended Mr. Gratiaen's cases, in his (Dr. Attygalle's) opinion, was due more to the treatment on general principles, which he adopted after the exhibition of thymol, than cases of anemia that occurred in epidemic form among the workmen employed in the construction of the St. Gothard Tunnel some years ago, if he (Dr. Attygalle) recollected aright, it was attributed by sereral of the Swiss physicians to their having been ill-fed and ill-housed; in other words, to defective diet and defective sanitary thought, be denied as a rule that the disease occurred most, if not entircly, among the poorer classes of people. whether in Cerlon, Egypt, Brazil, or South of Europe-countries where it is chielly met with-who were ill-fed and ill-housed, and not infrequently living in malarious districts. He Cas inclmed to the belief that the cases of auremia metain of the essential elementary principles, probably albuminates, of which the dietary of the poorer classes of natives (both Singhalese and Malabars) was particularly deficient, aided to a considerable extent no doubt by other secondary causes, must be borne in mind that the anchylostoma did not reproduce itself in the human intestines; its number depended entirely on the number of ova swallowed by each individual, and it was also so small in size that one would hardly think it possible. without further proof, even if it were found in large numbers, which was
not the case as a rule, that it would consume such a quantity of blood as to ceuse anemia-Dr. Briso hoped he would not be of sidered egotistical if he stated that the first discovery of the anchylostoma duodenale in Ceylon mas made by him, when he was
pathologist of the General IIospital, in Dr. Drieberg's presence, who was acting at the time for the Medical Superintendent, and who commenced the treatment of cases with relerence espccially to thic expulsion of the worm. It struck him very forcibly that in deaths from other dis ases, such as preumonia, fevers, etc., anchylostoma had been met with. Although they were not fonnd quite so freyuently as round worms, yet, in some cases where round worms did not occur, anchylostoma did. After thie statistics and assertion* of Dr. Ittygalle in regard to many cases of anæmia in Ceylon in which he did'not find the anchylostoma present, he (Dr. Lrito) would say that he agreed with him. In the St. Gothard Tunnel operations a peculiar kind of anjemia was associated with the presence of the auchylostoma, he admittel; but the parasite was so Trequent in the post-mortem examination of cases that did not die, of anmemia, that he had his doubts as to whether its presence inrariably gave rise to miemia with all its train of symptons. Thymol expelled the worm, and he found this to be so whenever the ova was found leforchand; but one of the greatest dangers in this treatment was its terdency to cause intestiual irritation, and this was a danger to guarl against. In sereral of the deathisafter the administration of thy nol, he found marked congestion of the intestinal canal, - IIr. Schomman quite agreed with Dr. Attygalle that, in the generality of cases, anemia was due to bad diett and malnutrition. Il suid that, in his experience, such cases were suiccessfully treated by ferrugiuons tonics and nutritious diet; but the patients, after they retucned to their homes and resorted to their usual poor diet, after some time again songht admission into hospital on account of relapse. Thanks were due to Mr. Gratiaen for the report of a number of cases of anæmia in the Kandy Hospital, which he stated were successfully treated by him with thymol, according to Dr. Lutz's method. It would be interesting to know if these cases ever returned to hospital with a relapse of the disease, for, if they did, Mr. Schokman thought the theory that anæmia was due to anchylostoma duodenale failed.-Mr. ELEyatamby said that when Mr. Brito suggested the theory, the treatment adopted was by felix mas, santonine, etc.; but more cases were lost than by the expectant treatment. He was the houseplysician of the General Hospital at the time, and he found iu three-fourths of the cases of anæmia that the expectant treatment answered. It was evident the patients could not stand the diarrhoea. The active treatment had increased the rate of mortality. In very few cases was iron used-ammonia seemed to answer better. As regards the parasite, he found in cases he had examined medico-legally that the anchylostoma was often present without there being any anxmia. In two of, the cases recorded by Mr. Gratiaen there was a history of malarial fever, and, considering the food of the estate cooly, there wonld be no difficulty in tracing the cause. In this anæmia, the liver and spleen were often diseased, and this diseased state tended to keep up the anæmia. There was no reason why the round worm should lo absolved from all blame for causing the anæmia by absorhing all the, nutritious material from the food. whereas the anchylostoma was said to suck up the blood. -Dr. Loos said, that he had seen some of the cases of anæmia which were under treatment in the Kandy Hospital, and had also seen the ova and parasites passed by the patients. Thie disease called. "panduwa" by the nativts-a form of progressive pernicious anæmia-might be regarded as a mystery. It wa's a disease not amenable to treatment ; and iron, bark, and other tonics had been given without much cffect. In 18:0, the Straits Government wished for some information regarding beri-beri from the Government of Ceylon, and on that occasion he (Dr. Loos) wrote a letter to the Principal Civil Medical Officer, in which he suggested that panduwa and beri-beri might in some way be connected. . The latter disease was not now known in Ceylon; lut was it possible that the same causes which produced the paduwa, operating in an intenser degree, might have caused beri-beri in times when the climate was more malarious and sanitary defects more common? Ordinary forms of anæmia arose from hemorrhage, chronic discharges, and other well-known causes; but the anæmia now referred to was a special disease, the cause of which had not been ascertained. - Dr. Rockwoon said that he could corroborate the olservations of the previous speaker that certain cases of anrmia were not amenable to treatment, especially cases of pernicions anæmia. (Dr. Loos here said that he referred in his remarks to cases of progressive pernicious anæmia of the country.) Dr. Rockwood, continning, said that in his experience the cases of anæmia that resisted ordinary treatment were not those resulting from mal-nutrition or malaria,
but where the anæmic state was associated with a fair condition of body and considerable development of fat, IIis colleague, Dr. Macdonald, who had worked with such enthusiasm in bringing the subject of anchylostomiasis to the notice of the profession in Ceylon, and who was now aisent in Europe, often drew his attention to the association of anemia with a certain amount of obesity, and he would look upon this feature as a means of differentiating ordinary anemia and chlorosis from anæmia due to anchylostoma. Through the courtesy of Dr. Macdonald he hat the opportunity of witnessing post-mortem examinations in cases of anemia associated with anchylostoma, and he was particularly struck with the amount of fat deposited in the skin, abdominal wall, and omentum, in cases where quantities of the worm and ova had been passed under the influeuce of thymol. It was easy to understand how a process of abstraction of blood, a fluid rich in oxygen, by the anchylostoma, would lead to the conversion of albuminoid tissue into fat. Ile had also noticed a greater liability to retinal hemorrhage in cases of anchylostomiasis than in simple anremia.The Charruan said that he considered Mr. Gratiaen deserving of a special vote of thanks for having evoked so interesting a discussion. Ite had himself no personal observations of the disease to contribute to those which had just fallen from the various. speakers who took part in the discussion, but would merely mention with reference to a remark made by Dr. Attygalle that the anæmia of the miners of St. Gothard Tunnel was beliered to be due to other causes than anchylostoma, that his recollection of the discussion on the subject when it was first brought to the notice of the International Medical Congress in 1881 by Dr. Lang, of Geneva, was that all the speakers were agreed that it was undoubtedly due to this canse and this alone: At the same time he was much struck with the fact that in not one of the three cases so elaborately reported by Mr. Gratiaen were any of those symptoms noticed which characterised the anæmia of the St. Gothard miners, namely-digestive troubles, abdominal pains, diarrhea, and intestinal hromorrhage. It would appear from the remarks made by some of the speakers, as well as from Mr. Gratiaen's report, that there were no diagnostic or characteristic symptoms by Which the pernicions ancmia due to anchylostoma could be distinguished from similar anrmia due to other causes or other entozoa.

## NOTTINGHAM MEDICO-CHIRURGICAL SOCIETY. Friday, May 18tf, 1888.

## W. H. Ransom, M.D., F.R.S., President, in the Chair.

Electrolysis in the Treatment of Uterine Disease-Dr. Elder read a paper on this sulbject. Mention was made of the points of difference betreen the method of Apostoli and that of other workers in the same direction, and the mode of application in the different varieties of myomata was described. Several "cases illustrating the beneficial effects of electrolysis were, given, and reference made in general terms to the results obtained in over forty cases. Dr. Elder believed that in suitable cases this remedy was far in advance of any other purely medical remedy, and in the vast majority of cases would do away with the necessity for hysterectomy or removal of the uterine appendages.

Abdominal Abscess following Enteric Fever.-Dr. Michie read notes of a case of abdominal abscess following enteric fever treated by abdominal section and drainage. The patient complained of pain aud tenderness a little to the left and below the umbilicus during the fourth week of enteric fever. Towards the end of the seventh week there oppeared a hard and tender lump in the same situation; the patient had shiverings and night sweats. At the end of the tenth week Dr. Michie saw the case in consultation with Dr. Brown Sim. At that time the swelling was abont twice the size of a cocoa-nut, hard, slightly tender, morable; tbere was no discoloration of the skin. No fluctuation conld he made out; there was nothing unusual in the pelvis, temperature $100^{\circ} \mathrm{F}$., pulse slightly accelerated. The diagnosis was, "Abdominal abscess having its origin in a suppurating gland of the mesentery." On February Ist abdominal section was performed, the abscess opened and washed out with plain warm water, and a large rubber drainage tube inserted. The patient was dismissed on the twenty-first day after operation, all discharge having ceased and the wound healed. Dr. Michie attributed the speedy progress of the case to (1) the equable intra-abdominal pressure, (2) the large-sized drainage tube, (3) the absence of any washing or syringing out of the cavity after the first time. Ife deprecated this practice in the treatment of abscesses or wounds generally.

## REVIEWS AND NOTICES.

 F.L.S., etc. Edinburgh : William Blackwood and Son. Seventh Fdition. 1887.
The new edition of this manual is considerably enlarged, and, in many respects, an improvement apon the previous editions. But it is not easy to decide for what class of students the book is intended : certainly not for beginners, as the deseription of "types"
is not sufficiently detailed; not for adraneed students, as the is not sufficiently detailed; not for advaneed students, as the
treatment of the subject is not nearly full enough, nor is ade treatment of the subject, is not nearly full enough, nor is adequate ather points. Probably, therefore, it is intended for more
othe and ase, and in this respect it will prove of some ralue, provided that a thorough knowledge of a few animals has been previously acquired.

At the end of each group of animals a fairly extensive bibliograply is given; but this loses much of its value from being arranged neither chronologically nor alphabetically, and there is no reference in the text to this bibliography. Moreover, in some casea the references are wrong (a matter which it is rather diffeult to aroid), or the same work is quoted twice-for example, see page 317, where Nos. 19 and 28 areidentical. In many points the book is not up to date; for instanee, no mention is made of Balfour's and Sedgwick's
work on Peripatus, nor to Tejdorsky's work on Oligochata; and works on Peripatus, nor to tejaorskys looking through the bibliography.
A good deal of exception might le taken to the classification, Which is rather antique; for instanee. cide" in the sub-kingdom todes are grouped toging it seems to us that the three groups. Hirudinea, Ollgcchæta, and Polychæta, are not, by a long way, of equal value.
Turning now to the descriptirc part, we notice that the author negleets to point out that the "ectosarc" and "endosarc" of Amasba are continually interchangea ble, but leads one to imagine
that they are permanently separate, and proceeds to state that the "ectosarc is the layer of which the pseudopodia are mainly composed;" while, in the figures, the latter are evidently and correctly represented by endosare surrounded by a thin layer of ectosarc. The fignre of Parmacecium (p. 97) is not a very accurate representation of the animal.
The statement (p. 99) that the contractile vacuoles "are now usually regarded as corresponding with the water-vessels of rarious of the higher animals (such as Rotifers)," scarcely puts the matter in its true light; of course, the word analogous should hare
fonnd a plaee in th In the deseription of the Acinetce, no mention is made of the fact that a mouth, such as is found in the Ciliata, is here absent: nor is the interesting fact pointed out that the embryos pass through a ciliated stage during development.
On page 124 , we read that the eavity of Colenterate auimals "represents the body eavity of higher animals;" it represents
more, as it includes, in reality, both " body covity" (colom) and more, , is it includes, The characteristic eilioted pits of Nemertines are not even mentioned. From his manner of speaking of the earthworms, a reader might imagine that the only ones existing are similar to anmoricus. ior the anthor writes, "the terrestial bricidx), totalir disregarding the nodilus, etc. We should like to others, such as his anthority for regardinc tle so-called "capsulogenous glands" as the organs which secrete the cocoon.
In dealing with the Crustacea, he writes ( 1,320 ) : "The number of pairs of articulated limbs is generally tive to seven." Surely some slip of the pen must have occurred here. So, again, on page 35s, the Schizopods are said to differ frem Decapods in harint a " larger number of thoracic limbs. whereased for progression. means that a larger numberium of Mollusea (p. 4 46 ), he says that " is not normally filled mith blood:" as a matter of fact the presence of blood in this carity is extremely rare, if, indeed, it crer senee
occurs: since recent researches tend to prove that the vascular system is eompletely separated from the pericardium.
In his deseription of Amphio.zus, we are astonished to read that "the water" (having entercd st the mouth) "passes throngh the slits in the branchial ssc , and thus gains the abdominal the ovary and Fallopi the oyary into the inguinal canal removed by operation.
cavity (!), from which it escapes by means of.........the abdominal pore." The carity here referred to has nothing whatever to do with the abdominal cavity, but is a secondarily formed chamber, and is of the same nature as the branchial chamber of a lobster. The statement in regard to the "pair of rudimentary eyes" is also incorrect.
Many other similar errors mar the book. Some of the figures, howerer, are very good, especially those referring to fossil forms and to mammalian dentition. But, to a student of zoology, the book will be found to be of little value.

## NOTES ON BOOKS.

Notes on the Origin of the Belief in the Bis-Cobra. By J. Accacio da Gama, Knight Commander of the Order of Jesus Christ, etc.; Chief Surgeon to the Bombay Eye and Ear Infirmary. -The natives of certain parts of India believe that there exists a reptile (generally considered to he a lizard) whose bite is twice as poisonous as that of the cobra-di-capello. The general opinion among Europeans and educated natives is that this creature is as mythical and non-existent as the amphishena of the Rev. Cotton Mather. Dr. da Gama, however, seeks in a paper, read hefore the Natiral History Society of Bombay, to show that the bis-cobra was a real animal, and that the name was originally applied, not to' a renomous 'reptile, but to the comparatively harmless mangoose; while its supposed poisonous qualities are rather a survival of sixteenth century beliefs than any invention of the native mind or echo of the qualities possessed by any living creature. Dr. da. Gama proves from the work of Dr. Garcia de Orta, published at Goa in 1563, that an animal called "bicho" was believed by the naturalists of the sixteenth century to have the power of killing the cobra snake in single combat, having first anointed itself with its own spittle after chewing the root of the cohra tree. Engelbert Kaempfer, who visited India about 1690, describes the cobra-tree, but says the Portuguese name for it was "mungo;" he also, in the same connection, speaks of the mangoose. Other authors inform us that the mangoose was a serpent-killer; so that our author believes there is no difficulty in identifying this little creature with the bicho-de-cobra of Garcia de Orta, of whose name he considers biscobra as merely a native contraction. He helieves that the stories 'told by the early Portuguese' naturalists of the poisonous breath and bite of the bicho-de-cobra, are sufficient to account for the present belief in the deadliness of the poison infused by the teeth of the bis-cobra; for that when the Portuguese adopted the native name " mangús," theyleft a belief in the native mind that the bis'cobra, an animal which the natives had never identified, and whose identity was quickly forgotten by the Portuguese, possesses poilsonous properties of extraordinary virulence-a tradition handed down through two centuries, and still accepted and imparted. We think that Dr. da Gama has completely made out his case, and that the mangoose is the original of the his-cohra. But we suggest that the legends of the superior power of the bis-cobra poison compared with that of the cobra-di-capello are certainly partly to be explained by popular etymology, which is the father of so many myths. Just as (according to Max Miller) the title of the constellation the Great Bear arose from the mistake of people who, haring forgotten the first meaning of riksha, its original Sanscrit title (namely, "bright," that is, the bright ones-the stars), and knowing that riksha meant a bear, gave the title of the "bear" to the constellation, for all time and for nearly all nations; so we believe that the prefix "bis," having lost its old Portuguese form of " biah," and meaning of "beast," instead of heing accepted as an unmeaning prefix, was supposed by the Indo-Portuguese to be one with the Latin "bis," and thus the bis-cobra would easily be transIaterl into an animal having double the properties of the cobra-dicapello.

Tue 3letropolitan Hospital Sunday Fund on Wednesday last had reached a total of nearly $£ 35,000$.
Professor Mathilde Weber, in a third edition of her work on The Ethical and Sanitary Need of Female Practitioners for the Diseases of Women, mentions that since the second edition appeared the German "Frauenverein" has received from a friend of the cause 80,000 marks for the advancement of female study, and that a still larger sum has been left by another friend'for the puppose of founding a gymnastic institute for teaching women.

## REPORTS AND ANALYSES

 DESCRIPTIONS OF ${ }^{\text {NEW }}$ II INVENTIONS,in medicine, surgery, dietetice, and the ALLIED SCIENCES.

CARBON CONES AND CASES (PATENTED).
A novel and 'ingenious idea is skilfully embodied in these cones. The use of vapours for disinfection, deodorisation, or therapeusis has always presented some practical difficulties, and these difficulties have come in to reinforve certain theoretical objections which may be urged against methods of volatilisation hitherto employed. These cones appear to us, after careful trial, entirely to do away with the practical difficulties, and to obviate some, if not all, of the theoretical objections.
The general construction of the cones can be understood from the drawings, which are of about the same dimensions as the smaller sizes made. In Fig.'1 part of the outer casing has been

broken away to show the small glass flask in which the substance to be volatilised is placed; the flask is stoppered with a substance which melts at a low temperature; the cone proper is made of very pure carbon mixed with an oxidising substance, and is carefully constructed, so that its walls are of uniform thickness at all points; the hase of the cone is fixed to a dise of incombustible material, resembling asbestos in appearance. The cone 18 used hy lighting the top, and the carbonised casing then smoulders. Fig. 2 shows the appearance when the cone is well alight, and when the vapour is, on the average, first beginning to be emitted: The casing burns slowly and steadily, and the flask is heated from above downwards. The liquid, so soon as the heat reaches its surface, is vaporised, and rises through the narrow neck of the flask, where the temperature is still higher, and is propelled into the air with great velocity, and at a high tension. The inventors contend that as there is no tension on the mouth of the flask there can be no destruction of the active principles, that whatever is capable of being vaporised must at the given temperature escape, and that as only layer by layer of the contained substance becomes heated to the necessary vapour point, the contents of the flask never boil. It has heen found possible by varying the proportion of the ingredients of the carbon shell to adjust the temperature attained to the requirements of each substance; by this means temperatures ranging up to as high as $1000^{\circ} \mathrm{F}$. (537.7 ${ }^{\circ} \mathrm{C}$.) have been reached.

It is thus easy to underatand that a large number of rapours and gases can be obtained; oxygen, chlorine, iodine, bromine, sulphurous acid, nitrous oxide, carbolic acid, terebene, creasote; camphor, the two chlorides of mercury, and anmonic chloride are among those mentioned by the inventors; but it is a little surprising to find that eucalyptus and pine oil, and even the most delicate prorfumes, such as stephanotis, white rose, and violet can be diffused through a room. . The construction of the cones is so excellent that in the case of these perfumes the products of the
of dispensing bottles. Nothing is sacred to the inventor, and the principle of the screw-stopper is applied by Méssrs. Kilner to medicine bottles. It is manitest, that, in using bottles fitted with serew-stoppers, time would be saved in dispensing, the necessity of soarching for a suitable cork being done away with. Obviously also, in opening the bottle, no cork could be broken off, and the same screw-stopper could be used for an indethite period.

Messrs. Kilner at present are only prepared to supply six-ounce and eight-onnce bottles with this adaptation. The prices are reasonable, and the bottles can be obtained from the makers, washed, and with stoppers fitted, so as to bo ready for immediate use for dispensing purposes.

## PREPARATIONSIOF CASCARA SAGILDDA.

THE employment of the bark of rbamnus purshianus (cascara sagrada) continues to increase, and manufacturers take advantage of this fact by bringing their special preparations under the notice of medical practitioners. We have reently had submitted to us no less than four such preparations. The drug itself has a disagreeably bitter taste, and this taste is rery marked in the liquid extract, the only official liquid preparation. llakers, therefore, endeavour to produce such compoands that the bitter taste is concealed while the aperient properties ramain unimpaired.
Under the name of "Extractum Caseare Sagradx Liquidum, Mr. H. Cracknell', of Craven Road, Westhourne Terrace, bas brought out a preparation which is not at all mpalatable, and which will form a clear mixture with either water or spirit.
Dessrs. Evans, Sons and Co., of Hanover Street, Liverpool, prepare a "Liquor Caseare Sagrado Dulcis," half the strength of the Pharmacopceial liquid extract. 'In this the nauseous bitter taste is almost entirely, concealed. Mr. T. O. Sandell, of Baron s Court "oad, wrast Kensington, to a find of chocolate cream containing as a chief ingredient cascara sagrada. They are quite pleasaut to the taste,
Lastly, Mr. Tompsett, of Anerley, S.E., has produced some really elegant "Cascarine Pastels." These arc, a kind of jujube, are rery palatable, and one or two may be taken for a dose.
We have found that all the above preparations appear, to possess the full lexative properties of the bark of rhamnus purshianus, - I8 U IT PAD FOR FRACTURED CLIVICLE.

Nor findin's the methods usually employed for maintaining the sternal end of claricle in situ after dislocation or fracture satisfactory; I hare invented an, appliance (bere figured) which I be-
 lieve fultils all the necessary requirements.
it consists of an irreguJarly shaped crescentic pad, concave on its, under surface, and grooved so as to lie easily on the elavicle. A strap is attached to looth ends of the pad, one of wbich passes over the shoulder of the injured side, to be attached to the other, which is brought out under the opposite axilla. A third strap $l^{\text {nasses }}$ down from the conrex border to be buckled to a belt at the waist. This splint has the following advantages:

1. Facility of application.
․ It maintains fractures and'dislocations in perfect apposítion, without undue pressure.
-. Comfort isensured, and unsightliness aroided, the patient being able to be dressed and about, as it takes up but very little room. I have only to add that I acm indebted to Messrs. Aruold, of West Smithfield, for the excellent carrying out of my ideas.
Flerns, Co. Wexford.

## BRITISH MEDICAL ASSOCIATION. SUBSCRIPTIONS FOR 1888.

Sobscriftions to the Association for 1888 became due on January Ist. Members of Branches are requested to pay the same to their respective Secretaries. Members of the Association not belonging to Brauches are requested to forward their remittances to the General Secretary, 429, Strand, London. Postoffice orders sbould be made payable at the West Central District Office, High Holborn.

## The (Britísl) Aftedical Journad.

## SATURDAY, JUNE 30тн, 1888.

## THE HOSPITAL QUESTION.

Thovor the question of the finance and organsation of our hospitals is always before us, and is constantly receiving the attention of authorities both lay and medical, it is brought into greater prominence at the present season of the year by the return of Hospital Sunday. Mr. C. S. Loch's letter in the Times of last Monday will opportumely assist this most desirable tendency. We need hardly tell our readers that Mr. Loch's letter is worthy of their perusal and of their careful consideration. Its main conclusion, that "an investigation of the whole subject by a Royal Commission is absolutely necessary," is one which we have more than once tried to enforce ; and we have no doubt that some such step would long since have been taken, had the political importance of the subject borne a greater proportion to its social urgency. For, indeed, Mr. Loch's letter shows in the plainest way that the question is not only an urgent one, but is becoming year by year more urgent. There are, as we have said; two main branches of the hospital questionfinance and organisation. The finances are growing every year more deficient, as the pressure on the beds and out-patient departments grows heavier ; and, as to the Hospital Sunday Fund, Mr. Loch shows that, at its present rate of growth, it would take fourteen years to reach the sum of $£ 65,000$, which is at least $£ 25,000$ below the amount of the existing annual deficit-a deficit which must, of course, increase year by year as old claims are left unsatisfied and new ones continue to grow. Even at present the state of things is bad enough, when we are told that the deficiencies of "the hospitals" (we presume those recognised by the Sunday Fund) amounted last year to 5100,000 , and 2,000 beds were unoccupied for want of means. These facts, which we believe to be uncontested and incontestible, prove plainly enough that, if the present hospitals are to go on, either their income must be increased or their expenditure diminished. There seems little chance of the former alternative, unless some public action is taken which will compel definite steps on the part either of the Government or of the moneyed classes. As to diminishing expenditure, there is only one way of doing this-namely, by lessening the number of patients. This number is put hy Mr. Looh at a million, and, though such estimates are not perfectly trustrorthy, we believe that there is a general assent to the accuracy of some such enormous total.

The magnitude of hospital-population is thus graphically
represented hy Mr. Loch:-"The twelve general hospitals deal with patients who, if they were cettled as a colony on the north of the river, would occupy all St. Pancras, all Islington, and all Hampstead. If we add the patients at the special hospitals, such districts as St. Marylebone, Hackney, St. Giles, Strand, and the Poor-Law. Union of Westminster would have to be annexed. Thus there would be a colony of patients settled in a fan-like district, through which might be drawn a vertical line from Highgate to the river at Charing Cross, and a transverse line from Finchley on the west to Hackney Marsh and the River Lea on the east. These facts are sufficiently alarming, especially when they are boldly made the ground for appeals which are coupled with no policy of retrenchment nor with any scheme of reorganisation or reform."

Now no humane person would grudge even this enormous distribution of charity if it were necessary and if it did no harm, though even then the inequality of the supply of hospitals to different parts of London is an anomaly urgently demanding reform. But another and a most potent reason for inquiry and reformation is the "deadening of provident hahits in the neighhourhoods" where "this congestion. of medical relief" exists. No higher authority than Mr. Loch could be quoted on this subject, and it is thus that ho speaks :-
"In Marylebone there is a provident dispensary on the northern verge of the district, away from the hospitals. It has about 3,200 patients, while those in receipt of free medica! relief may he estimated at nearly 80,000 , including more than 7,700 dealt with by the poor-law. In Lewisham, with half the population of Marylebone, there are three provident dispensaries whose patients number probably about as many as those of the provident dispensary in Marylebone, while the free patients are nearly six times as few. How much more easy should it be to avoid pauperism by medical relief in Lewisham than in Marylebone? Making every allowance for patients drawn from other parts of London, it is hard to helieve tlat there is so much more need for medical relief in the one place than in the other. If this comparison be taken as evidence, some more satisfactory adjustment of medical relief according to geographical conditions is required."

Again, the recent institution of poor-law infirmaries, rivalling "in the completeness of their organisation even very efficient hospitals," is another modification of our hospital system, which, as Mr. Loch does not fail to point out, calls loudly for a full inquiry into the organisation of that system.

When our present hospitals were founded they were intended for the whole town. The Middlesex and London Hospitals still retain in their pleasure-grounds a pleasant and useful memorial of the time when they were at the very outskirts of London. St. George's, not much more than 100 years ago, was more in the country than the city. There are now miles on miles of houses with no hospital within a reasonable distance, and where accidents and urgent cases can only be attended to by a rather illegal, though perhaps necessary, misapplication of the resources (imperfect for such a purpose) of the poor-law infirmaries.

All these and many more features of our present hospital system demand public investigation; not the least one feature,
into the hospital is given to the Board of Trade, and the circumstances under which the scorbutic symptoms were developed aro made the subject of official inquiry. As medical referce to the Board of Trade, the late Mr. Leach rendered service which was directly influential in improving the diet and general care of seamen.

Amongst the most effective measures taken by Dr. Barnes
to turn the light of public observation upon the prevalence of scurvy, was the appeal to the Coroner's Court. When a death from scurvy occurred in the hospital, it was made the subject of an inquest. The captain and officers of the ship from which the case came, were called upon to give evidence. Two pertinent questions were asked: "Did scurvy occur in the cabin ?" "No." "It whs only known in the forecastle?" "Yes." The conclusion was irresistible, that if preventable in the cabin it was preventable in the forecastle, and the responsibility for the occurrence of the disease fell upon the captain and the owners. It was simply a question of supplying the crew with proper food.

Another very useful impetus to official inspection and enforcement of preventive measures was the Report on Scurry by Dr. Barnes, made to the Privy Council in 1863 at the request of Mr. - now Sir-John Simon.

The severe suffering of the crews of the Alert and Discorery during the Arctic expedition in 187.5 was the occasion of the appointment of a Committee consisting of Admiral Sir James Hope, Admiral Sir R. Collinson, Vice-Admiral Inglefield, Dr. Donnet, and Dr. Thomas R. Fraser. This Committee sat in January and February, 1877. The inquiry carried out was minute and thorough. The witnesses included many seament who had had experience of Arctic voyages, as well as physicians qualified to throw light upon the subject. Amongst these were Mr. Busk, Dr. Pary, Dr. Buzzard, Dr. Dickson. Dr. Barnes, Mr. Leach, and Sir Alexander Armstrong. The report of this Committee, embodying the eridence, gives probably the most complete account of the history, causes of, and means of preventing scurvy to be found. With this report before the nautical, military, and medical world, the occasion for instituting such another inquiry ought never to arise.

The prevention of scurvy is emphatically an object that demands incessant vigilance. Scurvy need not occur-it ought not to occur ; and the most searching inquiry must be made into all the circumstances under which it may occur.

Scurry may be taken as a test or index not alone of the dietary of ships, but also in some measure of their general hygienic and disciplinary condition. Where scury occurs the presumption is strong that general negligence provails. Llord's and the marine insurance offices night exereise valuable practical influence by steady observation directed to this subject. It is worthy of consideration whether, scurvy heing shown to have prevailed on board a slip which has been inst, the insurance shonld not thereby be invalidated. If half an ordinary ship's crew is partially disabled by scurvy, it is certain that in rough weather the ship is in danger. No rule obtains more favour amongst owners and captains than that of " not carrying more cats than can catch mice." It follows that not a hand can bo spared.

It is impossible to exaggerate the importance to the nation, in its mercantile and imperial interests, of guarding the health

British ships. Early notice of every case of scurvy admitted
of our sommen．It is not one of the least clams of the Sea－ men＇s Hospital to the gratitude and support of the country that it has done and is doing so much to throw the light of sciontific observation upon the hygiene of the sea．T．This point was eloquently enforced by Lord Charles Beresford when pre－ siding over tho last annual meeting of the governors and friends of the hospital．
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SCIENTIFIO CLINICAL DESCRIPTIONS． In all scientific work aceurate observations and descriptions are necessary before proceeding to，make，inferences，and clinical study is no exception to this rule．Many contributions to the literature of medicine are less valuable than they，should be， and less potent in adwancing scientific medicine，＇because terms which do not indicate facts observed are used as esson－ tial parts of the descriptions given．Descriptions of various conditions seen in practice may be founded on a large expe－ rience，they may be accurate as to facts，and accompanied by able gencralisations and expressions of personal opinion，but they partially miss their purpose if they？do not at all points indicate to the reader points obscrvable by him when he meets with similar conditions．These remarks on current literature apply rather to clinical medicine than to descriptions in pathology，and herein we see the reason why pathology is a more definite science than chnical mediciue．${ }^{\circ}$ It is a matter， of great importance in recording clinical facts，for the pur－ poses of summary and comparison，that such terms only be used as are understood to indicate the facts observed．I：There are two rery distinct kinds of terms commonly employed in giving clinical descriptions which may be conveniently，classed as＂abstract or general terns，＂and＂physical．sigus．＂ Among the former class we may instance，the terms，healthi－ ness，fatiguc，sleep，spontaneous movements，consciousness， depths of coma，etc．，convenient terms，hut．such as do not indicate actual physical sigus．When put before ；the student such terms do not lead him to look for physical signs，but rather to try and observe a general condition，without taking the tronble to describe the actual facts as he sees them．it is common for a clinical clerk to write in his case－book that the pationt was comatose or delirious，thereby expressing his omn general opimion，instead of describing the detailed physical signs that might be observed；he might better describe the dorsal decubitus，the absence of movement，to light for sound，the abscnce of movenent in：the limbs，etc．， the relative movements of the thorax and epigastrinin，at the same time noting whether the eyelids and mouth were closed $O^{\circ}$ open，and describing the kind of sounds made by the pationt，if any，and whether he detected any twitchings of the fingers．Of course such descriptions of physical signs in－ volve much labour，but such analytical work alone＇gives ac－ curacy，and supplies the only true basis for correct，thinking． We think that both for the advance of medical ！science；and sound clinical teaching，it would be well if chicians，would spend more labour in defining general＇conditions infterms of physical signs．Have we good descriptions of the pliysical facts which indicate intelligence，fatigue，nervousness，otc．？

When a general condition has been thus defined，and its physical signs are well known，it is，of course，convenient to name that condition by a general term ；then such term is an
abbreviation correctly omployed，for the sake of brevity，in place of a collection of observable signs，and for such purpose only：
 －hese remarks apply to all，climeal descriptions，but par－ ticularly to the department of ueurology，where advance has been rapid，and where the use of many hypotheses is neces－ sary．Students axe taught that an epileptic attack may he followed．by＂depths of coma．＂What is much wanted is a body of recognised and well－defined plyysical signs indicating that state．We submit that all these terms imply im－ mensely complex conditions，while such terms as＂purposive＂ or＂roluntary＂also imply an hypothesis，and so the descrip－ tion of the clinical state becomes most complex，and we drift away from all physical，signs observable in the patient．Ac－ curaoy and the means of comparing facts can only be obtained by analysis of general observations into the physical facts observed，mpon which generalisations may be fonnded．In teaching those untrained in clinical work and correct thinking， descriptions given in general terms seem likely to arrest rather than stimulate further thinking and observing；such know－ ledge is wordy．Movements are said sometimes to be pur－ posive，voluntary，zutomatic，spontanequs；but authors using such terms do not usually tell us how we may kuow by what we see if a certain movement is voluntary or not．

At the recent Junior Nedical Eramination held by the Punjab University，－Mfiss Amelia Connor，of the Lahore Bedical College， was the only candidate，who stood in the first divisions． c ，if orls

The next méeting of the Royal Commission on University Edu－ cation in London will be held this day（Saturday），when evidence will be given by Sir，Andrew Clark，President，and JSir Menry Pitman，Registrar，of the Royal College of Physicians；and by Mr． Savory，President，and Mr．Thomas Bryant，Vice－President，of the Royal College of Surgeons． $\qquad$ ，？？Al rme it or at rerol
As the 8 th clause of the Local Government BiH transfers to the Lócal Government Board，among other powers now exercised by the Home Secretary，those relating to the Brrial Acts，it is，its ＇is stated，＇the intention of Mr．Quborne Morgan；before，tlie clause is passed，to call attention to the effect of this and other proposals in the Bill upon Burial Law Administration．

## THE SOCIETY OF APOTHECARIES＂AND ALLEGED ILLEGAL PRACTICE．

In reference to a report forwarded＇to us of an inquest held at Moor Street，Birmingham，on June 20 th ，on a child named Mar－ garet Hart，which is published at page 1414，we understand that the Society of Apothecaries have，required the person who，it was stated in evidence，had attended the child，to answer the statements made as to his practising as a metical man，and unless they can be proved to be incorrect，will at once insti－ tute proceedings against him． （i：of abrst mas sisility is
THE LATE GERMAN，EMPEROR：olgn s We are informed that the German physicians and suurgeons who ．were in attendance on the late Emperor Frederick have drarn up a memorandum dealing with the whole subject of：his ilkness． the measures which were at various times proposed，and the treatment which was actually adopted．The necessary permis－ sion for the publication of this important document has just been obtained，and it will probably see the light in a few days．＂We cannot help thinking that it was a mistake on the part of the German Court to forbid the publication of the report of the post－
the country look after their well-being in the homes to which they are sent. No mishaps appear to hare occurred from, infections diseases or other canse. We have nothing lut praise for such work, and wish it all success. Money this spent produces much good and more lasting results than day trips to the country, good as they may be when no better can be had.

EXHIBITION OF LIFE-SAVING FIRE APPARATUS.
The strong public feeling aroused by the recent calamitous fire in Edgware Noad as to the urgent necessity of all houses, especially large business premises where the higher rooms are occupied as sleeping apartments, being provided with ample and suitable appliances for securing the speedy escape of the inmates in case of fire, has led Dr. George Danford Thomas, coroner for Middlesex, to arrange for a display of life-saring apparatus and the rarious methods of preventing and extinguishing fires. This exhibition will be held at the Portman Kooms; Baker Street, W., at the end of July neat, where the public will hare an opportunity of being instructed in the use of fire-escape appliances and of testing their ralue.

A NEW ALKALOID IN TEA.
At the meeting of the Berlin Physiological Society on. Iune 8th, Professor Kossel reported on a new base, discorered by lim, in extract of tea. Caffein is the only definite chemical base hitherto isolated from tea, and to it are ascribed many of the effects of tea. Professor Kossel has found another base in rery small quantity, having the composition $\mathrm{C}_{7} \mathrm{H}_{8} \mathrm{~N}_{4} \mathrm{O}_{2}$, upon which he has bestorred the name "theophyllin." It is isomeric with the base obtained from cacao (theobromin), and with paraxanthin obtained from urine by Salomon, but differs from these substances by its reactions. The introduction of a methyl group into theophyllin conrerted it into caffein, and as the latter is proved by E. Fischer to be a trimethylxanthin, the former is evidently a dimethylxanthin. Inrestigations into its physiological effects will be made

## MICROKINESIS.

A paper by Dr. Francis Tarner, on muscular movements in man and their erolution in the infant, was read at the meeting of the Royal Society on June 12th. In the nerrborn infant constant morement may be observed in all parts during the waking state; these spontaneous morements, to which Dr. Warner proposes to apply the term "microkinesis," cannot be stopped by external stimuli. This condition becomes gradually modified during the growth and development of the child, and the morements are gradually more and more controlled by external stimuli, while the phenomena termed memory and imitation are evolved. The paper also contained a study of the modes of action of nerrecentres in adult age, and it was suggested that when a co-ordinated morement follored a slight stimulus, temporary unions are produced among the centres, and that the brain-action corresponding to thought is the formation of functional union among cells the ontcome of such functional unions is seen in the movements which express the thought. Dr. Warner described a number of special postures and movements associated with certain states of the brain, and in fact affording physical signs by which those states might be recognised.

ALLEGED VIOLENCE IN A LUNATIC ASYLUM. An inquest on a male patient dying in the asylum has resulted in the rerdict: "That the deceased died from the effects of exhaustion following melancholia and inflammation of the lungs, accelerated by a severe fracture of the jaw and bruises to the shoulder caused by violence." The jury were of opinion that the said injuries occurred after the deceased was delivered into the charge of the asylum authorities, and they further added that they were of opinion that there was no evidence forthcoming to show how the injuries were
caused, which they considered most unsatisfactory. It is highly desirable that so serious a charge may not rest here, but that the Commissioners in Lunacy will cause a thorougl investigation to be made into the circumstances attending the death of this unfortunate man. In large asylums, in which attendants may assault patients without any blame attaching to the medical superintendent, it is most important that he should be assisted in tracing abuses, if they exist, to the guilty parties. Such assistance can be best rendered by an impartial investigation by the Lunacy Board. Unpleasant rumours have for long been abroad in regard to the condition of the institution in question, and it would be a satisfaction to have them dispersed by an extended inquiry, in which the public and the profession would feel confidence.

## A MEDICO-LEGAL CASE.

THE following case of suicide which recently occurred in Jamaica presents features of considerable interest and no little importance. A coloured man, after murdering his sweetheart, entered his house, and cut his throat with a razor. Some of the neighbours who had witnessed both deeds rushed into the house, but were unable"to find him. After a search, his dead body was found under the house, which was a small one, built on supports, raising it about two feet from the ground. After cutting his throat, the man must have walked or run to the back entrance, a distance of sixteen feet, and then have crept through a hole in the partition, and hare crawled on all fours to the spot where his body was found, exactly beneath the room where he cut his throat, and, therefore, a further distance of sixteen feet. The throat was cut from ear to ear by a clean sweep, both carotids and jugulars being severed, as well as the trachea and cesophagus, the wound reaching back to the anterior portions of the bodies of the cervical vertebre. A blood-stained razor, which was deeply notched, was found in the romm, and marks of blood were traced from the room to the back entrance by which the man must have gone out. Dr. Cargill, who examined the body soon after death, and to whom weare indebted for a report of the case, was asked by the coroner if it was possible for a man to have traversed the thirty-two feet-after inflicting such wounds on himself; to which le replied by declining to controvert, as a mere matter of medical opinion, facts that had been sworn to by reliable eye-witnesses. Remarkable instances of the retention of voluntary power after wounds of the carotid artery hare been occasionally recorded, but we know of no occasion on which the ressels ou both sides of the neck were divided, where 30 much power was retained by the subject of the injuries as in the present instance. The case should serve as a perpetual warning to medical men not to he too dogmatic as to what is, and what is not, possible even in the presence of the most rapidly fatal wound.

## THE MEDICAL OFFICERS OF HEALTH AT GLOUCESTER.

THE circumstances under which the Gloucestershire Combination of Sanitary Districts has been dissolved is further evidence of the uncertainty attaching to public health appointments. One of these districts-that of Dursley-desired to "handle its own money," and appears to have used as an argument for the attainment of that end the fact that Dr. Bond held the office of honorary gecretary to the Gloucester Dairy Association, which had grown out of the "model dairy" established three years ago by him, and which in its turn was one of the results of the "Mills Conferencc" held in Gloucester in 1884. The objects of this Association are to promote the interests of dairy-farming by showing how to produce good milk, butter, and cheese, and by giving assistance to those who wish to learn how to do so. Exception was in the first instance taken to Dr. Bond holding shares in this Association and in the Sanitary and Economic Association, Which
had as its object the promotion of house sanitation; but subsequently this was dropped, and the objection was limited to Dr. Bond's connection with these Associations "by name or work." Dr. Bond at once expressed to the Local Government Board his willingness to concede this point, if it could be shown that his position in relation to them was incompatible with his official duties, but not otherwise. No attempt, however, was made to ascertain this point, but Dursley was permitted to have its own way and withdraw from a combination which is thus dissolved. ' Dr. Bond not unnaturally claimed the protection of the Local Government Board, and asked for an inquiry into any case the Dursley authority could bring in support of their desire for separation, for he argued that they must have some better ground for their conduct than that which they had put forward. This request has, however, not been complied with, and Dr. Bond loses his office and a part of Gloucestershire his services. These occurrences will, we fear, do much harm in further shaking the confidence of the profession in the public health service. The public will be the sufferers if medical men of ability refuse to risk their careers by accepting public offices, but this must inevitably be the case if no reasonable prospect is offered of continued tenure of ofice. The readiness with which an authority can dispense with its oflicer by appointing him for a short term of years is direct encouragement to them to raisc some trivial objection to him at the end of this period, and the risk of loss of oflice must inevitably tend to indifferent service.

## PHYSICAL EDUCATION.

Physical education is now taking a place in public estimation and popular feeling that raises much hope for the wellbeing of the rising generation. It is' a great thing to find the question popular and to see a general desire for improvement; in this particular instance it seems almost as if the demand were in advance of the skill and intelligence of the majority of school teachers. The public demand for some physical training of children finds expression in the desire to provide manual and technical instruction, as well as in the support given to new gymnasia and swimming baths. Physical training is required for children of all ages and conditions of life. Athletics and gymnastic competitions are useful for older lads, but well-adapted exercises in schools, such as can be practised by large numbers in playgrounds and in schoolrooms, are necessary for the younger children; and our rapidly increasing town population makes the matter an urgent one. Most schools have a certain amount of military drill, and such is necessary for marshalling the children in their classes, but this is very different from exercises designed to aid growth and development. It is found in the army that gymnastic exercises to produce development are, needed before the military drill of the recruit can be satisfactorily undertaken. It may be that the habit of leaving drill in private schools to a drill-sergeant has helped to deter those persons of good education, who conld best conduct the work, from taking a due position in this important mode of training; in America and on the Continent plyssical exercises are conducted by medical men of good standing. Military drill in schools is comparatively worthless for aiding physical development; it is not so much iudividual museles that we want brought into action, as certain well-defined groups of muscles which act physiologically together. The physiologist, rather than the anatomist, should give counsel as to the methods of calisthenics best suited to stimulate muscle and nerve growth; and in the case of delicate children the general physician should also be called upon to advise; such training needs much care in many practical details. Great discretion is required in the teacher in adrancing from one set of exercises to another, and care must always be taken to see that the strain imposed on any part is never beyond that justified by conditions of present uutrition;
exlaustion should always be awoided, especially in young and delicate children. Physical training, like mental training, should he progressive and carefully adapted to the ends in riew.

## QUACK ADVERTISEMENTS.

A Society for the Suppression of Quackery has been in existence in 1rolland for several years. The chief objeet of this truly philanthropic association appears to he not so much the " stamping out" of unqualified practice, as the enlightenment of the public mind as to the real value of too many of the nostrums whieh are so widely advertised in the lay press as certain remedies for all the ills that flesh is heir to. The Society numbers more than a thousand members, of whom rather more than half are medical men or pharmaceutical chemists. The yearly subscription is only six franes-a sum hardly sufficient to furnish the sinews of war in a campaign which is, to a large extent, conducted in the lawcourts. We are not surprised, therefere, to learn that the Society is hampered in its good work by want of funds. Still the crusade has been fairly successful, and several "shams" (mostly, as we are sorry to observe, of English origin) have been triumphantly exposed. We fear that such a Society would not find much support in this "free and enlightened" country, where "caveat emptor" is still, in spite of much well-meant legislation, an accepted axiom of commercial morality. Moreover, our wonderful law of libel would paralyse any organised attempt to open the eyes of confiding purehasers to the humbug of which they are the victims. Even in IIolland it does not seem to be an easy matter to unmask imposture without coming within the elutches of the law. In a case in which the Society ultimately came of victorious, though at an almost ruinous cost, the judge delivered himself of the following remarkable pronouncement: "If faets whieh have been thorouglly proved are published, and if this be done solely with the view of warning the public, the expressions used must be carefully chosen, so that they may not be offensive to the quack in question, for he would have a right to damage for the injury done to his honour and reputation." This means, we presume, that you may eall the "quack's" wares worthless, but the vendor himself must be spoken of as a gentleman of the strictest integrity, who labours under an unfortunate delusiou as to the quality of his stock-iu-trade. After all, a large part of the blame for the harm wrought by lying advertisements must be laid to the newspapers which give them publicity. If the public requires to be educated as to the value of patent remedies, the press stauds just as much in need of instruction in the ethical aspects of advertieing.

## THE MEDICAL OFFICERSHIP OF HEALTH AT BRADFORD.

Members of the medical profession who may contemplate applying for the wacant health-officership at Bradford should learn earefully the circumstances under which the Town Council have lost the services of Dr. Ilime, for Bradford affords an excellent illustration of the insecurity attaching to an election of a medieal officer of health for a limited period. Dr. Jime was elected for five years, and naturally anticipated that at the conclusion of this period he would be reappointed; but he appears to have wounded the tender susceptibilities of a few members of his committee by the zealous performance of his duties, and these have so far influenced their colleagues that they have not hesitated to sacrifice the interests of the town as well as these of Dr. Hime to their own personal feelings. There are few officers who could bring such striking testimeny to the esteem in which they are held as Dr. Hime, for the Town Council received no fewer than five memorials representing the strongest possible desire that Dr. Hime should be continued in office. These memorials eame from all classes of the community-from ratepayers, from the working
men, the medical profession, the Trades Council, and the Women's Liberal Association, the first being so largely signed as to make it representative of the greater part of the rateable value of the borough. In riew of this very strong feeling it might have been anticipated that the Town Council, would have yielded ta the desire of the memorialists, but they have preferred to adopt the report of their committee, who conld find no better reason for the course they pursued than that they had not worked harmoniously with Dr. Ilime. It is deplorable to think of the position in which an able offieer is thus placed, who has abandoned practice and all other remunerative oecupation except that of a healthofficershin, and who is deprived of this at the caprice of a $f \in \mathbb{W}$ members of the committee. The result is discreditable to Lradford, and certainly should deter other medical men from trusting to so uncertain an appointment. The testimonial which the people of Bradford are about to present to Dr. Hime, and in which his friends will doubtless desire to share, is a proper protest. against the action of the Town Council.

## CANCER OF THE LARYNX.

At the meeting of the Société Française d'Otologie et de Laryngologie on April 26 th Dr. J. Charazae, of Toulouse, related a case of cancer of the larynx and made some remarks on the treatment of that disease. The patient, a healthy man, aged 60 , had for years been subject to frequent attacks of hoarseness, and he had besides been an immoderate smoker. He had never had syphilis, hut it may be worth mentioning that his wife had died some years before of cancer of the breast. For eighteen months before he eame under the notice of Dr. Chazarac he had suffered from persistent aphonia. On Octaber 1st, 1887, the epiglottis and the left side of the larynx showed the ordinary signs of ehronic laryngitis; on the right side there was a deep uleer with greyish base oceupying the centre of a swelling which involved the rentricular band and reduced the glottis to half its natural size. DrCharazac diagnosed the affection to be malignant, and proposed: laryngectomy, which was declined. On February 19th tracheotomy became necessary, and the disease has since made steady progress. The most troublesome symptom at the date of the report was the passage of food into the larynx; this was found to be due to the fact that the tumour, as it increased in size, pushed up the epiglottis so as to interfere with its action in swallowing. In discussing the treatment Dr. Charazac compared the results of simple tracheotomy with those of extirpation of the larynx for cancer Statistics showed that the former increased the average duration of life by six or eight months, while after laryngectomy twothirds of the patients died either from the immediate effects of the operation or from rapid recurrence of the disease. This discouraging result is, however, in Dr. Charazac's opinion, due rather to the want of a proper selection of eases than to any inherent fatality in the operation. He thinks that as a rule it should not be performed in patients orer 70, and he looks upon it as absolutely contra-indicated in all cases in which the glands are affected or the general health impaired. It should never be done unless the disease is strictly limited to the interior of the larynx, but in suitable cases early operation is imperative. If these rules are adhered to, Dr. Charazac believes that laryngectomy will prove much more successful in the future than it has been up to the present time.

THE ANATOMICAL SOCIETY OF GREAT BRITAIN. The Anatomical Society of Great Britain and Ireland brought its first session to a close with a most successful meeting at Cambridge on June 23 rd. There was a large gathering of members and visitors in the anatomical department to listen to a number of interesting and important papers. Cambridge was particularly well represented. Professor Macalister showed a number of speci-
mens which lie had obtained fron the dissecting-room, and mentioned incilentally a point of some importance, namely, that when the twelfth rib was long the plcura descended further than usual. The new Master of Downing, Dr. Alexander Hill, also drew attention to the subcallosal conrolution, a structure which has hardly had the attention which its interest deserves. Dr. Gaskell followed with an endearour to claim greater morphological importance for the neuroglia of the cord and brain, but, by far the most important part of his communication was an account of a canal which he has discovered behind the tuber cinereum, and which he belieres to correspond with the cephalic stomach of the crustaceans. However, Professor Howse did not allow these views to pass unchallenged. Amongst visitors from a distance who contributed to the success of the meeting were Dr. Johnson Symington and Dr. A. M. Patterson, the former with some instructive sections of the head and pelvis and the latter with a series of developmental specimens. Dr. Curnow showed a skull, which excited some discussion; and Mr. Treves described and explained an example of that rery rare condition, hernia into the foramen of Winslow. After the meeting, the President of the Society, Professor Humphry, entertained sisty members and risitors at dinner in the IFall of King's College. Speeches were made ly Sir George Paget, Professor Michael Foster, and other3, and the Secretary, Mr. Lockwood, in replying to the toast wishing prosperity to the Society (proposed 'by the' President) Twas ahle to say that the names of the leading teachers of the three kingdoms were upon its list of members.

## SCOTLAND. <br> EDINBURGH UNIVERSITY: FINAL EXAMINATION IN MEDICINE.

The final examination for graduation in medicine at Edinburgh University is in progress. The number of candidates is larger than in previous years. The new arrangement, whereby the clinical portion of the examination in medicine is compressed into a much shorter term, has been found to work admirably, both by examiners and by caudidates. The latter feel their labours materially lightened, while the prolonged state of anciety which the old arrangement necessitated has been considerably curtailed.

THE UNIVERSITIES (SCOTLAND) BILL.
Ir is matter for congratulation on all sides here that, at last, the Universities Bill has been read a third time in the House of Lords. The fresh nominations to the Commission have been eagerly scrutinised, and satisfaction is expressed over the selection of Sir Henry Roscoe and Lord Elgin. But the list is generally thought too long and the proportions of the Commission too cumbrous to admit of a really efficient executive.

## ECZEMA AND LEPROSY.

A remariable suit has just been raised in the Court of Session, and of considerable interest to the profession. Michael Christison Piggott, clerk, Glasgow, sues the Governors of Fettes' College, Edinburgh, for $£ 500$, as damages 'for unlawful dismissal and breach of contract. He states that in July, 1884, after examination, he was admitted a foundationer of the college, by which he was entitled to receive free board and education, valued at £130 a year, for six gears. In the spring of 1887 eczema, he says, lroke out in the college, and he was one of the last to be affected. His leg suppurated, and", about three weeks after thatl occurred he was ordered to leave. IIe maintains that defenders acted illegally and in violation of his 'rights as a foundationer, after his having been "admitted, examined and tested by them a to his physical health, and declared to be duly qualified. Defeaders say that one
of the questions asked the applicants hefore being admitted is" 1 s there any peculiarity of constitution which requires to be considered?" and that the pursuer falsely anstrered "No." There was nothing apparently the matter with pursuer when he was admitted, but that.shortly after admission they found he was suffering from leprosy, which was incurable. Inasmuch, however, as leprosy was not transmissible by mere personal contact, the medical officers did not consider it imperative to disclose to anyone the nature of the disease, as such a disclosure would have a disastrous effect on the boy's prospects. Active periods of the disease occurred more than once, but it was only in the spring of 1887, when a skin disease broke out in the college, that the medical officers considered it no longer safe to keep the boy, because it was within the range of possibility that he might communicate the leprosy through the medium of the other disease. They therefore informed the head master, and he told the boy to leare. The defenders maintain that under the rules of the college the head master has porver summarily to dismiss any boy, when, in his judgment, it is necessary to do so in the interests of the school.

## ST. ANDREW AMBULANCE ASSOCIATION.

The annual report of this Association, just issued, shows a record of excellent work. It states that in 1882, when the Association was formed, there was not a proper ambulance waggon in all Scotland, loss of life and unnecessary suffering being caused by the removal of serious cases in unsuitable vehicles. Now, in various parts of Scotland, properly equipped waggons are to be found. Since March Ist, 1887, new waggons hare been stationed at Falkirk, Johnstone, Motherwell, and Aberdeen, two aree heing built for Blantyre and Morsend, and wheeled litters hare been supplied to Harthill and Lesmahagow. During the past fifteen months 1,483 calls have been made on the waggons of the Association, and since the formation of the Association 4,049 patients , have been safely carried. Last year 6,655 pupils received instruction in first aid, an increase of 742 on the numbers of the previous report. The total number trained since 1882 now amounts to 19,969. The Association has had a stretcher constructed for use in fits; a cover strapped to the stretcher poles binds downthe patient's trunk, legs, and arms independently, and the stretcher is hinged, so that the patient may be brought up to the surface in a horizontal, vertical, or sitting position. A stretcher for police. use has also been designed and constructed, in which a canvas cover, secured all along one side and fastened on the other by three strong straps, forms, when in use, an elongatedrstraight waistcoat. The Association has now a total of nineteen centres, Dunfermline, Grangemouth, and Perth having been added in the past year, and detached classes have been held in 96 towns. Ambulance corps have been formed in many important manufacturing centres. The financial statement shows a satisfactory balance in hand.

THE SANITARY ASSOCIATION OF SCOTLAND.
The fourtcenth annual meeting of the Sanitary Association of Scotland has been fixed to be held in Glasgow on Wednesday and Thursday, July 4th and 5th. On Trednesday the proceedings will be opened by an address from Sir James King, Lord Provost of Glasgow, after which the Presilent's address will be delivered by Dr. John C. Mctail, medical officer of health, Kilmarnock. Dr. J. B. Russell, medical oflicer for Glasgow, will read a paper ou "The Sanitary Enfranchisement of the Rural Population of Scotland;" Dr. Eben. Duncan, Crosshill, on "The Dissemination of Infectious Particles by Air Currents;" and Dr. Maitland Moir will also give a paper. On the second day the proceelings will be opened by Ex-Eailie Crawford (Glasgow), and papers will be read by Mr. Thomas Walley, l'rincipal of the Royal Veterinary College, Edin-
burgh, on "The Inspection of Meat in Relation to our Food Supply, with special Reference to Tuberculosis in Cattle ;" and by Mr. W. B. Buchau (Glasgow) on "Late '1 mprovements in Ilouse Drainage;" while Mr. Fyfe, sanitary inspector (Glasgow), will explain the new smoke-testing apparatus. The members will afterwards visit the Glasgow refuse despatch works, under the guidance of Mr. Young, superintendent of the cleansing department, Clasgow.

## PUBLIC MORTUARIES.

Dr. J. B. Resssela has reported to the Glasgow Town Council in farour of the provision of public mortuaries, the question having been referred to him for consideration. He states that under the Public Ilealth (ScotIand) Act, Section 43, the provision of mortuaries by local authorities bears the same relation to the prevention of disease, in so far as it could be spread by the clead, as the erection. of hospitals bears to the prevention of disease by the living. In each case compulsory power to remove the source of danger was conferred, and in the one case the exercise of this power depended upon the prorision by the local authority of a "proper place for the reception of dead bodies," in the other of an hospital. they were in the position of not haring nade the necessary provision for the cases described in the words of Pthe Act, namely, "dead body of one who has died of any infectious disease, retained in a room in which persons live or sleep, or any dead body which is in such a state as to endanger the health of the inmates of the same house or room." It was not creditable "to the local authority that they could not deaI with such ${ }_{j}^{3}$ a case. He observed further that just as hospitals were most successful by encouraging voluntary resort to their accommodation, so mortuaries were intended to. educate and entice the occupants of small houses to send their dead thither. In neither case was the compulsory use of such places a measure of their necessity or utility.

## IRELAND.

## IRISH MEDICAL SCHOOLS' AND GRADUATES' ASSOCIATION.

At the Council meeting of the above "Association, held at Cambridge on June 2Ist, Professor Alexander Macalister, F.R.S., President, in the chair, the IIonorary Provincial Secretary (Dr Stewart) reported that the proposal to restrict appointments on the honorary staff of the Bristol Royal Infirmary to those holding certain specified London diplomas had tiveen abandoned as a result of the action of representatives of the Association. In vietr of the possibility of a similar proposal being brought forward, either at bristol or elsewhere, at a future time, a statement (to be placed in the hands of lay goternors of hospitals) was submitter, setting ferth the objections to such exclusire action. On the motion of the President, seconded by Sir George E. Paget, k.C.B. (Vice-l'resident), this statement was adopted and ordered to be printed for circulation. Dr. Macnaughton Jones was elected Chairman of Council, to succeed Professor Gerald F. Yeo at the expiration, in July, of the latter's term of oflice. The? ©ummer dinner of the Association took place the same evening in the lfall of Gonville and Caius College, Professor Mlexander Macalister, President, in the chair. Amongst the memhers and guests present were Sir (ieorge E. I'aget, K.C.B. (Tice-I'resideut); Sir Thomas Crawford, K.C.B., and Dr. Jacnaughten Jones, Ex-Presidents; tho Master of Peterhouse ; the Master of Downing; Irofessor Ilumphry, F.R.S.; Dr. Richard Fegan (President-clect), Irofessor apother; I'roféssor Latham; Professor Roy, Brigade-Surgeons IV Alexander (IIon, Treasurer). and Thomas Wright; Surgeon-Hajor IT: Nash, Dr. Bradbury, Rer. Dr. Sheilds, Dr. Ingle, Dr. Gilbart Smith.

Dr. Lea, Mr. I'ercy Dunn, Mr. Keetley, Dr. Connellan (Guernsey), and the two Hon. Secretaries (Drs. Stewart and Abraham). The loyal toasts were duly honoured. In proposing the health of "The Guesta" the President obserred that the hall in which they were assembled was that of a collego of which the immortal Ifarrey was first a student and subsequently a Fellow, and Within whose walls some of his greatest experiments were performed. The toast was responded to by Profossor Latham. Professor Ilumphry proposed "Success to the Irish Schools" and Graduates' Association." The President, in responding, referred to their recent success at Bristol as an instance of the ralue of such an organisation as theirs in protecting the interests of Irish medical graduates and diplomates. In proposing the toast of "The University of Cambridge," Sir Thomas Crawford alluded to the fact that the oldest college of the unirersity, Peterhouse, had now an Irishman (the Rev. Dr. Porter) as master. He referred also to the rapid, rise within recent years of the Cambridge Ifedical School, much of which, it was acknowledged, was due to the indefatigable energy and ability of Professor Macalister. The toast was responded to by the Master of Peterhouse and by Dr. Hill (Master of Downing). The health of the outgoing Chairman of Council, Professor Gerald F. Yeo, was proposed by Dr. Gilbart Smith. In the absence of Dr. Yeo, the toast was responded to by Dr. Macnaughton Jones, who said he considered it a high honour to be called on to succeed one who, during his three years' tenure of office, had been so constant in his attendance, and had exercised such a vigilant and wise oversight of the detail working of the Association. Dr. Fegan proposed "The health of the Master and Fellows of Gonville and Caius College," by whose courtesy they had been allowed to meet in a hall of such historic interest. The toast was responded to by two of the Fellows present, Sir George Paget and Professor Ridgeway (Queen's College, Cork). The proceedings were enlivened by the singing of several Irish and other melodies by Mr. Groome and Drs. Lea, Gilbart Smith, and Abraham.

PROPOSED MAIN DRAINAGE SCHEME FOR CORK. AN efficient system of main drainage for the city of Cork has long been required, but the expensive nature of the schemes proposed prevented their adoption. The Public Health Committee of the corporation hare at present under consideration a scheme proposed by the city engineer, which appears to present many adrantages. The plan proposed is to drain the northern parts of the city by a sewer, and the southern parts by another sewer, the tro to meet near the Old Passage railway. It is then intended to project the main to within a distance of the park, and the entire sewerage having been collected in two reservoirs with alternative action, pumping works will be constructed to pump the sewage to lands close to the Skahabeg Road. Here it is proposed that the corporation shall purchase 300 acres of land, and utilise them as a sewage farm, over which the sewage, after precipitation, would flow by gravitation, and the effluent would pass into the Tramore river. The estimated cost is $£ 94,708$, and the annual cost $£ 800$, Which, capitalised, represents $£ 16,000$, so that the estimated capital cost of the proposed scheme would be close on £110,60. The prescut sewers cost annually about £2, deductiug this and the annual profits from tho utilisation of the sewage, the proposed scheme would ultimately cost the ratepayers £5:, T08.
Conyersazionf at the hoyal Coliege of Physicians.- At the soirée of the Royal College of Physicians given on Werlnesday erening last, the President, Sir Andrew Clark, Sir Edward Sieveking. Sir Alfred Garrod, Sir Dyce Duckworth, Sir Henry Pitman, and Dr. C. Handtield-lones, members of Council, received a Iarge and distinguislied gathering in the hall of the College in Pall Mall Last. An interesting collection of works of art and curiosities was on view for the entertainment of risitors.

## THE METROPOLITAN COUNTIES BRANCH OF THE BRITISH MEDICAL ASSOCIATION.

Tre annual dinner of the Metropolitan Counties Branch of the British Medical Association on Wednesday evening was marked by some incidents of considerable interest. The company assemhled, under the presidency of Dr. Brodie Sewell, was uumerous and distinguished. The Directors-General of the Army and Navy were both present, and their speeches excited considerable interest.

In proposing the toast of "The Medical Services," Mr. Ernest Hart pointcd out that it could not be fairly said, as sometimes stated, that the officers of the public services were by habit grumblers and disposed to obtrude their grievances, inasmuch as in respect to the Naval Medical Service he was lappy to say that since the Warrant of 1881, which conferred satisfactory conditions of rank, pay, and general service regulations, he could not call to mind having received from any single member of the service a single word of complaint during the whole seven years, throughout the reign of the late Director-General, Sir Joln Watt Reid, who had just retired loaded with honours and followed by the universal affection and confidence of his department. The work of the Naval Medical Service had, he believed, during that time been carried on without a hitch of any sart and without the slightest friction, so that it might fairly be inferred that when the medical officers of the public services were treated with courtesy and fairness, they were even more readily contented than any other body of men that could be named. The recent accession of Dr. Dick to the office of Director-General of the Navy had been warmly welcomed throughout the whole service, and he trusted that his term of office might be marked by equally auspicious conditions. He referred also in eulogistic terms to the high personal regard which was entertained towards Sir Thomas crawford, and regretted that the present condition of the Army Medical Service was not one of equal contentment.

Dr. Drcis, Directar-General of the Naval Medical Department, who was very warmly received, expressed the deep sense of himself and of the Naval Medical Department generally, of the highly impartant services which had been rendered to that Department during a long series of years by the efforts of the British Hedical Association and of its Parliamentary Bills Committee, to the efforts of which were mainly due the successive warrants which had brought his department into the state of contentment-and he hoped he might add, of high efficiency-which it had now reached. He expressed his profound satisfaction on being the guest of the Association on that occasion, and he trusted that throughout his term of office the same contentment might prevail in the service as had endured now for so many years. The besom of reform was, however, sweeping over both the naval and military medical services in the hands of the Select Committee of the House of Commons now sitting, and it could hardly be expected but that some reductions wauld be effected in view of the urgent desire for economy which that Committee af the House of Commons generally were shewing in respect to the military and naval services.
Sir Thomas Crawfond, who spoke with much earnestness and feeling, expressed also his deep sense of the services which the l'arliamentary Bills Committee of the Assaciation, and the Association generally, had rendered on so many accasions to the serrice over which he presided, and his most earnest desire that the Medical Department of the army should enter into closer relationship with the civil branch of the profession. He had seen with the greatest satisfaction that increasing numbers of the members of his department were entering the Association, and he had had occasion, when his advice had been asked, to counsel them rather to associate themselves with the civil branches of the Assaciation than to form, as had once been suggested, a separate military Branch. He desired in all things to see the civil and military medical men of the country associated in a common bond of brotherhood and with common interests.

Dr. Bridqwater (President of Council), replying to the toast of "The British Medical Association," eloquently proposed by Dr. Ord, ably epitomised the present position of the Assaciation, and referred with satisfaction to its world-wide extension, to the serrice which it was rendering to medical science, and to the financial and literary success which it had attained through the influential character of its Journal and the ability with which its finances were conducted. Alluding to the receut communication from the Secretary of State for War, he observed that the day could not be
far distant when it would be impossible to speak of the military medical service and of the British Medical Assaciation as being in any way distinct bodies, inasmuch as by far the greater number of members of the Army Medical Service were now members of the British Medical Association, which was therefore substantially in every way entitled to speak for them.
Dr. Holman (Treasurer) in proposing the toast of "The Metropolitan Counties Branch" and its new President, Dr. Brodie Sewell, referred to the great success with which the Association was carrying out its original main object, that of uniting the general practitioners of the country in powerful and extended union, and giving them their rightful place in the councils of the profession. He referred to the interesting fact that the office of President of Council of the Association, of Treasurership of the Assaciation, and the Presidency of the Metropolitan Counties Branch-the mast numerous of all the Branches-were at the present moment held by Dr. Bridgwater, Dr. Seivell, and himself, all belonging to the class of general practitioners. He referred especially, with pride, to the new home of the Association, which was in every way worthy of the importance and extended operations of the Society, and expressed a hope that the Library, which was in course of formation, would be well remembered by the members, and that they would make use of the accommodation now afforded them in the library and reading room.
The toast of "The Visitors" was proposed by Dr. Drckson, and responded to by Dr. Fordyce Barker, of New York, who received a very hearty welcome from the assembled guests.

Improvements in the Belgrave Mospital-The Belgrave Hospital for Children, at 79, Gloucester Street, Pimlico, is one that is busily engaged in supplying the wants of a poor neighbourhoad, and, though almost entirely without endawment, it does not often press itself upon the notice of the public. A week ago was held there an afternoon meeting of the governars and those interested in its work to acknowledge and return thanks for the generous gifts of the Honourable Mrs. W. le Poer Trench, all the more generous that they were eminently practical. A complete new hot-water system had been provided by her, which extended all over the hospital, and made a great difference in the labour of the nurses and the comfort of the children; a fire-hose had beer added, which was shown to be amply sufficient to command all the building; and last, but not least, a bath-room had been established on the ground floor, whose walls are of smooth dark-olive tiles, on which is impressed most appropriately, in Greek letters. of gold, the Hellenic far-famed axiom, the first words of Pindar : "Best of all things is" water." Mr. Bottomley, of Messirs. Laing and Son, by whom the whole had been carried out in a thoroughly satisfactory manner, was in attendance to show the arrangement and competence of the fire-extinguishing apparatus. After theHonourable Mrs. W. le Paer Trench had declared the additions at the service of the hospital, and when the wards and their occupants had been duly inspected, the company were invited to tea by Mrs. Munro, the Lady Superintendent.
Hydrophobia in Pamis.-In the first five months of 1888 there were no fewer tban 280 applicants at M. Pasteur's laboratory from the department of the Seine alone, all of whom had becn bitten by dogs either known to be rabid or suspected of being so. This number is almost equal to the corresponding total for the wholo year 1887, which amounted to 306 . The Prefect of Police has, therefore, issued an order that for six weeks. no dog shall be allowed to go ahout the streets of Paris, unless led by a string. The owner of two dogs, which had been in contact with a rabid cur, was recently sent to prison for six days and fined 200 francs (£8) for refusing to have them destroyed.
Mr. Ellis, L.R.C.P., of Liverpoal, the winner of the Queen's Jubilee Prize, given by the Royal Botanic Society, Regent's Park, for the best essay upon the plants and vegetable products introduced into the United Kingdom for use in the arts, manufactures, and for food, during Mer Majesty's reign, was presented on June 23rd, at a meeting of the Society (the Duke of Teck in the chair), with a gold medal and purse of fifty guineas.
An Overdose of Chloroform.-Mr. Edmund Gurney, joint secretary of the Psychical Society, and author of numerous works, has met his death at Brighton by incautiously inhaling an overdose of chloroform, which he was in the habit of taking as a remedy for obstinate sleeplessness and accasional neuralgia.

# ASSOCIATION INTELLIGENCE, 

COUNCIL.<br>NOTICE OF MEETING.

A merting of the Council will he held at the Offices of the Association, No. 429, Strand (corner of Agar Street), London, on Wednesday, the 18th day of July next, at $20^{\circ}$ clock in the afternoon.

Irancis Fowke, General Secretary.
June 14th, 1888.

## NOTICE OF QUARTERLY MEETINGS FOR 1888. Election of Members.

ANY qualified medical practitioner, not disqualified by any by-law of the dssociation, who shall be recommended as eligible by any three members, may be elected a member by the Council or by any recognised Branch Council.
Meetings of the Council will be held on July 18th, and October fith, 1888. Candidates for election by the Council of the Association must send in their forms of application to the General Secretary not later than twenty-one days before each meeting, namely, June 27 th, September Quth, and December $28 t \mathrm{th}$, 1888.

Candilates seeking election by a Dranch Council should apply to the Secretary of the Branch. No member can be elected by a Branch Conncil unless his name has been inserted in the circular summoning the meeting at which he sceks election.

Francis Vowke, General Secretary.
GRINTS FOR SCIENTIELC RESEARCII.
Tue Scientific Frants Committee of the British Medical Association desire to remind members of the profession engaged in researches for the advancement of merlicine and the allied sciences, that they are empowered to receive applications for grants in aid of such research. Applieations for sums to be granted at the next annual meeting should be made without delay to the General Secretary, at the office of the Association, 429, Strand, W.C. Applications must include details of the precise character and objects of the research which is proposed.

Reports of work done by the assistance of Association grants belong to the Association.
Insiruments purchased by means of grants must be returned to the General Secretary on the conclusion of the research in furtherance of which the grant was made.

COLLECTIVE INVESTIGATION OF DISEASE.
Reports upon the two remaining inquiries, namely, that into Diphtheria, and that into the Gegomapilical Distribution of certain Diseases, are in preparation, and will be published as soon us ready.
The following inquiry only of the first series remains open, namely, that on the ETroloay of Phtirisis.

A fresh inquiry into the Origin and Mone of Propagation of Epidemics of Diphtieria has been issued.

Memoranila upon these subjects, and forms for recording observations, may be had on application to the Secretary of the Collective Investigation Committee, 429, Strand, W.C.

## bRANCH MEETINGS TO BE HELD.

Border Courties Brayort.-The twentr-first annual meeting of this Branch will be lseld at Penrith on Friday, July 13th. The chair will be taken by Dr. Mcheod at 1.30 p.m. The usual election of office bearers for the year will be held. Dr. Robertson, Peurith. will delver his presidendlal audress. Intimatinns of papers for reading or commmuintions of any kind should be sent to the Secretary ns soon as possible.-HI. A. LeDIARD, 4I, Lowther Street, Carlisle, Honorary Sceretary.
Cambridoeshibe and Huntwodonsaire branch.-The anmual meeling of this Branch is appointed to be lield at Ely on Friday, Jnly 6 th. Merabers wishing to make communicatlons, to exlibit specimena, or to propoae new menters are requested to signify their intention to Dr. Anningson. Canubridge, for insertion in tho arder uf proceedinga.-BL'siell AxsiNoson, Honorary Secretary.
North ef Treland Branch.-The anntal meeting of this Branch will be Iheld in the Belfast Hoyal Ifospital, on Wednesday; Jaly Eith, at 4 P.ar. Busiuces: I. 'To recelve, the secretary's report and the Treisurer's statement for the past year. 2. To elect office-bearers for the ensuing year. 3. To elect two members as represeutatives of the Branch on the Council of the Association, aud also the
representatlves on the Parliamentary Bills Committee. 4. The Presldent (Dr J. M. Palmer) will deliver an Address. 5. Dr. O'Neill will show a Patient operated on for Extensive Discase of Fioot, and also a Patient operated on for Cleft Palate, and will read notes of each case. 6. Dr W. A. Mckeown will show a New Apparatus Ior Intra-ocular Irrigation in the Extraction of Cataract. He will also show some cases in which Senile Cataract has been extracted withont Iridectomy. 7. Mr. Fagan will show a Paticat on whom he recently performed resection of the Wrist-Joint. Je will aloo ohow a Portion of Bowel, the Seat of Resection of the wrist-Jomed for Intestinal Obstruction, and give notes of the case; and a lortion of the Saphena Vein rernoved and presenting some features of pathological Interest. 8. Dr. E. C. Thompson (Omagh) will read Notes of of patbological interest. 8. Dr. F. C. Dr. Burden will ahow a Series of Microa successful Case of variotomy. Dr. Buers will show the Instruments emploped acopic Sections of Tumones. for the Eilectrical Treat ment of Fibrold Tumours of the Uterns after the ..ethod of Apostuli. He will also show a specimen of Cystic Vesicular or IIydatin Degeneration of the Chorion. The annual dinner will bo held on the same eveniag at 7.30 p.M. In the Royal Avenue Ifotel; tickets, $\mathrm{h}_{\mathrm{s}}$. bd. rexelnstve of wine).-Jorn W. Brers, M.D., Lower Crescent, Bellast, Honorary Secretary.

North Wales Branch.-The annual mecting will be held at Dolgelly on July 9 th. Members baving any comraunications to bring be fore the mecting are requested to intimate the same before Juue 30th to W. Joses-Morras, IIonorary Seerctary, Portmadoc.

Northery Cotivites of Scothand brasct. - The anmual meetiog of this Branch will be held at the Spa Hotel, Strathpeffer, on Thurdar. July sth, at 1.50 P.M. Pitpers will be read by Dr. Fortescue Fox, Strathpeffer. Casas of Veneseetion, and Dr. Leslie M. Milhe, Forre, Notes on the Wcir-Mitchell Treatment. A visit will also be paid to the Spa.-J. W. Norris Mackay, M.D., Homorary Secretary, Elgin.

Reading and Upper Thanes Bravca. - The annualmecting of this Branch will be held in the Library of the Royal Berkshire Hospital. Reading, on Wedwesday, July 11th, at $4.15^{\circ}$ p.3. The chair will be taken by the President. (Dr. nesday, July 1 th, at 4.15 P.n. C. If. Tenchs, who Winintrodice Esq., of Windsor), who will then take the chair. Members willing Holderness, lisq., or or bring forward cases of ellinical iuterest are requested to to read short papers or brongrary Secretary without delay. The aanual dinner communicate with the JIonorary Secretary without deluy. The annual dinner will take place on the same evening at B.15 P.m., at the Queen shotel, keading. Dinner tickets (5s. whthout wine, or los. inchaling wine) should he ontainet from the llooorary Secretary on or before Saturday, July ith.-H. Hexgate Phillips, 43a, London Road, Reading. Honorary Secretary.

Shropsaire and Mid-Wales Branch.-The annual genemal meeting of the Branel will be beld at the Salop Infirmary, Shrewsbory, on Toesday, July 3rd, at 2 p.al. The annual dinner will take place at the laven Hotel after tho meetiug. Members desirous of contributing papers, notes ol cases, etc., are requested to communicate with the undersigned.-EDWard Curetor, Hoaorary Secretary, Shrewsbury.

Otfond and Distriet Branch. - The annual meeting will be beld at the Radeliffe Infirmary. Oxford, on Friday, Jnly 2ith, at 3.30 F.ar. Members wishing to read papers or show cases or specimens are requested to give notice to the Honorary secretary, W. Lewis Morgan, 42, Broad Street, Oxford, on or beforu July 13 th.-S. D. Dirbishire and W. Lemis Morgan, Hunorary Secretaries.

## NEW SOUTH WALES BRANCH.

Tre seventieth general meeting of this Branch was held in the Royal Society" Room, Sydney, on Friday, May tth, at \& P.M., Dr. Chambers, President, in the clair. The following gentlemen were present: Drs, Sydney Jones, Crago, Roth, Jlacdonald, Marshall, Martin, Knaggs, Parker, Brady, Worrall, Fiaschi, Garrett, Kendall, Clubbe, West, Twynam, and Scot Skirving.
The minutes of the previous meeting were read and confirmed.
Morphine Poisoning.-Dr. Crago read some notes on a case of morphine poisoning.-The President said that the great difficulty in the case mentioned by Dr. Crago was that there was no knowledge as to whether the man really had taken morphine. Goltz's experinents in this connection were interesting, demonstrating very clearly that exactly the same stages of loss of function were fond in morphine poisoning as were seen in removing successive portions of the brain of animals from above down-wards.--Dr. Brady remembered a case in which a patient took two ounces of opium. The patient was paralysed, but artificial respiration was kept up by the late Dr. Fortescue and himself, and large doses of atropine were administered. The patient re-covered.-Dr. Scor Skinvivg said that at the Prince Alfred Mospital he saw a patient who had tried to hang berself. First, a partial recovery took place, lasting some hours, followed by relapse into unconsciousness and death. The conditions of opium poisoning and strangulation were somewhat analogous. He would ask what was the mechanism of death in such cases of
partial reco he given.-Dr. Kougas sait he bed several explanations might Conrt all day as angas said he had been attending the Criminal cont al day as an expert in a case of morphine poisoning, and
he had been particularlystruck with the great dirersity of opinion amongst the medical experts in this matter. The patientin tioned in Dr. Crago's paper did not seem to have been used to taking morphine. The secondary symptoms mentioned by Dr.

Scot Skirving were no donbt brought about by the congestion of the nerve-centres, leading to a subsequent aerous effusion. He (Dr. Knaggs) mentioned a case of a young woman who was partially drowned and brought round, and went on well for a time, but relapsed and died. Upon examination it was found that there was a large effusion on the brain. The mechanical conditions were certainly somewhat the same in morphine poisoning, strangulation, and drowning. He had had several post-mortem examinations of cases of morphine poisoning, and had always found a great deal of effusion.-Dr. Sydney Jones did not qnite see that there was sufficient evideuce, to justify the diagnosis of morphine poisoning. as the man's statement as to taking morphine pills could not quite be relied upon, especially as he was in such a confused condition. The results of a limited hemorrhage into the pons Varolii were wide-spread and more in keeping with the symptoms described, and he should think that the cause of death had been some subsequent inflammatory mischicf. In support of this view of the case there was the total absence of that coldness and clamminess mentioned by the authorities as distinctive of opium poisoning.-Drs. West, Macdonald, Worrale, and Twrincmalso took part in the discussion, and Dr. Crago replied.

Ancemic Sore Throat.-Dr. Scot Skirving read some notes on a form of sore throat seen in anæmic persons.
Perforation of Vermiform Appendix.-Dr. TwyNam exhibited and made some remarks upon a specimen of perforation of the vermiform appendix.
Subject of Discussion at Next Meeting.-Dr. Knagas stated that he would open a discussion on the administration of chloroform at the next meeting of the Dranch.

## JAMAICA BRANCH.

THE bi-monthly meeting of this Branch was held at the public library on May 30th, the Hon. J. C. Phillippo, President, in the chair.

Papers.-Dr. Bronstorph read a paper onTetanus following Abor-tion.-Dr. Plaxton read a paper on a case of Shrinkage of a Hemisphere and subsequent Pachymeningitis.' The brain and its coverings were shown.

## LANCASHIRE AND CHESHIRE BRANCH.

The fifty-second annual meeting of this Branch was held at the Medical Institution, Hope Street, Liverpool, on Wednesday, June 13th, at 2.30 P.M.
The minntes of the last annual meeting were read and confirmed.
New President's Address.-Dr. Ball, the retiring President, then introduced his successor, Dr. Watkins (Newton-le-Willows), who, after thanking the members for the honour conferred upon him, delivered his presidential address. At its conclusion, on the motion of Dr. A. T. H. Waters, seconded by Dr. Exton Jones, a hearty vote of thanks was carried by acclamation.
Report of Council.-The report showed that the Branch had lost hifty-two members by death and removal from the district. The reduction had, however, been made good by the election of fiftyfour new members. The financial condition of the Branch was highly satisfactory, while the expenses of the year had been a few shillings under that of last year. The receipts had increased, and there was now a balance of $£ 281$ 4s. Id. as against $£ 229$ I6s. 11d. at the end of the previous year. It was proposed at the council meeting held before the last annual meeting to make a donstion from the funds of the Branch to the Epsom Medical Benevolent College; but as some members considered this step to be ultra vires, the Council submitted the question to Mr. Upton, the solicitor to the Association, who was of opinion that it came within the powers of the Council to vote the amount, but that it wonld be hetter to have an expression of feeling on the point from a general meeting. Notice had therefore been duly given that a proposition to make a donation of twenty-five guineas to the Epsom Medical Benevolent Coilege would he brought before the meeting. The Council had during the past year appointed subcommittees to consider the best steps to take to aecure an increase of fees to medical wituesses, and to obtain more consideration for them at sessions and assizes. The aubcommittee, after considerable deliberation, had drawn up as aimilar inquiry into the scale of fees payable in different parts of the country, and asking if any grievances existed, and, if ao, for auggestions for their removal. It was intended to aend this circular to every Branch within the United Kingdom, to collate the replies, and take steps to memorialise the Government on the subjact. Amother
subcommittee had been engaged in revising the proposed amendments of the Lunacy Acts Amendment Bill, and, after lengthy consideration, had proposed certain amendments in the interest of the profession which would be submitted to the meeting. The whole subject of annual and intermediate meetings had received the attention of the Council, which had drawn up a scheme whereby it is unanimously recommended that Liverpool, Manchester, Lancaster, and Chester be considered as the principal points for annual meetings of the Branch, and that in future annual meetings be held in these places on alternate years in rotation, unless special circumstances rendered a different arrangement desirable in any particular year. That in the intervening jesrs the annual meetings be held at one of the following townsPreston, Wigan, Warrington, Crewe, Barrow, Ulverstone, Blackpool, Southport, Burnley, Blackburn, Roclidale, Macclesfield, Clitheroe, St. Helens, Bolton, Bury, Stockport, Birkenhead, Runcorn, Knatsford, Northwich, and Nantwich-the place of meeting to be fixed on at the preceding annual meeting each year. That it is desirable that an intermediate meeting he held in the autumn of each year in one of the above mentioned towns to he selected by the Council. These recommendations had been adopted with a view of holding more frequent meetings throughont the district without waiting for specific invitations from places which were often made at inconvenient dates, and proceeded from places inaccessible to the hulk of the members. It was intended to defray the cost of all meetings from the funds of the Branch, thus relieving the local practitioners from what might have been felt somerwhat of a tax upon their generosity, especially in sparsely inhabited districts. The adoption of the report and financial statement was proposed by Dr. A. T. H. Waters, seconded by Dr. Cartar, and carried.
Election of Office-bearers.- President-elect, Dr. Davidson; Vicepresidents, Mr. Hardie and Mr. Chauncy Puzey ; Honorary Secretary, Dr. Glascott.
Representatives in the Council of the Association.-Geo. B. Darron, M1.D., Southport; Alex. Davidson, M.D., Liverpool; Charies E. Glascott, M.D., Manchester, General Secretary; James Hardie, Esq., Manchester; James Taylor, Esq., Chester, Local Secretary.
Council of the Branch. - W. Alexander, M.D., Liverpool; F. J. Bailey, Liverpool; J. A. Ball, M.B., Wantage; W. C. Barnish, Wigan ; J. Barr, M.D., Liverpool; William Bell, New Brighton; W. Berry, Wigan; P. M. Braidwood, M.D. Birkenhead; J. J. Bride, Wilmslow; S. Buckley, M.E., Manchester; J. E. Burton, Liverpool ; A. F. H. Cameron, Liverpool; W. M. Csmpbell, M.D., Liverpool ; W. Carter, M.D., Liverpool ; J. Corns, M.D., Oldham ; E. M. Dickinson, Liverpool; J. Dreschfeld, M.D., Manchester; A. M. Eason, Lytham ; H. M. Fernie, Macclesfield ; W. H. Fitzpatrick, M.D., Liverpool ; T. R. Glynn, M.D., Liverpool ; A. Godson, M.B., Cheadle; F. Granger, Chester; W. Hall, jun., Lancaster, Local Secretary; C. E. Harris, M.D., Birkenhead ; W. H. Hughes, Ashton ; J. H. Hammond, M.D., Preston; Leslie Jones, M.D., Manchester; T. Jones, M.B., Manchester; J. Lambert, M.D., Birkenhead; W. McAfee, M.D., West Kirly; E. D. McXicoll, Southport; Edwin Rayner, M.D., Stockport; C. J. Renshaw, M.D., Ashton-on-Mersey ; D. Lloyd Roberts, M.D., Manchester; John Robinson, Frodsham ; T. L. Rogers, Rainhill ; J. Ross, M.D., Manchester; G. E. Shuttleworth, M.D., Lancaster; Starkie Smith, M.D., Warrington ; F. Southam, Manchester ; G. Thomson, M.D., Oldhsm ; C. Thorp, Todmorden; F. Vacher, Birkenhead; E. Waters, M.D., Chester; Wm. Walter, M.D., Manchester; H. Welch, Blackpool ; R. Williams, Liverpool ; G. A. Woods, Southport; A. H. Young, M.D.. Manchester.
Representatives on Parliamentary Bills Committee.-Dr. Barron and Dr. Carter.
Next Annual Meeting.-It was resolved that the next annual meeting should be held at Blackpool.
Donation to Epsom College.- It was resolved that a donation of twenty-five guineas be made from the funds of the Branch to the Epsom Benevolent Medical College.
Reports of Subcommittees. - The report of the Medical Witnesses Subcommittee was read and adopted.
Lunacy Acts Amendment Bill.- It was resolved that the following report of the Lunacy Acta Amendment bill be adopted:-
"Your Committee, haring carefully examined the proposed amendments to the Lunacy Acts Amendment Bill, would suggest that Section 4, Subsections 1, 2, and 9, be retained, with the modification of three clear days instead of seven daya, line 8, Subsection 1, page 3. Your Committee suggests the retention of Section 4 with the abore modification, as it is frequently impossible to
obtain the services of a magistrate so as to get the patient at once admitted to an asylum, and on this head beg to remind your Council of the recent case of a patient who was driven about in a vehicle for twelve hours during most inclement weather in search of a magistrate, who was expected to examine the lunatic. Section 54, page 33 , line 14, insert " shall" instead of " may;" lines 20 and 21 , omit words, " as the Committee may think fit," thus putting hospital officers in the same category as county asylum officers. With the exception of the above alteration and amendments, your Committee recommend the acceptance of the amendments suggested by the Subcommittec of the l'arliamentary Bills Committee of the Association."

Medical and Surgical Communications.-Owing to the large number of papers it was found necessary to divide the meeting into two sections, the following being a list of communications : Dr. Walter: Notes of a Case of Total Extirpation of the Uterus per Vaginam.-Dr. Glynn: A Note on a new Methad of treating Chlorosis.-Mr. R. Harrison showed the Electric Endoscope.Dr. Johnon Martin: How to prevent Small-por and how to spread it.-Dr. Alexander: Hysterectomy for Uterine Cancer (patient).-Mr. Shears: Xerosis of the Conjunctiva with Night Blindness.-Dr. Imlach: The Use of Stimulants and Narcatics by Women.-Mr. G. Walker: Treatment of Closed Pupils, with cases.-Dr. Burton: Short Notes of Cases of Uterine Fibroma treated by the Apostoli Method.-Dr. W. Mitchell Banks: Abdominal Section for Chronic Suppurative l'eritonitis, and for Retro-peritoneal Cyst.-Mr. E. Stanmore Bishop: Case of Jeph-rectomy.-Dr. R. Wítliams: Two Cases of Conical Cornea treated by Actual Cautery.
Erhibits.-A small museum of drawings, phatagraphs, and selecter pathological specimens was shown.
Dinner.-In the evening fifty-four members dined together at the Adelphi Hotel, under the presidency of Dr. Watkins, President of the Branch.

## NORTH OF ENGLAND BRANCH.

Visit to Durham County Asylum.--On Friday, June 22nd, by the kind invitation of Dr. Smith, the Medical Superintendent, the members of the North of England Branch risited the Durham County Asylum at Sedgefield, which contains twelve hundred patients. Between sixty and seventy members were present.

Amongst many typical cases demonstrated by Dr. Smith was one of myxoedema, in which he took a special interest. as he has only had two cases of the kind. The first patient died, and a series of microscopical preparations of the thyroid gland, kidneys, etc., were shown.
A remarkable group of general paralytics excited much attention; and, in conversing with them, Dr. Smith brought out their exaggerated ideas of wealth, power, etc. A good discussion took place with reference to a man who had been trephined for convulsions, consequent upon an injury to the head; he improred considerably after the operation, then relapsed, but it was hoped that he would ultimately be benefited.

The general arrangements of the asylum were much admired, and everyone was struck by the good order, brightness, and cleanliness of the whole institution. At two o'clock Dr. Smith entertained his visitors at lunch with generous hospitality, and his health was drunk with much enthusiasm.
The members generally were very grateful to Dr. Smith for enabling them to see so many patients of a class not often met with in ordinary practice.

## METROPOLITAN COUNTIES BRANCII: NORTII LONDON DISTRICT.

THE annual meeting of this district was beld at the \%oological Gardens on Wednesday, Junc 14th, when the following officers were re-elected: Vice-President: Dr. Bridgwater; Representative Member of Council: Dr. E. Hooper May; Committee: Dr. Wynn Westcott, Dr. Sykes, Dr. HI. Goude, Dr. W. Smith, Dr. Plaister, and Dr. Crabb; Honorary Secretary: Dr. G. Ilenty.

Many of the members attended the lecture on Deinosauria, by Mr. E. Beddard, M.A., and athers visited the lion-honse, the new reptile-house, and many other interesting objects of these wellconducted gardens.

The dinner was presided over by the President, A. G. Durham, Esq., supported by Dr. Bradie Sewell, Dr. Bridgwater, Dr. Dickson, and upwards of twenty members, one and all expressing great satisfaction at so good a reception.

## BRITISH MEDICAL ASSOCIATION.

## FIFTY-SIXTH ANNUAL MEETING.

The fifty-sixth Annnal Meeting of the British Dedical Association will be held at Glasgow, on 'luesday, Wednesday, Thursday, and Friday, Angust 7th, 8 th, 3 th, and 10 th, 1288.

President: John T. Banks, M.D., D.Sc.(IIon.), F.R.Q.C.P.I., Regius Professor of Physic in the Lniversity of Dublin.

President-Elect: Professor W. T. Gairdner, M.D., LL.D., Professor of Medicine in the University of Glasgow.

President of the Council. Thomas Bridgwater, M.B., J.P., Har-row-on-the-Hill.

Treasurer: Constantine Holman, M.D., J.P., Reigate.
An Address in Medicine will be delivered by Thomas Clifford All butt, MI.D., F.R.S., Consulting Physician, Leeds General Infirmary.

An Address in Surgery will be delivered by Sir George H. B.
Maclead, M.D., Surgeon in Ordimary to Mer Majesty in Scotland.
An Address on his "Recent Investigations in Surgery" will be given by William Macewen, M.D., Lecturer on Clinical Surgery, Glasgow Royal Infirmary.
An Address in Physiology will be delivered by John Gray McKendrick, M.D., LL.D., F.R.S., Professor of Institntes of 3ledí cine, University of Glasgow.

All the rooms required for the purposes of the meeting will, by the kindness of the authorities, be provided in the University of Glasgow.

Programne of Procerdings.
Tuesdat, Augest 7ti, 1888.
Q.30 A.M.-Meeting of $1889-1888$ Council. Randolph Hall.
11.30 A. M. - First General Meeting. Report of Council. Reports of Committees. Bute Hall.
4 P.м.-Service in the Cathedral. Sermon br the Very Rev. John Caird, D.D.. LL.D., Principal and Vice-Chancellor of the University of Glasgow.
s. 30 p.an.-Adjourned General Meeting from 11.30 A.3. President's Address. Bute Hall.
Wednesdat, August 8 the, 1888.
9.30 A.m.-Meeting of isss-s9 Conncil. Randolph Hall.
10.30 A.M. to 2 P.M. - Sectional Meetings.

3 P.x.-Second General Meeting. Address in Medicine by Tbomas Clifford Allbutt, M.D., F.R.S. Bute Hall.
9 p.M.-Conversazione given by the Professors of the University. Thersnat, AUGust 9th, 1 SSs.
9.30 A.M. - Address on his Recent Surgical Investigations by William Macewen, M.D. Bute Hall.
11 A.x.-Meeting of Council. Randolph Hall.
10.30 A.M. to 2 P.M. - Sectional Meetings.

3P.M. - Third General Meeting. Address in Surgery by Sir George H. B. Macleod, X.D. Bute Hall.
7 P.M.-Public Dinner. St. Andrew's Hall. Fridar, August 10th, 1888.
$10.30 \mathrm{~A} . \mathrm{M}$. to $1.30 \mathrm{P} . \mathrm{M}$.-Sectional Meetings.
3 p.y.-Concluding General Meeting. Address in Physiology br John G. McKendrick, M.D., F.R.S. Natural Philosopby Class-room.
9 P.M.-Conversazione given by the Corporation of Glasgow at St. Andrews Hall.
Garden Party given by the Facults of Plysicians and Surgeons at the Botanic Gardens.
Saturday, Augict 11th, 1838.
Excursions:-(1) Lanark and Palls of Clyde: (2) Ayr and the Land of Purns ; (3) the Perthslire Highlands. Lochearnhead and Crieff; (1) Callender and the Trossachs (Loch Katrine) : (i) Auan; (fi) Stirling, Bridge of Allan and Inmblane Cathcdral ; (i) Rothesay and the liyles of Bure ; (®) Loch Lomond.

The following discussions and papers are promised up to the present time.

## Section A.-Medicine.

 Iumanity Class Room.A. Medicine.-President, l'rofessor T. McCall Anderson, M.D. Tice-Presidents, R. L. Bowles, M.D.; George F. Duffey, M.D. Honorary Secretaries, J. McGregor Robertson, M.A., M. S.. 400, Great Western Road, Glasgow; Kobert M. Simon, ML.D., 2i, Newhall Street, Birmingham.

The President will open the proceedings by introduciug a discussion on the Diagnosis and Treatment of Syphilitic Disease of the Nervous System. Dr. Thomas Buzzard, Dr. T. S. Clouston, Dr. William Moore, Dr. Ross, Professor Grainger Stewart, Professor Julius Dreschfeld, Dr. J. G. Sinclair Coghill. Dr. Francis Waruer, Dr. Frederick Bateman. Dr. C. R. Drysdale, Dr. C. W. Suckling, and Dr. Alex. Robertson (Glasgow) will take part in the discussion.
On the third day of the sectional proceedings, the Value of lnhalations in the Treatment of Lung Disease is set down for discussion, to be opened by Dr. C. Theodore Williams. The following gentlemen have already indicated their intention to engage in thi
discussion: Dr. Burney leo, Dr. W. W. Ireland, Dr. C. F. Knight, Dr. J. A. Lindsay; Dr. J. G. Sinclair Coghill, and Dr. E. Markham Skerritt.
Drs. Byrom Bramwell and Milne Murray will give a demonstration of their Method of Graphically Recording the Exact Time Relstions of Cardiac Sounds and Murmurs.
The following papers have been promised.
Coohill, J. G. S., M. U., Ventnor. The Treatment of Phthisical Pyrexia. Courpasp, Sidner, M.D. A Case of Subphrenic Abscess.
Couplasi, Sidner, M.D. A Case of Subphrenic Abscess. Drainage.
EREW, W., M.D., Iilmarnock. Prevalence of Cerebro-spinal Fever in Scotland. GARri, T. Gerald, MD.. M.Cli. Massage: When and Iow to Use it.
Greene, G. E. F. L.K.Q.C.P.A Note on a kecent Epidemic of Erysipelas. IIANDFORD, II., M.D. The Infuence and Position on Cardiac Murmnrs and the Condition of the Heart in Anamia (Chlorosis),
Ilarrison, A. J., M.B. Further Researches on the Treatmeat of Tiuea Tonsurans. Illustrated with photographs.
Jnofs, A. Orlando, M.D. A New Remedy for Some Forms of Heart Disease.
IIrrtie, A.S., M.D., Harrogate. Neurasthenia, True and False: Diagnosis and Management.
Strachav. Jolin, M.D. (Dollar). A Case of Pernicious Anæmia Successfully Treated Uy Arscuic:
StrataN, Jolus, M.D. (Belfast). (Title not received.)
Suchurnt, C. W., M.D. Notes on Peripheral Neuritis and on its occurreace in Brassworkers.
Tosory, J. Ii., M.B. East; African Fewer, with special reference to Climatlo Conditions.
Warmer, Frameis, M.D. 1. Methods of Studying aud Examining the Nerve System. 2. Imbecility in Children from Chronie Meningitis.

Sir W. Roberts, Dr. Lauder Brunton, Dr. Russell Reynolds, and Dr. F. IV. Pary have also intimated their intention to take part in the proceedings of the Section.

## Section B.-SuRgery. Chemistry Class Room.

B. Surgerx.-President, George Buchanan, M.D. Vice-Presidents, James Dunlop, M.D.; Charles Robert Bell Keetley, F.R.C.E. Honorary Secretaries, David Neilson Knox, M.B., 8, India Street, Glasgow; Walter Pye, F.R.C.S., 4, Sackville Street, Piccadilly, London, W.

As already announced, in this Section discussions have been arranged for on the following subjects:

1. The Surgical Treatment of Abscess of the Lung and of Empyema. To be introduced and supported by Mr. T. Pridgin Teale (Leeds), Sir Spencer Wells (London), Mr. A. Pearce Gould (London), Mr. R. J. Godlee (London), Dr. J. Ward Cousins, Portsmouth, and Mr. W. Thomas (Birmingham).
2. The Operative Treatment of Club-Foot. To be introduced and supported by Sir William Stokes (Dublin), Mr. E. Lund (Manchester), Dr. Alexander Ogston (Aherdeen), Mr. R. W. Parker (London), Mr. E. M. Little (London), Mr. John Chiene (Edinburgh), Mr. W. J. Walsham (London), and others.

## The following papers liave also been promised.

Bentos, Samuel, Esq., London. On the Treatment of Stricture of the Rectum by Electrolysis.
Dishop. E. Stanmore, Esq., Manchester. Some Cases of Osteotomy, with an Apparatus for tixing the Lower Limbs after Dirision of the Boves.
Browse, G. Buckston, lisq., London, An Explanation of the way in which Calculi is the Male Urimary Bladder sometimes escape Detectiou by the Sommd, with a deseription of a New Form of Samm.
Browse, Lennos, Esq., London. Tubage of the Larynx.
Carmichael Alewander, M.D., Barrow-jn-Furaess. i Case of Gastrostomy, with Exhibition of Patient.
Clark, Sir Andrew, London. The History of a Case of Catheter Fever.
Clarke, W. Bruce, Esq., London. Prostatic Abscess and its Consequences,
Cousina, J. Ward, M.D., Portsmouth. (1) New Apparatus for Treatment of Fractures of Lower Jaw; (2) New Evacuator for Litholapaxy and other Bladder Operations.
Fewwick, E. Hurry, E'sq., London. Notes from the Experience of 450 Cases of Organic Stricture of the Urethra.
Fleming. W.J. M. D., Glasgow, 1. On Continuous Extension in Splnal Curva-
ture. 2. On the Treatoment of Perineal Fistuls. ture. 2. On the Treat nent of Perineal Fistuls.
Harrison, Reginald, Ésq., Liverpool. On an Improvemeat in the Construction of Ships" Berths, relative to the Ireatmeut of sorme Surgical Injuries and Diseases at Sea (with models).
Kforiles., C. B., Esq., London. Plastic Amputations of the Foot.
L.oyn. Jordan, Esq., Birmingham. Inflammatory Disease of the Seminal Vesictes.
Mclstrre, Jolin, Esq., Glasgow. The Electric Illumination of the Cavitles of the Body.
MtRpfy, James, M.D., Sunderland. (1) A Case of Gastrostony, with Exhibi-
tiou of Patient lileven Montha after Operation. tiou of Patient lileveu. Months after Operation. (2) Hysterectomy per Vagi-
nam for U'terine Fibroids, morcellement onm for Uterine Fibroids, morcellement as practised by M. Péan.
Owes, lidmund, Esq. London, A Case of Intra-cranial (Sulduraj) Hxmorrhage : Localisation: Trephining; Iecovery.
Peinse, T. Frederick, Esq., M.D.. Loudon. (I) On Punctare of the Bladder ; (2) On Gonorrhes in Women.

Rake, Bearea, M.D.. Trinidad. The Value of Nerve Stretching in Leprosy, based on One Hundred Cases.
REstas, J. Crawfori, E\&q. if J., Glasgow. A Case of Severe Defommity of Lower Lip restored by Mr. Teue's operation six years ago.
Robsox, A. W. Mayo, Eisq., Leeds. (1) Irostatectomy, a Sequel of the Opera-
tion of Suprapuhic Lithotomy it cases of Prostatic Enlargement. With
Cases, (2) A Series of Cases of Macewea's Operation for Geun Valgum.
Rotr, Bernard, Esq., Loudon. Ou Scoliosiometry, or au Accurate and Practical
Method of Recording Cases of Lateral Curvature of the Spine.
Smith, Noble, Esq. Demonstration of the Reduction of Fractnred Vertebra, and the application of Apparatus to Control the Spine.
Stokes, Sir William, Dublin, Moditication of Gritti's Afoputation; aud will show Casts of Stumps.
Tart, Lawson, Esq., Birmingham. A Second Series of One Thousand Consecutive Ahdominal Seotions.
Thomson, Wm., Esq., M.D., Dublin, On Excision of the Fnee-joint.
Thorbury, Wm.. Esq.. Manchester. The Distribution of Paralysisand Anæs-
thesia in Injuries of the Cervical Region of the Spinal Cord.
Valcodrt, Th. de, Esq., M.D., Cannes. Winter Sea-baths at Canges in cases of Serofulous Disease.

## Section C.--Obstetric Medicine. <br> Medical Jurisprudence Class Room.

C. Obstetric Medicine.-President, Thomas More Madden, M.D. Vice-Presidents, William Leishman, M.D.; J. Halliday Croom, M.D. Honorary Secretaries, William Walter, M.D., 20, St. John Street, Manchester; W. L. Reid, M.D., 7, Royal Crescent, Glasgow.
The following two special discussions will take place:-

1. On Intra-nterine Death; its Pathology and Preventive Treatment. To he opened by Professor Simpson. The follawing gentlemen will take part. in the discussion:-Drs. R. Barnes, Graily Hewitt, More Madden, W. O. Priestley, John W. Byers, and 1. D. Leith Napier.
2. On Obstructive Dysmenorrhœa and Sterility. To be opened by Dr. Halliday Croom. The following gentlemen will take part in the discussion:-Drs. Aveling, Bantock, F. Barnes, R. Barnes, Cranny, Duke, Edis, Graily Hewitt, Macan, More Madden, Professor Stephenson, J. W. Taylor, W. Walter, and J. W. Byers.

Dr. Samuel Sloan (Glasgow) will show his Antero-pusterior Compression Forceps, and will explain their use in Flat Pelves.

Wm. Walter, M.D., Manchester, will exhibit his instruments for Securing the Broad Ligaments during Extirpation of the Uterus per Vaginam.
The following papers are promised.
Apostoli, G.. M.D., Paris. On Some Novelties in the Electro-Therapeutics of Gyuæcology.
Aveling. J., M.D. The Treatment of Uterine Tumours by Electricity.
Aveling. J., M.D. The Treatment of Uterine Iumours by Electricity, pery in their Physiological and Pathological Relations.
Cameros, Murdoch, M.D., Glasqow. 1. On Cæsarean Section, with Notes af a Successful Case. 2. On the Thermostatic Nurse, with Cases.
Croon, J. Malliday, M.D.. Edinuurgh, (1) On the Remote Effects of Remotal of the Uterine Appendages. (2) On Some Points in the Pathological, Anatomy of Incarceration of the Retroflexed Gravil Uterus.
DÚke, A., F.F.Q.C.P., Dublin. (1.) On the Rapid Expansion of the Cervical Cansl by a New Method. (2) Tractors and Belt for Additional Power in Forceps Cases, as an Alternative to Craviotomy.
HART, D. Berry, M.D., Edinburgh. Successful Case of Casarean Section (Porro's modification).
JMorch, Francis, NI.D., Liverpool. The Function of Anemia in Gynacology.
Jmiach, Francis, M.D., Liverpool. The Function of Anemia in Gyraecology.
Kennedr, Hugh, M.D., Dublin. Notes on the Treatment of Lacemtions of the Cervix Uleri.
McDoxalis. A. D.. M.D.. Liverpool. A Case of Extra-uterine Pregnancy.
Manden, More, M.D., Dublia. Ou the Canses and Treatment of Psendocsesis.
Martis, J. M., Mi.D. On Some Points in the Pathology of Carcinoma of the Uteris.
MAPIER, A. D. Leith, I. D.. Lonion. The Treatment of Habitual Ahortion.
Routh, A., M.D. Headaches of Pelvic Origin.
Stephenson, William, M.D., Aberdeen. Ou the Influcace of Permanganate of
Potass on Menstruation.
Tait, Lawson, Esq., Birmingham. The Treatnent of Uterine Myoma.

## Section D.-Public Medicine. <br> Greek Class Room.

D. Public Medicine.- President, IIenry Duncan Littlejohn, M.D. Vice-Presidents, James Christie, M.D.; D. Page, M.D. Honorary Secretaries, Ebenezer.Duncan, M.D., 4, Royal Crescent, Crosshill, Glasgow; John C. McYail, M.D., Holmhead, Kilmarnock.

1. Sanitary Legislation. This discussion will be introduced by the Opening Address of the President of the Section.
2. The Communicable Diseases Common to Man and Animale, and their Relationships. Discussion to be opened on the second day of the sectional meetings by George Fleming, LL.D.. F.R.C.V.S.. Chief of the Veterinary Department of the Army. Professor Edgar Crookshank, King's College, will take part in the discussion.
3. The Disposal of Sewage $(a)$ in Large Towns; $(b)$ in Small Towns and Country Districts. Discussion will be opened on the third day by Dr. James B. Rassell, Medical Officer of Health, Glasgow.
The following papers are promised.
EROW\%. William. M.D.. Carlisle. Report on Outbreak of Typhoid Fever, Associated with an Infective Fever among Cows.
Carpetter, Dr. Alfred, Cruydon. Oa Disposal of Sewage.

June 30, 1888.」
Cachtor, T., M.D., Leeds. On Some Researches in the flomikg af Hospital Hatients and of Ilollday Children.
(I). On Indlgence as a Main Cause of Iligh Desth rates, 2. The Berlin and I'arislan Sewage Farms.
fime, T. W., M. H. Milk Scarlet Fever.
On The Morcent Phases in the Decline of the Liverpool Death-rate.
Ampy, J. Bitndley, Fist., Lumdon. On a Minister of Public Ifealth.
Ent Norman M. D. Somo Hisks of Sanitat lon.
Kerr, Norman. Dr., Edinburgh. On Disposal of sewage.
ITturat Dr., Forfar. On Disposal of Sewage.
Hasmyth, T, G, F.llis: A report on the Chemical and Biologleal Conditions NasmiTh, $1, G, C$, ot the Air of Coal Mines, trict, being an re
cal Association.
Pangarre, Surgeon-Major Robert, M.D., late of the Sanitary Department. Ker
Pningrre, Surgeon-Major Rober, M,Dn,
Majesty's Bengal Army. (1) On Shefheldand Weicester Comply for Drtaking Pur-
Small-pox Prevalence. (2) The Condition of We
poses in Public Fountains, Railway Stations, Et Ephemeral Fever.
Gfaton, Edward, M.D., London. On Epidemic of Monemeral Cever. and its Simpron, -, M.D, Mertical Ofticer of Healt
vostering Condtions in National Sanatorit.
Suraerland, J. Francis, M.D. National Some Bacteriological Researches in cannection with Summer Diarrheat.
Whitwlaw, Dr.. Kirkintilloch. On Disposal os Semase.

## SECTION E.-Psycholoay.

Natural History Class.Room.
E. Psychologr.-President, James C. Howden, M.D. Vice-Precidents, James Rutherford, M.D.; Julius Mickle, M.D. Honorary Secretaries, A. R. Urquhart, M.D., Murray Ilouse, Perth; Alex. Newifigton, M. D., Ticelurst, Sussex.

Dr. J. C. Howden, the President of the Section, will deliver an Address.

Dr. C. M. Campbell will introduce a diectissich on the Uniform Recording of Post-Mortem Examinations in Asylum Pieports.

Drs. A. Fellowlees and A. Camplell Clark will introducc thè following subject: The Sexual and Reproductive Functions-Norinal nfid l'erverted-in Relation to Insanity. 1. Menstruation: its Commencement, Irregularities, and Cessation; 2. The Sexual Instinct and its Abuse: 3. Pregnancy, Parturition, the Puerperal Period, and Lactation.
Dr. Clouston will initiate a discussion on the Principle of Construction and Arrangement of an Asylum for Prisate Patients of the Ficher Classes.

The following Have promised papers: Drs. Savage, Hack Tuke, Fletcher Beach, Charles Nercier, W.J. Sickle, and Turnbull.

## SECTION F.-ANATOMT EtT Pirisloloay.

Anatomy Class Room. Pursiologr. President, Johe Cleland, M.D.,
M. Anatomt and Phriologr.-President, Jon, M.D.; IIenry EdLL.D., F.R.S. Vice-Presidents,. . J. Aocraries, John Barlow, Ji. ward Clark, F.F.P.A.G. EIonorary Secretaries, Con Barrett Lockwood, 27. Elmbank Crescents Uper Berkeley Street, Portman Square, W
F.R.C.S., 19, pper will introduce a discussion on the enching of Anatomy; and will show sections illustrating the Development of the Organs of Circulation and Respiration. The following papers are promised.
Bnooks, Henry St. John, ML.D. On the Morpholegy of the Eipitrochleo-anconens or Ancouens Sextus (Gruber). Brown. J. Mredonald, M.B., F.R.C.S. The Construction of the Cardiac Ventricles in the Mammalia.
Cleland, Profess il F.lR.S. On the Nature of Certain Forms of Double Monstrosity.
Collifr, Mark P. Mayo, M.B., F.R.C.S. On the Mechanism of the Feart and Pulse.
LANE, W. Arbuthnot, M.B., F.II.CS. The infinence Produced by
Strain upon Muscles and Ligaments (to be thustrated Py specment for the InMurray, K. Milnc, M.B., F.R.C.P.F. Thll Show an Armerparadic Ourrento on vestigation of the Action of Mensured Galranie and Parado Onitan Tissues.
Paterson, A. M., M.D. On the Position of thin Vertebrate Llmb, considered in the Light of its Innervation and Developmeni.

SECTION G.-PATHOLOGY'.
Lrw Class Room. Aitkerr, M.D., LL.D.
G. Pathology.-President, Sir William Aitken, M.D., LL.D., F.R.S. Tice-Presidents, Dlexander Davidson, M.D.: Jceeph Coats, N.D. Charles Roy, M.D., F.R.S. Honorary Secretaries, Gr. Sims Hoodhead, M.D., G, Marchhall Crescent, Edinburgh; J. Lindsay Steven, M.D., 34, Berkeley Terrace, Glasgotw. discussion on Cancer

Arrangements are being made to hold $\Omega$ disc, wich Mr. Lawson oricinating apart from Epitielial Structnres, in whl - 1 (Greenock), Tait (Birmingliam), Dr. Joseph Coats,
and others are expected to take part.
The following papers have heen promised.
Brcer, Alex., M.B., F.R.C.P.Edin. On Disseminated Sclerisin,

Coats, Joseph, H.1). On a Case of Lipxmia in Disbetes, with Suggeations as ors Sople ol the Pat:
to the Source of the Pat. Crookfo, G. F., 31.D.. Birminglam. (2) Canctum Oris Terminating Fatally Fwo Cases of Purpura Manemitha with Ilsemorrhagic Myocarditim. (1) On Antlirax in Swine. (2) On TuherCronkshauk; Professor Edgar, M.B. A) On Alk. (4) On 1 fuman and Borine culosis in Sirine. (3) Un Tubercular Cows atit. (1) On a case of chlosis in Stre Greves. E. Ityla, M. D. Bournemonth. Notes on the Pathoran Pseudo-bypertrophic foralysis.
Drlépinc, Sherldan, Esq. A Few Uncommon Forms of Sife
to be shown.)
Itretir w. M.D. On the Pathoiogy of Pernicions Anzemia.
Kinarid : -. On Case of Cystic Kidnays and Liver.
Mapotиe. E. D., M.D. Dublin. An Anomalons form Dacteriological CaltiveMAYLARD, A. E., M.B., B.S.Lond.
tha Experiments with Iodoform. NuNN. 1 .
of Cancerous Tard. M.D., M.J.C.P. Mydatids of the Splpen. Liver. and Braln. O'Coswor ThaEE, Benvers, M. 3. Lond., Medical Superintende Lepers,
lum. The Percentage of wormia
Russtar, Widiam, M.D. The hare also intimated then intention of
The lollowing gentlemen business of the Section by reading papers or otherwise: Professor Greenfield, Professor Roy, Professor D. J. Hamilton, Dr. W'íliam IIunter, Dr. Barrett (Edinburgh). Dr. McFadyean (Fdinburgh), Alex. Edington, M.B. (Ediuburgly), etc.

Demonstrations.-Dr. Alezander Bruce (Edinburgh) will gre a Masic Lantern Demonstration on Diseases of the Spinal Cal DemonAlexander Edington, M.B. (Le also being made for a series of Microstration. Arangements are also being made Tumours, Tuberculosis scopical Demonibtrations inustrative etc. Pathological Section of the Annual Museum. - Intimation has been received of the following exhibits for this Section of the Annual Iluseum : 1. Calculi removed by Lithotomy, by Professor George Buchanan. 2. Calculn reaored by Lithotrity or by Scoop, by Professor George Buchanan. 3. Miscemanan. namely. Bullets from the Body, by Protessor Ceored lessaries, etc., also Isolated Needles, Cases of Teeth, Impacted Rinoplasty; Wax Cast, hy Professor George Buchanan. 5. Bladder and Urethra showing False Passages. 6. Selected Specimens from the Private Collection of Professor T. T. Gairdner. 7. A Series of Specimens of Tumours of the Brain, by Dr. Joseph Coats. 8. A Series of Specimens llustrative of Diseases of the Kidneys, by Dr. David Dr. Beaven Rake Series of Specimens illustrative of Sections illustrating Malignant (Trinidad). 10. A Series of Large sections Specimens illustrating Deformities of the Liver, by Drs. Woodlead and Bruce. 11. Drawings and Sections to illustrate Diseases of Bone and Joints, by Mr. F. M. Caird (Edinburgh). 12. A Series of Specimens illustrative of Diseases of the lleart, by Dr. John Lindsay Steven. 13. A Series of Myomata of the Uterus, by Dr. Joseph Coats. 14. I Series of Bacteriological Cultivations. By the Pleura and Lungs, by Dr. George F . Crooke, Birmingham. As space for the Jubeum is sonewmat their intention without tending to send specimens should 13.D., 3t, Berkeley. Terrace, Crlasdelay to John Lindsay Steven, Sherion of Pathology of the Annual gow, Ho

## SECTION II.-OPRTHALMOLOGY. <br> Miduifery Clarss Roon.

H. Ophthalmology.-President, Thomas Reid, M.D. I ace-Presidents, J. R. Wolfe, M.D.; C. E. Glascott. M.D. Honorary Secretaries, Ilcnry Bendelack Hewetson, M. R.C.S., 11, Hanorer Square, Leeds: A. Freeland Fergus, M.B., 41, Elmbank Street, Glasgow.
Mr. Brudenell Carter will open a discussion on the Treatment of Senile Cataract. Drs. Prichard, Meighan, Mason, Teale, G. Anderson Critclaett, Dr. C. Lloyd Owen, Charles G. Lee, H. Bendelack Ilewetson, Esq., and others lave promised to take yart in the discussion.

The l'resident of the Section intends to gire a Demonstration of several Instruments of Use in Ophthalmic Diagnosis.
The following papers are promised. Bickertox, T. II... coma.
Gomas ays K. A., M.D. Colour-blindness, with a Demonstration of New Tests.
Tests. $H$ Bendelack, Eisq. General Neuruses lasving an Opithalmic 11 EWETSO
Origin. W. H., M.D. Ocular IEadaches.
Jessop, W. E., Two Cases of Foreign Bodies.

Mackar. George, M.D., Edinburgh. A Contribution to the Study of Memian opsia of Central Origin, with special reference to Aequired Colour Blindness. Mrishan, T. S., M.D., Flasgow. On the Treatruent of Symblepharon by Trans plantation of Mucous Membrane from the Lip.
Ievtos, J. C., M.B., Glasgow. The Value of the Cauteryin the. Treatment of
EIcerviton of the Cornea

## Section I.-Otology,

Biblical Criticism Class Room.
I. Otology.-President. Thomas Barr, M.D. Tice-Presidents, John Astley Bloxam, F.R.C.S.; J. J. K. Duncanson, M.D. Honorary Sccretaries, Johnstone Macfie, M.D., 23, Ashton Terrace, Glasgow: .lames Black, F.R.C.S., I6, Wimpole Strect, London.

The following special subjects have been proposed for formal discussion:

1. The Conditions calling for Perforation of the Mastoid Portion of the Temporal Bone, and the Best Methods of Operating; to be npened by Dr. F. M. Pierce, of Mauchester. Mr. Peter McBride has promised a paper on this subject. Dr. D. Stewart, of Nottingham, hopes to take part in the discussion.
‥ The True Value of those Aids to Hearing usually termed ". Irtificial Tympanic Membranes." Dr. W. L. Purves has promised a paper on this subject.
2. Adenoil Growths in the Naso-Pharynx ; their Influence on the Niddle Ear, and their Treatment. To be opened by Mr. Lennox Bruwne, F.R.C.S.Ed.

The following have promised papers.
Browne, Lennox, Esq. (Title not received.)
Torrasce, R., Esq. On Syphilitic Cochleitis.
WARDEI, Charles, id.D. (Title not received.)
Dr. Samuel Sexton, of New York, hopes to be present, and will gire a communication on Excision of the Drumhead and Ossicles.

## Section J.-Diseases of Children. <br> English Literature Class Room.

J. Diseases of Culldren.-President, Walter Butler Cheadle, M.D. Tice-Presillents. James Finlayson, M.D.; Henry Ashby, M.D. Honoraiy Secretaries, George S. Middleton, M.D., 23, Sandyford Place, Glasgow; W. Arbuthnot Lane, M.S., F.R.C.S., 14, St. Thomas's Street, S.E.

The following two discussions will take place:

1. Diphtheria: (a) Etiology. (b) Relationship to other Infectious Diseases, and to other Forms of Sore Throat; Occurrence on Open Wounds and on Mucous Membranes other than those of the Throat. (c) Diagnosis. What are the Distinctive Features, especially those Distinguishing the Lesion in the Throat from other Forms of Sore Throat? Does Membranous Croup occur apart from Diphtheria? (d) L'athology and Sequele. (e) Dedical Treatment. (f) Surgical Treatment; Tracheotomy; Tubage. The medical and general aspects of the subject will be introduced by Dr. A. Jacobi (New York), and the surgical aspect by Mr. R. W. Parker (London). Messrs. E. Owen, H. R. Hutton, Lennox Browne, R. N. Pughe, and Drs. W. T. Gairdner, George Buchanan, James Finlayson, Henry lshby. H. C. Cameron, D. Newman, Thos. Buzzard, John Macintyre, Alex. Robertson, and J. S. Cameron will take part in the discussion.
2. Rickets: (a) Etiology and Prevention. (b) Its Oonnection with Syphilis and Scurvy. Is Enlargement of the Liver and the Spleen always present, more or less, in Rickets; or only in Cases of Syphilitic Origin? (c) Medical Treatment. (d) Surgical Treatment; at what Stage, and in what Way?. Drs. Macewen, A. Ogston, L. W. Marshall, H. Ranke (Munich), Thos. Buzzard, Menry Ashby, and Messrs. R. W. Parker. H. R. Hutton, R. Hagyard, E. L. Freer, John Gordon, R. N. Pughe, and W. A. Lane will take part in the discussion.
Drs. Jacohi (New York), Keating (Philadelphia), Ranke (Munich), and Sann (Paris), and other members of the profession on the Continent have been invited.
The following lave promised papers.
Browfe, Lennox, F.R.C.S. Anatomical Facts in support of Intubation in Diphtheria.
Camerny.J.S., M.D. Etiology of Diphtheria, (1) Predisposition from Recent or Fxisting Disease, especially Scarlet Fever: (2) fntluence of Insanitary Surroundings, especially Rise aml Fall of Sutsoil Water.
in Glaspow, in the Bar. Evidence of the Dceurrence of Laryngeal Diphtheria Hangann, Robert, M. M.C.S. The Effects oi S
fangarn, Robert, M.R.C.S. The Effects oi Sunlight on Rickets in Cliildren
and in the Lower Animals.
LANE, W. A., F.IR.C.S. The Deformity of Rickets.

## Section K.--Pharmacology and Therapeutics.

Conveyancing Class Room.
K. Pharmacology and. Therapeutics.-President, James Morton, M.D. Vice-Presidents, John Dougall, M.D.; Theodore

Cash, M1.D., F.R.S. Honorary Secretaries, Alexander Napier, M.D., 3, Royal Terrace, Crosshill, Glasgow; Sidney Harris Cox Martin, M.D., 60, Gower Street, London, W.C.

A special discussion will be opened by Professor Theodore Cash, M.D., F.R.S., on Carbolic Acid, Antipyrin, Antifebrin, and their Allies, especially as regards their Antipyretic, Analgesic, and Antiseptic Actions. Drs. Walter G. Smith (Dublin), A. D. Macdonald, and Prosser James will take part in the discussion.

Dr. W. Allan Jamieson (Edinburgh) will show two cases of Xeroderma Pigmentosum.

It is expected that Professors Liebreich and Dujardin-Beaumetz will be present at the meeting. Dr. Dujardin-Beaumetz will contribute a paper on Phenacetin.

The following have promised papers.
Davison, James, M.D. The Pine Treatment.
Dougall, J., M.D.. Glasgow. (Title not received.)
DRYSDALE, C. R., M.D. 1. On the Therapeutic Value of Alcohol. 2. The 80 called Abortive Treatment of Syphilis.
James, J. Brindley, Esq. Scaries and its Treatment.
KERR, J. G. Douglas, M.B. Thermal Treatment of Acute Rheumatism, with a Short Ontline of the System pursued at Bath
MacDonald, A. D., M. D. Three Cases of Poisoning.
Pearse, T. F., M.D. The Treatment of Eezema.
Shoemaker, John V., M.D., Philadelphia. An Investigation of the Action of Naplıthol $\beta$.

## Section L.-Laryngology and Rhinology. Divinity Class Room.

L. Laryngology and Rhinology.-President, Felix Semon, M.D. Vice-Presidents, George Hunter Mackenzie, M.D.; Peter McBride, M.D. Honorary Secretaries, D. Newman, M.D., 18, Woodside Place, Glasgow; A. E. Garrod, M.D., 9 , Chandos Street, Cavendish Square.

The following subjects are proposed for special discussion:

1. The Use and Abuse of Local Treatment in Diseases of the Upper Air Passages. To be opened by Dr. de Havilland Hall (London) and Mr. Stoker (London).

2, The Causes, Effects, and Treatment of Nasal Stenosis. To be opened by Dr, Macintyre (Glasgow) and Mr. Creswell Baber (Brighton).
3. Hæmorrlages from the Pharynx and Larynx, and other Hæmorrhages which simulate these. To be opened by Dr. Percy Kidd (London) and Dr. Hodgkinsou (Manchester) (probably).

The following gentlemen hope to take part in the discussions : Dr. Prosser James (London), Dr. McBride (Edinburgh), Dr. Charles Warden (Birmingham), Dr, Cartaz (Paris), and Mr, Richard Ellis (Newcastle-on-Tyne).
The following papers have been promised.
Johnstone, R. Mackenzie, M.D. Account of a Case of Tumour of the NasoPharynx.
Pharynx. McBride, M.D., Edinburgh. On Hay-Fever and Allied Conditions.
MaCINTYRE, J., M.D. Anatomical Demonstration of the Laryax.
MacIntyre, John, M.D., Glasgow. The Use of Electricity in Diseases of the Throat.
Newman, D., M.D. Two Cases of Complete Laryngeal Stenosis produced by Wounds of the Larynx in Attempted Suicides.
Spicer, R. H. Scanes, M.D. (1) Clinical and Pathological Observations on Affections of the Tonsits (Faiucial, Lingual, and Pharyngeal) in the Light of Recent Yiews as to their Functions. (2) A Case of Lupus Vulgaris of the Upper Respiratory Tract-with Polypus (Lupous) of the Larynx.
WARDEN, C., N.D. (Title of paper not yet received.)

## ANNUAL MUSEUM.

The Annual Museum will be held on August 7th, 8 th, 9 th, and 10th, in the Examination Hall, Hebrew Class Room, and Chemistry Tutorial Class Room, of the University of Glasgow; and will he arranged in the following six Sections:
Section A.-Food and Drugs, including Antiseptic Dressings, and other Chemical and Pharmaceutical Preparations. (Honorary Secretary, R. S. Thomson, B.Sc., M.B., C.M., 3, Melrose Street.)

Section B.-Pathology, comprising Casts, Models, Diagrams, Microscopical Preparations, and Micro-organisms. (Honorary Secretary, J. Lindsay Steven, M.D., 34 , Berkeley Terrace.)
'. Saction C.-Anatomy, comprising Special Dissections, Methods of Mounting, Abnormalities, Drawings, Medals, etc. (Honorary Secretary, J. Yule Mackay, M.D., 34, Elmbank Crescent.)
Section D.-Physiology, consisting of Apparatus, Microscopes, Microtomes, and Nicroscopical Preparations of Normal Histology. (Honorary Secretary, J. McGregor Rohertson, M.A., M.B., C.M., 400, Great Western Road.)
SECTION E.-Instruments and Books, including AppliancesMedical, Surgical, and Electrical. (Honorary Secretary, J. Macintyre, M.B., C.M., 173, Bath Street.
Section F.-Sanitation (1) Domestic. Sanitary Appliances, em-
affection caused by the larra of diptere. It occurs in two principal forms-1, cutaneous: and, 2, intestinal myasis. The existeace of cutaneous myasis is universally admitted, but that of the intestinal form has frequently lueen questioned. M. Chatin lately showed at the Académie de Médicine some larre of the teichomy $=a$ fusca, found in the dejecta and in the matter vomited by one of his patients. The larve of teichomyza fusca, by, its peculiar organisation, is especially adapted to live in the intestine. It is able to collect a considerable quantity of fluid in which to breathe, owing to its unusually capacious tracheal system. It has only two pairs of stigmata, peculiarly arranged; the animal can instantly shut its posterior stigmata, which are attached to long caudal extremities. The anterior stigmata resemble the pseudo-branchia of the ephemerides larva. Some regard this arrangement as intended to allow of aquatic.respiration, when aërial respiration is prevented. The teichomyza fusca larve are remarkably refractory to asphyxia. They mill live for several days in water, oil, etc., or in the stomach of differtnt mammals, when introduced for purposes of experiment. Foreign bodies, however, of similar. aspect found in the organism are often mistaken for the larra of teichomyza fusca. 31. Chat in relates the following example. A whitish, elongated body was recently sent to him, as a larra of teichomyza fusca, for examination. M. Chatin examined it microscopically, and found that the tracher it presented were regetable and not animal. When dissected under a lens, the pseudo-larra prored to be a fragment of fruit incompletely digested. The orarian chamber still contained a grain; the double extremity was formed by the remains of the style.

## VIENNA.

[FROM OUR OWN CORRESPONDENT.]
Tubercle of the Iris.-. Teroderma Pigmentosum. PROFESSOR FUCHS recently brought forward a case of tubereulosis of the iris before the Imperial Royal Society of Physicians of Yienna. The patient, a girl aged $6 \frac{1}{2}$, had pres she had some time form fore been admitted into the Children's Hospital. After remaining there for four weeks she became affected with inflammation of the eyes, for which she was admitted into the clinic of l'rofessor Fuchs. The child had lived under very bad hygienic conditions in a room on the ground floor, into which the sun's rays never penetrated. She was fairly well nourished, and her parents were
healthy. Her grandmother, however, had died of pulmonary phthisis, and three of her sisters liad died of "conwumary, which may possibly have been due to tuberculous meningitis. The patient herself looked well, and was free from tuberculosis. The cornea was dim, and on its posterior surface there were signs of irido-cyclitis. The pupils were distorted. At the internal and lower part of the iris there was a tumour the larger end of which reached as far as the cornea. It was composed of numerous small nodules of a yellowish-red colour. There were numerous bloodressels on the surface. The turaour was not sharply linuited, but was prolonged into several other small nodules; some disseminated nodules were also to be seen over the front part of the lenticular capsule. Professor Fuchs believed the caso. to be one of tubercular disease of the iris. It was a rare form of the affection which he had, never before met with. cubercle of the iris ordinarily occurred under one of two was always iritis, rhich was produced by the nodules. In such a case the nodules might disappear, while others developed anew ; the iritis might complete its course, and the power of rision might be regained. In other instances, however, pupillary occlusion and, atrophy of the, eyeball supervened. This process usually affected both eres, and was seen only in young individuals. The conglobate form had another course. The symptons of inflammation trere absent, but a tumour developed only on one place, This varied in appearance, and it was impossible to say whether, it was a tuhercle, or a syphilitic neoplasm, or a sareoma. The tumour penetrated the cornea. so that it might be mistaken for a and the eye shrank to a small stmul. Con Graefe, who was the first to observe such a case, ennclented the eye. nnd Tirchow called the tumour a "gruuloma.", It was not until recently that such tumours were recognised to be conglobated iubercles. The case shown to the society oceupied a place between, these, trio forms. The iritis was a characteristic feature of the disseminated
form. In many such cases tuberculosis was also met with in other organs; in others only the eye was affected, while the submaxillary lymphatic glands might also be enlarged. Professor Fuchs knew a case in which after enucleation no further tubercnlosis developed. He thought that enucleation was indicated in his patient, as otherwise the affected eye might be a focus of
further infection.

Docens Dr. Riehl showed to the same Society a case of xeroderma pirmentosum. The patient, a woman, aged 61 years, had been affected from childhood with patches resembling summer rashes on the face and the arms. Eighteen years since the patches
became more numerons and darker became more numerous and darker, and a warty tumonr developed on the nose. The patient stated that her grandfather had suffered onom rery marked general pigmentation. . The woman now presented the usual symptoms of xeroderma pigmentosum. Dark and irregular pigmentations with numerous white scars were to be
seen on the face the neck the seen on the face, the neck, the chest, and the arms. The hands were affected only on their dorsal aspect, whereas the thighs and the feet were almoss free from pigmentation. Some angiomata and teleangactesias were noticed on the face. The atrophy of the skin of the hands and the forearms, and the dryness of the epidermis were very striking. The neoplasms which were characteristic of this disease, such as an ulcerating epithelioma on the nose and several tumours of the same nature on the cleeks, were also present. The process set in at an early period, when pigmented patches and small angiomata dereloped. At the age of
from 6 to 12 jears, epitheliomata hegan to develop out of the pigfrom 6 to 12 years, epitheliomata hegan to develop out of the pigmentations, which gradually increased in number and caused death. Fifty cases of xeroderma pigmentosum had already been reported by various authors, but the anatomy and etiology of the affection were not sufficiently known. The clinical gymptoms were rery well known since Kaposi's work, published in 1870. Kaposi laid much stress on the dryness and atrophy of the skin, whereas Geber, nsing the term "nævns," attributed most importance to the fact that the abnormality of pigmentation was congeuital. Taylor ascribed a greater importance to the presence of the angiomata, and, therefore, gave the disease the naine of "a angioma pigmentosum et atrophicum." Pick called the affection "melanosis lenticularis proorressiva," Neisser, "liodermia cum melanosi et teleangiectasiâ;" Vidal, "dermatose de Kaposi." The fact that the disease was frequently met with in children of the same family rendered the suggestion very probable that the affection was due to a congenital abnormality in the structure of the skin. The epitheliomata were not of the usual type, sometimes epithelial carcinomata, and on other occasions pigmented sarcomata were obserred. "Dr. Riehl's' patient , was the
oldest one affected with "xeroderma pigmentosum." Prooldest one affected with "xeroderma pigmentosum." Professor Kaposi remarked that the oldest case of "xeroderma pigmentosum" known to him was a boy, aged from 18 to 20 years. He happened to have at present under his care a girl who had suffered from the disease since the age of 12 . Her face was now much deformed. The chief feature of this affection was the melanosis. In such cases the papillary body also underwent an
atrophic process, and the atroply was so serere that it aave atrophic process, and the atrophy was so severe that it gave origin to the development of severe ectropion, so that the mouth
became distorted, etc. When the author published his first cases of "xeroderma pigmentosum" lhe did not know that carcinoma supervened in such cases. As to this, he had only observed it in the third child under his care. The girl now under his treatment scarcely presented any trace of carcinoma three years ago, but at present the whole left part of her nose had disappeared, and moreover, Professor Kaposi had removed from her alout thirty carcinomata with the sharp spoon. The patient was moreover affected with a papillary carcinoma on the right cheek, which had in the meanwhile been allowed to remain. The process in question was quite different from the usual melanosis, and little was therefore gained by the term "angioma" or "melanosis." The term "xeroderma" was not indeed the best one, but the atrophic character of the process was expressed by it, and when the adjective "pigmentosum" was added the whole character of the disease was clearly indicated.

## SWITZERLAND.

[from our own correspondent.]

## Perforation of Vermiform Appendix caused by Intestinal Concretions.-A New Surgical Soap.

At a recent meeting of the Société de Médecine du Canton de Fribourg, Dr. Buman read a paper on ulceration of the vermi-
form appendix, based on two cases which had been under his own care. The first was that of a boy, ged 8 , who was suddenly attacked with a sloughing alscess in the right groin, to die eiglit days later. At the necropsy, a perforating ulcer of the vermiform appendix was found, which had been caused by a hard concretion consisting of magnesia coated with mncus. Upon inquiry it was discorered that the boy had been suffering from havitual constipation, which his parents had treated by daily administration of magnesia in ever-increasing doses. The other patient, a boy of 6 , who occasionally suffered from passing attacks of colie, but was otherwise in the best of health, was suddenly seized with agonising abdominal pain, vomiting, and liccough. There was slight tenderness with distension in the right iliac fossa, and a slight degree of pyrexia: The bowels did not act. Three days later the boy died collapsed. The post-mortem examination revealed a perforation of the vermiform appendix by a hard and gritty stone ovoid in shape. In neither of the cases had the actual state of things been suspected during life. Dr. Buman dwells on the great difficulty sometimes met with in the differential diagnosis of such cases; but, strange to say, he does not say a word about laparotomy, either as an exploratory or a therapeutic measure. It is true that for this great step forward surgery is mainly indebted, to Great Britain and the United States-benighted countries "whose medical practitioners are so notoriously "inferion" that it requires some stretch of coudescension for wellregulated Swiss minds to recognise their scientific existence (see the Jovr ALI, March 31st, 1888 , p. 717 ). Still, Dr. Buman might, perhaps, with advantage bave strained a point in the preeent instance, and might have taken the trouble to show that he had at any rate heard of a methorl which has already given such hrilliant results in countries less favoured-academically speakingthan his own. Eyen in Switzerland such men as Kocher, of Lerne,
Kroenlein, of Zurich, or Senn, of Mil waukee (originally of St. Gall),
might have taught him letter might have tanght him better.
In the Revue Medicale de la Suisse Romande, No. 5, 188s, page 285, Professor Anguste Reverdin, of Genera, speaks highly of a "surgical soap" prepared after the following formula:-1, Oil of sweet almonds, 72 parts ; lye (Tessive) of soda, 24 parts; lye of potash, ' 12 parts; sulpho-carbolate of zinc, 2 parts; essential oil of roses, 9.5 parts. (Nem.-The preparation consists in slowly adding to and carefully mixing with the almond oil the lyes and the sulpho-carbilate part by part until an intimate and homogeneous misture is oltained.), The latter is kept for several days at $20^{\circ} \mathrm{C}$. The mass, which gradually acquires the consistence of
soft paste, is then divided into any soft paste, is then divided into any number of portions that may be desired, these are placed in snitable moulds, where they are kept till they are completely solidified. Professor Reverdin has been using this antiseptic soap since the summer of 1887, when he visited' Professor Bottini's clinic at Milan, Where it is extensively employed for various purposes. The soap is said to possess wonderful cleansing, as well as antiseptic, properties, and it does not irritate the skin, however sensitive or irritable it may be. Moreover, as the soap contains an excessive proportion of fatty substances, it does not dry the slin. The presence of potash makes the soap by far more active comparatively than a pure sodic soap, since, as Dr. Unna has proved, potash has a more energetic sol vent action on the horny layer of the cuticle than soda. Professor Reverdin recommends this soap not only for general use in hospital and private practice, but also for washing the hands in dissecting-
rooms and everywhere where the hands come in contact with decomposing substances. Further, he urges that barbers should universally adopt this disinfecting soap for their purposes, and thus protect their customers from rarious infectious diseases, to Which they are exposed in their shops. Dr. Reverdin has also obtained good results from this soap in various cutaneons affections. Finally, it is a very pleasant toilette soap, as he himself
and many of his patients and friends have found. and many of his patients and friends bave found.

## EGYPT.

[From our own correspondent.]
Lunatic Asylum. - Ramadan.-Sichness at Damietta.- English
Nursing Sisters for Kasr-el-Aini.-Cairo Jubilee Mremorial Nursing Sisters for Rasr-el-Aini:-Cairo Jubilee Memorial.
There is but one linnatic asylum for the whole of Egypt. It is situated at Abassieh, near Cairo, and seldom contains more than 300 patients. This speaks well for the general condition of the country as regards lunacy; but there are probably many people in the towns and villages of the interior who are afflicted with disorders of the intellect, chiefly idiocy. The other forms of in-

## CORRESPONDENCE.

THE MEDICAL OFFICEIRSHIP OF IIE.ALTII AT BRADFORD
Sir,-The circumstances under which an adrertisement for a successor to myself in the above office appears in the Jncranal are of sufficient public importance to warrant me addressing your readers thereon. The questions involverl include the conditions of tenure of office, the possibility of a medical officer against whom no charge can be hrought being deprived of his income through the personal enmity of the chairman of his committee: the position which the medical officer of Bradford is to occupy towards his committec and the inspector of nuisances, in a word the possibility of any medical man of integrity and independence, and with any self-respect, ever being able to hold the appointment, exeept for a very brief period, and with the certainty of disaster before
him. When I eane here five a good practice, an appointment of $£ 300$ per annum, hospatal apa gointments, a lectureship in the School of Medicine, and otlo offices indicative of the good-will of my fellow citizens-all the fruits of sixteen years hard work. I accepted the appointment here for five years, with the belief that re-election was certain if 1 did my duty; I have honestly striven to do so, no elaarge of any kind lias been preferred against me; but now I am dejrived oi my office, and of my incomse, and obliged to commence life once more after receiring such a wound. I formard you the account of the meeting of the Town Conncil, at which the Sanitary Committee's resolution not to re-appoint me was allopted. You will see that the chairman of that Committee eulogised my private and professional character, my devotion to my work, and ventured to make no charge or insinuate anything against me.

But, your readers will say, there must be some grounds for my losing my appointment. my treatment being nothing different competent person? The only reason suggested is "want of tact" in dealing with the Committee. my tact in dealing with all others, the public and the medical profession, being enrdially adinitted. No case is specified, no opportunity is given me of refuting any alieged complaint. Such it charge is, 1 protest, utterly inadequate and the manner of making it minust. not to say ungenerous; 3,000 ratepayers have memorialised for my reapjointment; they have not found me defective in tact, and express themselves as highly satistied with my official and private conMitchell, Sir'Jaeoh Behrens among them-and represented orer one-half the rateable value of the borough. The Bradford and District Tradesmen's Association, a powerful organisation, memorialised the council also; the whole medical profession of the town have warmly supported me, and publicly expressed their They hare also paid me the compliment of appointing me president of the Mledico-Chirurgical Society this year. Last year I was president of the Association of Medical Ofthcers of Health of Norkshire, and a couple of years ago I held the presidencs of the medical, scientific, literary, and Dical Officers of Health. Other similarly. I venture to argue that these facts a dence that I am not a person deroid " tact" so utterly eriwarrant deprival of my appointment, or of such general incom petence or unfitness as to call for my rejection. Ny" real "want of tact" has been that I have failed to conceal the sanitary defects and requirements of the town. I have reported on them to the eanitary authority as I am bound to do. My published reports are evidence whether, so far as they go, I liave reported with courtesy and "tact." These reports have becn most favourably noticed in the medical papers when they appeared. I hare several times reported against the 'pernicious custom of allowing excrement and filth of every kind. infected with fever and otherwise, to be used for forming roads and levelling-up for building purposes. My vicws on this subject have given great offence. it cost in the long run?

I have had to report that we have no proper provision for smallpox, though it is rery prevalent around us; and the three eases now in the town are obliged to be put in a ward intended for scarlet fever, ying within twenty yards of another ward occupied accommodation has been provided. I have liad to report that the disinfecting apparatus is practically useless, but no other has editorship of IIerren Fürbringer and Maln. The first number contains two articles by P'rofessor Senator, ono being on The Aims and Means of Medical Activity, the other on Icterus, its Origin and Treatment. It is published by Fischer, of Berlin.
heen got. 1 have had to report on a good deal of property unfit for human habitation, but which is still occupied. These and sinilar things have been the nudoing of me. Sly requirements would cost money, and hence were flateful. This was my real "want of tact;" but 1 lhave shown still less, of that quality in netually condemning piggeries belonging to one member of my own Committee, and a slaughter-liouse in which another was "interested." These things led to the bitter, unceasing, personal hostility of the chairman and certaiu members of the Committee. The former has long since declared that if "yon man" (myseif) were re-elected he would resign. That such an attitnde should be adopted to wards any official is bad enough, but when the feeling exists, as explained to me by a "friend" on the Committee, that if one of the two must go lie would support the chairman, then no medical oficer's post is tenable.
$\Delta s$ an illustration of how the department is worked here, I may say that I was but a few months here when 1 was told that nove of the inspectors wers to be considered muder wy control, and that the eliee inspector alone had any control over them. lit wished anything doue by them, 1 must address the e chief inspector. That official, $P$ soon learned. was the confidant of the clairman, who regularly frequented lis office. The estahlisilment of a staff of inspectors independent of the meedical officer naturally has rendered lisis work most dififcult, and his position in every respect unstistactory: It lied to the nuisance office being a rival establishment for the criticisn of the medical ofireer, and an propan-
tion of opinious for the use of the chairman and any other ildisposed person. That the medical otticer should be obliged to depend on the wishes of the nni sance inspector for the services of the employe of the department is suffcient to paralyse liis hands. These services, permitted with unwillingness, ceased practically to be available at all for the purpose of investigation of the sources of the disease and its propagation, and to the multitudininous other requirements of a medical officer giving his whole energies and time to the work of his department in a large town. The inspectors have, therefore, been solely occupied in the nuisance department, and the medical officer has had no assistance whatever in his work, sane a boy in the office at a salary of a few shillings a week. The suceess of this mancenvre in detailing the "nnisance" from the " medical" department quickly led to the demand by the Committee that 1 shouid personelly do such work as inspecting all dairies, cow-sheds, milk-shops, new houses (under a loeal Act), also e erery honso where nn infections case was notified, besides the numerosis inspections of market nuisances, unhealthy trades, etc., called for urgently by ratepayers every day. This 1 lave done single-handed. and the Committee has publicly declared that my work has been thoroughly done.
When I accidentally heard that the Committee had specially met to decide the question of my reappointment, $I$ addressed a letter to the members, in which. among other things, I expressed a wish to appear before them and face to face hear and answer anything which mighlt be alleged against me or need explanation. That letter, addressed to the Committce, was not brought to the knowledge of the Committee by the clairman.
No other officer of the corporation is appointed on the same precarions terms as the medieal offieer, and yet Parliament t thinks him so neesssary as an adviser that one must be, appointed by erery local board and corporation. Is it reasonable the appointment should be for the brief term of one or a few years, and that the medical officer slould dive in continual dread of disaster, if by disclarging bis duty faithfully he shall, oftend some member of his commit tee? Ought there not to be some authority to which a medical officer of health can appeal when unjustly. or cruelly treated? Can the present system continue to work to the benefit of the pullic when it may operate so disastrously, to the medical officer of health? Mine is not an isolated or exceptional case. Unfortunately there are other medical officcrs of health who have received treat ment of a similar kind.
No doubt many young men will eagerly seek for my post, with the conlidence of youth believing they can aroid every mistake made, and that they will be secure in their office. 1 believed so when I came here, and I had had five years' experience of municipal work in Sheffield before coming bere. It trust their hopes may not be disappointed, but would say to any candidate once in office here, Yon have burned your boats; reflect well before giving up practice, however modest. with independence, before surrendering yourself completely in the hands of men who will deliberately turn you off atter receiving your best services.--
Thow etc.
Tm

THE DEBATE ON ELECTROLYSIS AT THE OBSTETRICAL SOCIETY.
Sir,-As a non-speaker during the recent debate, I crave space for a few remarks I would have made had time permitted. I listened attentively, hoping to learn something, but the strong bias of most of the speakers, either pro or con., rendered the speeches less profitable than they might have been.
From all sides it is agreed that the action of the anodal pole is antihæmorrhagic: at times a simple application to the nucous membrane suffices, at times galvano-puncture, which is made by the cathodal pole, and the subseqnent introduction of the positive needle is necessary. Admitting this hemostatic action, let us think of allied hæmostasis, and understand, if we can, how the effect is prodnced. In aneurysmal tumours we have records of several cases of solidification and cure after electro-puncture. The blood is coagnlated, the through current is thereby arrested, fibrin is deposited, and more or less shrinkage and absorption results; but the introduction of watch springs, of horsehair, etc., effects the same results, and the question arises whether it is a mechanical or an electrolytic action. I am aware that I now expose myself to the too frequently iterated accusation of ignor-
ance, or of comparing dissimilar things. It may be said that in ance, or of comparing dissimilar things. It may be said that in aneurysm small plates are used, both needles are introduced, that
an unmeasured strength of from ten to thirty cells is employed, an unmeasured strength of from ten to thirty cells is employed,
and that there is a continuaus action, lasting twenty or thirty minutes, so that this must be regarded as wbolly different from the technique of Apostoli, of Keith, or Steavenson. 'So it is, and when we hear of 250 , 500 , or 1,000 milliampères being used, we are ready to concede a probably total different result; yet that, in but a different degree, the theoretical explanation must needs occupy much the same platform is also true. We must freely admit Dr. Steavenson's contention that in electrolysis we have a cleanly and elegant though tedious canstic.
The action of the negative pole as an actual destroyer or remover of tissue is unquestionably the point on which depends the future of the electrical treatment of fibroids. If fibroids decrease under its use-and I for one admit that in some measure they do, as the authority of Dr. Keith, of Sir Spencer Wells, and of others is enough to convince me that certain fibroids are les-sened-it is needful to know something more of this action than we now do. Some assert that only the soft, that is, the minscular or other non-fibrinised elements of fibro-myomata are resolved by the electrical treatment; others allege that diminntions of muscular elements occur alternately with increases in the absence of all treatment, and no one who has had a case of fibroid under observation for some years can deny this latter statement; but the negative pole is supposed by others to convert the fibrinous mate-
rial into a softer and more readily-absorbable substance without rial into a softer and more readily-absorbable substual necrosis or sloughing. Well, if this could he proved, we shonld have' a'very distinct pathological basis for electrical therapeutics; but is it so? Can this be demonstrated? Some patients are doubtless greatly benefited, others are very little
better, and that only temporarily; yet after all an ounce of practice is worth a pound of theory ; if we can derive benefit without knowing why, is it wise to reject it?

Now it is readily conceivable that inter-mural fibroids may derive good from electricity, but this is not the class requiring new methods. It is in intra-mural or interstitial or in extra-mural tumours in which the uterus lies fixed low down in the pelvis, and in which severe pressure or hemorrhagic symptoms occur, in many of which cases no reasonable operation can be employed -that we look to electricity for aid. Although we may not be able to cure, if we can relieve symptoms, if we can even temporarily lessen certain tumours-although the procedure may be tedious, expensive, and in some perchance difficult and, beyond all, uncertain-in these cases there will exist a futnre for electrolysis. But to adopt as proved all that has been alleged for this method, to accept as permanent certain ameliorated conditione, we require time and experience, as yet deeply hidden in the future. Dr. Champneys's plen for extended consideration was amply justified by all we have yet learned.
It is no question of this man's bias or that man's interest, of this mun's apathy or that man's enthusiasm, of this man's skill as an electrician or that man's abilities as a surgeon. It is simply a question of the worth or worthlessuess of. powerful but regulated currents of electricity as a reliable controllable curative measure in treating fibroid tumours. We ought, from the history of gynæcology, to be very indnlgent to new methods, to wait

June 30; 1888.」
patiently, to work quietly, or to watch others carefully, ere we determine to accept or reject what none of us know very much about. This done, let us calculate the difficultiea and dangers, weigh them well against the clearly-acknowledged benefits, if such there be, and remember that what is good will remain, and what is false or redundant will unqueationably be swept away.I am, etc.,
Beaufort Gardens, S.W., June 22nd.
PARONYSMAL SNEETING.
Sir,- Thave read the very interesting remarks on this affection by Drs. linger and Murrell, and have long considered that the terms "hay-fevcr" and "hay-asthma" "ere very misleading as apsome time ago I had under observation a very peculiar and remarkable case of this description. The patient was h single lady, aged 38. About eighteen years ago she hat a cold bath during a menstrual period, and since then had suffered from "perpetual colds," always aggravated in winter by the most trifling canse. There was a small tender spot over the right lung, and she at one time coughed up a little blood, but attached no importance to it. lids, which a sense of fulness over frontal sinus and the upper eyelids, which was always intensified by colds, and momentarily re-
lieved by the free disclarge that invariably succeeded. The voice was of a nasal character, the freces were relaxed, and the right Eustachian tube was chronically inflamed. The sense of smell was much impaired, but was always more acute after daily discharge had ceased. On rising in the morning there was a free watery discharge from the nostrils, often sufficient to saturate a dozen handkerchiefs, and on one occasion as many as two dozen. The discharge was not usually preceded by sneezing; it came on without any apparent cause, and was only materially influenced ly low and damp situations, when it was usually much more than usual. The patient was very seldom troubled during the day, and the discharge nearly always came on whilst rising frem bed.
It is very hard to sny what the exciting cause was in this casepossibly duat; but at all events, whatever it may have been, it simply reacted on the extremely sensitive nerve filaments supplying the nasal mucous membrane.
This lady consulted a great many eminent specialists, but without deriving any beneht, and ultimately was virtually cured by the systematic employment of compressed air. She was placed under pressure of seven pounds (nearly one atmosphere and a half) to commence with. After a fortnight the pressure was raised to ten pounds, but never exceeded that amount. On the fifteenth day there was a decided improvement, the discharge was much less and thicker, or, to use her own words, "like towards the end of a cold." At the end of a month (twenty-firat time) she was practically well; there had been no discharge whatever for some clays, and she felt for the first time as if "conscious of the existence of a brain." At no time did she experience any inconvenience, except during the first two days, when she complained of sight pain and fulness in the right Eustachian tube.

Thave not heard of any cases of this nature similarly treated, and believe that the method now employed deserves more extended trial. Compressed air has a powerful sedative influence on the nervous system, and especially on the nerves supplying the
mucous membrane of the cises yery importe of the air passages. In addition to this it cxercises very important mechanical effects, which act very beneficially in chronic catarrhal conditions of
Hassage was also employed in this case, but more on account of its general tome effects than anything else.
The patient writes, two months after all treatment has ceased: "I feared that the distress and anxiety (alluding to domestic troubles) would bring back my running cold, but happily it has not done so, and I feef how much I have been strengthened to bear it all as I have done."-I nm, ctc.
Liverpool.
T: Gerald Garry, M.D., M.Ch.

THE NEW SYDENHAN SOCIETY.
Sir,-I shall be much obliged if you will allow me a few lines, in order to explain to members of the New Sydenham Socicty the present state of onr year's issue. We shall be (for the first time) a little behind-hand. The year's series' ought to be complete' by the end of June, but from unavoidable circumstances, it will not be so this year till the end of July, or it may be alweek or two later. Two yolumes are yet to come. They will be sent out to-
gether almost immediately. Our members have received for this year the firat volume of Spiegelberg's work on Midvifery, and a fasciculus of the Lexicon of Medical Terms. The two works which are not yet out, but which are nearly ready, are a fasciculus of the Atlas of Patholony and a volume of selected essays. In the latter are comprised Raynaud'a two memoirs on the disease which now bears his name, translated by Dr. Thomas Darlow; two essays ou Malaria and Melanemia translated by Dr. Drummond from Italian sources; and Neugebauer's last memoir on Spondylolisthesis, translated by Dr. F. Barnes. Thas the year's ifsue for I887 will be complete in four works: As regards the preparations for next year, it will be satisfactory for our members to know, that the accond volumo of Spiegelherg's Miturfery ls almost finished printing; and that a volume of Chercot's Clinical Lectures and a fasciculus of the Lexicon are also well advanced.
Our annual meeting will be held at Glasgow during the meetings of the British Medical Association. I am at all times glad; on behalf of the Council, to receive suggestions for new works, to be submitted to its consideration, and especially 80 in anticipation of the annual meeting. - I am, etc., Cavendish Square.

## Jonathin Hetchinson, Honorary Secretary.

## MODERATE DRLNKING

Sir,-Dr. Isambard Owen, in Appendix $C$ to the Report of the Inquiry into Disease and Intemperance, says he believes no detalled report has been published of the remarkable statistics of the United Kingdom Temperance and General Provident Institution. Will you permit me to somewhat aupply. Dr. Owen's omission by giving the figures that have been issued, whioh form an nence over moderate drinking. The period is 22 yea absti1887 inclusive. There are two sections of the assured, ane for abstainers, the other for the general public, drunkards being for cluded.

| ded. | Temperance Section. |  |  | General Sectiou. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Expected |  |
|  | Death9. | Deaths. |  | Deaths. | 944 . |
| 1866-70 (5 years) |  | 411 |  | 1,268 | 1,330 |
| 1871-75 | 723 | 51 |  | 1,485 |  |
| 1876-80 | 933 | 651 |  | 1,480 |  |
| 1881-85 | 1,179 | 83 |  | 1,013 | 700 |
| 1886-87 (2 years) | 553 | 390 |  | 713 | 700 |
|  | 3,937 | 2,796 |  | 6,144 | 5,384 |
| am, etc., |  |  |  | man her | II.D. |

June 23rd.
RESECTION OF THE TARSUS.
Sir,-A case of resection of part of the tarsus for disease by Sir Wm. Mac Cormac, published in the Journal for May 8th, with the remarks that have been made upon the operation, lead me to make the following comments upon the best method of treating such cases by operation. In Sir W. Hae Cormac's case the condition of the parts removed is not recorded. It may be taken for granted that disease of tho tarsus is very commonly met with in two positions: First, disease of the os calcis, which may extend to the posterior calcaneo-astragaloid, or more rarely to the cal-caneo-cuboid joint; and, secondly, disense involring the anterior calcaneo-astragaloid and its prolongation, the astragalo-scaphoid joints. In this second case, the mischief may spread around the astragalus and attack the ankle-joint, or, travelling in the opposite direction, may reach beyond the scaphoid and involve the common tarsal sac. These are prohably the conditions of disease most often met with. Where the os calcis alone is involved, removal of that bone is an excellent and successful operation. Where the astragaloid jointa and common tarsal sac are diseased most surgeons amputate by Syme's method or remore the whole foot. this, but better atill. I think ition is no doubt an advance upon this, but better atill, I think, is the plan of making a transverse
incision across the dorsum of the foot (Holnes), dissecting out all the tarsal bones with the exception of the back of the os calcia, removing the bases of the metatarsal bones, and, if necessary, the lower ends of the tibia anid fibula together with all tuberculons material. The cut, tendons are then sutured together, the fọot fixed in its natural position, and when healing has taken place, a foot small and, short, it is true, but.still a foot both in shspe and function, remains. It is moresightly than an "equinus foot" and infinitely better than the stump of a Syime. "The exad amount of
bome taken away varies with the case, but it is far better to take away all than to leave any disease. In none of my cases have I raken away the whole of the os calcis together with the rest of tho tarsus; but since, after subperiosteal resection of the os oalcis alone, we usually get a very perfect reformation of the beel, I should not hesitate to do so rather than amputata In a paper in the Medionl Chronicle for 1886, p. 460 , I have already discussed the quastion and published some cases with illustrations, and since then I have operated on other patients. One of my coldeagues, Mr. Thomas Jones, has also operated in this way, and I have had much reason to be satisfied with tarsectomy for disease. 'There is no occasion to attempt any adjustment of the bony surfaces. They may beleft to themselves, and as repair takes place a firm, mobile foot results. It must be very rarely that the eperation described by the Russian surgeon exactly meets the case, for it does not follow the hines most frequently mapped out by disease-I am, etc.,
G. A Winght, M,B.Oxon, F.R.C.S.

Manchester.

## LIADILITY FOR DEFECTIVE DRAINS.

Sin,-With reference to your paragraph on the case ef Hutler $v$. Goundry in the Journaf of June 23rd, it seems to me that it ought not to be necessary for a special deciaration to be made as to the condition of the drains. When a house is let to anyone, it would be just as reasonable to expect a guarantee to be given as to the condition of any other pirt of the house-for example, the gas pipes, the stability of the chimney stacks, and the perfect fitting of the doors and windows, etc. When a landlord of his agent lets a house, he cught to be responsible for the torsequences of all structural defects, and he should not be allowed to plead ignorance; he ought to make it his business to see, that everything is in perfect order. He lets the house forpurposes of gain, and he ought to see that no harm can affect the tenant from anything that is under his (the landiord's) control. "This applies very specially with regard to drains. They are an essential part of the house, and it ought to be a crime for a landlord to let a house with the drains in a bad state, or who pleads iguorance of their condition.
I would go further. I think that local sanitary authorities should see that the drains of all new property are constructed in the most perfect manner. This should not be left to the fancy of the builder or the owner. They should be examined and tested by the sanitary authority and a certificate given, and all new additions should be similarly certified to. The owner should still be the responsible party, becanse drains require to be kept in good order; and he is the party to see that this is done. - Yours, etc.,
F. W. Jordan, Medical Officer of Health to the Heaton Norris Local Board.

## ON THE ADMINISTRATION OF AN ESTIIETICS.

Sir,-Sir Spencer Wells, in his paper on "Methylene and other Anesthetics" (in the Brirish Mrdical Journal of June 9th, 1858), remarks that, on trying some samples of methylenchloride, manufactured by Riedel in Berlin, the tube of my apparatus, with which it was administered, speedily became closed by a sort of snow, thus rendering impossible the continuation of the narcosis.
When I first devised, twenty years ago, my apparatus for the administration of bichloride of methylene (which is manufactured by Messrs. Krohne and Sescmann, 8, Duke Street, Manchester Square, W., the original makers), I also tried other anæsthetics. I signally failed with ether, on several occasions, in the Samaritan Hospital, from the same cause as Sir Spencer with Riedel's preparation. I had scarcely commenced whencer the tube became closed by an icicle protruding into the face-piece, and the side-holes of the top-ventilator were likewise covered with a thick layer of ice. I explained this phenomenon in a similar way as Professor Bardeleben did in his letter to Sir Spencer. The aqueous vapour with which the breath is always more or less charged was converted into jce by the freezing action of the rapidly evaporating ether. My apparatus is, therefore, utterly unfit for ether and similar too volatile preparations.

It is, however, perfectly suitable for chloroform, and has been used for this purpose in the Samaritan Free Hospital, and in many surgical clinics in Germany-namely, in Berlin, and especially in Leipzig, by Professor Thiersch, where the bellows are worked, as also those of the spray and similar apparatuses, by hydraulic pressure fitted up in the amphitheatre.

Professor Rose, formerly in Zürich, at present at the Bethania

Hospital in Berlin, who, in all operations in the face and in the throat in which there is danger of blood passing into the traehed, always places the patient on his back with the head hangitg down over the edge of the table, states that he was only enabled to continue an uninterrupted narcosis during the whole operation by the aid of my apparatus. After the patient has been bronglit under the full influence of chloroform, the face-piece is removed, and the tube is iutroduced through the nostrils into the fauces, and in that manner the anæsthesia is kept up. He latterly devised a bifurcated piece of india-rubber tubing, which is joined to the original tube, and its two branches are inserted into both nostrila,

Dr. E. Field, of Dath, writes in the Jounivat of June 16 th; that he once failed to bring a strong man under the full influcice of methylene by using my apparatus. That mist have been ait exceptional case, which never happened either to Dr. Day or to me. Maiy years ago I gave methylene with this apparatus for Sir phencer to a publican and ex-prizefighter. I brought him without any difficulty into deep narcosis. I mention this case because I consider it a fair test. Prizefighters surely are strong men, and publicans, as a rule, not abstemious, This patient, at any rate, was not. It is a well-known fact how difficult it is to narcotise individuals addicted to strong drink.-I am, etc.,
J. A. Junker, M.D.

30, Hyde Park Place, W̌., June 16th.
SETTING-UP DRILL AND HEART DISEASE.
Sir,-In reference to Surgeon-General Maclean's letter, with the labours of Surgeon-Major F. A. Davy the name of SurgeonMajor W. E. Riordan should be coupled. In the latter officer's work on "Heart Disease and Aneurysm in the Army, Dublin, 1878," the effects of setting-up drill and gymnastics are frequently alluded to, especially at page 35 .
This book, if not published before, was anyway in the press when Dr. Davy's observations appeared in the Blue-book. The most accurate clinical observations and the most valuable will be found in Brigade-Surgeon Veale's paper in the A. M. D. Report, 1880.J am, etc.,
A. M. S.

June 26th, 1888

## ON HYDROPHOEIA AND ITS TREATMENT.

Sir,-Mr. Y. Ilorseley, in the Journal of June 9th, relates some experiments, in cases of rabies, with the hot-bath. In his naper he says, "There is no single case of reputed cure of developed hydrophohia, by drugs or other means, that will bear investigation." I suppose that statement cannot be gainsaid; but are any cases published in which the symptoms were thought to be due to the poison of rabies, such symptoms being only the incipient signs of hydrophobia, in which recovery took place? If such cases have been met with, it would lead us to believe that hydrophobia may be recovered from, although there is no recovery when the worst symptoms are fully developed. It must be remembered that it is only a small percentage of those bitten by rabid dogs who exhibit signs of hydrophobia, while cases are rocorded in which hydrophobia followed bites inflicted by dogs which showed no signs of rahies. While practising in Lancashire I treated a good few bites inflicted both by rabid and healthy dogs, only one of which gave me any anxiety afterwards. I had given up applying uitrate of silver to bites, haring come to the conclusion that it did nothing but harm, and was in the babit of merely encouraging the bleeding, and healing the part as quickly as possible by the help of carbolic acid. The case which gave me some anxiety was that of a boy; while playing in a field with other boys, a retriever dog, which was enjoying the fun, bit him on the thigh through the trousers. Hardly any blood came from it, and no dressing was needed.
Some time afterwards, early one morning, a message came for me to visit the house where the boy was. No particulars were given, but I had some suspicion that it might be the boy, and before going I turned up my day-book to ascertain the exact date on which he had been bitten. It was exactly that day six weeks, which did not allay my suspicion. When I reached the house I inquired who was ill, and found it was the boy. He complained of pain in the bite, which had kept him from sleeping. The place was quite visible, and it was tender to the tonch. I could detect nothing else wrong with the boy. I ordered him to be put into a hot bath and to be kept in bed till I saw him again. The pain left the bite that day, and he had no other symptoms. Is it passible that there may be cases which show other symptoms
more marked than mere pain in the part bitten, and whiflh nevertheless recover?
The resemblance between hydrophobia and tetanus is so marked that a closer study of particular wounds, as to their rature, locality, and effects upon the nerveus system, may as
arriving at the true pathology of hydrophobia. -1 am, etc. arriving at the true pathology of hydrophobia. - Jors Hadnow.
Meros,

## NAVAL AND MILITARY MEDICAL SERVICES.

TIIE " NON-EFFECTIVE" LIST.

A " non-lifuective" correspondent affirms that in the June Army List there are ne less than $10+$ medical officers on the retired list, of whom a considerable number are now actually employed at brigade depôts and elsewhere, and the rest are "lable to be re-
called to service" in any national emergency; yet these bona fide ealled to service" in any nationantedergency ihose entirely " non-
reservists are ignored and counted among effective" by the Fstimates Committee and other critics of the medical vote. He asks, "Why should they be classed as noneffective?" "Why, in the face of such a reserve, should a misleading ery be raised about ' 38 per cent. being non-effective charges?'" "Perhaps," he suggests, "it is to harrow the feelings of the taxpayers!"
We will not go into probable motives, but we have already pointed out that the attitude of hostile critics in suppressing ail mention of the only real reserve of medical oflicers is very suspicious. We hope the friends of the department in the llouse will not lose sight of this when the medical vote comes up.

## volunteer medical reserve.

Surgeon A. writes: 1 think yonr answer to the third portion of "SurgeonMajor's" question, in the JoirrsAL of June lbth, is nat quitc carrect. Section 355 , Part iii, of the Mancal for the Medical staff Corps refers to a bearer compaiy, and not to regimental stretcher bearers, wha are differenty urkanisher,
 in cluse order t this has always been the cuistomt
1 am wrong shat be wether the coeked hat is abolished or not?
${ }_{*}^{*}{ }^{*}$ 1. There are no instructions for the guidnuce of reginental stretcher ${ }^{* *}$. . There are no instructions for the guidunce present custom of marching past with stretchers will continue until regi$\frac{\text { present custom of marching past with stren }}{\text { mental transport is provided for volunteers. }}$
2. Medical officers of volunteer corps will wear the uniform of their respecttive corps with the exception of sword belt, pouch belt, and ficld pouch. Medical ofheers of voluntecr corps are permitted to wear the oocked hats, thelts, and fouches at present in possession, until they require to be replaced (Vol. Reg. 11557, Part iv, Section ifis, para. 10.44). It is not stated del
that the helmet is to be worn, but such is the conct OFFICERS OF THE
GRIETANCES OF OFFICERS OF THE A.M.D.

1. 2. writes: I observe in the Honeward anal that a weightymenorlaito farmament in farour of the existing rules for cantorment lndir. Suppose ofticers been signed by more than one hundred doctors, in a "uelghty memorial to of the A.M.D., taking this as a precedent, signed a "helghty memorter by the Parliameut," setting forth their krievances, wo 1 trow not. The aggrieved powers that be, as the former must have been? officers would very speedily be tok that such action one case the Indiun metion, and it would be put down at once. Iet mory in the land ; on the other norial is against a clecision of the highest numorich is subject to Parliament. the uppeal is made against a mere depart ment which is subject to firal oficers. Why should a memorial to Parliament, signed by a
be allowatle in the one case and not in the other ?

## STATION HOSITTALS IN INDIA

A correspondesif sends us the following Circular Memorandum, issued by the Commander-in-Chief in Iudia, expressing his gratification at the success which has been achieved, chiefly through the excrtions of the medical officers, in increasing the amenity of station hospitals, and thereby mitigating the terrible monvtony of the sick soldier's life in Indin. We are beartily glat such endenvours fiud due recognition in high quarters. But why shouk "funds, however small," for surh objects conte from station sources? liase the Government of India no duties and responsibilities in humane exertions of this kind?

| No. 1930 | Office of the Adjutant-Genersi in Ladia, headquarters. |
| :---: | :---: |
| Hospitals. | Simla, May lith, 1883. |
| the Adjutant-General In Iudia to Gemera Divisiona and Districts and Offeremmanding Stationa, |  |
|  |  |
| Circular Memorandum. |  |
| The Commander-in-Chief, at his inspection of station comforts of the sick by |  |
| observe that very much has fol in a manner which is not, and cannot be, promaking the hospitals cheernere is hever still grat inequality in the comvided for by regulations. There is, however, still great inequald inat withoub |  |
|  |  |
|  |  |
| fort of hospital buikdings, and Itis lixcellemey has obsmmanding ofticers on |  |
|  |  | fort hosuital buiklings, ant Itis excellency his comandingo oficers on cordial ev-operation between stativn and reginentan common ond

the one hand, and medical offickrs in charge on the other, there is a lisbillt $y$ to failure. The buildiags cannot be made comfortable withont some extra expenditure, and, however small the requirement in this reapect may be, the funds must come from station sources. There are many means of providing these: and 16 lis licellency experience is lats when the aillingness to furnish the means of ralsing those funds when the authoritles work together and kive facilities.
Itis Jixcellency commends the \}mprovement of hosplals to all codcerned. and hopes that the very great sucess wirich has been achieved in not a few and hapes may sonn become nuliversal. Findness and attention to the wants of atations may sombechare monch a part the nature of Finglishnen and English women the sick are so much a part of the nature sufficient simply to bring the subof all ranks, that sir F. Soverts feels it is sumbith slek soldiers in Indla to ject before thuse who are in close association with sit that this Circular may Insure the heari $y$ eo-operation of alions where British tronps are quartered.be made genterny known yajor-General, Aljutant-General in India.

PROTEST BY RETIREMENT
Traitia wites. Allusions have recently leen made in the columns of tho Justris writes: Allusions have rech which resulted in the retirement of a Jounsal to the injustico of the decision wich resuped to be generally buuwin surgeou-genersl from the service, but adopted to bring suout thit end. The how unprecedented were the means Bermuda. an appointment always hefore officer in question was ordered to Bernuda, Rn appointment he could not and nuw held by a deputy aurgeon-general. he such of the $\mathbf{M}$ edical Department aubuit, and accordingly he retired. That the hein of the worst enemies cannut ahould lema himself to such a course of action (for ins worsiversal regret. A believe that he origimated it) will be the subject of universal regret A parallel case in tho combatant branch of the serice wof be colonel's com-parajor-general from his command and the appointing him to a colonels com-major-general from his command and cont colonel in his district had failed in his mand on the grounde that a hicatemant accorded to the two branches of the duty : How different is the treatmene ace scen the incompetent keneral reaerrice! While we have not infrequenty scen enpetent surkeon-general uan he warded, we now have an example of how a competent surg to desire that the bullied out of the service. The auhhorities woud seem which o genticman Me elical Staff of the army should no longer be a serve. If thic be thels cod who expects fair and honourable treatment they are going the surest way to attain lt.

## THE NAVY.

The: following appointments have been made at the Admimity:-FicetSurgeon, W. H. Srewail, M.B.. and Surgeon Gurgeon C. J. Massfeld (lent) to the Jorthanpion.

TIE NAYAL VOLUNTEERS.
31. Dayid Carrys, M.D., is appointed surgeon to the Clyde Brigate of the Royal Naval Artillery, and Messrs. E. H. Bedmas, Arigade.
OWEs to be Hovorary surgeons to the Liver
THE MEDICAL STAFF. January 31st, ISsj, has
SURGRor F. A. C. Smith, who joined the service on January 31st, issj, has resi

## $1866^{6}$.

irgeon W. G. Macperersor. M.B., and R. J. S. Slmpson. M.B., both serving Bengal, have passed the examimation in Persian by the higher standard. Brigade-Surgeon A. F. Chl'rcmble M.D., and Surgeons W. H. Plsches and G. S. TATE, M.D., who are serving in Bengal, have passed the examination in IFindustani by the lower standard.
Surgeon G. Wilson, IH.B., serving in the Bombay command, has leave of absence for six months on medical cert ificatc.
absence for six months on medial F. CExGE, who was serving in the Bengal It is reported that surgeon of his servants, has been buried in an avalanche in command, Kulla, in Kishtwar. Kashmir.
brigade-Surgeon II. F. Patkeson, MLD., F.J.C.S.Edia., is promoted to we Deple 12 . Hungerfurd. granted reDeputy Surgcon-General (ranking as Colonel) Assistant-Surgeon. October 19th. tired pay. Dr. Paterson entered
 and Brigade-Surgeon, April 23 b ant ster. JIe tas no war record.

Brigale-Surzeon James Paxton, M.D., is granted retired pay. His conimisDrighar date: Assistaut-Surgeon, April 2-nd, Noss ; Surgeon, March lot,
 Surgcon-Major. April
the lhussian war in 1555 he served with the Baltio expedition, and receivad the the lussian war
medal therefor.
Surgeon-Major W. T. Martis, M.D.. is promoted to be Brigale Surgeon, vice If. Knages. Hrantal temat-Cutonel are latel: Assistant-Surgeon, April lith, leais: Surgcon,

 forms us that he served through the Abssinia in September looit, and which
 he acompanied through surious experitions artewals Secretary to the Prinfor troops from the seat to the highants; was afterwards secraters Stafr at the cipal Medical Ofticer of the force and present wht the fanq Servel with the capture of Magdala (nentioned in despatehes, inm medus). Server rhuthout Burmese expedition in losi on the jersonal stan of Sir Cluzfes arbanot (medal will clasp).
Surgeun-Major Avgustig Morpien has been grantel relired pay. 110 entered as Assistant-Surg.on January lath, lisb, becante Surgion June lith, 1atil, and Surgeon-Major March lst, leiz. Dle was principal medical officer
 the capture and destruction on Massongha on December luth, atorming and destruction of the stockades and war teaces at Madunkia on December
 Fith, of the Fetish town uf Robea un December -th,
Jefemba and Majohn on January lith, 18i3 (n
ARMY MEDICAL HISSERVE.
The mudernentioned othicers to be surgeonther (rinking as lieutenant-Trlonels)- Surgeoth-Major Maldulvsos ath Matarion the Reyal hisu


Buffs, the Duke of Albany"s) (tate the 1st Ross-shire) ; Surgeon and Ifonorary Surgeou-Major J. Crask, M.D., F.R.C.S.Sdia., 2ud Volunteer Battalion the Sonth Staffordshire legiment (late the 3rd Staffomd).
The undermentioned (fficers to the surgeons-major (ranking as majors):-Surgenn-Major T. F. Greevwoon, th Battalion the Sherwood Foresters (Derbyshire leaiment) (Inte the 2nd Nots): Surgeon R. R. Baown, 3rd Volunteer ( $\mathrm{K} m \mathrm{n}$ t) Brigmile, Cinque Ports. Division lloyal Artillery (late the 1st Royal Artillery).
The undermentioned officers to be surgeons (ranking as captains):-Surgeon and Hon. Surgeon-Major J. A. Wiatson, the London Division Volunteer Medical Staff Corps; Acting-Surgeon G. R. Gilruth, 1st. Edinburgh City Artillers Volunteers; Acting-Surgeon J. S. Wilson, M.D., 2nd Volunteer Battalion the Sout h Staffardshire Reginnent (late the 3rd Stafford); Acting-Surgeon G. 1I, Turnnuki, M.D., 1st Roxburgh and Selkirk (the Border) Rifle Volunteers.

Surgeon Henry Tompkins, M,D., Th Lancashire Artillery Volunteers, to be Surgeon (ranking as Captain).

## THE INDIAN MEDICAL SERVICE.

Streeor A. W. Dawsor, M.B., Beagal Establishment, is appointed to the officiating medical charge of the 5th Dengal Cavalry, vice Surgeon-Major H. Hamilton, M.D., transferred temporarily to civil employ.
Surgeon J. G. Jonnas. Bengal Establishment, is appointed to the ofticiating medical charge of the 16 th Bengal Cavalry, vice Surgeon H. C. Hudson, transferred temporarily to eivil employ.
Surgeon-Major H. D. Cook, M.D., Madras Establishment, Civil Surgeon and Soperintendent of the gaol at Calicut, is appointed Surgeon of the First DisSoperintendent of the gaol at Calicut, is appointed Surgeon of the First Dis-
trlet and Medical Inspector of Emigrants, vice Surgeon-Major D. R. Thompson, M.D., C.I.E.

Surgeon H K. Fuller, Madras Establishment, acting Professor of Hygiene, Madras Medical College, is directed to officiate as Superintendent of the Madras Lunatic Asylum, without prejudice to his own duties, during the absence of Surgeon H. Armstrong on leave.
Surgeon-Major A. L. Hackett, Madras Establishment, bas leave of absence for 182 days on medical certiticate.
Brigade-Surgeon W. S. Fox, Madras Establishment, Examiner of Medical and Fund Accounts, Madras, is permitted to proceed out of India, on medicaf certificate, in anticipation of the furlough which will be granted to him by the certificate, in anticipa
Government of fndia.
Surgeon T. D. C. Barrx, Bombay Establishment, is appointed to officiate in medical charge of the 4 th Native Inlantry during the absence of Surgeon $C$. Monks,
Surgeons W. H. W. Elliot and J. Murray, of the Bengal Establishment, have passed the examination in Hindustani by the lower standard.
Surgeon-Major C. J. I'Kexva, Bengal Establishment, Medical Officer 39th Native Infantry, has leave to Murree and Kashmir, on private affairs, Ior six months.
Surgeon S. Lititie, M.D., Beagal Establishment, whose services have been placed temporarily at the disposal of the Punjab Government, is appointed to oficiate as a Civil Surgeon of Lmballa, relieving Surgeon-Major G. Thomson,
M.B.
Surgeon-Major G. THoMson, Bengal Establishment, is appointed to offlei-
ate as Medical Officer to H.H. the Maharajah of Patiala, vice Surgeon-Major J. ate as Medical Officer to H.H. the Maharajah of Patiala, vice Surgeon-Major J.
Bennett, M.D., proceeded on furlough. Beunett, M.D., proceeded on furlough.
Brigade-Surgeon J. Duncas. MI.D.
Brigade-Surgeon J. Duscax, M.D., Bengal Establishment, is appointed to
the Civil Medical Charge of Sheikh Budeen. the Civil Medical Charge of Sheikh Budeen.
Surgeon J. A. Cumingha, M.D., Bengal
Surgeon J. A. Cuxnivgham, M.D., Bengal Establishment, is appointed to the
Civil Medical Charge of Mooltan, vice Surgeon-Major W. A. C. Roe, appointed to officiate as Sanitary Commissioner, Punjab.
Surgeon-Major Peter Crilen, M.D.., of the Bengai Establishment, who entered the service as Assistant-Surgeon July 27th, 1859, has been promoted to be Brigade-Surgeon from April 18 th.
Surgeon-Major William Moir, M.B., of the Bengal Establishment, bas been promoted to be Brigade-Surgeon from April 26th. His commission as Assistantsurgeon dates from January 20th, 1880.
The retirement of the undermentioned officers, which has been already announced in the Jocrval, has received the approval of Her Majesty:Deputy Surgeon-General T. G. HETLETT, C.I.E., Bombay Establishment: Brigade-Surgeon A. Garden. M.D., Bengal Establishment; Brigade-Surgeon J.: E. T. Artchisos, M.D., C.I.E., Bengal Establishment.

The services of Surgeon F. O. Reeve, Madras Establishment, are placed temporarily at the disposal of the Department of Fiaance and Commerce. Surgeon A. W. Dawson. Bengal Establishment, is appointed to the officiating medical charge of the 5th Native Oavalry, vice Surgeon-Major H. Hamilton, transferred temperarily to civil employ.
Surgeon-Major D. D. Cunnixgham, M. D., Bengal Establishment, is appointed to be Secretary to the Committee for the management of the Zoological Gardens at Alipore, vice Mr. A. Simson, resigned.
Surgeon C. C. VAID, Bengal Establishment, a Supernumerary Civil Surgeon in the North-West Provinces, is appointed to officiate as Civil Surgeon of Jhansi during the absence on privilege leave of Surgeon C. P. Lukis.
The services of Surgeon-Major H. Arisison, M.D., Madras Establishment, are replaced at the disposal of the Military Department.
Surgeon T. W. STEWART is admitted to the Medras Establishment from May 1st, the date of his arrival in India.
Surgeon D. S. E. BATN, Madras Establishment, Bangalore Rifle Volunteers, is permitted to resign bis appointment as Honorary Surgeon at his own request, The services of Surgeon W. A. Corkerr, Bombay Establishment, are placed at the disposal of the Gevernment for employment in the Civil Department. The services of Surgeon A. K. W. SEDGEFrELD, M.D., Surgeon-Major J. O'M, MCDONsELL, M.D., and Surgeon C. J. BAMBER, all of the Bengal Establishment, are placed permanently at the disposal of the Government of the Punjab.

The services of Surgeon-Major J. Moran, M.D., Surgeon-Major H. HamiLtow, M.D., and Surgeon I. C. Mupsos, all of the Bengal Establishmeat, are temporarily placed at the disposal of the Gorernment of the N.-W.Provinces and Oudh.

The services of Surgeon P. DE Concercao. Bengal Establishment, are placed temporarily at the disposal of the Cbief Commissioner of Assam,

## THE MILITIA AND VOLUNTEERS.

Surgeon-Major O.T. Duke, formarly of the Beagal Eatablishment, has been
appointed Captain in the 5 th Battalion of the Rifle Brigade (formerly the 2nd
Tower Hanlets Militia. Rees, M.D., of the Severn Division Submarine Miners Royal Engibeers, has resigned his appointment, which was dated September 19th, $188{ }^{2}$.
Surgeon A. Baker, of the ist Volunteer Battalion Yorkshire Reginent (late 'the lst North Riding of Yorkshire), is granted the honorary rank of SurgeonMajor.
The undermentioned geatlemen are appointed Acting-Surgeons to the corps specified:-W. F. Lovelf, 4th Volunteer Brigade Cinque lorts Division Rnyal Artillery (late the ist Cinque Ports Artillery) ; Robert Jones, Mersey Division Submarine Jiners Roral Engineers; Acting-Sirgeon J. le. THomas, II.B., from the 1 st Volunteer Battalion Welsh Regiment to the $4 t h$ Volunteer Battalion the lst Volunteer Battalion Welsh Regiment to the
Devoushire Regiment (formerly the 4th Devonshire).

Acting. Surgeox W. L. Mortan, of the lst (Oxford Uaivensity) Volunteer Battalion Oxford Light Infantry (late the 2nd Bucks), is promoted to be Surgeon in the same corps.
Surgeon F. F. MANBY, 3rd Volunteer Battalion South Staffordshire Regiment (latc the 4th Stafford), is granted the honorary rank of Surgeon-Major. Regiment (late the 9th West Riding of Yorkshire), has resigned his commission, which was dated October 3rd, 1885 .
Surgeon G. Bolton, 1st Durham Altillery, is granted the honorary rank of Surgeon-Major.
Surgeon and Honorary Surgeon-Major R. Dars, of the Brd Middlesex, has resigned his commaission, which dates from, May 16th, 18:1; he is pesmitted to retain his rank and uniform.
The undermentioned gentlemen have been appointed Acting-Surgeons to the regiments specified :-Robert Polzock, M.B., 3rd Volunteer Battalion ifighland Light Infantry (late the 8th Lanarkshire). J. W. ELurs, bith Folunteer Battalion King's Liverpool Regiment (late the 19th Lancashire): and G. M. Lowe, M.D., 1st Volunteer Bat alion Lincoln Regiment (late the 1st Lincoln). Mr. C. A. O. Owens, M.D., is appointed Surgeon to the 1st Volunteer Battalion Norfolk Regiment (late the 1st Noriolk).

Acting-Surgeon Thomas Richards, M.B., who joined the 1st Volunteer Battalion Warwickshire Regiment (late the 1st Warwick) June 25th, 1884, is now made Second Lieut enant in the same corps.

## VOLUNTEER MEDICAL OFFICERS.

Acting-Surgeon writes: 1. Is a volunteer acting-surgeon entitled to use a cockade? If so, and he resigns before serving fifteen years, can he still continue to use it, or must it be given up when he resigns? 2. What are the best books to read in preparing for the proficiency examination, and over what ground does the examination extend? 3. What are the best books to use when instructing a volunteer class in ambulance work and duties.
** 1 . Officers holding Her Majesty's commission are entitled to use a cockade. An acting-surgeon has no commission, an'd cannot claïn the use of the cockate. 2 and 3 were answered fully in the Journal, 'on June th, 188\%, p. 1244, and have been several times seferred to.

## MEDICO-LEGAL AND MEDICO-ETHICAZ.

## FEES FOR VISITS BY UNQUALIFIED ASSLSTANTS,

In an action, which raised the question whether a medical practitioner was entitied to charge the same fees for the visits of his - Assistant (an unqualified practitioner) as for those of himself, was recently heard at the Liverpool County Court before Judge Thompson. The action was brought by Dr. Arthur Wiglesworth, of Liverpool, against Mr. Hooker, master joiner of that city, to recover $£ 1119 \mathrm{~s} .6 \mathrm{~d}$. for professional attendance upon the defendant's wife. The plaintiff said when the wife of the defendant visited him at his house he charged . 2 s . 6d. for the consultation, and nothing for medicine supplied. When he had visited the patient at her own house he liad charged $2 \mathrm{~s}, 6 \mathrm{cl}$, for the visit, and made an extra charge for medicine. This was according to the custom of the profession, In cross-examination it was elicited that the largest sum charged for ar ordinary visit was $4 \mathrm{~s}, 6 \mathrm{~d}$, , and for consultation with a physician 10s. 6d. Mr. Coates, a former assistant of the plaintiff, not a qualihed practitioner, said he had attended the defendant on several accasions on belialf of Dr. Wiglesworth. The Judge, in summing up the case, said it would be for the jury to decide as to the reasonableness of the charges, but he limself thought that the plaintiff was not entitled to charge the same fee for the risits of his assistant, an unqualified practitioner, as for his own visits. The jury found for the plaintiff for the full amount of his claim less 14 s. upon the items charged in respect of the assistant's visits. Judgment accordingly

## UNQUALIFIED PRACTICE: A CASE FOR THE APOTHECARIES'

On June 20th in inquest was held at Birmingham by Deputy Coroner Weekes on the body of a ehild, aged 3 years, named Margaret Hart. The statement made by the mother was that on June 13th she took her child to a house ( 412 , Monument Road) where there was a card in the window bearing the name of "Dr. McLellan," the word "Dispetisary", and the hours of attendance, with the charges. Witness saw a Mr. Xillership, whom she thought was Dr. McLellan. He examined the clitd and gave her some medicine, and witness paid him fid. The child was worse next day, and Millership saw ber at the her, and said the flluess was not diphtheria as he had thought, but croup.
demanded very plain speaking: this however resulted In Mr. B. s obstinare efusal to submit to any treatment at our hands. As might Was called in Mr. B. has just recently hal another break dias Dr. C. acted in a proper and is now attending on his own account. bis own patient nanner towards me in takiog Nr.
*" Inasmuch as the right of a pation to change his medical adviser is uncourtesy, and, it need be, questionshle, and charge of the patient. Such changes are no doubt annoying to the superseled practitioner, but nevertheless are of very frequent occurrence, and in the instance in question may, we thiuk, be readlly be accouated for, if, from the aature of the case the accessity of
upon our correspondent, and not on Dr. C.

## MEDICO-PARLIAMENTARY,

HOUSE OF LORDS.-Monday, June 25th.
Universities (Scotland) Bill.-The Bill was read a third time.The Marquis of Lothinn's amendment to increase the number of the members of the Commission from thirteen to fifteen, by the addition of the Earl of Elgin and Sir llenry Roscoe, was adopted.The motion that the Bill do pass was then agreed to.

HOUSE OF COMMONS.-Thursday, June 2Sth.
The Royal College of Surgeons.-Lord R. Chitrchill: 1 beg to ask the First Lord of the Treasury whether it is correct that Her Majesty's Priry Council has advised Her Majesty to grant a "supplemental charter to the Royal College of Surgeons of England; and whether the said charter recognises, and if so, to what extent, the claims of the Brembers of the College to take part in the elecembodied, with other requests, in a petition signed by 4,665 memhers, and presented to the Privy Conncil in May, 1887; if not, whether Her Majesty's Ministers will be prepared, at the urgent request of the Members, to recommend Her Majesty to dalay granting said supplemental charter until such time as a report from a Royal Commission, appointed to inquire into the constitution of the College. -Mr. W. H. Smith: The Lords of the Conncil have agreed to adrise Her Majesty to grant a supplementary charter to the Royal College of Surgeons of England. The charter does not in any way deal with the question of election. The Government do not consider it necessary to recommend the appointment of a Royal Commission to inquire into the coustitution of the College, or the postponement of the grant of a charter, which does not affect any of the questions which have been matters of controversy.-Lord $R$. gentleman, I beg to give notice that I sher of the right hon. genportunity to move an address praying Her Jlajesty not to grant such supplementary charter until an inquiry has beeu made into the constitution of the College.

## Thursday, June 21st.

Alleged Illegal Dissection.-Mr. Matthews, in reply to Mr. Pickersgill, said he had inquired into the allegations as to the post-mortem examination on a young man named Cornish at the ictori Park Ilospital, and was informed that was not the fact that the father was unable to get the body. It was given to him at the customary time on the day of the death. The so-called dissection of the body was nothing more than the usual post-mortem examination, made in consequence of the unacconntable features of the case. The father had expressed no objection to a prostmortem examination, inasmuch as he did not come to the hospital until after the examination had necessarily taken place. He was unable to discorer that the authorities had rendered themselves anenable to the latr.

## Monday, June 25th.

Shop Hours Regulation Act.-Mr. Wintermotham asked whether the attention of the Secretary of State for the IIome Department had been called to the refusal of a magistrate to grint summonses applied for by the Secretary of the Shop Hours Reform League against certaiu shopkeepers of Ilackney, whose assistants, it was stated, wero kept at work eighty, ninety, and even one hundred hours per week, unless the orerworked persons (whom it was proposed to subpana to gire evidence) themselves attended and supported the application; and whether he would call the attention of the magistrate to the fact that summonses un der this Act rere granted by other metropolitan courta. -Mr. MATT HEWs said he had
ascertained from the magistrate that he refused to grant the sumnons because insuflicient evidence was tendered. Any person could institute proceedings. It was within the magistrate's discretion to decide whether or not a summons should be issued on the evidence brought before him.

Tuesday, June 2cth.
Army Medical Offeers.-Mr. E. Stantope, in anstrer to Dr. Taven, said forty-six retired nedical officers were at present employed. The question of extending the system of re-employment was at present under consideration. Such officers were re-alppointed for five years, and if they continued to be required and were still eflicient the term might be extended till they reached the age of sixty-five years.
Colncy Match, -Asyhumb.-Mr. T. Renaronn asked the Secretary of State fur the llome Department whether liis attention had been called to the following facts in regard to the treatment of a man in Colney IIateh Asylum: "John stickley, an old man of 68, was removed to the asylum last Saturday from Inammersmith Police Court. Ile was then in a feeble condition, and perfectly quiet. On Monday lis friends were informed that he was seriously ill, and on Tutslay he was dead. At the time of his death he liad a broken jaw, anid hacl lost a tooth, and the jury find that his death was accelerated by these injuries;" whether there was any evidence to prove that the injuries were cnused after the man entered the asylum; and whether the Government would order an inquiry to be lield into the whole matter.-Mr. Matriews said the facts were stated with substantial accuracy in the question. The jury found that Stickley's injuries were received after be entered the asylum. The Lunacy Commissioners informerd him that the Committee of Visitors of the Colney llateh Asylum had intimated to them their intention to hold a searching inquiry into all the circurnstnnces attending the death of this patient. I'he inquiry would begin on Friduy, nud the Commissioners bad been requested to be at once informed of the result.

## OBITUARY.

TIIOMAS EDWARD MASON, M.D., M.R.C.S., L.S.A.
We regret to record the sudden death of this energetic and highly popular practitioner at Deal, Kent, on the 7 th instant, from heart disease. Dr. T. E. Mason was the eldest son of Mr. George Mason, surgeon, also of Deal, and was born in November, 1841. He obtained his medical education at Guy's Hospital, and graduated at St. Andrews University in 186?. In the following year be became 3.R.C.S. and L.S.A., and went at once into practice at Deal, where he succeeded lis father. His energy, enthusiasm, natural kindness of heart, and anxiety to promote every public undertaking of the better sort soon endeared him to atl with whom he came into contact, and gave him troops of friends and an extensive practice.
Ile held a large number of public appointments; was formerly for many years captain of the local company of Artillery Volunteers, and lately surgeon to the same corps. In 1872 be gained the ladies' challenge cup at the Kent County shooting competition. In $18 \pi 3$ he was elected medical officer for the borough and port of Deal; the latter being an extensive district, comprising some fifteen or sixteen miles of seabnard. In $18 \%$ he became Admiralty Surgeon and Agent for the district. He was to a great extent instrumental also in the establishment of the Deal Fire Brigade, of which he was captain; and he was surgeon to many provident societies.

Dr. Mason was apparently in the prime of life and unimpaired health, and just alout to undertake a holiday of some three weeks' duration in Germany and Paris-in fact, a longer absence from work then he had ever before during his professional career en-joyed-when, on the morning of Wednesday, the 6th instant, he returned to his lrouse, and sank upon his couch in a state of exhaustion. He then had great pain at lis chest; and notwithatanding all the efforts made to relieve him, died on the afternoon of the following day, leaving a widow and family of several children, to whom his death has occasioned an irreparable loss.
1)r. Mason's sudden decease naturally occasioned widespread grief in the neighbourhood of Deal, whicli was attested by the tender the funeral, which was a public pageant. The coffin, upon which lay the Union Jack and the helmet of the deceased, was
conveyed to its last resting place upon the borougb fire-engine, between rows of saddened townsfolk who lined the streets, in which all business was for the time suspended. The drum and fife band of the Royal Marines headed the long funeral procession, being followed by Volunteers, Coastguards, Foresters, Odd Fellows, and Freemasons, the fire engine and fire brigade; and then, in carriages; the mourners, the Mayor and Corporation, and political and private friends, amongst whom the medical men of the locality mustered in strong force. Dut it is not in the seaside Kentish town alone that Dr. Mason's loss is experienced ; distant comrades will also feel for many a day that liis deati bas indeed robbed them of a valued, stauncli, and upright companion and friend.

## John bricewell, Sen., M.f.c.S., L.S.A., of <br> Satwridgeworth.

We have to announce the death of Mr. John Crickwell, sen., of Sawbridgeworth, llerts, for many years a member of the Dritish Medical Association, member of tbe Obstetrical Society, and of some other scientilic and claritalle nssociations, M.R.C.S.E., and L.S.A. The deceased was born on December 12th, 1807: commenced practice at Sawbridgerworth, in succession to his fnther, in the year 1829; and died there on Sunday, June 10th, at the ripe old age of eighty years and six months, respected and mourned by a large circle of friends, and in the full possession of his intellectual faculties almost to the very last. He liad been a student at St. Bartholomew's Hospital medical sclool at the time when Dr. Abernethy was surgeon there, whose portrait occupied the place of homour in the deceased's study. Ilis cheerful and energetic manner, fertility of resource, and ready assumption of responsibility at a crisis, haid enabled him to bring comfort and relief to many a sick bed, and liad endeared him to a large number of friends and patients, by whom he was much beloved, as is testified to by the fuct that, in the year 1864, he was presented with a testimonial, to which no fewer than 250 signatures were attached, among which may be recognised the nanes of many of his humbler patients, who vied with their riclier neighbours in honouring their friend. In fact, hee was one of those numerous medical men who unobtrusively, by their kindness and gennine charity as well as by their skill, do so much to ennoble the grand profession to wbich they lelong. In private life, Mr. Brickwell was a cleerful and genial companion, much given to the study of natural history with its branches. Mr. Brickwell lad given up the more active duties of his profession some years ago, when he took bis son, Mr. E. A. Brick well, as working partner.

## PUBLIC HEALTH <br> and

## POOR-LAW MEDICAL SERVICES.

## the sanitary condition of buckingham.

Tre Local Government Board have just issued the report of their 1nspector, Dr. H. F. Parsons, on the recent outbreak of enteric fever in the borough of Buckingliam. It would appear from the annual reports of the medical officer of health, and from the statements of local medical practitioners, that cases of enteric fever occur in the borough every year. During the ten years 1877 to 1886 the average annual death-rate from fever (almost entirely enteric) was 0.36 per 1.000 (the average rate for England and Wales during
the same period bing 0.30 , nnd in those years there were local the same period being 0.30 ), and in those years there were local groups of cases in places where defective sanitary conditions were reported to exist. In the autumn of 1887 four cases in widelyseparated parts of the borough came to the knowledge of the medical officer of healtb, and during the first three months of the present year about 114 cases ( 5 fatal) occurred in 49 households. The result of Dr. Parsons's investigation is that he classes this Ontbreak with those which have heen recorded (for example, at Caterbam and Langor) as resulting from the entrance of a relatirely minute quantity of specific fever poison into a water of pure origin. It a ppears that the water-supply of the affected locality is almiost wholly obtained from a copious stream, called the Bath Lane Spout, running some ten gallons per minute, which, coming from a spring in the hillside above, is brought down, first in a rubblestone conduit, and then in one of socket-pipes, to an iron spout from which'it issues. Some ffty feet abore the' spout the line of the conduit is crossed by a drain which has received the sewage
of eight houses, including 'that in which the first case of fever occurred in January last. The privies, which are of very rude construction, are connected with it, and into one of them a small stream of water from a spring is led, with the view of washing array the excreta. The arain, which occupies the course of an old ditch, has been laid in the greater part of course of the conduit common field-pipes. Dr. Parsons found a small catchpit inlet with above referred to Dr. Yarsons bare earth, and just below where the drain erosses the conduit the former runs through a larger catchpit, which has sometimes been intentionally stopped, with the result of causing sewage to well out from the drain higher up. Leakage of sewage from the drain must, in such cirenmstances, be the result: and, as a matter of fact, Dr. Parsons observed that the earth in which the waterpipes were lying beneath the drain was black, foetid, and setwagesodden. The joints of the water-pipes themselves were also found to he faulty, and ground-water (heason to believe that sewage leaked out of the drain and found its way into the drinking water. The amount so entering would no doubt be very small relatively to the volume of the stream of water, and hence slight pollution may probably have been going on for a considerable time, but escaped notice until the sewage happened to become infected with the fever poison. Then an extensive
drinkers of the water was the result.

Another lesson contirmed hy this outbreak is that too much importance should not be attached to the mere chemical analysis of water, seeing that typhoid fever may be produced by drinking water containing the specific poison of that disease, even though the total amount of pollution present In illustration of this fact Dr. Parsons quates a report which was shown him by one of the Buckingham Town Council, made by an analyst on a sample of water taken from the River Ouse at a point below where it has received the sewage of Buckingham. The analyst, after noting the presence of some excess of organic matter, says that the matters."
The sanitary defects of Buckingham-for example, defective sewers and drains, foul privies, water-sourees in danger of pollution, and houses unfit for habitation-have for the most part been frequently brought under the notice of the town council, both by the present medical officer of health, Mr. G. 11. De'Ath, and by his father and predecessor in the office, the late Mr. R. De'Ath, who bave also urged the desirability of adopting by-law for the isolation of cases of infectious disease, and the Local Government Board have by correspondence repeatedly called the attention of the town council to some of these matters, but hitherto, except as regards the improvement of privies and removal of their contents, only rectification of individual nuisances appears to have heen attempted, and no action of a comprelensive kind taken. Some action has, we believe, been adopted in consequence of the panie caused by the recent epidemic, but it is to be regretted that known defects should lave been allowed to continue until they some districts.

INSPECTION OF MEAT.
At the last meeting of the Town Council, Glasgow, it was stated that the Market Committee had resolved at once to consider what additional arrangements could be made with a view to the detection of diseased animals and carcases in the slaughter-honse. There hare heen many complaints on this subject, and considering of view, it is most surprising to find that the inspectors of carcases in our enormous abattoirs are simply policemen. It is to be hoped that a highly qualified and experienced veterinary surgeon will soon be appointed to fill this most responsible post.

TIIE SCOTCII POLICE BILL.
THIs Bill is now being considered by a Select Committee of the House of Commons, the Lord Adrocate presiding. When the health clauses were reached, Dr. Clark said he was anxious that this Bill should pass this session, and in order that it might pass he proposed that they should leave out all the clauses dealing with the mitigation and prevention of discase. At this period of the session, and with the business they had before them, it would be wholly impossible to prss the Bill with these health clauses. They
must remember that these clauses ought to apply to villages quite as much as to burghs, and therefore lie thought the matter should be dealt with in such a manner as would apply to the whole country. What they really wanted was a new Public llealth Act for Scotland, beeause in this matter they were far behind England. The Lord Advocate said this was the most important matter that had been raised as yet, and as there was a small attendance of the Committee, he proposed that all the clauses relating to public health should be postponed, promising in the intersal to consider whether the Bill could stand without the clauses. This was agreed to.
Health of English Towns.-During the Treek ending Saturday, June $23 \mathrm{rd}, 5,775$ births and $2,79 \pm$ deaths were registered in the twenty-eight great English towns, including London, which have an estimated population of $9,398,273$ persons. The annual rate of mortality per 1,000 persons living in these towns, which had been 16.2 in cach of the two preceding weeks, declined
to 15.5 during the week under notice. The rates in the severat towns ranged from 9.9 in Nottingham, 10.4 in Pirkenhead, 11.6 in lortsmouth, and 12.4 in Bristol to 22.5 in Manehester, 23.4 in Bolton, 23.5 in Plymouth, and 24.3 in Preston. The mean deathrate in the twenty-seven provincial towns was 16.4 per 1,000 , and exceeded hy 1.9 tine rate recorded in London, which was only 14.5 per 1,000 . The 2,794 deaths registered during the week under notice in the twenty-eight towns included 248 which were referred to the principal zymotic diseases, against numbers declining from 330 to 259 in the five preceding weeks; of these, 80 resulted from whooping-cough, 48 from diarrhoea, 33 from "fever" (principally enteric), 29 from diphtheria, 25 from measles, 24 from scarlet fever, and 9 from small-pox. These 248 deaths were equal to an annual rate of 1.4 per 1,000 , and ranged from 0.0 in Portsmonth, Birkenhead, and Malifax to 2.4 in Cardiff, 2.5 in Preston, 2.7 in Derby, and 3.2 in Leicester. Scarlet fever caused the highest proportional fatality in Cardiff ; whooping-
cough in Salford, Blackburn, Newcastle-npon-Tyne, Lee cough in Salford, Blackburn, Netwcastle-upon-Tyne, Leicester, and Derby; and "fever" in Preston and Iluddersfield. The 29 deaths 2 in Leicester, 2 in Salford, small-pox recorded during the week under notice, 5 occurred in Sheffield, 2 in Preston, 1 in Leeds, and 1 in Manchester. but not one in any of the other provincial towns or in London. The Metropolitan Asylums Hospitals contained only one small-por patient on Saturday, June 23rd, which had been admitted during the week. These hospitals also contained 820 scarlet fever patients on the same date, against numbers declining from 915 to 830 in the four preceding weeks; there were 72 admissions during the week, against 89 and 61 in the two preyious weeks. The deathto 2.3 per 1,000 ,
llealth of Scotch Towns.-During the week ending Saturday, June 16 th, 842 births and $50 \overline{5}$ deaths were registered in the eight principal Scotch towns. The aunual rate of mortality, which had been 19.3 and 18.5 per 1,000 in the two preceding weekz, rose again to 20.0 during the week under notice, and exceeded by 3.8 per 1,000 the mean rate during the same period in the twenty-eight large English towns. Among these Scotch towns the lowest rates were recorded in Dundee and Paisley, and the highest in Edinburgh and Glasgow. The 505 deaths in these towns during the week under notice included 36 which were referred to the principal zymotic diseases, equal to an annual rate of 1.4 per 1,000 , which corresponded with the mean zymotic deathrate during the same period in the large English towns. The highe of the 42 deaths registered in gow. Of the 5 from whooping-cough, and 3 from "f li-s resulted from cases of scarlet fever were recorded in Edimburg The mo fata from diseases of the respiratory organs in these Scotch towty during the week under notice was equal to 3.7 per 1,000 , against 2.6 in London.-In the cight principal Scoteh towns, $8 \%$ birtlis and 466 deaths were recristered during the week ending Saturday, June 23 rd . The annual rate of mortality in these towns, which had been 18.5 and 20.0 per 1,000 in the two preceding meeks, declined again to 18.4 during the week under notice, but exceeded by 2.9 per 1,000 the mean rate during the same period in the twenty-eight large English torms. Anong these scotch towns the lowest rates were recorded in Greenock and Fdinburgh, and. the highest in Aberdeen and Glasgow. The tob deaths in these
towns during last week included 46 which were referred to the principal zymotic diseases, equal to an annual rate of 1.8 per 1,000, which exceeded by 0.4 the mean zymotic death-rate during the same period in the large English towns. The highest zymotic death-rates were recorded in Aberdeen and Glasgow, The 230 deaths registered in Glasgow during last week included 11 from measles, 8 from whooping-cough, 9 from diarrhcea, 4 from scarlet fever, and 1 from diphtheria. The mortality from diseases of the respiratory organs in these towns was equal to 3.0 per I,000, against 2.2 in Loudon.

## MEDICAL NEWS. <br> MEDICAL VACANCIES.

The following Yacancies are announced:
BOROUGH OF BRADFORD.-Medical Officer of Health. Salary, £500 per annum. Applications by June 30th to the Chairman of the Sanitary Com-
mittee.
BRISTOL GENERAL HOSPITAL. Assistant Surgeon. Applications by July 20th to the Secretary.
CITY OF LONDON HOSPITAL FOR DISEASES OF THE OHEST, Victoria Park, E.- Assistant-Plysician. Applications by July 12th to the Secretary.
CITT OF LONDON HOSPITAL FOR DISEASES OF THE CHEST, Victoria Park, E.-Pathologist. Salary, 100 guineas per annum. Applications by July 13th to the Secretary.
OITY OF LONDON HOSPITAL FOR DISEASES OF THE CIIEST, Victorla Park, F.-Resident Clinical Assistant. Applications by July 12th to the Secretary.
CHELSEA MOSPITAL FOR WOMEN, Futham Road, S.W..-Resident Medical Ofticer. Salary, f60 per anmum, with board and residence. Applications by July 4th' to the Secretary.
DERAYSHIRE GENERAL INFIRMARY.-Resident Assistant IIOnse-Surgeon (for six mooths). Board, etc., with bonus of \&10. Applicatious, by July
fth to the House-Surgeon. 7th to the House-Surgeon.
DONCASTER GENERAL INFIRMARY AND DISPENSARY,-House-Surgeon. Salary, 100 per annum, with board and residence. Applications by
EAST SLPTOLK
EAST SUFFOLK AND IPSWIOH HOSPITAL,-House-Surgeon. Salary, £30 per annum, with board, lodging, etc. Applications by July Ioth to the secretary.
GENERAL INFIRMARI, Northampton.-Assistant House-Surgeon, Salary, Secretary.
GLASGOW IfOSPITAL FOR SICK CH1LDIREN.-Assistant House-Surgeon. Applications to M. P. Fraser, Esq.- 91, West Regent Street, Glasgow.
HOSPITAL FOR WOMEN, Soho Square, W.C.-House-Physician. Salary, Secretary.
KENT COUNTY LUNATIC ASYLUM. Barming Heath.-Third Assistant Medichl OtJcer. Salary. £120 per annum, with furnisbed apartments, etc. Applications by July $\boldsymbol{\text { th }}$ to F. R. Mowlett, Esq.. 9, King Street, Maidstone.
KILLYBEGS AND TIRIBANE.-Admiralty Surgeon and Agent for these Coastguards Stations. Salary to include attendance, supply of medicines, and travelling, \&50 per annum. Applications to the Adminal Superinteudent of Naval Ieserves, Spring Gardens, London, S.W.
MIDDLESEX HOSPITAL, W.-Physician for Skin Diseases. Applications by
July Isth to the Secretary Superintendent.
NOIRTH STAFFORDSHIRE INEIRMLARY,-Assistant House-Surgeon (for six PADISH OF EODrd, alnartments, etc. Applieations to the secretary.
PARISH OF EDDRACIIILLIS, Sutherland. -Salarg, £l.50 per annum, with free house. Applicatious hy July Isth to Mr. A. R. Cowie, Inspector,
Scourie by Larg, N.B. Scourie by Larg, N.B.
PARISIf OF KIRKMABRECK, Kirkcudbrightshire.-Medical Ogicer for the Poor. Salary, f3o per annum, Applications by July l4th to Mr. J. Carson,
Inspector of I'oor, Creetown, N.B. Inspector of Poor, Creetown, N.B.
P.JRISII OF KIRKMAIDEN.-Medical Officer. Salny, £its per: annum. Applications by July 124 h to Quintin Cochran, Port Logran, Stranraer, N.B.
PARISHES OF PENNYGOWN AND TOROSAY.Medical Officer. Salary, \&100 per annum. Apflications by July 3rd to Mr. A. McDougall, Inspector of Poor, Auchnacraig, Obay, N.H.
PLYMOUTH PUBLIC DISPENSARY-Phrsician'SAssistant. Salary, £60 per annunı. Applications by July 1 tib to the Honorary Secretary, W. II. Prance, Esq. $\overline{\text { B }}$, Athenacim Terrace, I'lymunth.
UNIVERSITY COLLEGE HOSPITAL. - Surgical Iegistras. Applications by
July lith to the Secretary.
WEST SUSSEX, EAST IFANTS, AND CHICHESTER INFIRMARY--HouseSurgeon. Salary, cloo, with board and lodging. A pplications by June 30th to the Honorary Secretary, E. Armold, Esq.- White Hall, Chichester.
WESTERN GEJERAL INFIMMARY, Marylebone Road.-IIonowarg Surgeon.
Applications by July 2nd to the Secretary. Applications by July 2 ni to the Secretary.
RCESTER GENERAL INFIRMARY.-House-Surgeon. Salary, £l00 per WORCESTER GLENERAI INFITMARY--House-Surgeon, Salary, \&100 per
annum, board and residence. Applications by July sti to the Secretary,
Worcoster Ohamber, Pierpoint Street, Worcester. Worcester Chamber, Pierpoint Street, Worcester.

## MEDICAL APPOINTMENTS.

Bnmplex, R. A., M.R.C.S., I.S.A., appainted Resident Mertical Officer to the Nortb Loadon Consurnption Hospital.

Bonror, S.A., M.B., B.S.Durh., L.R.C.P., M.R.C.S. appointed House-Surgeon to the West London Hospital, vice P. J. F. Lush, M.B., resigned.
Brown, William, M.B.. O.M.Glas., reappointed Medical Officer of Health for the Stapleton Urban Sanitary District.
Cope, G. P., promoted to Senior Assistant to the Richmond District Asylum,
Dublin. Dublin.
Chisp, James Ellis, M.R.C.S., C.S.A., appointed Mellieal Officer to the Corshan' District of the Chippenlam Union: vice William Kemra, M.R.O.S., L.S.A., deceasod
Donalisos, William Irelaad, A.B., M.B., B.Ch.Univ.Dub., appointed Assistant
Medical Officer to Camberwell House Asylum, Londou, S.E. Medical Officer to Camberwell House Asylum, London, S.E.
La Wrensox, If. F., M.M., B.Ch. (T.C.D.), appointed Medical Offioer to the 'Dunlavin District, Baltinglass Union, vice G. E. Howes, M.R.C.S., resigned.
Lust, P. J. F., appointed Howse-Physician to the West Londor Hospital, vice W. S. Colman, N.R.C.S.Eng., resigned.

Makood, Edward Allan, M, B., M.Ch, M.A.O., Royal University of Ireland, appointed Assistant Medical Tutor in the Queen's College, Birminghan.
Martin, Jaines P., M.R.C.S.Eng., L.R.C.P.Lond, appointed Medical Officer L.S.A., deceased. Trupsor, lexa
rupson, Alexaniler, M.B., C.M.Aberdeen, appointed Assistant Medicai Officer to the City of Newcastle-upon-Tyne Lunatic Asylum, vice G. N. Hurry,
M.B., C.M., resigned.
STEER, W., M.R.O.S.Eng., L.S.A.Lond., appointed Resident Medical SuperinInion, vice R. II. Scanes, Spicer, M.D., resioned. Union, vice R. M. Scanes Spicer, M.D., resigned.
The Medical Record of New York states that an association of "coloured "physicians, calling itself the Lone Star Medical Association, is in existence in Texas, and recently held its second annual meeting.
Streating Srcinness.-Sweating sickness has again appëared in France, at various places in the Poitiers, and Civray arrondissements, and at Cloouzé-sur-Loire, in the department of Indre et Loire.
Tre Tidderminster guardians have increased the salary of Mr. Samuel Stretton, M.R.C.S.Eng., L.S.A.Lond., Medical Officer to the Workhouse, from $£ 90$ to $£ 120$ per annum,
Mr. Nicholas Hardeastle, M.R.C.S.Eng., L.S.A.Lond., late Mfedical Officer to the Workhouse, Newcastle-upon-Tyne Union, has ohtained a superannuation ailovance of $£ 80$ per annum.
AN epidemic of typhoid ferer has broken out at. Königsberg; 300 persons hare been affected so far, and the epidemic increases every day in severity,
Dr. LUDWIG KNorf, Privat-Docent, and known by his preparation of antipyrin, has been named Extraordinary Professor in the University of Würzburg.

## DIARY FOR NEXT WEEK.

## WEDNESDAE.

Obstetrical Society of London, 8 P. M.-Specimens will be shown. Dr. Bowall: On lhe Conditions whicin 「avour Mercurialism in Lring-
in Women, with Snggestions for its Prevention. Dr. Chamapneys: Decription of a New Operation for Vesioo-Uterine Fistula. Mr, Alban Doran: Oin Myoma and Fibro-Myoma of the Uterus, and Allied I'umours of the Ovars.

## EREAME.

OPETHALMOLOGICAL SOCIETY OF THE UAJTED KINGDOM, 8.30 P.M.-Ánuual General Meeting: Papers: Dr. Bronner: 1, Spring Conjunctivitis; 2. On a Simple Method of Preventing Hamorrliage in Iridectomy, Mr. Rockliffe: Notes on (1) Necondary Hemor-
rhage after Iridectomy for Glancoma, (2) Ophtbalnopleria. rhage after Iridectomy for Glancoma, (2) Ophtbalnoplegia.
Mr. Mules: On a Case of Embolus of Branch of Arteria Centralis Retine removed by Massage, with Recovery of Visusl Field. Living Cases and Card Specimens as usual at 8 P.M.

## BIRTHS, MARRIAGES, AND DEATHS.

The charge for inserting, announcements of Births, Marriages, and Deaths is ss. 6d., which should be forwarded in stamps with the announcement.

## BIRTH,

Robérts.-On June 19th, at IIlton-under-Wrchwood, the wife of Heary Roberts, 3I.D.Brux., M.R.C.S.E., L.R.C.P.Lond., L.S.A.Lond., of a daughter (premature).
ILARBCASTLE-CURRIF.-AtSt. NAARRIAGE.
instant, by the Rev. John Paton, Hngo McCauley Ifirdeastle, M.D. of Newcastle-on-True, rounger son of Ths Excelleucy Harccastle Eev, Alexandria, Eovpt, to Rniby, youngest dausliter of the late T. D. Currie, Fsq.; . of Clerkhill House, Dimfries.
MCCulloct-Oa June 25th, at DEATHS.

Tros.- At Tyy Iolige. Crieff, N.B.., on the 21 ist instant, Alexander Thom, A.M.Aberd., M.R.C.S.Eug., F.R.C:S., and L.I.C.'.Jd. in the Futh year of his age.

## aCEIRIES.

OPERATION DAYS AT THE LONDON HOSPITALS. IKONDAY.......... 10.30 A.3t: Royal London Opbthalmic. -1.30 P.M. : Guy.s (Ophthaluic lyepartmont, and Royal Westminster Ophthat-mic.-2 P.M.: Metropolitan rate; and llospital sor Wonsu.Ophthatmie, linyal Orthonatic: ind
2.30 P. An.: Chelsen Hospital for Women.
TUESDAY......... 9 A.M.: St. Mary's (Ophthalinic Department) -10.30 A.m.: Ruyal London Ophthamic.- 1.0 P.M.: Guy si.st. Bartholo mev's (Ophthabaic Department) : St.Mary s; Royal westamster Ophthalmic. -2 P.BL.: Westmineter; st. Mar's a ilentral, London Ophthalmic. - 2.30 p.3.; West Lonton; Cancerllospital, Brompton.-4 P.M.: St. Thomas's (Ophthalmic Department).; 10 A.M. : Natioaal Orthoprdic. 10.80 A.N. : Ratholomew's: Ophthalmic.-St. Thomass: Royal College; Westmingter; Creat Nortlera London; Univcrsity College; Hestminster, G.M.: Samaritan Contral ; Central London Ophthalmic.- 2.30 N Mo: Samaritan Free llospital for Woniea
p.31. K King's College. -1.30 p.M.: St. Bartholomew's (Ophathalmic Department.) Gny's (Ophthahic Department); lloyal WestniasterOphthal-mie.- 3 p.s.: Claring Cross : London; St. Thomas's (Obstet ric Departroent) ; Central London Ophthalnic : Mospital fo ric Departrucnt) ; Thront ; Huspital for Women.-2.3 P.M. Diseases of the dor North -West Londsea lospital for Womet.
FRIDAY ............ A.m. St. Mary's (Oplithalmic Department).-10.51) A.3. izoyal Lonion Ophthalmic.-1.15 p.at. : St.George'glOphthalmie Department $)$ - 1.30 P.M. : Guy's'; Royal WestminsteriOph-thalmic.-3 P.as.: King's College: St. Thomas'a (Ophthalmic Department): Central Londou Ophthalnic; lrowal South London Onhthalmie; East London Hospital for Children.2.30 P.M.: West London.

## SATURDAX

 9 A.M.: Moyat Free.-10.e , ... : Royal London Ophthalmie.- Crass : London: Mivmlestex ; Royal Free: Central Loadon Opluthalmic.-2.30 p.... : Cancer Hospital, Brompton.

## HOURS OF ATTENDANCE AT THE LONDON HOSPITALS.

Cmabing Cross.-Medical and Surgical, daily, 1; Obstetric, Tu. F., 1.30; Skin, M, Th. 1.30 ; Dental, M. W. F., 90,30 Obstetric, M. Tu. F., 1.30 ; Tye. M.Tu. Guxs:--1edleal The 12.30: Skin, Tu., 12.30: Dental, T11. Th. 1., 12. Th. F., 1.30: Ear, Lu. F... daily, 3 : Surtical. daily,al.30; Obstetric, Tu. Th. S.
 2; o.p., M. W. F., 12.30: Eye, Th. Th; Dental, Tu. F., 10.
Ear, Th. 2 : Skin, Th.; the. S., 2 ; Surgleal, daily, 1.30 and 2 ; Onstetric. M. Th..

 Mindlesex.-Melical and Ear and Throat, Tu., 9; Skin, Tu., 4 ; Dental, daily, 9. St. Binthol.omervs.-11 cdical and Surginal daily, 1.30 ; Ohstetric, Tu. Th. S.. 2 T. BARTMOL. W; Eye, Tu. Th. S., 2.30; Jar, Tu. F
2.30; Orthopedie, MI., 2.30; Dental, Tu, F., 9 . S. ' 1 ; Olstetric, Tu. S., 1; n.p. St. GEorfůs.-Medical and Surgieal. M. W. 2; Throut. Th.. Z; Orthopxdic, W., 2; Dental, Tu., S., , Thu. 1. St. Mary's.-Medical and sur gical, daily, 1-ds: Ohstetric, Tu, Fis ; Dhin, ग1. Th., Th., 1.30; Eye, Tu. F.S., y: Far, M. The, :3; Thruat. Tu- Fe, 9.30 ; Flectrician, Tu. Wp 2; Dental, W. S., 9.30 ;

Operations, Tu... T. Tnomass.-Mcatial M. Th., 2; o.p., dilily, except Sat., 1.30): Ear, M1... 12.30


 Westurnster.-Mcdical and Surgeal. Maily, I. Mi, W. S., 9.15 .

## LETTERS, NOTES, AND ANSWERS T0 conassonemsas

COMMUNICATONS FOR THE CURREMT WEFTS JOURNAL SHOUTD REACH THE Office Not Laten Thay tile First Post oy hridifanis.
 429, strand. W.C. Loulon. those eonceruinf business matere, ne ofice, d29, of the JOURYAL, cte., SLI
Strand, W.C., Loadon.
Strand, W.C., Loddon, it is particularly requested that all lettres on the Is order to aroid clelay, it is partienares requeste Editor at the oftice of the ellitorial business of to his private house.
Jourval. and not dehis priwate hense. Auminors desirint regrints of thairartictrs phbishemd with the Manager, 42y, Jounval ary requested lo communtickte betoreband wit ibc Strand, W.C.
Conk fsponderts whan wish notice to he taken of their commmineations enation authenticate them with their names-of cunsse not necessarif Niutices to Corve
 spoudents of forsir kipy To TM
OARCUMSTANCES BE REXURNED.
 of Health if they will, on

## Persietent Cidema of Foot

N1:MDER asks for advice in the treatment of the followithg case: A fentlepan over about a year ago, got surnenly ant odematons swelling on the mans over 30 , about a yoar ; he was obliged to walk on it, and in a couple of days dursum of the right foot; he was and has remained so since; he is of rheumatic, theswelling ent as hard as bone, and has remainedocally anil fodlde of potash or rather neuralgie, dlathe?s. interoally have been tricd, but no without effel dightret pressaro eanses the venlenceas long as a large boot is worn. but hewag swolleu more or less, but plantar surface to awell morc. The

## Sicroscope Wastern.

Mr. S. W. Foster, M.B. (Barrow, Ohester) writes; Can any of yournumerons caders inform the what is the most nseful, simpien, ite examinatlon of scope suitable for the general practitioner, chipfy
nrine deposits, and tube casts, etc., and where to obatin it

## ANSTERTS.

Dr. 11. K. Mrachenck (Boarnemauth), Dr. Ftenry Bemmet (arentone),-Mr. fart's letters on orntana Health Resurt have becrn pablishea in pamphlet Cornt, by Messrs. Smith, Zlder and Co., London, S.W.

## Treatment of Wound ap Lesc.

C. R. Jhimgwormtt, M.D. (Accrington) writes: in answer to "S. M. J." is gorea with Mr. Clay that strappinon the single strip on, and I take the precantion on one apposite the lower anmall hole in it, about an eighth of an inch in diameen ary horacic lint is edge of the suand. Over this opening a small plece of alostic-wet bandage edge of placed ever momot trom foot plane. Phanged overy four daya.
extenuing trom foot to knec.
ArTISEPTIC FOR Mrowits. in answer to " Dispensary Mr. C. T. Kivgzett (9f. Armanm surgeons quers as to the "Sanitas flid, " it is cheap, can be readily nbtamed evertions. it ahould be an antiseptic, pleasant in use and free fronl all objectwater. Wingzett's diluted with from five to ten times its own quanm and 5 rols peroxide of thymolic bacteride" (containing lper unt. thould be simailarly dilnted hefore hydro use.

## NOTES, LETTERS. ETC.

 (iscre (Sutherland Arenue. W.) writes: The iutcrestiog case recorded $1, y$ Dr. Joseph smith in the Joy anal of Jme sth, in which the tem, perature of a ebild aged 18 months was found to have suidealy rall to to a without the ocenrence of any critical con case in my own practice iu a girl aged 12 .
On May 7h, 1887 , I received an urgent summons at $9 \mathrm{~A} . \mathrm{M}$. to see C. L.. as On bricht-eyed, healthy-looking girl. ayd 12. She bad net yet me in struated I found her in bed, sparentiy well; pulse forctice of taking mouth, $99^{\circ}$. The father explained to me that be mate a pract all occasions the temperature of his childreu with a clinical thermometer on a rencral disof illness and as the child had complained of headache atd some gencrat ascomfort shortly after waking, he placed his thermonurter in her more unconcound that it registered at o A.38. 10.3. At. 8.10 a hermometer in her month fortable, and, being unable to kecpel it in the rectum, und found that it in consequence of a rigor, he placely then minutes later. that myer registered $110^{\circ}$. When 1 mma. only trenty moluded too hastily that my mometer only indicated friend's thermoneter must hare beeu fantable; her pulse was then 141: she this matter the child again felt macomiontabe, Acris. Aliter shiter was pale. and said she felt more ill than ever prenco the ractumand lound I inserted the bulb of my thermoructer iuto the retublama foma that it registered $110^{\circ}$. Five mimutes later it rat ure, but ten minutes later it inbiated $105^{\circ}$. 20 and at 9.30 P. Mr, it was $940^{\circ}$ At 5 p.3. the temperature wis foumt to be - She complaineal of oceasional hoth in mouth ant auns, and the pulse was ct. violent pains in the head, but neither pufor the pain: in the lseal and exva them. The tongue was clean, and, but for the pain: int the day. A dose sicnal slight rigors, she was fairy comtormy first wisit acted at about opow of Gremory's powder miminastered atter my nest with sijht internsis it 10 por she fell into as sombl sleep. Whine continne were normal, and she sion till the noming, when pulse amd seemed to bo quite weh. and remamed remar, auk that the urine was mormal 1 may adn] that the bowels had bee fluctuations of tempenture, there were in all reapucts, and that. no plysical symptoms whatever. It is a welforeture. The couverse semens Clarkinat fever can exist withont rise of temperat without fever.
 Misemantig Dicte writes: While in the act of reaning seme abes of hiscri-"Seli-help for lospitals, an example of one of the emer my persual not ice, mimate hospital and dispersary trearment cons, to shs, per weck, aud to havA pationt who ablinwherged ocrmek, ohjected strongly to paying es ex, ing a sick club allowamee of liss, per week, ohject attention, certificats. ete. each time he cane for uneltal and surncal attemtion, ecrill of £t, tellhlownin, and a jear'*grace havinf hent given him that amonut he would ing me that if he had known he wunit be charged that amontis is a typleal bave gone to a haspitat. INe expeded to have paid ls. Norin-West London are dave gole of what we practitioners in the pourer parts nf Norbride at and private. example of wat result of competition with slisprnasinas. provileut and medical and hospitals, thut it -of eompetition betreen various classes of medical and ho
Inch. further proof of me last statenent. I mat mention that there is a large provident dispensary in direct competition with me. The doctors, with oue ide oui-ide the distriet; no tronble whatsuever is taken to fan exoeption. reside oui-ide the distriet;
out the standing of the patients heyond their bare word; the surplus receipts out thed amongst the medical men amount to over $£ 120$ each on the average, divided amongst they also nersonally collect in the ueighbouring churches and chapcls, rat they also personabic fund an additional sume
If a largo number of self-qualitied patients are treated for next to nothing by one set of medical men, must not the other neighbouring practitioners suffer? Is this fair or right? As requards private dispensaries; in the interests of the publio aud of the medical prufession they should be suppressed on the followiug grouncls.

1. Because the payments (often ls. weekly during illness only) are, on the face of it, quite inadequate, and hence directly tend to inefficient treatment. lu proof of this I may mention: a. A case of puerperal fever where the "doctor" refused to give quinine, as "Too expensive a drug to pas." b. A case of diphtheria recently under my observation, where the room was destitute of the barest necessaries, while the patient had been left without any tute of the barest necessaries, whited mother could givc. The atmosphere was foul beyond deseription.
was foul beyond description.
2. On account of the gross ignorance, incapacity and carclessncss of the medical men in charge. From many instances I quote state of the greatest I was called to see a young primipara, whon I fouad in a state of the greatest alarm, as she was fold she had been sevent y-two hours in labour. The "doctor" heing equally frightenes. The membranes liad not even been ruptured. The cord was tied so carelessly that the child died in the night from hæmorrhage. b. A strangulated hernia poulticed and treated as a bubo. c. A typical case of pneunonia where the patient's friends were told he had intestinal obstruction, though the bowels had recently been moved. Two dis pensary men saw this patient together, with the above diagnosis.
3. The well known fact that the dispensary men keep their patient's pay ing by exaggerating their maladies. I saw a patient to-day who was recently ing by exaggerating their matiadies, the stomach, and that if she was not informed that she had a tumour in the stomach, so sufterin from subacute pregnant, it contained " Blood and matter." Sh
uterine catarrh, and has no tumour whatsoever. in its absence the public-
Is it not time that the medical profession-or in its absence the public-
hould take some steps to prevent such prostitution of its powers? From should take some steps to prevent such prostitution of its powers? From
another point of view, does not each patient who going to hospital pays another point of riew, does not each patient who going to

## Paying Hogpital Patients.

$\triangle$ Victim writes: May I be allowen to suggest that the present time (when the public are being asked to contribute to the numerons hospitals and kisensaries in London) would be a suitahle opportunity to ask them also to conribute the scores of strugeling metropolitan practitioners who are beiug ribute the encroschment of these institntion driven into the Bankruptce on their private patients. Many of the hospitals now charge each out-patient a small fee-3d. or 6d.-thus competing with the hundreds of so-called prirate dispensaries which are cropping up in all parts of London and its environs; the result being that medical men daily tind their patients going to the hospital and paying their 3d. rather than pay his modest fee of 2 s . or 2s. 6d.

If hospitals are in debt why do they not restrict their relief to the necessitous poor, and not relieve those who are well able to pay for what they require? If there is to be a lospital fund, there should also be a bankrupt practitioners' fund.

A Case of Distress
Mr. John M. Bright (Forest IIill, S.E.) writes: Will you kindly allow me to acknowledge the following donations towards the relief of the case of distress, which have been received since May 24th?

 be gratefully received by Dr. G. C. Jonson, 16, South Eaton Place, or by my self.

## The Luce fund

Anount already aubscribed, £83 18s. 6d.; Miss Jacob, £1. Further donations in aid of Mrs. Luce will be gratefully received by Dr. Sheppard, 64, Darning Hoad, or by Dr. Caton, 31, Rodney Street, Liverpool.

## Antiseptics in Midwifery.

Mr. R. H. A. Hunter, M.R.C.S. (Clifton House, Battersea) writes: During the last few yeara $I$ have at varions times noticed letters in the columns of the Journal respecting the use of antiseptics and ergot in midwifery. Perhaps it mav interest some of four correspondents to learn that aithough I have attended ovor 2,000 cases without a death, I have never emploved antiseptics except Condy's fluid, in the proportion of a drachm to a pist of water, when exce lochia has been offensive. As reards ergot, invariably give half an the lochia has onnce of the liquid extract where ergol is required; When, if the child is not expelled within an hour 1 deliver with forceps. One point I am very careful about, which is that the placenta and membranes are completely expelled. Whenever I have the slightest doubt, I always thoronghly explore the uterus with the whole hand, and without any antiseptic precautions other than washing with clean water. In my opinion it is on the management of the third stage of labour and not on antiseptics, that success as an accoucheur depends.

## COMMUNICATIONS, LETTERS, etc., bave been recelred from

Mr. J. Mill, Bercrley; Mr. C. Lewers, London; Mr. Butler-Smythe, London ; Dr. Cargill, St. Andrew, Jamaica; Messrs. Johnson, Budd, and Johason, London; Messrs. May and Baker, London: Mr. W. Lodia, Barcelona; Mr. IK. H. A. Hunter, London; Dr. Louis Parkes, London; Sir W. B. Dalby, London; Surgeon-Major W. A. May, Curragh; Mr. W. Thwaites, Bristol The IIonorary Secretary of the Nottiogharn Mcdico-Chirurgical Society, Nottinglam; Dr. Napier, London; Dr. Mattison, Brooklyn; Dr. Duncan Qlasgow ; Mr. II. F. Hatherly, Nottingham; Mr. R. B. Rawlings, London; Mr. H. Mends, London; Dr. A. Hill. Grantchester; Ur. W. Donovan, Erdington; Ur. S. Martin, London; Mr. T. J. Clarhson, Birmingbam; Mr. F. W. Jordan, Stockport; Mr. W. II. Wood, Lceds; Dr. Saundby, Birminghan ;

Mr. W. Berry, Wigan; Mr. W. H. Spurgin, Maryport; Dr. W. E. Dawson, London ; Mr. C. T. Kingzett, London; Dr. F. If. Spencer, Wonford; Mr. I. B. Cashel, London ; Messrs. Hugrett and Co., London; Our Manehester Correspondent; Mr. J. C. Vaughan, Bradford; Mr. W. S. Paget, Great Croshy; Dr. Norman Kerr, London; D. Marer, M.B., Buxburn; Mr. Young J. Pentland, Edinburgh ; Messrs. Burroughs, Wellcome and Co., Loudon; Dr. Maguire, London; Mr. J. Edwards, Liverpool; Dr. G. E. Williamsou, Neweastle-on-Tyne; Dr. P. Sonsino, Pisa; H. Harvey, M.B., Liverpool ; Mr. J. E. Crisp, Chippenham; Dr. C. M. Illingworth, Acerington; Messrs. J. Robertson and Co., Edinhurgh; Dr. H. Dalton, Harrogate; Mr. A. Johnston, Ambleside; Mr. J. Price, Cairo; Mr. H. George, London; Mr. W. G. Bunn, London; Mr. T. B. Green, Kendal; Mr. W. Donovan, Birmingham ; Mr. H. Lamb, Ashton-on-Ribble; Mr. J. W. North, York; Mr. R. J. Heatly, Munton, Sunderland; Mr. J. Startin, London; Messrs. T. Christy and Co., London; Dr. W. Pearce, London; Fiat Justitia; Surgeon-Major Hendley Jeypore, India; S. W. Foster, M.B., Chester; Mr. J. Bellamy, London; Mr. L. B. Willoughby, London; The Secretary of the New South Wales Branch. Sydney; Sir W. Aitken, Woolston; Mr. W. J. Smith, Rotherham; Mr. H. A. Gifford, London; Mr. Shirley Murphy, London; Dr. Tatham, Salford Mr. J. L. Lunn, London ; Mr. W. W. Hardwicke, Dovercourt ; Dr. R. Wade Savage, London; Mr. C. Lammiman, Tunbridge Wells; Dr. G. Granville Bantock, London; Simeroft; Mr. W. H. B. Crockwell, Man chester; Dr. A D. Macdonald, Liverpool; Mr. J. Smeaton, London; Dr. Mickle, London; Dr. Steele, Ilemel IIemsted; A. C. Miller, M.B., Belford; Dr. J. O'Kelly, Ballinasloe; Mr. C. E. S. Fleming, Freshord; Dr. T. G. Garry, Liverpool; Our Egyptian Correspondent ; Mr. W. J. Donaldson, London; T. L. B.; Mr. R. Dunstau, St. Matres; Mr. M. Morris, London ; Mr. D. R. W. B. Wickham, Gosforth ; Mr. C. B. Lockwood, London; Dr. Edwardes, Lon don ; Mr. J Stewart, Clifton; Mr. Jabez Hogg, London; Dr. Caton, Liverpal; M $\%$ G. C. Taylor, Trowbridge; Mr. T. Holmes, London; Dr. Connor, Mann: $\mu \mathrm{g}-$ tree; Dr. Hack Tuke, London; Mr. Menry Roberts, Miltown-und 1 ychwood; Price's Patent Candle Company, London; Mr. Otto Hebner, L indon; Mr. S. Plowman, London; W, Brown, M.B., Fishponds; F. II. Clarke, M.B., Dumfries; Dr. Louis Parkes, London; Mr. J. P. Martin, Box, Wilts; Dr. G. Henty, London; Dr. M. L. Foster, New York; Mr. M. D. Propert, St. Darids; Mr. E. N. Close, London ; Mr. D. S. Macdonald, Brora, N.B.; Mr. W. L. Morgan, Oxford; Mr. T. F. Raven, Broadstairs; Mr. H. Bonham Carter, London ; Mr. C. Roberts, London; Dr. J. Wigmore, Bath; M. S.; A. E. Mahood, M.B., Dublin; Mr. B. B. Rawliogs, London; Mr. F. Penberthy, London; Dr. J. B. Ball, London ; Mr. Jonathan Hutchinson, London; Messrs. Thos. Pease, Son, and Co., Darlington; The Secretary of the Ophthalmological Society, Loudon; etc.

## BOOKS, ETC. RECEIVED.

Fever: A Clinical Study. By T. J. Maclagan, M.D. London: J. and A. Churchill. 1888.
The Retrospect of Medicine. Edited by James Braithwaite, M.D.Lond. Vol. xevii, January-June, 188s. London : Simpkin, Marshall, and Co.
Annual of the Universal Medical Sciences. Edited hy C. E. Sajo us, M.D., ete. and 70 Associate Editors. Vols. i, ii, iii, iv, v 188S. Philade Jphia and Lon don: F. A. Davis.
Mannel de Matière Médicale. Par R. Blondel. Precedé d'une Preface de M. Dujardin-Beaumetz. Arec 358 Figures dans le Texte. Paris : Octive Doin. $188 \%$.
Formulaire Pratique de Thérapeutique et de Pbarmacologie. Par Dujardin Beaumetz et $\mathbf{P}$. Ivon. Paris : Octave Doin. 1887 .

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[^0]:    The portloo from which the agure was drawn was, among othera, ahown onder the ratcroscope at the lectura; the epithelium is columoar, sed very a buadeot.

    Teatrionial to Dr. Bodington, - Dr. Fowler Bodington, formerly Iresident of the Blrmingham Medical Inatitnte, of tho Midland Medical Society, and of tho Dirmingham and Mlaland Counties Branch of the Pritish Medical Association, who is on the eve of leaving for British Colnmbis, whero ho iotends too begin practice, has beon presooted with in aldress, largely aigned by tho members of the modical profes. aion in Litzolngham, expressive of the high regard and esteem in which he has beon beld for many years by all those who have had profeasional and social relations with him, of the credit and distinction with whls ${ }^{\circ}$ ho has filled the varions offices, snd heartily wishing him full our and prosperty in his new phere of doty.' Among the signator cees obscrpe the names of Sir Walter Foster, MI.P., Dr. Wade, ", tef we neaur Jordan, Mr. Lawon' Tait, and Dr. Alfred Carter. Ade, Ar. Par

[^1]:    'The term lnpus hypertrophicns or the adjcetive hypertrophicus, in' conncetion with lnpns, has been used in such different senses by different anthors, that 1 think it would be mueh safer to discard it. The older writers, 1 think, generally employed it in cases in which thre was an uuusually solid cedema or elenhantold hypertrophy. Hebra and Kaposi have used it for cases in which the mapillary outgrowfis was well marked and large ; and, lastly, I find that Dr. Sangstar has arailed himself of it for a case in' which the sear is very thick and fibrous. It is quite clear that there is no variety of lupus by which this adjective can, with, any clinical usefulaega, be applied. Overgrowth of papille, hypertroFhic indriration of sear, and elephantoid ocdema are contitlons which may he prekent in certain parts of any given case of lupas and wholly sbsent in others, and they certainly do not differentiate anis speclal varicty of the disease.

[^2]:    I have, ance this lecture way givels, collated for stathatical purpones some onscy a cruthfol ingreasion of them. In rather more than half my cases the anten oxpresuly state that the patient appeared to be lo very good hentith, eases thad at no tinas sulfored frotn any delilitatiug diseases.
    In nearly halfapmila! inquiries on this head falled to disclose auy partioular dolicscy or 111 hestht on the part of the brothers and sisters, of of thic fin rants. In mily"pmr cent. was thero. renwos to susprect phethisien lu the fudivilual, and 2n sevcral of thesp tho evidence was hate slight In nearly 30 per cont. there wero secondary to the loploud 1 amt well amane of that resulty of statisticnl Inquiry bavo been poulishel which differ conasideraldy trum mine.
    L.eloir (Annalus te Dermatologie et Syphuli, vol. vili) hrings conzideralle clinical
    
     anctuer sulfered frull whito swelling of the knce. In two of them he proved the prosence of tubrecle baclli in the inpus tiswden, hangh inoculation experiments on the marltoncum of dogs falled. Io coo caso lopus of the hand was atternded by acrofulvus lymphangilis (and furmation of "tubereutar gommata " aleng the lyusplatica of thoarma), folluwed hy tabercalosis of the luag on the aifecterl sillo. In four cavos lymphatic culamon (") white erysijelan") acommsuicel lupus of tho

[^3]:    ${ }^{2}$ Communicated to the Rayal Society of Ediubargh, on December 19th, 185\%.
    111 would be foraign to my fresent purpose to discugs the argunuents which can be advanced both for and sganst the presystulic origit of tho murmor of mitral atenosis. Oa some futare accasiun I may have to enter into some parts of the ambject ju detail. Smbice it for the prespat ta ssy that the balance of eviofonce has necued to me to be strongly fin firour of tho getnerally acceptod or pressestolic view.

[^4]:    Artinu of IIsnropuinone. - The artion of hydroquinona is prompt and efficacions, and io very marked in typhoil fever, thonmatism, eryaipelas. It lowers the temperatnre, acts upon the pulso, on th, respiratory functions, stimulates the elimination of ures, excites diaphoresis, and regulates arterial presauro. Its action is more marked in patients sufferiag from fover than in healthy persons. It ahould ho civen to adnlts in doses of 30 to 50 centigrammes every hour. Hydroquinone is Japidly eliminaterl in the urine in the form of nuinhydrone, which tarns the arine to a dark olive green hue.

[^5]:    \& Tho statencent in the prospecins that "there are at least 105,000 doctors practislog in the Unated hinadom 19, furtanately, ntterly erroneoos ; the cors cinuions drawn from the staicment 1, ust, therefure, be Incorrect.

[^6]:    ${ }^{1}$ My last public report was one of twenty cases, since which I have operated on eishteen cther patients.
    

[^7]:    ${ }^{3}$ Hehl and Inltauf (Fisteigemorschrifh fur Dirmalulogie und ayrhilis, bi, xlil, P. 19) descrite typlical cacce, ant stane that in Incised portlons there are the folfowing chanken : () enlargnentit of faphle ani thickening of the evidermla: ( 2 ) production of nmall sub-c|ustermal absceases; (3) erteosive cell-intlitration into
     nrevence of tularst- bacill, تhich are mere casny fornil that in ordinayy lopus, bit but on fratily as in miliary taberele. Au reyarls treatment, they advike, aceaping, with opplication of lodeform.

[^8]:    ${ }^{1}$ Hyperplasies conjonetives des organes enntmetiles. De lomploi de la faradisation dans to traiteraent des engorgements et dévistions de l'nterns ef de 1'hypertrophie protarique. (Comptes-revitus ie litorlemir des Scirnces, Aoat 1850.) Lejons de clinique sut les maladies des femmes, par le Dr. Itipier. Paris, Octave Doin, 1553.
    Octave Dur un nouvesu iraitentent de la metrite ehronique, et en martienlipr de l'endométrite yar la galrano-caustique chimique intra-Lterine. Puris, Octave Doin, $18 \times 7$.
    ${ }^{3}$ Sur la faradisation ut rine double ou bipolsire, See Erion Nicdical ns
    Oetober and 1 November, iSS土; also the Am以rioan Sonmat of Oostefrics, seltember, 1884.

[^9]:    1 In a still more recent number of the Joursax, (August 2-th), Dr. J. MoG in a still more reoent num, claims, to have demonstrated this in a thesis published Maclagan, of Hexham, claius. in the cuinbujgh Mealcal Journat of December, Maclasan ias shown that the paper alluded to was absolately nore recention own, although repruduced without s word of indication as to its and entirely his onn, although reprduaced Fithout ss word of indication as to its original authorship.

[^10]:    1 Dr. Ducarel's IItstory and Ant'ruties ofthe Ifospital of $\{8$. Kat'arine, war the Toker. Bib. Top, Brit, vol. ii, pat 1.

[^11]:    1 I bat previonsly exhibited a portrait of acne-lapas auder that name in the Annaal Museum of the British Medical Association, bat I had not published any sccount of it .

[^12]:    - 1 Real in that Sectina rir Jargnyy at the Aanual Meeting of the British Medieal Association held in Uublin, August, 1557.

[^13]:    ${ }^{2}$ Read in the Section of Surgery at the annual meetsug of the British Medical Assuciation lield av Dublin, August, $18 \varepsilon^{\circ}$.

[^14]:    1 "The above experiments, however, will serve to show the greater difficulty of vaceinating the cow with humanised than with primary lymph, and that when successful a much milder disease is the resnlt." "Vaceive lymph in passing from the cow to man nndergoes a change which renders it less energetic on leing returned to many individuals of the class protucing it." (Ceely.)
    a The fluid contained in the vesicle in the advauced stages of cow-pox has undergone a certain stage whereby it is rendered unft for propagating this affection so as to give security from true small-pox, and this change is said to be marked by the puriform appesrances which the fuid then sssumes." "The areala is fully formed, and this is said to be $\&$ mark that the virus kegius to be ${ }^{3} \mathrm{~g}$; active, and formed, and this is said to be \& mark t
    therefore improper for use." (Bryce.)

[^15]:    1 Simflariy we meot with instances of ostoomyelitia treated as rheumatiam, and I believenot infrequentiy the rahh of repticsemis is mistaken, for acarlet fever, They rasy severtheless bo looked, upan an first connins.?

[^16]:    ${ }^{1}$ Read in the Section of Ophthalmology at the Annnal Meeting of the British Merlical Associstion ledd in Doblfn, August, 1857.

[^17]:    ${ }^{9}$ The test for sugar was only made once by theoclinfeal assistant, anal his

[^18]:    1 Read before the Pathologiesl section of the Birmingham Branch of 1 lie British Medical Association, January $2-1 \mathrm{~b}, 1 \mathrm{se}$.

    2 Stricker's Histology.

[^19]:    3 Compusative Anatomy, Jing. Ima., p. 1 Al.
    ismearches on Myohurmaifa and the Ilstohrematins, Philosophical Transac. twas. D'art 1, 1834.
    twane. Bart 1. 1834. Compratrue Embryology, vol. 2, p. 547-5.15. Cf. Weldon, Qiart Frera. Afictas. Sc. Lssl sad 1835.
    
    
    ${ }^{1}$ Quain's Andiomy, ofle elltion. See also Klein's Allas of Ilistorgy, p. 435.

[^20]:    Gazs. degli Ospitali. Nos, vand vi: lond. Afrd. Jiecord, vol. xill, p, 103.
     1. 324.

    10 Whedershelm, loc. cit.
    if It afso occurt, is I linve prover, in thu "bilo" of snalls, elugs, enyysh, amat oommon 11 mint. /'roo, lioy, Sou. No. 226, 185'].

[^21]:    19 I'roc. Khoy. Sbc., vol. xxxi, p. 20, and vol. xxov,' p. 394; 'Jowra. Physiol., ${ }^{2} 13$. Mi. p. 22, et seg.
    no hamatoporphyrin is presont in the integument of invertebrates in which No: 6, ) Hence can be found. (Sce Jour: Physiol., vol. vii, No. 3 , and vol. vili, fluded cluded it might be a metabolite of the histopenatius.
    and 12, p. 501. and $12, \mathrm{p} .501$.
    ( chromogens got ty the artificial digestion of tibrin which bear some reseminamee to those of the adrenals, but aré differeht. "Zur Chàrakteristik, etc.," Verh. der Phys. Med. Gesell. z. Würzburg, 1884, band 18, No. 9.

[^22]:    ${ }^{23}$ CY, A. M. Brown, A Treative on the Animal Alkaloids, 1887; aleo Sir W. Alt kerns little volume on tho samo subject.

    24 Proe. Hoy. Nioc., x111, 230-232.
    23 Jrid., x1, 134-135.
    $2 \pi$ Journ, 户hysiol., vii. 227-370.
    ${ }_{27}^{27}$ Cortsehr. f. Kilin. Med., $x, 5$ and 6.
    ${ }^{24}$ Corr. Bl. f. Sehweiz. Serate, xv1, 15, 18, 1866.
    ${ }^{29}$ Comp. Anat. I'ertelrates, ling. Irans., p. 18.
    
    ${ }^{21}$ Hhalos. Trans., l'art I, 1846.

[^23]:    Read in the Section of Mediche at the Annual Meeting of the Dritish Medical Asseciation, held in Dublin, August, $159 \%$.

[^24]:    1 dhatre ${ }^{\circ}$ uf a lemonstration uf the instruntents defore the 3solical Soclety, January :bel. 130m.
    

[^25]:    ${ }^{3}$ Dr. Nitze. Ferhand'ungen der Doulsehen Gerellsch. für Chirurgie. Congress. $x$ vi, 1ss7. P. 1i7; Dr. Drefiner (for Leller), P. 89, ibid.

[^26]:    4 From Leiter's catalogue, as are the other diagrams. In Fims. 3 and 4 the black areat is incorrect; it is introduced for the sabe of contrish. The entire bladder is lighted up more or less.

[^27]:    1 "We cannot conclude the retrospect of the year without once more inviting altention to the fact that it is a much safer thing to serve in the Artillery unil Engineers on the general staff than on the medical staff in onr little wars. The percentage of deaths to strength in the

    | Artillery in Egyptwas |  | .-. | $\ldots$ | ... | 0.00 |
    | :---: | :---: | :---: | :---: | :---: | :---: |
    | Fingincers |  | ... | ... | -* | 0.00 |
    | Geueral Staff |  | ... | ... | ... | 4.43 |
    | Commissariat Department |  | ... | ... | ... | 0.017 |
    | Medical Staft * | ... | ... | ... |  | 6.93 |
    | Jay Department |  | ... | ... | . $\cdot$ | 0.00 |
    | Veteriuary Department |  |  |  |  | 0. |

    ——irtish Mëdicam Jounnal, Dee. 3lst, 18s-.

[^28]:    ${ }^{1}$ The Anatomy and Relations of the Uterus during the Third Stage of Labour and the First Davs of the Puerperium. Reprint from Eilinlurgh Medical Journal, September and Uetober, 1S84.
    ${ }^{2}$ The Sectional Anatomy of the Third Stage. Reprint from Elinhurgh Medical Journal. Oct ober and November, 1887.
    ${ }^{2}$ It may not. be pelantic to recall the Aristotellan distinction between the effeicitt and the formal cusce. The former is the force or ageney by which a result or effect is produced; the latter the manner in which or the iustrument with which it is producen.
    4 Some Practical Points with regard to the Membranes in the Third Stage of Labour. Reprint from the Edinburgh Medical Journal, June, 1885.

[^29]:    dreal In the Section of Ohstatric Medieime at the Annual Mectung of the

[^30]:    Donatrons.-Mr. T. Dyer Edwards has given $£ 1,500$ to the Chelsea Hospital for Women, to be applied in reduction of the mortgage debt.-Mr. Mattlew Whiting, of Lavender IIll, Iately paid a visit to the Royal Free Hospital, and on leaving handed to the Secretary a cheque for $£ 1,000 .-\mathrm{Mr}$. James Simcox has given $£ 400$ to Unirersity Collcge Hospital. -The Mercers' Company have given 100 guineas to the building fund of the Great Jorthern Central Iospital.-Mr. Matthew Dobson las given £50 to Universlty College Ilospital. "A.B." has given fó0 to the: Metropolitan Seaside Couvalescent Cuttage Association at Bognor.

[^31]:    It is sutisfactory to learn that small-pox is on the decrease at Leeds, no fresh cases having been reported to the sanitary anthorities. The hospital now contains only thirty inmates, compared with forty-nine a fortnight ago.

[^32]:    1 These three mases were reported at the meuting of the South Indian Branch, on Soptember 2nd, 1887.

[^33]:    ${ }^{2}$. Fxhinited in the Section of Surgery at the Annual Meeting of the Britiat

[^34]:    In this atatement the words "cancer," "cancerous," and "mallgnant," are used aynonymously.

[^35]:    $$
    1
    $$

    

    1

[^36]:    ${ }^{2}$ Hend in the Eeminn of Obatetrics at the Antual Seetlag of the British Medical Association held in Dublia, August. 1887.

[^37]:    Ahatrart of a flemonstration of the instrument upon normal uretlorm as well
     siftet ure, efe.at the Medleal Sorlety, Jbullary 23n!, 184,
    2 Dr. Brenner upmn L.elter'e Ureehroscope. Ferband der Jantsehen Gesellsehaft fur Churwrgle, a vi Congra, 164i. p. 92.

[^38]:     Quert. Jour., M1ar, 196s.
    
    ${ }^{3}$ Leiter, Aeve Beleuchtung n- Apparife, Winn,' 1 psa.

[^39]:    ${ }^{5}$ Abernethy. loc. cit. pp. 3." ${ }^{\circ}$. 10.

[^40]:    - Kxcluding cartllaginous and osscous growths.

    T South's Translation of Chellus's Surgery, 1947, 11, p. 649.
    When inflamed (?).

[^41]:    Salol in Crstitis.-Professor Demme, of Derne, has recorded (Therap. Monatahefte) a case of cantharidin poisoning following the application of an enormous blister over the sacrum. The patient was a hor, aged 5 , and the blister was recommended bra "friend" as a cure for nocturnal ineontinence of urinc. The general symptoms were very severe for two days, and subsequently the boy suffered from crstitis, which, however, yielded to salol. The quantity given daily was gradually increased from twenty-thrce grains to thirty-eight grains; improvement commensed on the second day, and the cure was complete on the fourteenth dy of the treatment. In another case of erstitis, which had been caused by measles, salol was also given with benefit.

[^42]:    ${ }_{2}$ Citell by Dr, M. Fothergill. Jour, Mental Nci, Octover., 18 is, p. 395.
    Rody and Mind. By Henry Maudsley, MiD.
    [1419]

[^43]:    3. Jancet, ApriI 16th, $1 \times 8 \mathrm{~F}$, p. 6s4.
    "Inr. W. B. Carpehter's i'hysiology, p. 529 .
    s"T:Encéphale, Lanuary, 12si.
    6iA Teri Book of Thysiology, tith edition, I833, p. 640.
[^44]:    ${ }_{15}^{14}$ Cited in Braun, July, 1ssi, F. 231.
    ${ }^{15}$ Brain: a Journal of Ieurology, April. $185 \%$.
    ${ }^{16}$ On Disorders of the Cerebral Circulation, etco, 1846.
    1: Deutsche Medicinische Wochenschrift. June 2ith. 1ss1, p. 359.
    ${ }^{18}$ The Diseases of the Ileart and the Aorta, by Dr. Wm. Stokes, 18st. p. 2 比,

[^45]:    ${ }^{22}$ Lance, July 27

[^46]:    Mr. Charles Roberts, for instsnce (The Physical Condition of the Masses, in the Fortnightly lheview, October, $188 \%$ ), has been led by a careful examination of thesame statistics to conclusions quite opposite to those at which Sir Thomas Cranford has arrived. He finds that improrement in Eanitation has not only made the population more healthy. but has materially lengthened the terni of life. "Stature and weight of vody" he says, "are very much matters of race. and fary In different parts of the conntrs accanding to the racial nrigin of the inhabitants. In Scothnd and the North of England the noen are tall and heavy'(from 5 feet 8 to 10 inches, nud from 11 to 13 stone), while in the Fast of England they are tall but less bulky. In the southern parts of England men aremuch shorter and Hginter of weight than in the narth and east (5 feet 6 to inches, and of to $10 \frac{2}{3}$ stone). while in Wales they are also short, but verr heary In proportion to thelrstature. The adtalt inhablants of towns do not fall nuch bolow that of the adjolning districts In either stature ar weight. The average that of of the much-abused cocknes is 5 feet inches, only balf an inch short

[^47]:    I innepratur. - In a review of tho Iequ Bomk of Trentment fm Lees, pullishom on puge 173 in the dotronch far Slateh 3rd, the name of the mathor was incorrectly girn as Mr. Arthur Conper. It'r ight to have been given as Mr. . Difrell Cooper.

[^48]:    * Heait.- Alemge, weight 133.51 nas av. dortle valres rarionsly disensed, thirkened, at leromatous; right, leformed, st enoth: Mitral viblre similarly dis: entud in some, lnit. less in legree, and the apert ure in some wifened. The pulmonary mad trjeusuil valve much less gften sud mumb less severelf affected than the procelimg. Mus le of leart often frialile. Eahby, or Hale. Left tegrthele markedly hyperfrophted in most, and in sump elistinctly dilated also: the othen cardias charibers only in a few distinctly diflated. or hypertrophied. or 2nth. Coromary arteries atheromatous is some. The aorta in several ancurysn.* ably joucheif: more or less atheromatous, inolılar, rugose, calcareons: irre-
     intier strface
    Bugia.-In some of ghemeral paralysis: in others slightly wasteil.
    Splent-Arcrage weight s.? ozs, av. In many. firin. coanse, tibrotic: capsule often imeqularly thichened, onnque mad adherent, or pignnented; occasiumally
    cicatrised. cicatrised.
    Aidneys-Avurage weiglt of each 4.83 ozs. ny"; often mone or less gramular: some partially destroged ing nid local lecions. Of the larger kidneys, some were pade yollow, firm; a fow were pale, homogeneous, fatty.
    Liver.-Avemge weight.54 azs. In some slight cirmosis: frequentr "hepatic venous cougestion;" patohy opncity or thickening. cicatrices, or auhesions of capoule.

    Lungs, - Esually odd plenritic milhesions; frequently hypostatic adema, congestion, or even puenmonia; occasionaly carnitication. brown induration, or cirrlosis of lungs, curci phthisis, caseous bronehial glands.

[^49]:    ${ }^{2} 8$ Wert Redray Asylron . Vedical Reports, vol. iii, p. 250.
    293 fedical Times and Givette, November 20tu, 1852. p. 530.
    

[^50]:    31 Adतresm at Leedx (JuURvax, July 31st, I8u9, y. 115; Med. Tines and Gazelte
    July 31 st., 1869,1 , 112 ). 1881, p. AR9; BRIT. MED. JOURNAL, April 23rd, 1881.
    32 Jancet, Aprll 30th, 1881, p. ARS: BRIT. MED. JoUR
    s3 Bril. and For. Med. Chir. Rev., July 1s7b, p. 176 .

[^51]:    "Trbulation of cases from the lerrological Register of the Royal Victoria fincet, Decembor 4 th. 1nis. p. sum.
    The Altiology und Precention of sips.
    The Gaksos of Origin of Yreart Diserses of the Jheart among Sildiers, 18.0.
    The Gakses of Origin of Yeart Disease and . Aveurysm in the Army, 1810.

[^52]:    8 Journal of Mental setence, October, $12 * 2$,
     of both Corpora Strlata: Remvery from Hemiplecis: Fxtepsive Cerebral 1 reneration: Dementia: Death twelve days aftor Rupture of Intrathora ic

[^53]:    Nutsing of the Poor. -The seventhamual report of the North London Nursing lsscciation states that the number of cases nursed last year was 1,363 . Over 200 medical practitioners in the neighbourhonl, it was stated, had availed theuselves of the services of the nurses during the past sear, or nearly double the number who applied during the former year.

[^54]:    For this observation I have to thank Mr. Peel Davlea, then housesurgeon. Tho-Lancet, vol, i, 18 es.

[^55]:    1 Read in the kection of Obstotries at the Innual Me.ting oi the British Metival Assxiatinu leld at Dublin in August. 18s7.

[^56]:    ${ }^{1}$ Reat in the Section of Olstetrics at the Anhwal Meeting of the Britiala Merlical Asweriation hetd tu Dublin, Iugust. 1997.

[^57]:    Sirhli-pox in Nontingham. -1 report on the recent outhreak of small-pox in wottingham issued by the medical officer of the borongh states that thirty-six patients from Yottinglam have been admitted to the Fagthorpe IIospital from December 2 th to the present time, and seven of these cases lave ended fatally. So far no revaccinatel person has taken small-por. Twentsi-three out. of the thirty-six had heen raccinated in infaney, but not since, and of these three died. The remaining thirteen were unraccinated at the time of infection, but six were raccinated sabsequently, and five out of these six escaped mith a mild attack. Of the seven persons who rere never raccinated, four died and a fiftlu had a rery dangerous (confluent) attack.
    Medrcal Magistrate.-Mr. William Veale L.R.CS.I, of Drogleda, has been appointed a justice of the peace for Queen's County.

[^58]:    
    1 Dictionary of Medeinc, exlitel by RicharlQutin, M.D., F.II.S., 18L Liditoss

[^59]:    ${ }^{1}$ lhead at a mecting of the West Surrey Branch on March $29 t \mathrm{~h}, 18 \mathrm{~s}^{\circ}$.

[^60]:    289 full account of 2his case was published in the Jocravat of March ith,

[^61]:    ${ }^{3}$ I am indelted ta my frimud Mr. C. T. Griffithw, resident medical oflicer at oner Mineral Water Hospital, for much help in the collection of data for the purnoses of this paper. Lowe a great deal also to medical men in London and various parts of the country for semding me cases of interest for private treat:nent.

[^62]:    1 Abstract of clinical lecturesupon Flectric Crstoscopr delivered in the ontpatient department of the 1mion Hospital, Jamuary 2 ith, liss ; and at $\leqslant t$.
    
     Köng. Gesellschaft der Acrite 36 Wien, March, 2ssi; Jovrvai, February thi. 1888.

[^63]:    ${ }^{3}$ Compare results of Maksimow ami Znamensky in tho use of ligatures in resmetion of the bladder. Langealheck's Archiv, 3i.
    Ancolatoni."Stecknalellander manallichen Karnblase." Wriener Med. Hachenschreft. 1836 . צos. 7.8.

[^64]:    ${ }^{5}$ Dr. Nitze, "Beitrige zur Endoskopie der_männlichen Harnblase," Langenbeck's Archiv, 36.

[^65]:    1 Read before the Pathological Society of London, November, 1887.
    ${ }^{2}$ Treves's Manual of Surgery. vol. i, p. 215.
    9 Comptes liendus, tome xcix, 1884, 1). 6tjl.

[^66]:    - Frophylarie de ha Tuberculore, p. 32,
    \# Arch. de Physiolope. February isith. 1883 , February 16th, 1884.
    TA Anales de Li'mstitut Pasteur, March, 1 sei.
    - Holmes s Syster of Surgery, vol. 1.

[^67]:    9 For two cases in which the inoculation of circumcision wounds by tuber cular firus was followed only by cascous abscesses, see Lancet, January datly, 18\&8.

[^68]:    - The Localisation of Cerelral Disease, by David Ferrier, M.D., F.R.S., p. 23.

[^69]:    Read at a meeting of the Abenteen, Banff, and Kincandine Branch ou
    March 218t.

[^70]:    Theobald, von Graefe's Archiv, vol. xxx, p. 2

[^71]:    hid larturition. luin.

[^72]:     Steavenson, M.J., pp. 24, 25. 1884.

[^73]:    Birecess.-Mr. Baber, of Freemantle, Southampton, has bequentlied E5, 1000 to the linyal South IIants Infirmary.

[^74]:    ${ }^{1}$ Rend before the West Somersel Branch of the Britioh Medical Association.

[^75]:    ${ }^{1}$ Read before the East and Weat Sussex District of the South-Eastern Branch.

[^76]:    Ambleanch Instredetion to Pobickmen and Rahway fienvants. - It is natisfactory to see. from the reports which so frequently reach us, that a kiowledge of first-aid and ambulano work is fast spreading anoug railway serrants and policemen. To no class of men probably is this knowledge likely to he of such adrantage, and the St. John Amhulance Association is doing a goocl work in promoting and directing it e exteusion. Last wepk about. forty guards, portors, policemen, and platelnyers, in the serviee of the London and Sonth-Weatern Railway, went through a momber of ambulance manourres at Waterloo Staton, nuel the manner in whinh thev performed their drill retlected rethit on Mr. A. Osharn. F.R.C.S.. who directed the proceedings. Seventern constables and two ollicers of the constabulary of Colelester. who had successfully passed the examination of the St. John Arobulance, were recenily presented with certificates and balges.

[^77]:    1 Sees Treatise m Duscases of the Fiar, fith ed., 1 . 496 , where, also, the auther
     use of the dental erfighe for the removit of exostoses."

[^78]:    ${ }^{1}$ Sir W. Fergusson's case is probably published, but after some seareh I am unable 10 find in reference. In the other there wis no post-mortena examination. A photograph of a case almost precisely similar to Mr. Edwards"s patient was A photograph of a case almost prith Glasgow by Dr. Paterson. In the museum
    
     from whom Mr. Mutfon removedachersts. Hunter successfully removed one In weighed six ponmds, and containd hep sixteen rears groming (College of which weiched ten pounds, aud had been sixteen yol. 11 .
    Surgeons' Minsenm, Ag 52). Sre Paget's Lectires. vol. 11.
    o. 2 Gregorr, Jowm. de Pharm., Februsry, 1834.

    3 Berber, letter to Acad, de Méd., Nchmidt's Jahrb., vol. ii, p. 26 i.

[^79]:     a Wiener ti whenul

[^80]:    Fixcerpt from a demonstration of the vislue of the electric light in the dianosis and treat of obscure vesion-urethral diseases alven before the Staffordshire Branch of the IBritish Mealical $\Lambda$ ssocialion, May 31sl, 1 kts . This sul)ordis is bopropriato addition tu an culitorial on "The Surgery of the lireler," in the Jounsar. Junc 2nd, 1248.
    n the Jounsal. Jime aita, Dione of the Lilectrle Cystoscope. Journai, liebraary 41h. 124.4.
    3th. simale villous panillomata are fonme at tho right ureterat orifire in tis per
     cent.. and at tho left in 26 per cros. citcue ave sltiated at sho umperal orifices. myxomata in on per crent. of the
    Author, famert, March loth, 1888.
    4 The liability of the tlirge zones lo beronie affoctel by single cancarous growthe map bo exprestod thas. Carcinomb of lithe Bladder, $168 y$
    Author, Pathological Traneastions. Carcimomis of lite Bladder, 1s5y

[^81]:    3 Jourxal. The Surgery of the lieter, Jume 2ud. 1 Ex. xxxvii, p. 310.
    ${ }^{7}$ Author, Atresia (Congenital?) of the Vecical Oritice of the Left lireter, Ibid.,
    p. 200.

[^82]:    ${ }^{1}$ Au inquast was held by the rity rormer for Bristol, and ufter horaring the evidence the jury ruturned 2 verdict of folo-de-se. The woman is sthll (June 19th) fifing, and dolng well.

[^83]:    ${ }^{2}$ Thise de Paris, 1sii, and Lyom Mfidical, Iviii, 20.

[^84]:    *The unshasifich are here neglectenl. IThure were sixtoen blanks.

[^85]:    It minst be remembered that in the returns the years of life only are given,

[^86]:    a " During the last quarter of a century, the drisking practics of somel whid
     Trave come vars sinee foren lembrd upon as only mominue to impures and, at no
    
    
     that what has hithertu brea regariled as intemperate habits, may years bence. thath whaty from that which may be looked upon as lutemperate some years bence. sviclely from. supra cit., page 201.

[^87]:    3 OHstetrical Trans., 1979, xxi, p. 163.
    4Berlin. Med. Wochen., 1885, No. 13, p. 19.
    s Zeitschrift f. Gebiurt., u. Gyn. Bu. v, p. 397. Figs. 11 and 12.
    G Berlin. Med Irochen., 1885, No. 3, pp, 17, 39.
    甲 , Archiv für Gynülk., 1383 , Bd. xxi, p. 166.

[^88]:    
    y Obstet. Trans.. 1,71. vol. xii, p. 2is.
    10 Zeitschrift fü̈r Geburt. und Cignuí., 1, \#3, Bu. is, p. 302.

[^89]:    11 Amer. Journ. Olistet. 1ki. Fol. xiv, p.ipo.
    12. Annales de Payniologie. 1Raf.

    13 fher Xiriserschnitt bei iterus-Filromm. Leipzig. 1 kiz
    it Amer. Fiynecological 7rans., 1 ani. vol. xi. n. $433^{3}$.
    15 Uherivitions on the Carsarean sketson. Criantotomy. etc. Iszo.

[^90]:    2 This supposed soft condition of the walls was not found after death, and it probable that the bulging of the posterior wall was due to the destruction of the cricoid cartilage and the upper ringe of the trachea, in consequence of which cricold cartiage and the wior wall of the windpipe was no longer properly supportea.

[^91]:    The Contagiocsness of Leprosy.-The Rev. Canon Baker, of Cape Town, to whom we are indebted for an interesting pamphlet - Remarks on the Spreat of Leprosy at the Cape of Good Hopewrites to ns, expressing his belief in the contagionsness of leprosy, and mentions a remarkable circumstance as being within his own knowledge, namely, that in a certain house three consecutive cases of this disease occurred in individuals not connected by consanguinity or marriage.
    Donations.-Mr. I. C. Burton Borough, of Chetwynd Park, Las given £200 to the Salop Infirmary, Shrewsbury, in lieu of an intended legacy--Lord Robartea has given a hundred guineas, and the Rev. J. Harrey $£ 50$, to the North Loudon llospital
    for Consumption. for Consumption.

[^92]:    Presentation.-Dr. Walter Kent has been presented with a valuable medical chest and an illuminated address by his friends and patients, on leaving Biddulph. Staffordshire, for America.

[^93]:    II Mr. Willott, was, f think, the first convert to my views. I learned, years lift more impression than conversation in the square at St. Bartholonew's had le:t more impression than I supposed.
    ${ }^{3}$ It iucluht Protesor Mumphry, "Flat-foot and Construction of Plantar Andh," Lencet. Mardh zuth. 18* ()
     Fork 1f. hect Jucord, Mirch 17th, Nox, Mr. Symington, Jourthat of Anatomy and Phystiology, Vol. xix; Mr. Culding-DIrd, Giky's Iospital lieports, 1883; DIr.

[^94]:    - Cornilad Ranvier, vol. ii, p. 32\%.

